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## **SECTION 12. STORMWATER MANAGEMENT**

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This section summarizes the stormwater management analysis conducted for the proposed Project. The stormwater management system for this development must meet the Basic Standards, General Standards, and Flooding Standards of Chapter 500.

### **12.A Narrative**

#### ***12.A.1 Development Location***

The West Mountain Project site is an approximately 550 acre tract of land that is roughly bounded by the Sugarloaf Access Road to the east, West Mountain Road to the south, and the existing West Mountain Quad ski lift to the west (the “Site”). The Site lies within the surface watershed of the South Branch of the Carrabassett River, which is not classified as an Urban Impaired Stream as listed in Chapter 502 Stormwater Management Rules. Access to the site will be via new access roads and driveways off of Sugarloaf Access Road, West Mountain Access Road, and Bucksaw Drive.

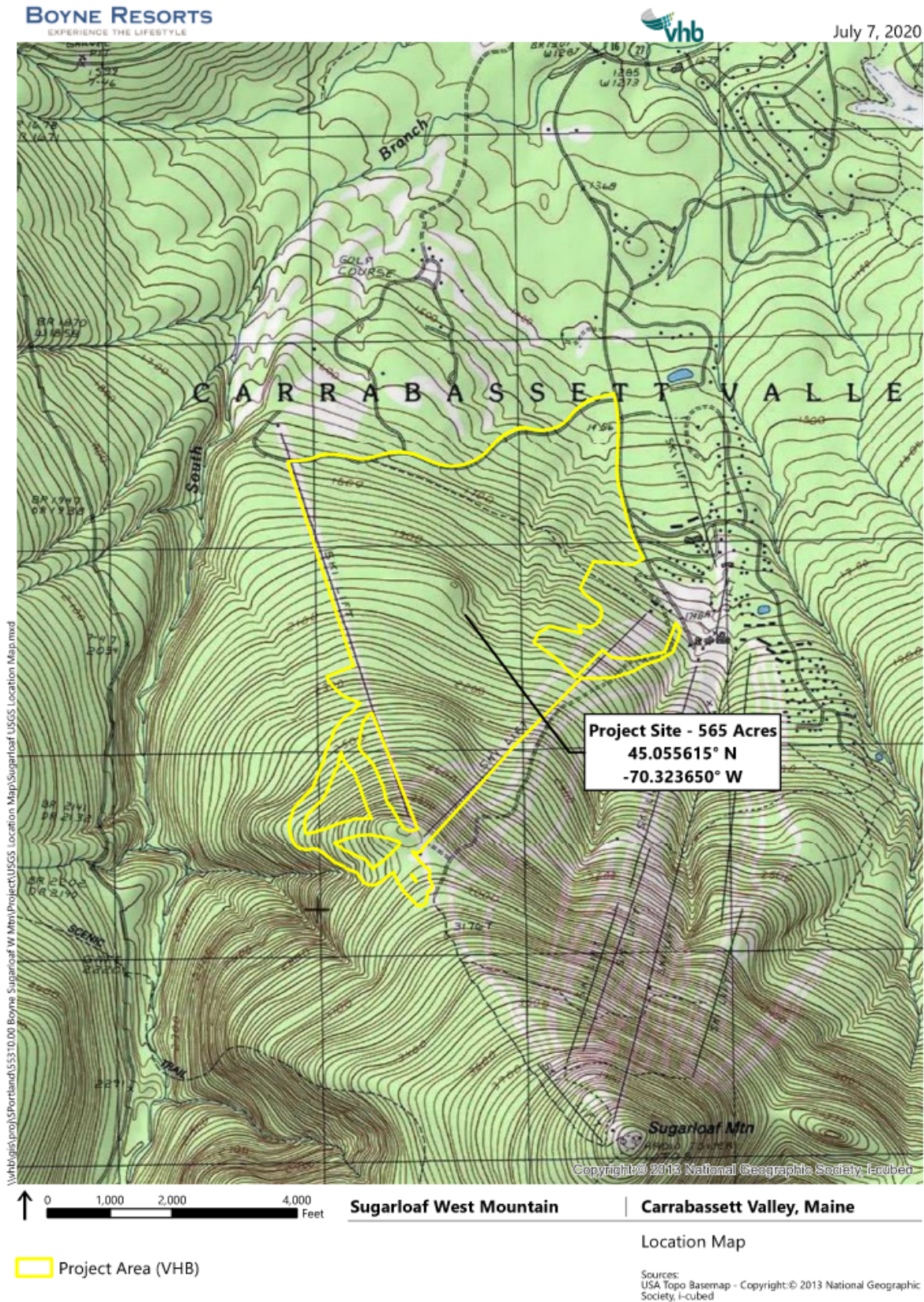
Existing small perennial and intermittent mountain streams generally flow to the north and east across the Site, through several culverts and one bridge at the Sugarloaf Access Road and West Mountain Road and to South Branch of the Carrabassett River. The Project is not located within a lake watershed; therefore, the Phosphorus Standards do not apply. Streams generally increase in size and flow regime moving from west to east across the site (right to left on the accompanying plan views).

Existing land cover consists primarily of previously logged forest lands at lower elevations within mixed deciduous forests. Higher elevations feature pine/fir species. An existing gravel work road transects the site in the east-west direction with a few scattered clearings and miscellaneous staging areas located along the work road. An existing water main corridor crosses the Site approximately halfway up the slope.

***12.A.2 General Topography***

The Site ranges in elevation from approximately 3,000 feet above mean sea level (amsl) at its south extent at the top of West Mountain to approximately 1,430 feet amsl at the northeast corner of the site. Project area topography is fairly steep with slopes ranging from 10% to 45%. Within portion of the Site to be used for housing development, slopes are in the 12%-20% range. Figure 12-1 below depicts general topography on a USGS quad map. Localized topography around the larger streams includes some gully formations, but the majority of streams onsite are smaller intermittent channels with little gullying.

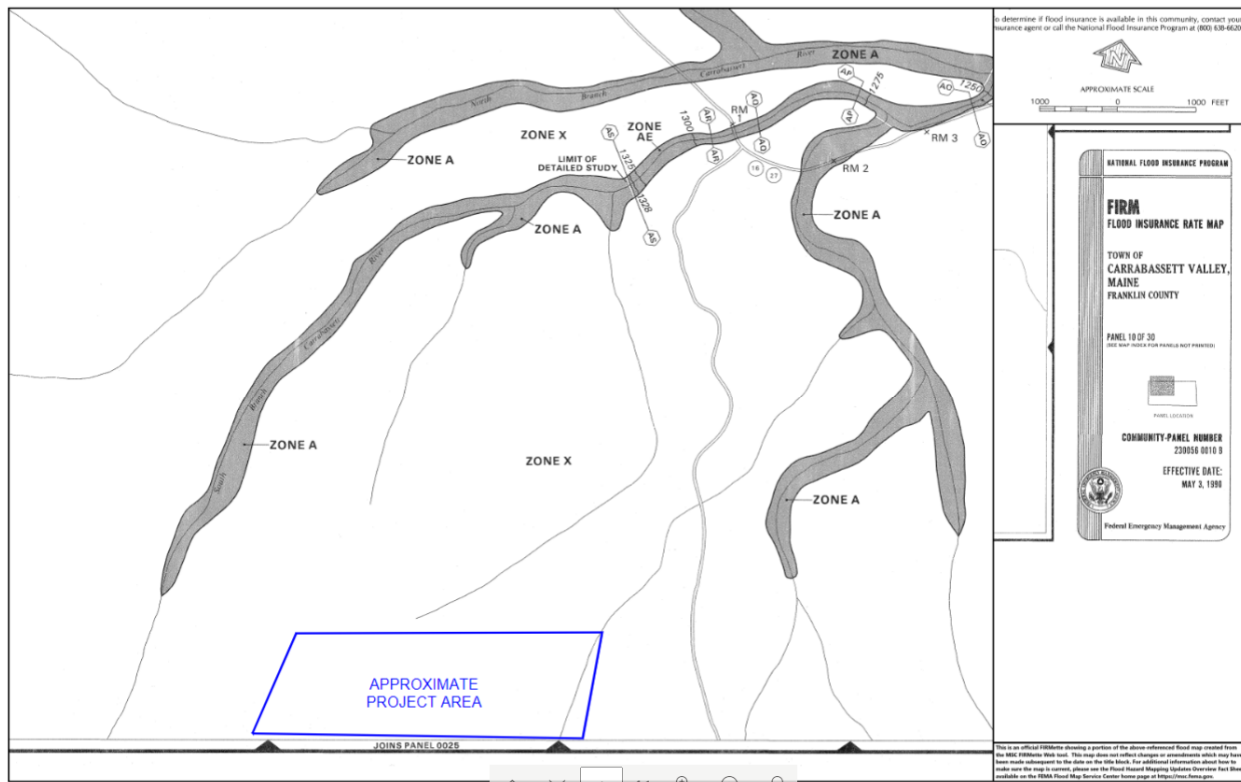
Figure 12-1. Site Location Map



### 12.A.3 Flooding

The Site where development will occur is located within Zone X (areas determined to be outside of the 0.2% annual chance floodplain) as shown on the Flood Insurance Rate Map 2300560010B, effective May 30, 1990 and 2300560025B, effective May 3, 1990. A copy of the flood zone maps is included in Section 19 of the application.

Figure 12-2. FEMA Floodplain Map



### 12.A.4 Soils Map

Soil survey mapping, verified by a Maine Certified Soil Scientist, is provided in Section 11: Soils. As determined in the pre-application meeting, high intensity soil survey mapping is only focused on the areas where more dense development is proposed. The medium intensity soil survey mapping obtained from the NRCS *Soil Survey of Franklin County, Maine* was used for the remaining portions of the Site and is included in the drainage plans provided in Appendix 12-1. Additional test pits were also performed on site to verify hydrologic soil type in addition to

other soil characteristics in accordance with Chapter 500. These logs are included in Section 11 of the application.

#### ***12.A.5 Alterations to Land Cover***

Within the Site, approximately 218 acres will be disturbed during the construction of the ski terrain, facilities, parking, condominiums and duplex townhome development, as well as roadway, utility, and stormwater management infrastructure. Approximately 17.9 acres of impervious surface will be developed for the ski terrain, skier parking lots, condominium and duplex townhomes and associated parking lots, and roadways serving the single-family lots. Following construction, the areas of proposed ski terrain and the new lift line will be revegetated with grass that will be not be mowed more than once per twelve-month period. Due the infrequent mowing and the dense vegetation that is expected to become established at the ski terrain, ski terrain associated with the Project does not meet the definition of a Developed Area as established in Chapter 500. Note that the land cover conversion from HSG D “woods in good condition” CN=77 to ski trail “meadow in good condition” CN=78, itself does not represent a significant increase in runoff generation for proposed trail areas.

#### ***Single Family Lots***

Because the exact configuration of buildout of the individual 54 of single-family homes is not known at this time, the amount of developed area and proposed impervious cover for each of the lots has been assumed based upon lot size. These proposed areas are summarized in Table 12-1 and are incorporated into the post-development modeling of Appendix 12-2. For the single-family homes, the amount of developed area and amount of total impervious surface is approximately 24.5 acres and 16 acres, respectively, for runoff calculation purposes. The Project will ensure conformance with these assumptions via the Sugarloaf architectural review board and a series of restrictive covenants. These covenants will establish the post-construction stormwater management measures prescribed for the single-family homes as well as the maximum allowable clearing on the land and maximum impervious cover, ESC measures, etc. Prior to development of each single-family lot, the owner will be required to submit for Sugarloaf’s approval a plan depicting these features and prepared by a professional engineer registered and licensed in the

state of Maine. Sugarloaf and Boyne Resorts have used this approach successfully for similar past projects.

The Applicant wishes to maintain voluntary visual forested 100-foot-wide buffers to the extent practicable along the existing Access Road and West Mountain Road. Stormwater management facilities, skier parking lots and entry points to new Project access roads will be located within this 100-foot buffer where no feasible alternative locations for these facilities is available.

## **12.B Stormwater Runoff Analysis**

### ***12.B.1 Alterations to Natural Drainage Ways***

Wherever possible, existing drainage and grading patterns were maintained in the proposed design. Some unavoidable rerouting of flow occurs due to the need to collect, treat, and discharge managed stormwater from a given area that may currently drain to two different culverts under West Mountain Road. In this instance, the goal of the proposed stormwater BMPs is to match or reduce peak flow at any one study point up to the 25-year 24-hour type II event.

The Project utilizes open bottom arch culverts at all significant intermittent or perennial stream channel crossings as part of an effort to preserve aquatic organism passage with the Project area. In addition, 13 existing perched culverts will be removed from existing streams, and the associated stream channel restored.

### ***12.B.2 Modeling Assumptions***

VHB analyzed the stormwater runoff characteristics of the proposed Project using the SCS TR-20 methodology. The hydrologic program HydroCAD, as developed by HydroCAD Software Solutions, LLC., was utilized to compute and develop the stormwater runoff model. HydroCAD's SCS TR-20 program is designed to model complex watersheds, such as the watershed analyzed in this report. The complexity of the watershed has been based on multiple land uses (surface conditions) with varying soil conditions and inter-connected subwatersheds reflecting complex hydrologic flow patterns.



The pre-development stormwater analysis consists of twenty-four separate subwatersheds totaling approximately 630 acres in size, approximately two thirds of which are contributing offsite drainage areas. Twenty-four study points (SP1 through SP24) are the analysis points for each of the subwatersheds of the pre- and post-development analysis.

The post-development stormwater analysis consists of the same area, analyzed as one hundred separate subcatchments contributing to the same 24 study points analyzed under pre-development conditions. Times of concentration for offsite areas was changed for pre- to post-development conditions in response to anticipated proposed drainage patterns.

Due to the size of the Project and the stormwater runoff model, this application section does not include modeling of each culvert and stormwater collection line anticipated to be constructed at the site. Certain pipe nodes in the accompanying modeling are still unpopulated with data, pending determination of compliance with treatment standards. Once the proposed stormwater strategy has preliminary approval, the applicant can provide modeling of key pipe crossings and collection and conveyance features as needed for DEP review. It should be noted that short pipe runs contribute very little additional lag time in the model which is not expected to significantly impact modeling results.

### ***12.B.3 Design Storms***

VHB analyzed the site and stormwater features during the 2-, 10- and 25-year design storms. These rainfall events are based on a 24-hour storm duration using a Type II distribution curve for Franklin County. The rainfall amounts of 2.4, 3.4, and 4.2 inches, respectively, are taken from Appendix H. of Chapter 500.

### ***12.B.4 Curve Number***

VHB developed weighted curve numbers (CN) for each subwatershed based on the different ground covers and hydrologic soil group types found within each area. All curve numbers were based upon the SCS TR-20 methodology and are included in the Stormwater Calculation Package located in Appendix 12-2. As described above it should be noted that that the land cover conversion from HSG D “woods in good condition” CN=77 to ski trail “ meadow in good

condition” CN=78, itself does not represent a significant increase in runoff generation for proposed trail areas.

### ***12.B.5 Time of Concentration Calculations***

VHB calculated the Time of Concentrations (Tc) for each of the individual subwatersheds using the hydraulically most distant point within each area. The length of the sheet flow component of each Tc flow path was estimated using NRCS NEH Chapter 15, equation 15-9 methodology with site specific ground cover type and slopes of the subcatchment surface. Due to the large nature and long overland flow paths found at the site, Tc flowpaths within certain large subcatchments have numerous flow segments. The Tc’s for concentrated flows are based upon SCS TR-55 methodology and are tabulated in the accompanying HydroCAD output in the Stormwater Calculation Package located in Appendix 12-2.

### ***12.B.6 Drainage Plans***

Drainage plans have been developed that show contours, cover types, soil groups, subwatershed boundaries and analysis points, hydrologic flow lines, time of concentration flow lines, existing features, and drainage ways for both pre- and post- development conditions. The Pre-Development Drainage Plan and the Post-Development Drainage Plans for the proposed Project are provided in Appendix 12-2. Due to the relatively large size of the Site, and to allow for intuitive review of the Project drainage patterns, these plans have been provided at 1” =200’ scale and 1” =300 scale.

### ***12.B.7 Peak Discharge Runoff Rates***

Peak discharge rates are compared at the 24 Study Points along West Mountain Road. A summary of pre- and post-development peak discharge stormwater runoff rates for each analyzed subwatershed is provided in Table 12-4 in the Flooding Standards section 12.E below.

Of the 24 Study Points, only six locations correspond to where a delineated intermittent or perennial stream directly connects to a crossing structure at West Mountain Road. Study Point 1 represents the location where the largest onsite stream flows under West Mountain Road. A simple steel beam bridge with wood decking spans this crossing. This is one of two locations

associated with a perennial stream, the other being at SP-6, which flows through a wetland before crossing under the road in an existing pipe culvert. The remaining stream crossings (SP's 4, 12, 13, 20) are all intermittent streams that cross under the road generally in 18" or 24" diameter metal or HDPE culverts. The remaining SPs are also all 18" to 24" culvert pipes fed from wet weather event flow originating from the Site and surrounding area, but no delineated or intermittent channels are directly connected to these pipes.

## **12.C Basic Standards**

The Basic Standards apply to all projects that require either a Stormwater Management Law or Site Law permit. Erosion and Sedimentation Control, Inspection and Maintenance and Housekeeping standards are required for submission to meet the standard.

### ***12.C.1 Erosion and Sedimentation Control Plan***

In accordance with the Basic Standards, stormwater conveyance structures will be designed, constructed, and stabilized using erosion and sedimentation (E&S) BMPs. The Erosion and Sediment Control narrative and plan sheets contains the details and specifications for general stabilization measures to be used during construction and stabilization of the Project. These measures will be used to protect exposed soils during the construction of the Project.

The stabilization measures for the site will include temporary and permanent E&S controls, appropriate design of swales, culverts, and erosion protection for earthen cut and fill slopes. Locations and details of the erosion and sediment control measures and the erosion and sediment control notes are shown on the site plans included in Section 14 of this application package.

### ***12.C.2 Inspection and Maintenance Plan***

An Inspection and Maintenance (I&M) Plan has been developed for inspection and corrective actions both during construction and post-construction. The I&M Plan provides the inspection frequency, minimum maintenance and inspection requirements and sample logs. The standalone Inspection and Maintenance Manual is included in Appendix 12-3.

### ***12.C.3 Housekeeping***

Housekeeping requirements such as spill prevention and reduction of pollution through groundwater protection, de-watering practices and regulating authorized and non-authorized non-stormwater discharges are addressed either through the Erosion & Sedimentation Control Plan or the Inspection and Maintenance Manual.

## **12.D General Standards Submissions**

The General Standard is required when a project discharging to a non-lake or urban impaired stream, results in more than 1.0-acre of impervious area or 5-acres or more of developed area.

### ***12.D.1 Narrative***

A description of the Pre- and Post-development conditions, including alterations to the land cover has been provided in Section 12.A.5.

### ***12.D.2 Drainage Plans***

The Pre-Development Drainage Plan and the Post-Development Drainage Plan for the proposed Project are provided in Appendix 12-2.

### ***12.D.3 Calculations***

The stormwater best management practices were designed to treat the Water Quality Volume (WQV) based on the criteria outlined in Chapter 500 for pollutant removal and treatment. The requirement includes treating 95% of the impervious area and 80% of the developed area. Linear portions of projects that do not discharge to an urban impaired stream, are required to treat 75% of the impervious area and no less than 50% of the developed area.

Due to the challenging topography and slopes present at the Site and challenges associated with treating isolated linear impervious surfaces on steep terrain with HSG C and D series soils, the Project proposes to treat runoff from approximately 0.2 acres of existing West Mountain Road and 3.13 acres of existing impervious surface associated with an untreated gravel parking lot (Lot E) and to use this surface as an offset for proposed isolated roadway and ski terminal impervious surfaces for which treatment is infeasible. From a Water Quality and peak flow

mitigation standpoint this approach is favorable because it proposes to address more significant concentrated flows and pollutants from gravel parking lots in lieu of treating new paved roads and two townhome building rooftops which produce much less nutrient and sediment loading and predominantly sheet flow to adjacent vegetated terrain. Compliance with the WQ requirements is demonstrated in Table 12-1 below. Note that on a sitewide average basis the Project exceeds the required treatment for impervious surfaces and developed areas once the treatment of the existing untreated impervious surfaces is taken into account.

The 11 soil filters have been designed with a control orifice paced on the underdrain in order to detain the Water Quality volume over a period of no less than 24 hours and no greater than 48 hours, as required by Section 4a(ii) of Chapter 500.

In accordance with Section 4C(2) of Chapter 500, the 4 proposed wet ponds have been designed to provide 12-hour detention of the runoff volume from the 1-year, 24-hour storm event. This is demonstrated by noting the center of mass detention time exceeds 720 minutes (12 hours) in the accompanying modeling output (Ponds P1, P11, P13, P14). For the 11 soil filters, an orifice has been placed on the outlet of the underdrain pipe where it enters the control structure in order to provide the 720 minutes center of mass detention time, or 1” diameter circular orifice is used. It is VHB’s experience that a 1” diameter orifice is the smallest practicable orifice that can be utilized in stormwater treatment applications.

**Table 12-1.** Project Treatment Summary

<b>Water Quality Treatment Percentages</b>					
<b>Impervious Classification</b>		<b>Total Area (Acres)</b>	<b>Area Treated (Acres)</b>	<b>Percent Treated</b>	<b>Percent Required</b>
Non-Linear Portion	Impervious Area	10.83	9.66	89%	95%
	Developed Area	22.17	15.93	72%	80%
Linear Portion	Impervious Area	7.09	4.47	63%	75%
	Developed Area	13.13	6.55	50%	50%
Single Family Lot Development	Impervious Area	16.00	15.20	95%	95%
	Developed Area	24.42	19.54	80%	80%
Offsite Treatment/Mitigation	Impervious Area	3.36	3.36	100%	0%
	Developed Area	-	-	-	-

Total New Impervious (AC)	<b>33.92</b>
Total Impervious Treated (AC)	<b>32.69</b>
Percent Impervious Treated	96.4%
Total Developed (AC)	<b>59.72</b>
Total Developed Treated (AC)	<b>42.02</b>
Percent Developed Treated	70.4%

Tables 12-2 and 12-3 below summarize the sizing criteria that is being used to size the structural stormwater treatment practices for the Project.

**Table 12-2.** Vegetated Underdrained Soil Filter Sizing Summary

Practice ID	Treatment Areas (AC)			Sediment Trap Volume (CF)	Provided Sediment Trap Volume (CF)	Filter Surface Area (SF)			
	Total	Impervious	Developed			Impervious (5%)	Landscaped (2%)	Minimum Surface Area	Surface Area to be Provided
P2-Townhomes 3-6	3.21	0.82	2.39	45.5	448.0	1784	2085	3869	3904
P3-Townhomes 1-2	4.16	1.23	2.93	68.6	128.0	2688	2551	5239	5240
P4-Bottom of Road A	0.68	0.16	0.52	8.8	120.0	346	456	802	802
P5-Road A, Near Condos	2.35	0.90	1.45	49.9	82	1956	1261	3217	3217
P6-Lots R43-R44	1.08	0.41	0.68	22.5	116.0	882	592	1474	2234
P7-Lot R42, Road C	1.55	0.48	1.07	26.6	38.0	1041	930	1972	1972
P8-Lot R40, Road C	1.82	0.49	1.34	27.0	93.0	1059	1165	2223	2235
P9-Road D, Lot R51	1.25	0.27	0.98	15.0	69.0	588	852	1440	1440
P10-Road A, Lot R31	3.46	1.26	2.20	69.8	90.0	2736	1916	4651	4651
P12-Drop-off Parking Lot	2.08	0.92	1.16	51.1	167.0	2004	1014	3018	3179
P16-Timbers 10	0.66	0.23	0.43	12.8	179.0	503	374	877	877
P17 -Timbers 11-14	1.83	0.64	1.19	35.6	119.0	1394	1036	2430	2430

**Table 12-3.** Wet Pond Sizing Summary

Practice ID	Treatment Areas (AC)			Sediment Trap Volume (CF)		Calculated Minimum Volumes (CF)		Proposed Volumes (CF)		Gravel Trench Length (FT)	
	Total	Impervious	Developed	Minimum	Provided	Permanent Pool Volume	CP Volume	Permanent Pool Volume	CP Volume	Required	Provided
P1-Condo Complex	11.94	4.06	7.87	225.7	228.0	52,363	26,182	54,189	19,882	78.5	80
P11-Parking Lots E, F, G	8.30	3.90	4.40	216.7	733.0	41,108	20,554	49,963	23,481	61.7	70
P13-Parking Lot H	2.92	1.17	1.75	65.0	233.0	13,579	6,790	14,847	5,841	20.4	25
P14-Timber Duplexes 1-7	7.62	1.81	5.81	100.7	233.0	30,032	15,016	31,523	9,202	45.0	50

#### ***12.D.4 Soil Logs***

A minimum of one excavation or boring has been performed in each of the locations proposed as stormwater treatment. Where a stormwater management measure is proposed a detailed log is provided which includes relevant soil characteristics, elevation of seasonal high groundwater and bedrock to a depth at least three feet below the lowest component of the stormwater measure. The logs are included as part of the Stormwater Calculation Package located in Appendix 12-2.

#### ***12.D.5 Details, Designs and Specifications***

The Project proposes to use eleven vegetated soil filters and four wet ponds for stormwater management. Infiltrative practices, while generally desired for runoff reduction purposes, is not feasible at this site due to the heavier underlying Peru and Colonel series soils. Plans depicting the details of the stormwater management measures are provided in Appendix 12-1. Impermeable liners are not anticipated to be required due to the low permeability of the native soils.

Single-family homes will be required to provide treatment via individual standalone practices designed to meet the Basic and General Standards. The Flooding Standard is intended to be achieved in the structural treatment practices listed in Table 12-2. Based upon Site conditions it is expected that these practices will consist of a combination of raingardens, vegetated underdrained soil filter, or use of treatment buffers (as feasible).

#### ***12.D.6 Phosphorus Export Calculations***

The Project is not located within a lake watershed, and therefore the Phosphorus Standards do not apply.

#### ***12.D.7 Maintenance Contract***

The responsible party in charge of the inspection and maintenance is documented in the Inspection and Maintenance Manual, included in Appendix 12-3.

## **12.E Flooding Standards Submissions**

The Flooding Standard is required for this Project because it results in 3-acres or more of impervious area or 20-acres or more of developed area and a Site Law permit or modification is required.

### ***12.E.1 Control of Peak Flows***

A HydroCAD model using TR-20 methodology was developed to evaluate the existing and proposed drainage conditions on the Site. The pre- and post-development peak discharge values are presented in Table 12-5 below. The Project's approach to conformance with the Flooding Standard utilizes a combination of peak flow mitigation and culvert analysis.

Significant effort has been made to minimize rerouting of runoff within the Project area while still providing protection of proposed ski facilities and roadway infrastructure. The 15 structural stormwater practices have all been designed to significantly detain runoff for storm events up to and including the 25-year, 24-hour event. Peak flow is maintained below pre-development levels at 15 of the 24 study points. The remaining 9 of the 24 study points (1, 4, 6, 11, 12, 15, 16, 20, 24) experience higher peak flows than under existing conditions. Due to existing slopes, streams, and channel locations, additional centrally located stormwater detention practices are challenging to implement without undue environmental impacts or creation of in-stream ponds. These are discussed in further detail below.

The existing culverts at Study Points 4, 11, 16 should have adequate capacity to convey these flows. At the existing bridge crossing associated with SP1, the modeling suggests a 2% increase in 25-year storm peak flow rate which is not expected to result in any significant change at SP-1, given the nature of the existing crossing.

The provisions of Chapter 500 Section 4F(2)(d) state that the primary access road to the Project shall not be flooded during the 25-year, 24-hour storm event. Upon review of the post development modeling results from this event, VHB recommends replacing 5 existing culverts along West Mountain Road with new enlarged culverts to pass this storm event. These culverts correspond to study points 4, 6, 11, 12, 15, and 24 and are depicted on the Project plans.



Receiving channels associated with the Project converge at several locations just downstream of West Mountain Road within lands owned by the Applicant. Peak flow rates at these confluence points are not expected to increase significantly due to balancing of peak flows from reductions achieved at the other contributing discharge points. Treatment practices associated with the single-family home lots are not represented in the modeling at this time. Implementation of those practices will further mitigate peak flows at the discharge points. The applicant will consult with the DEP to determine what modeling, if any, is necessary to demonstrate compliance with the Flooding Standard for areas downstream of these culverts.

**Table 12-4.** Peak flow summary for 24-hour Type II storms of 2-, 10-, and 25-year return frequency

Study Point	2-YR		10-YR		25-YR	
	Pre-dev.	Post-dev.	Pre-dev.	Post-dev.	Pre-dev.	Post-dev.
SP1	85.81	86.53	203.85	204.79	313.66	320.25
SP2	1.93	0.89	4.20	1.84	6.24	2.69
SP3	1.20	0.31	3.48	0.51	3.60	1.63
SP4	13.77	20.35	30.76	48.22	47.39	75.21
SP5	1.48	1.34	3.20	2.89	4.74	4.27
SP6	11.72	30.78	26.28	70.14	39.48	106.30
SP7	8.91	0.83	19.98	1.69	30.05	2.45
SP8	0.58	0.43	1.09	0.81	1.52	1.13
SP9	2.45	0.20	5.70	0.37	8.69	0.51
SP10	0.67	0.00	1.38	0.00	2.89	0.00
SP11	3.60	6.60	8.37	13.41	12.76	19.42
SP12	3.87	11.40	8.97	25.13	13.63	37.51
SP13	3.35	0.73	8.27	2.92	12.94	12.09
SP14	1.49	1.06	3.45	2.17	5.24	3.15
SP15	5.99	9.18	14.75	19.76	23.10	29.86
SP16	0.51	0.77	0.96	1.73	1.36	2.60
SP17	2.29	1.78	5.72	3.61	8.94	5.20
SP18	0.57	0.27	1.48	0.52	2.34	0.74
SP19	1.86	0.56	4.87	1.20	7.75	1.77
SP20	10.25	13.64	24.64	31.43	38.07	47.79
SP21	1.83	0.61	4.58	1.10	7.16	1.77
SP22	2.86	0.35	6.22	0.70	9.25	1.00
SP23	1.33	0.58	2.95	1.07	4.42	1.65
SP24	3.98	10.49	8.39	21.69	12.32	31.67

***12.E.2 Details, Designs and Specifications***

Plans depicting the details of the stormwater management measures are provided in Appendix 12-1 as previously noted in Section 12.D.5.

**12.F Deed Covenants, Restrictions, or Easements**

No deed restriction or covenants are proposed at this time. The Applicant will retain ownership of the land upon which the stormwater treatment practices are to be located.

**APPENDIX 12-1**  
**PRE- AND POST-DEVELOPMENT DRAINAGE PLANS**  
**SITE AND STORMWATER DETAILS**

**APPENDIX 12-2**  
**STORMWATER CALCULATION PACKAGE**

**Sugarloaf West Mountain Project  
Stormwater Management Calculations**

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*Pre-Development Model (HydroCAD Routings)*

*Post-Development Model (HydroCAD Routings)*

**APPENDIX 12-3**  
**INSPECTION AND MAINTENANCE MANUAL**

---

Inspection & Maintenance Plan  
(Stormwater Management System)

# Sugarloaf West Mountain Project

Carrabassett Valley, ME

PREPARED FOR

---

Boyne Resorts  
15 South Ridge Road  
PO Box 4500  
Newry, Maine, 04261

PREPARED BY

---



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207.889.3150

September, 2021



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## Introduction

VHB has prepared the following Stormwater Management System Inspection & Maintenance Manual and Spill Response Procedures for the Sugarloaf West Mountain Project, located in Carrabassett Valley, Maine. The Site lies within the surface watershed of the South Branch of the Carrabassett River, which is not classified as an Urban Impaired Stream, that ultimately discharges to the Kennebec River. The intent of this plan is to provide the applicant/owner with a list of procedures that document the inspection and maintenance requirements and spill procedures for this development.

## Inspection & Maintenance

The following inspection and maintenance program is necessary to keep the Stormwater Management System functioning properly. By following the enclosed procedures, the applicant will be able to maintain the functional design of the Stormwater Management System and maximize its ability to remove sediment and other contaminants from site generated stormwater runoff.

## Responsible Party

The oversight of the inspection and maintenance program will be provided by:

Boyne Resorts  
15 South Ridge Road  
PO Box 4500  
Newry, Maine, 04261

## During Construction

The following procedures shall be implemented during construction. The Contractor shall adhere to the Erosion and Sediment Control (ESC) Plan associated with the Maine Construction General Permit (MCGP).

### Erosion and Sediment Control Plan

- Impervious area, erosion control measures, materials storage areas exposed to precipitation and construction exits shall be inspected, at a minimum, once a week. Additional inspections shall be performed before and within 24 hours after a rainfall event and prior to permanent stabilization.
- BMPs shall be repaired upon discovery of problem and no later than the end of the next working day.
- Significant repairs to BMPs shall be completed within 7 calendar days and prior to a rainfall event.
- A Construction Inspection & Maintenance Log shall be completed for each inspection and maintenance activity.
- Inspection shall be performed by a person with knowledge of erosion and stormwater control which include the standards and conditions in the permit.
- The Inspection & Maintenance Logs shall be accessible to the Maine Department of Environmental Protection staff and a copy shall be provided upon request.
- The permittee shall retain copies of the logs for a period of at least three years from the completion of permanent stabilization.



## Post-Construction

The following procedures shall be implemented after construction. The Inspection & Maintenance Plan does not include items and requirements specifically associated with lift related equipment.

### Inspection & Maintenance Plan

By implementing the following procedures and following the Post Construction checklist included, the applicant will be able to maintain the functional design of the Stormwater Management System and maximize the system's ability to remove sediment and other contaminants from site generated stormwater runoff.

### Regular Maintenance

- Routinely pick up and remove litter from the access roads and parking lots.
- Remove all trash litter from the access roads and parking lots and dispose of properly.

### Record Keeping

- Inspections of the stormwater management system shall be conducted in accordance with the Inspection & Maintenance Checklist provided in this Manual.
- A Post-Construction Inspection & Maintenance Log shall be completed for each inspection and maintenance activity.
- Inspection shall be performed by a person with knowledge of erosion and stormwater control which include the standards and conditions in the permit.
- The Inspection & Maintenance Logs shall be accessible to the Maine Department of Environmental Protection staff and a copy shall be provided upon request.
- The permittee shall retain copies of the logs for a period of at least three years from the completion of permanent stabilization.

### Re-Certification

- Re-certification shall be submitted within three months of the expiration of each five-year interval from the date of issuance of the permit.
- Submission of re-certification shall include: Identification of repair and erosion problems, Inspection and repair of stormwater system, and evidence that the maintenance plan has been implemented.

### Duration of Maintenance

Maintenance as described in the Inspection & Maintenance Plan shall be performed by the Responsible Party unless and until the system is formally accepted by its successor, heirs and assigns, or other entity.

## Inspection & Maintenance Checklist

The following pages contain an Inspection & Maintenance Checklists for Construction and Post-Construction requirements and a reduced copy of the Erosion and Sediment Control Plan and Detail Sheets. These forms/plans are provided to assist the applicant with the inspection and maintenance of the Stormwater Management System.

Stormwater Management System  
Inspection & Maintenance Checklist - Construction

<b>Best Management Practice</b>	<b>Inspection Frequency</b>	<b>Date Inspected</b>	<b>Inspector Initials</b>	<b>Minimum Maintenance and Key Items to Check</b>	<b>Cleaning or Repair Needed Yes/No (List Items)</b>	<b>Date of Cleaning or Repair</b>	<b>Performed by:</b>
Gravel Access Road	Weekly and after any rainfall	/ /		Filled voids, erosion, breakout			
Silt Sock or Silt Fence Erosion Control Barriers	Weekly and after rainfall $\geq 0.5"$	/ /		Flow around or under barrier, Sediment build up > half barrier height, excessive sag, erosion			
Stone Checkdam	Weekly and after any rainfall	/ /		Sediment build up, broken barrier or stakes			
Stabilized Construction Exit	Weekly and after any rainfall	/ /		Filled voids, runoff/sediments into street			
Erosion Control Blanket	Weekly and after any rainfall	/ /		Cracking, erosion, breakout, sediment buildup			
Diversion Channels	Weekly and after any rainfall	/ /		Maintained, moved as necessary to correct locations, Check for erosion or breakout			
Temporary Sedimentation Traps	Weekly and after any rainfall	/ /		Cracking, erosion, breakout, sediment buildup, contaminants			
Materials Storage Areas	Weekly and after any rainfall	/ /		Maintained, spills, breakout			

Inspector Name and Qualifications \_\_\_\_\_

Sugarloaf West Mountain Project					
Stormwater Inspection & Maintenance Checklist – Post Construction					
Best Management Practice and Maintenance	Inspection and Maintenance Frequency			Inspector Initials and Date	Inspector Comments and Repairs
	Monthly	Quarterly	As Needed		
<b>Roads and Parking Lots</b>					
Check for erosion and washout of soils onto gravel areas.	X				
Grade as needed.			X		
<b>Drainage Structures and Pipes / Stormwater Outfalls</b>					
Check for sediments, erosion and washout.		X			
Clean and dispose vegetation and sediments legally.			X		
Remove floatable solids and oils.			X		
Replace rip rap at outfalls.			X		
<b>Vegetated Underdrained Soil Filters</b>					
Check for establishment of vegetation, erosion, and clogging		X			
Replace dead vegetation and remove weeds and leaf litter.			X		
Clean and dispose sediments in bottom of basin legally.			X		
Renew media if basin drains in >72 hours after 1-in. rainfall.			X		
Inspect overflow structure.		X			
Replace rip rap.			X		

Sugarloaf West Mountain

Stormwater Inspection & Maintenance Checklist – Post Construction

Best Management Practice and Maintenance	Inspection and Maintenance Frequency			Inspector Initials and Date	Inspector Comments and Repairs
	Monthly	Quarterly	As Needed		
<b>Forest Buffer</b>					
Check for erosion and sediments		X			
Inspect and repair stone berms that flow is distributed.		X			
No trees cut except for the normal maintenance of dead, windblown or damaged trees and for pruning of tree branches below a height of 12 feet					
Clean and dispose sediments legally.			X		
Inspect if vehicles have entered the buffer.		X			
<b>Wet Ponds</b>					
Check for erosion, establishment of vegetation and sediments		X			
Mow banks twice max during the growing season. No woody vegetation allowed on banks or near outlet structure			Twice Annually		
Inspect embankments for signs of seeps or settlement.			Twice Annually		
Inspect forebay and main cell of pond for sediment accumulations. Clean and dispose sediments in bottom of basin legally once sediment reaches 50% of forebay wet volume			X		
Replace rip rap.			X		
Inspect outlet control structure, gravel drain and low-flow orifices for signs of clogging or leakage. Remove debris and accumulated sediment			Twice Annually		



## Spill Response Procedure

Spill response procedure is limited to during the construction of the facility. Spill prevention equipment and training for post-construction operations will be provided by Boyne Resorts.

### A. Initial Notification

In the event of a spill the facility and/or construction manager or supervisor will be notified immediately.

Facility Manager (name): \_\_\_\_\_

Facility Manager (phone): \_\_\_\_\_

Construction Manager (name): \_\_\_\_\_

Construction Manager (phone): \_\_\_\_\_

The supervisor or manager will assess the incident and initiate containment control measures with the appropriate spill containment equipment included in the spill kit kept on-site. The supervisor will first contact the Fire Department and then notify the Police Department. The fire department is ultimately responsible for matters of public health and safety and should be notified immediately.

### B. Further Notification

Based on the assessment from the Fire Chief, additional notification to a cleanup contractor may be made. The Maine Department of Environmental Protection (DEP) and the EPA may be notified depending upon the nature and severity of the spill. The Fire Chief will be responsible for determining the level of cleanup and notification required. The attached list of emergency phone numbers shall be posted in the main construction/facility office and readily accessible to all employees. A hazardous waste spill report shall be completed as necessary using the attached form.



## Emergency Notification Phone Numbers

1.	FACILITY MANAGER NAME: _____  ALTERNATE CONTACT: NAME: _____	PHONE: _____ CELL: _____, _____ HOME PHONE: _____  PHONE: _____ BEEPER/CELL: _____, _____ HOME PHONE: _____
2.	FIRE & POLICE DEPARTMENT	EMERGENCY: <b>911</b>
3.	CLEANUP CONTRACTOR: _____ ADDRESS: _____ _____	PHONE: _____
4.	MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)	Oil Spills: <b>(800) 482-0777</b> Hazardous Materials: <b>(800) 452-4664</b> Central Maine Regional Office: <b>(800) 452-1942</b>
5.	NATIONAL RESPONSE CENTER  ALTERNATE: U.S. ENVIRONMENTAL PROTECTION AGENCY	PHONE: <b>(800) 424-8802</b>  EMERGENCY: <b>(800) 424-8802</b> BUSINESS (Region 1): <b>(888) 372-7341</b>
6.	MAINE EMERGENCY MANAGEMENT AGENCY	PHONE: <b>(800) 452-8735</b>





Hazardous Waste / Oil Spill Report

Date: \_\_\_/\_\_\_/\_\_\_ Time: \_\_\_ AM / PM

Exact location \_\_\_\_\_

Type of equipment: \_\_\_\_\_ Make: \_\_\_\_\_ Size: \_\_\_\_\_

License or S/N: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

On or near water Yes If yes, name of body of water: \_\_\_\_\_

No

Type of chemical / oil spilled: \_\_\_\_\_

Amount of chemical / oil spilled: \_\_\_\_\_

Cause of spill: \_\_\_\_\_

\_\_\_\_\_

Measures taken to contain or clean up spill: \_\_\_\_\_

\_\_\_\_\_

Amount of chemical / oil recovered: \_\_\_\_\_ Method: \_\_\_\_\_

Material collected as a result of clean up

\_\_\_\_\_ drums containing: \_\_\_\_\_

\_\_\_\_\_ drums containing: \_\_\_\_\_

\_\_\_\_\_ drums containing: \_\_\_\_\_

Location and method of debris disposal: \_\_\_\_\_

Name and address of any person, firm, or corporation suffering damages: \_\_\_\_\_

Procedures, method, and precautions instituted to prevent a similar occurrence from recurring: : \_\_\_\_\_

\_\_\_\_\_

Spill reported to General Office by: \_\_\_\_\_ Time: \_\_\_\_\_ AM / PM

Spill reported to DEP / National Response Center by: \_\_\_\_\_

DEP Date: \_\_\_/\_\_\_/\_\_\_ Time: \_\_\_\_\_ AM / PM Inspector: \_\_\_\_\_

NRC Date: \_\_\_/\_\_\_/\_\_\_ Time: \_\_\_\_\_ AM / PM Inspector: \_\_\_\_\_

Additional comments: \_\_\_\_\_

\_\_\_\_\_



### C. Assessment - Initial Containment

The supervisor or manager will assess the incident and initiate containment control measures with the appropriate spill containment equipment included in the spill kit kept on-site. A list of recommended spill equipment to be kept on site is included on the following page.

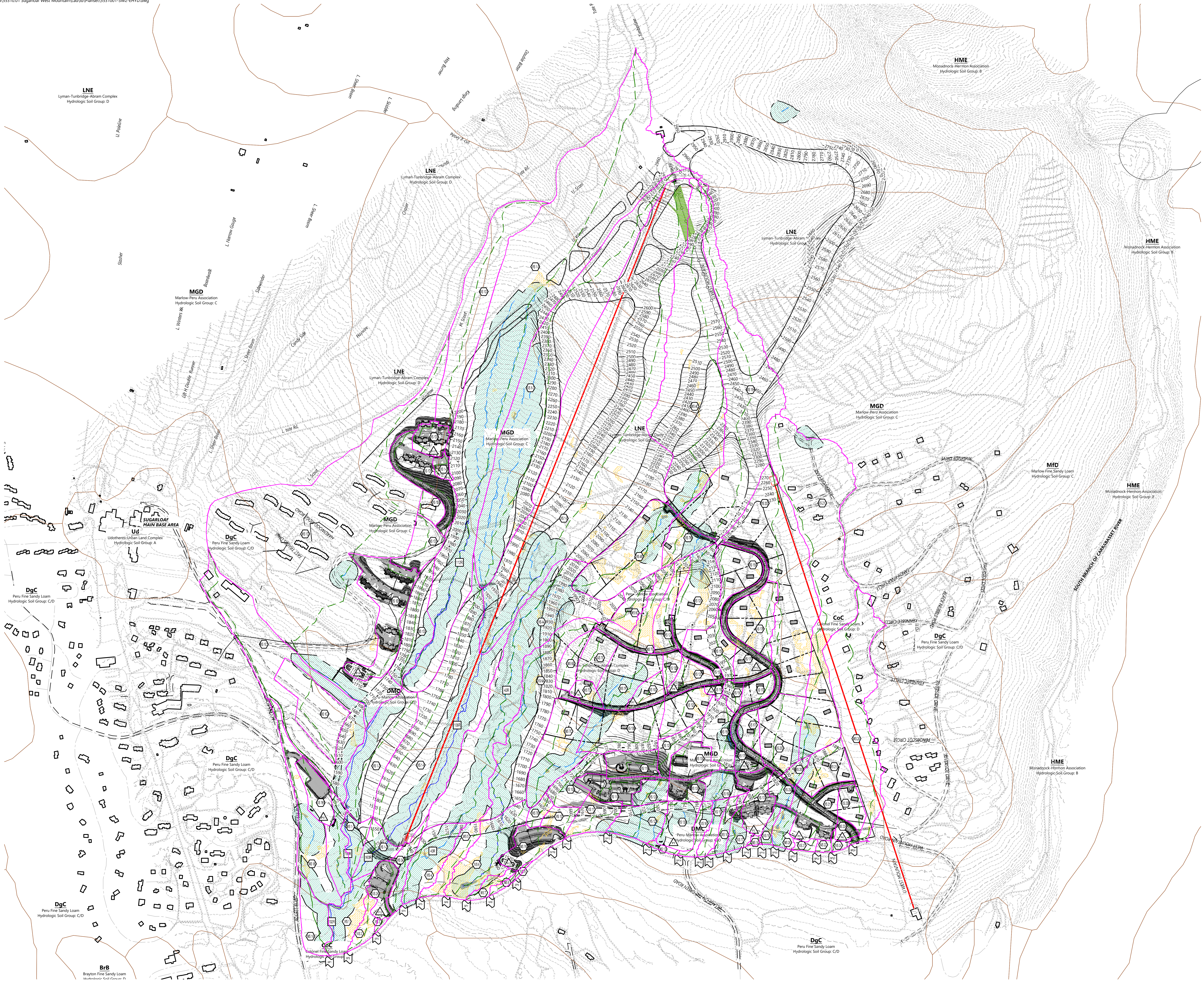


## Emergency Response Equipment


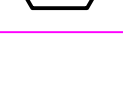







The following equipment and materials shall be maintained at all times and stored in a secure area.

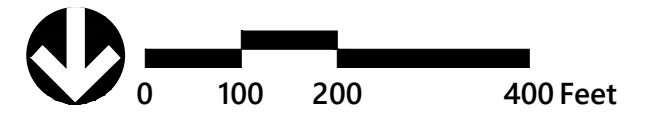
--	SORBENT PADS	2 BALES
--	SORBENT BOOM	100 FEET
--	SAND BAGS (empty)	50
--	SPEEDI-DRI ABSORBENT	5 40# BAGS
--	SQUARE END SHOVELS	1
--	PICK	1
--	PRY BAR	1

---



Legend

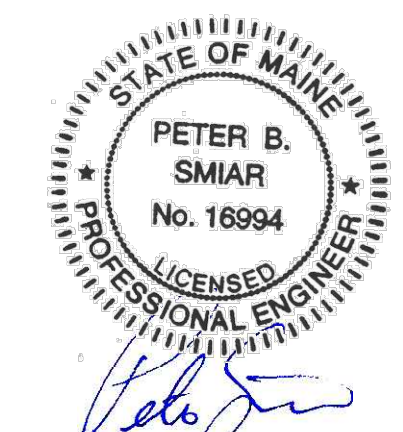
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-  PROPOSED WATERSHED
-  TIME OF CONCENTRATION FLOWPATH
-  50 FT CONTOUR
-  10 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND



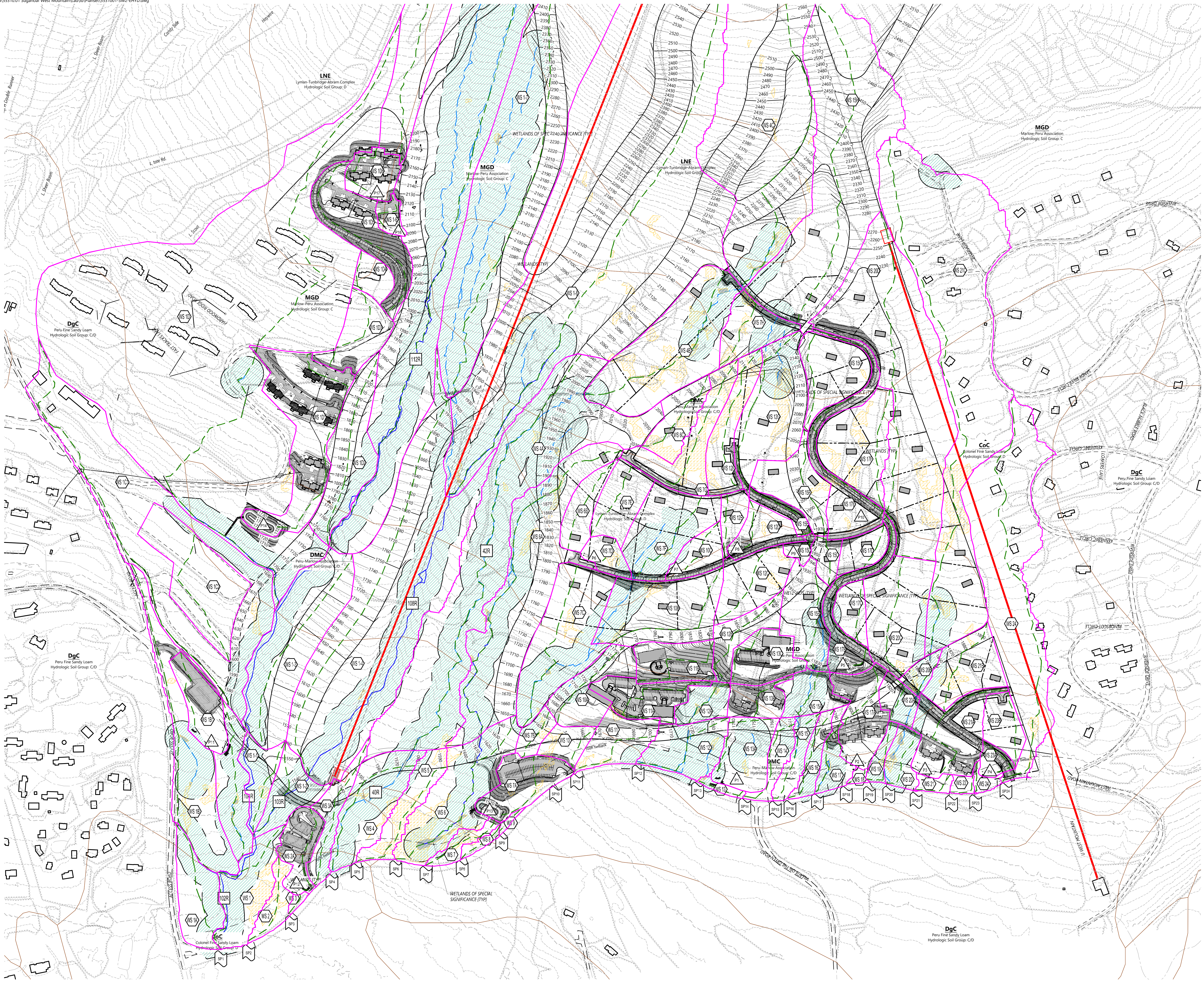
**Sugarloaf Mtn Corp  
West Mountain  
Expansion**  
5092 Access Road  
Carrabasset Valley, ME 04947

Designed by: JJD	Checked by: PS
Issued for: Review	Date: September 23, 2021

Not For Construction  
**Overall Proposed  
Conditions Hydrology Plan**



**SW-1**  
Sheet # 58  
Project Number 55310.01



Legend

- PROPOSED SUBCATCHMENT
- PROPOSED WATERSHED
- TIME OF CONCENTRATION FLOWPATH
- 50 FT CONTOUR
- 10 FT CONTOUR
- PERENNIAL STREAM
- INTERMITTENT STREAM
- NRCS SOIL LAYER BOUNDARY
- WETLAND



**Sugarloaf Mtn Corp  
West Mountain  
Expansion**  
5092 Access Road  
Carrabasset Valley, ME 04947

No. Revision Date: \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

Designed by: JJD Checked by: PS

Issued for: \_\_\_\_\_ Date: \_\_\_\_\_

Review: \_\_\_\_\_ September 23, 2021

Not For Construction

Proposed Conditions

Hydrology Plan

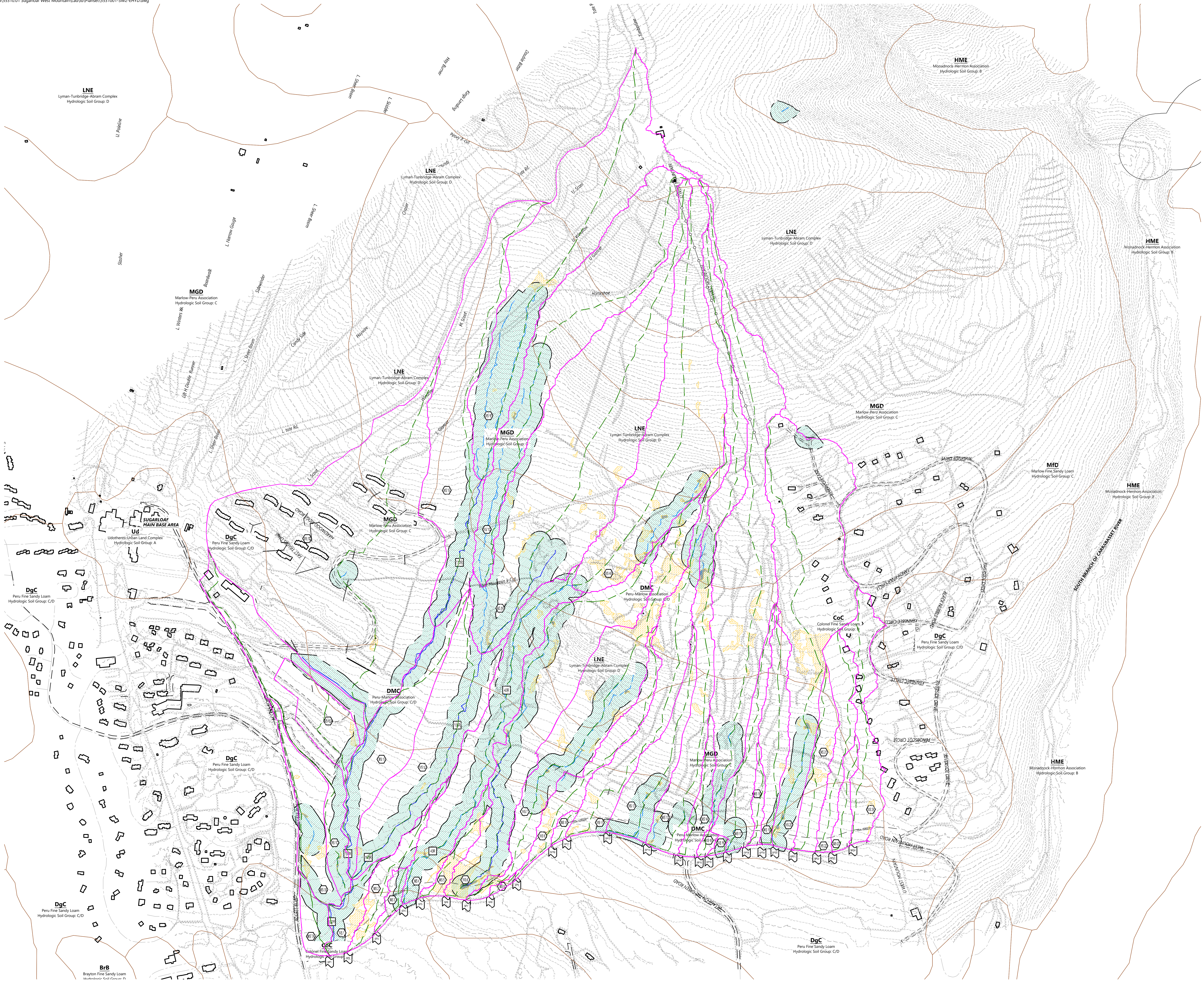
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Sheet # 58

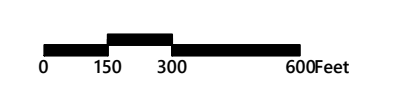
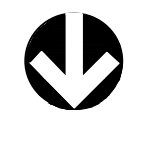
Project Number 55310.01

STATE OF MAINE  
PETER B. SMAR  
No. 18994  
LICENSED PROFESSIONAL ENGINEER



Legend

-  EXISTING SUBCATCHMENT
-  EXISTING WATERSHED
-  TIME OF CONCENTRATION FLOWPATH
-  50 FT CONTOUR
-  10 FT CONTOUR
-  PERENNIAL STREAM
-  INTERMITTENT STREAM
-  NRCS SOIL LAYER BOUNDARY
-  WETLAND



**Sugarloaf Mtn Corp  
West Mountain  
Expansion**

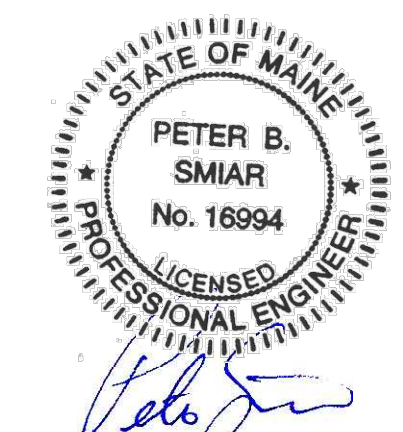
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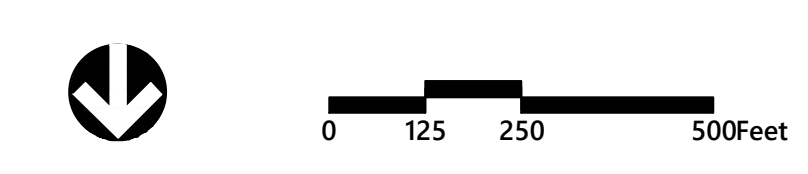
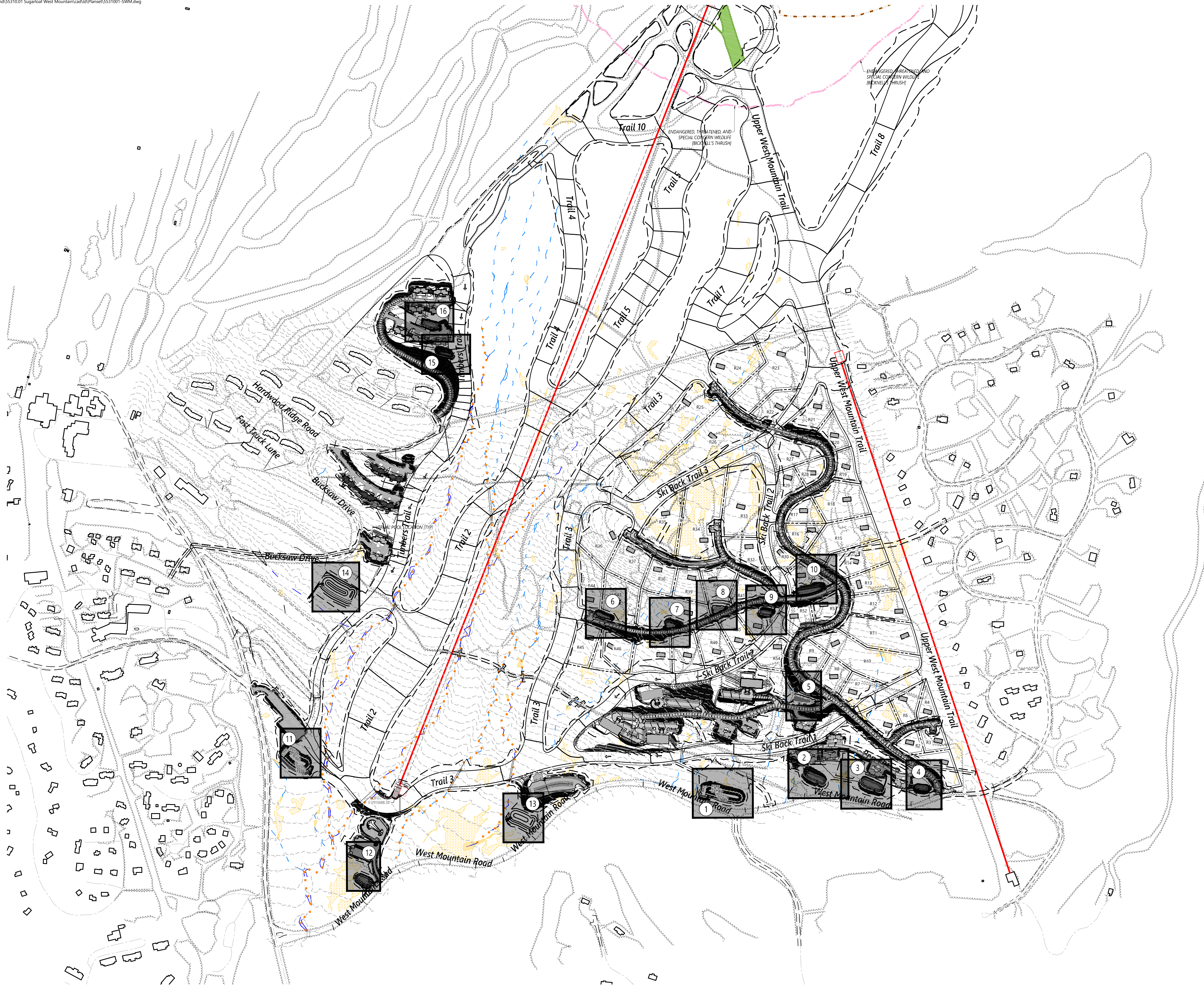
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**SW-2**  
Sheet # 58 of 58  
Project Number 55310.01



500 Southborough Drive  
Suite 105B  
South Portland, ME 04106  
207.889.3150



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West Mountain  
Expansion**  
5092 Access Road  
Carrabassett Valley, ME 04947

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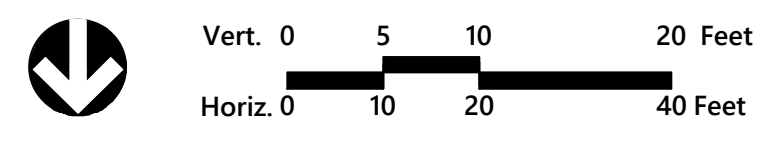
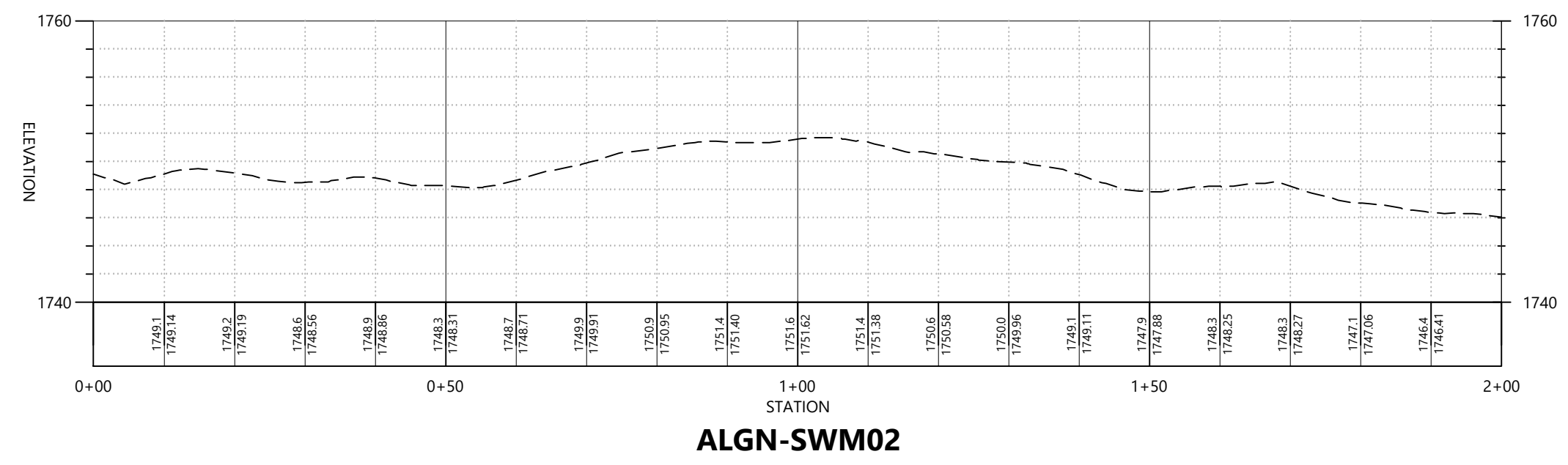
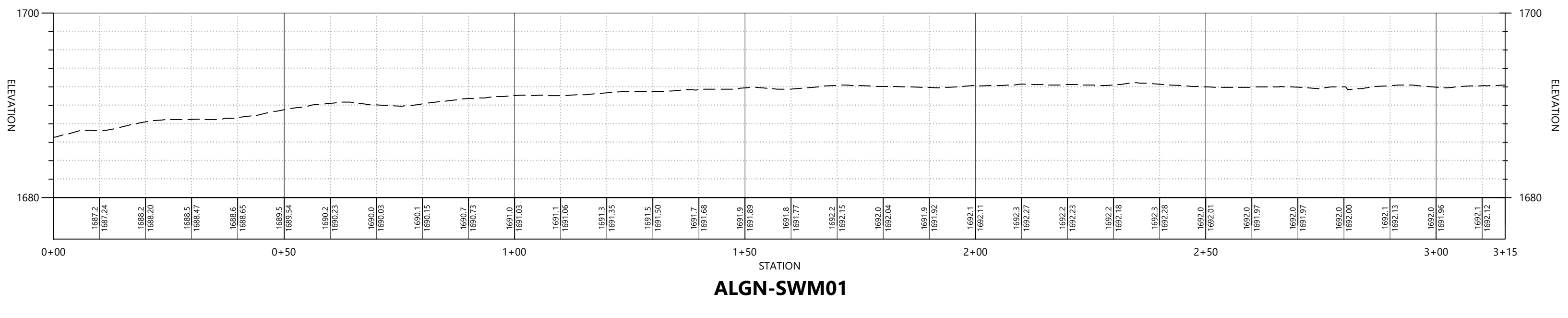
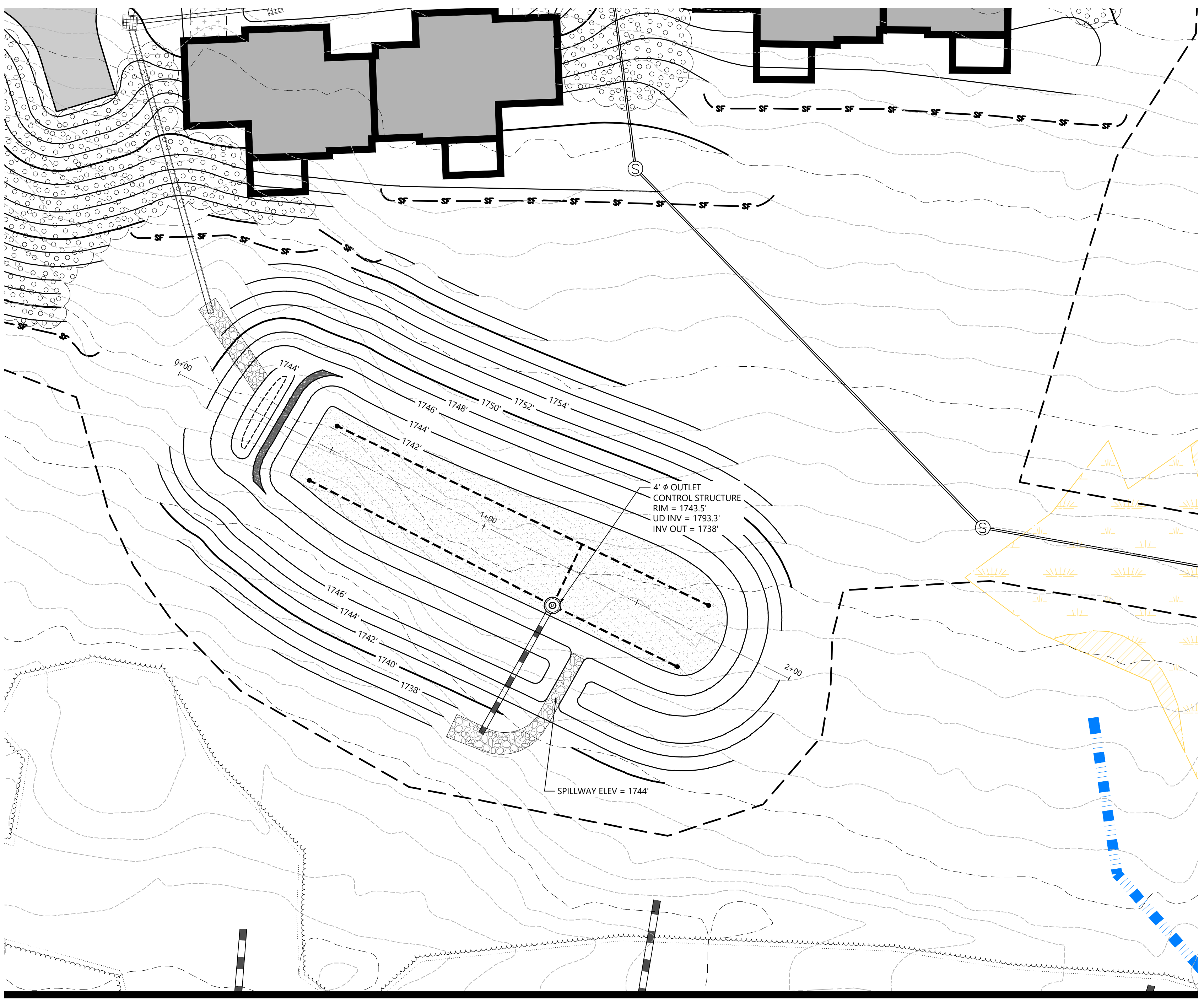
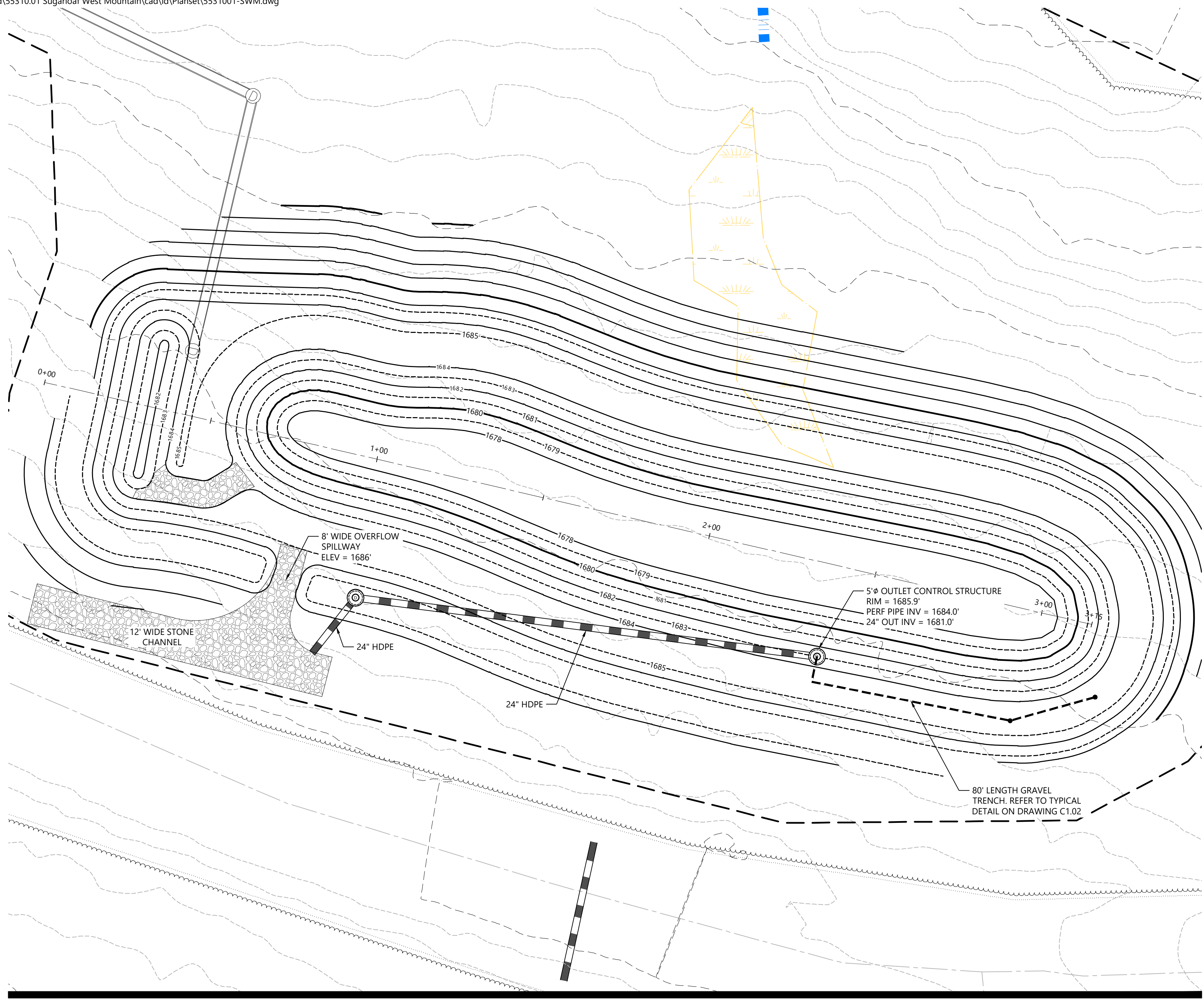
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Drawing Number

**CG-3.00**

Sheet **58** of **58**

Project Number: 55310.01



**Sugarloaf Mtn Corp  
West Mountain  
Expansion**  
5092 Access Road  
Carrabassett Valley, ME 04947

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**Review** September 23, 2021

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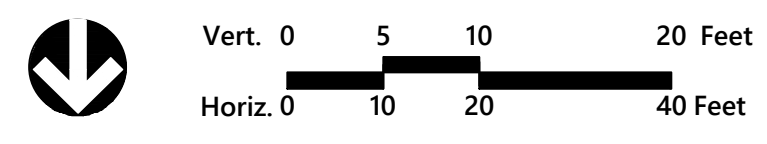
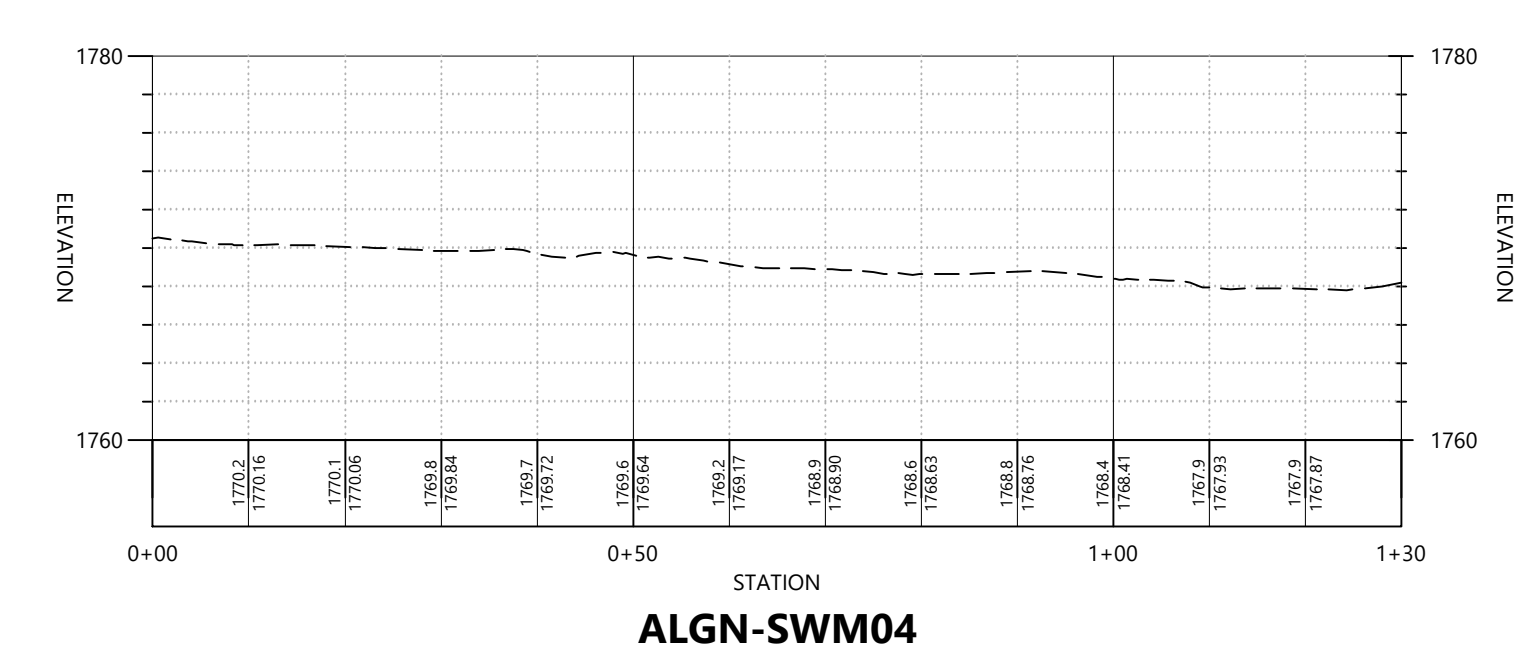
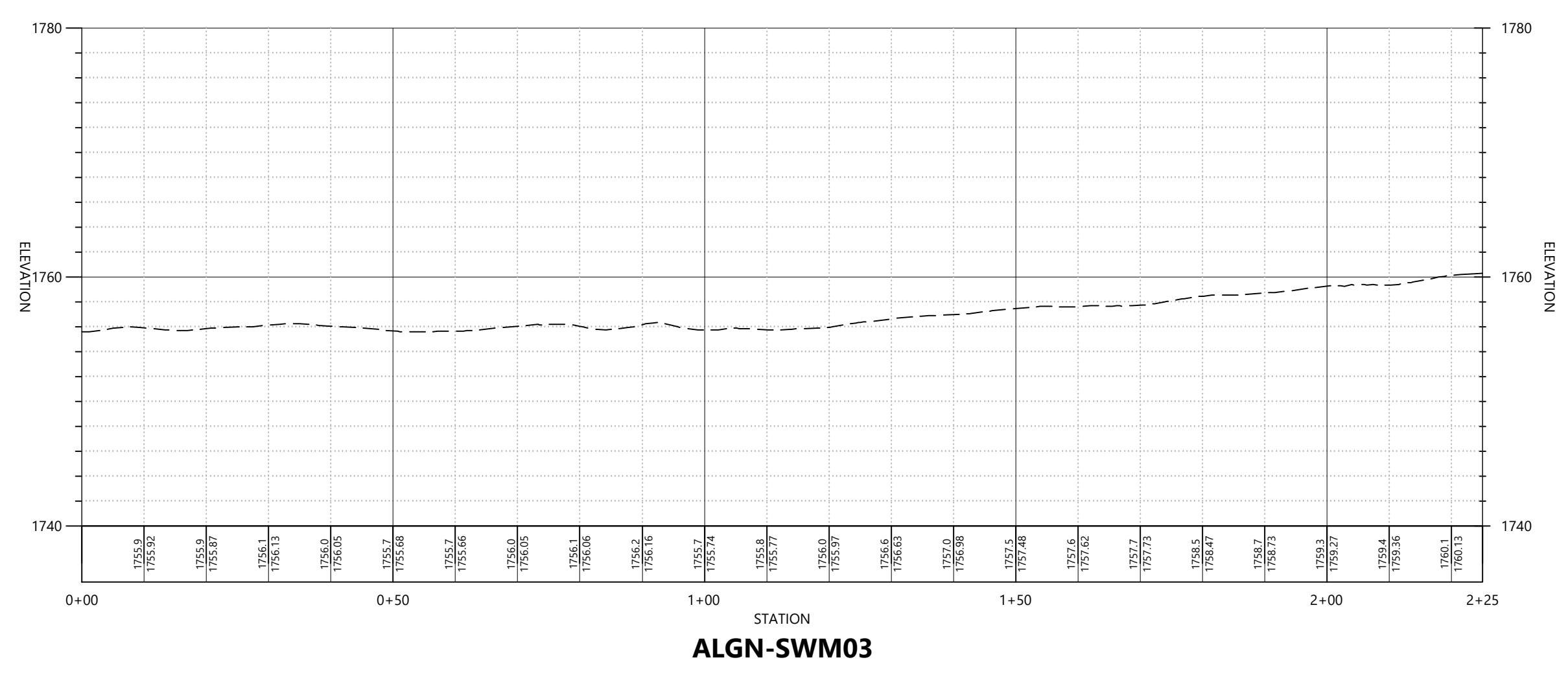
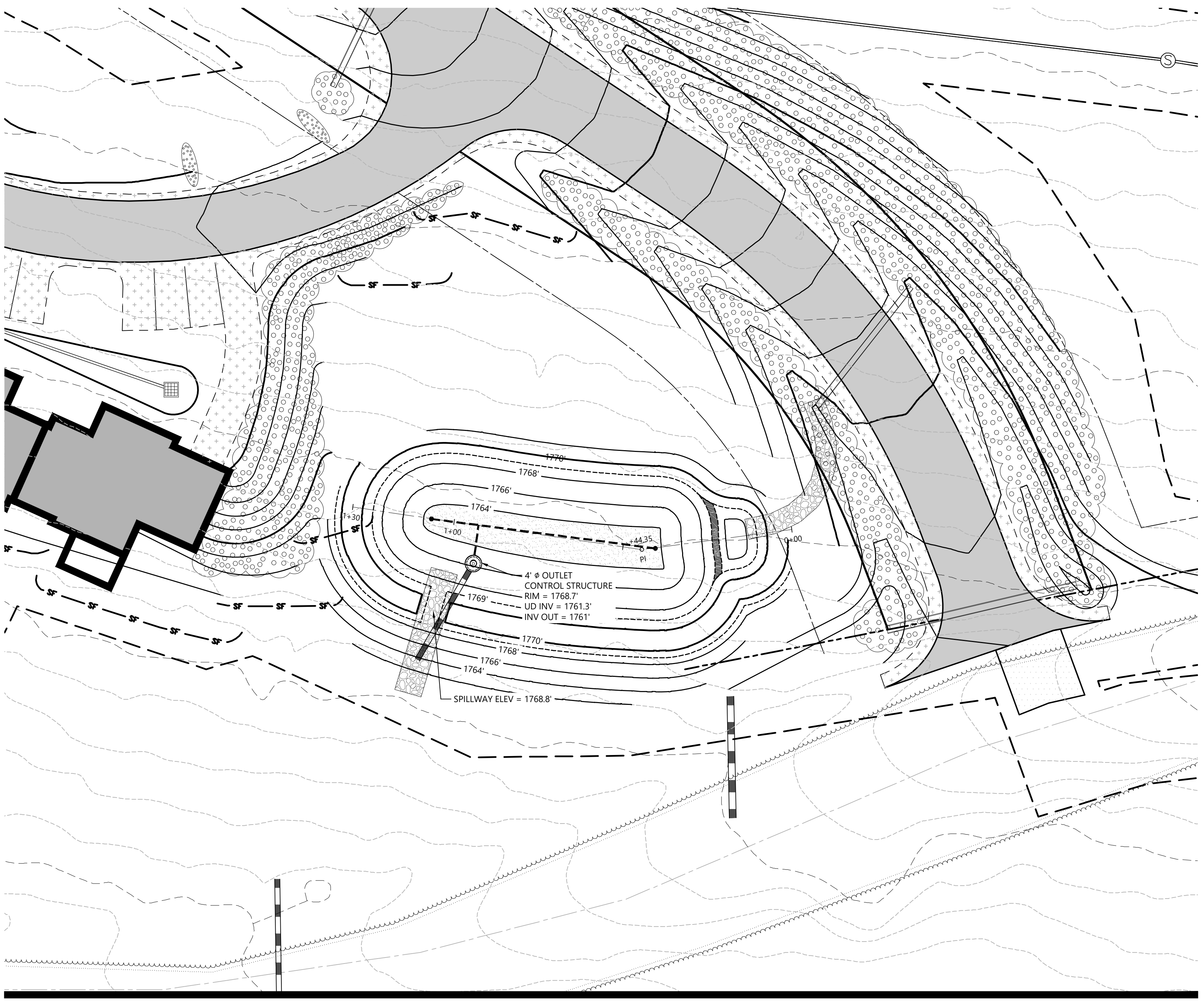
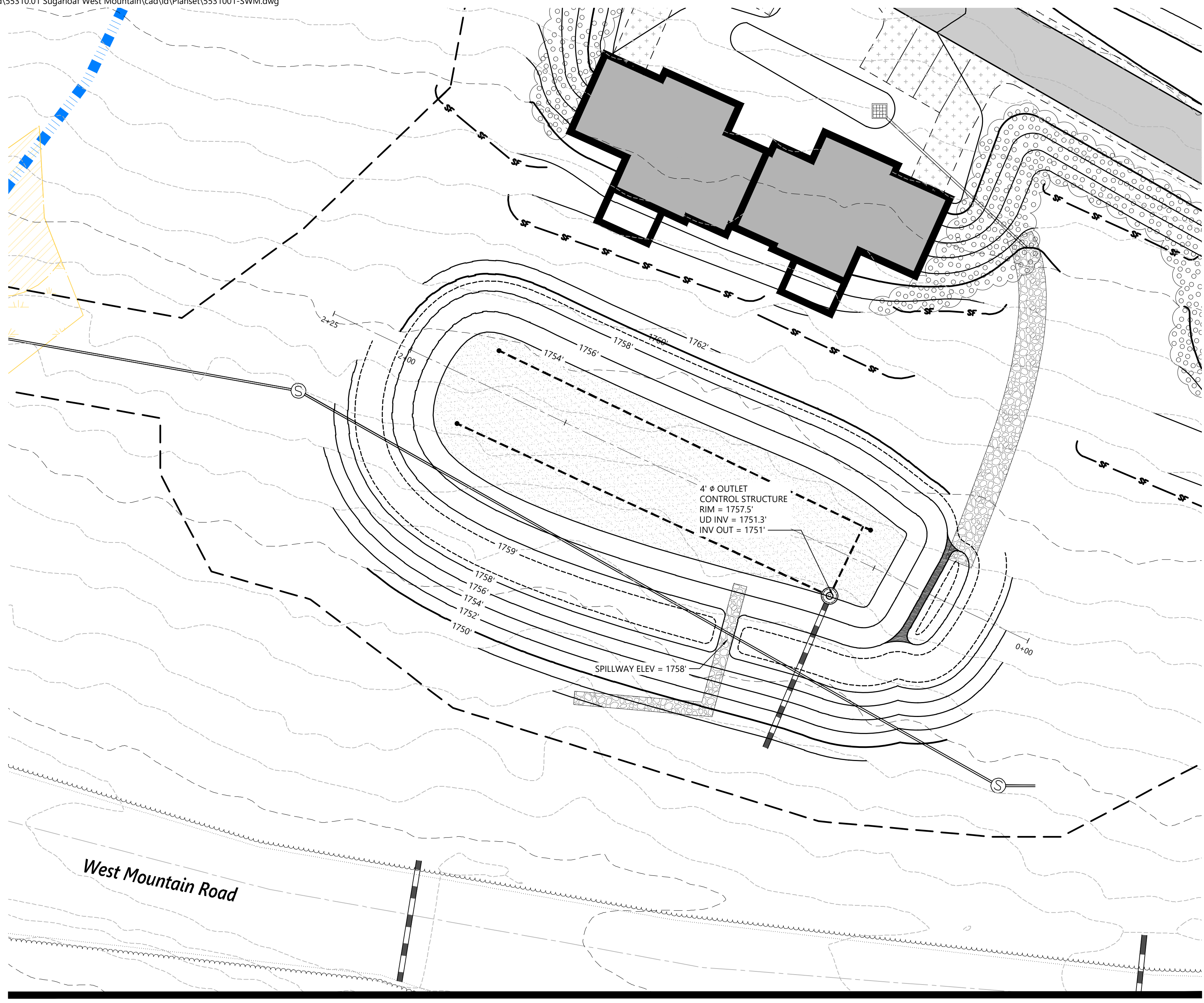
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Sheet \_\_\_\_\_ of \_\_\_\_\_  
58

Project Number  
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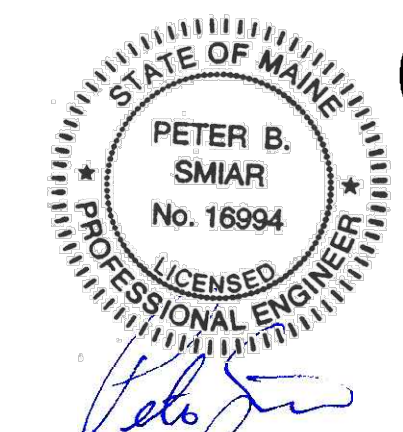
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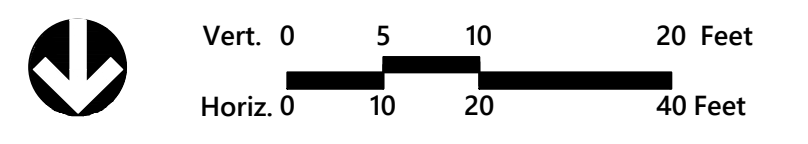
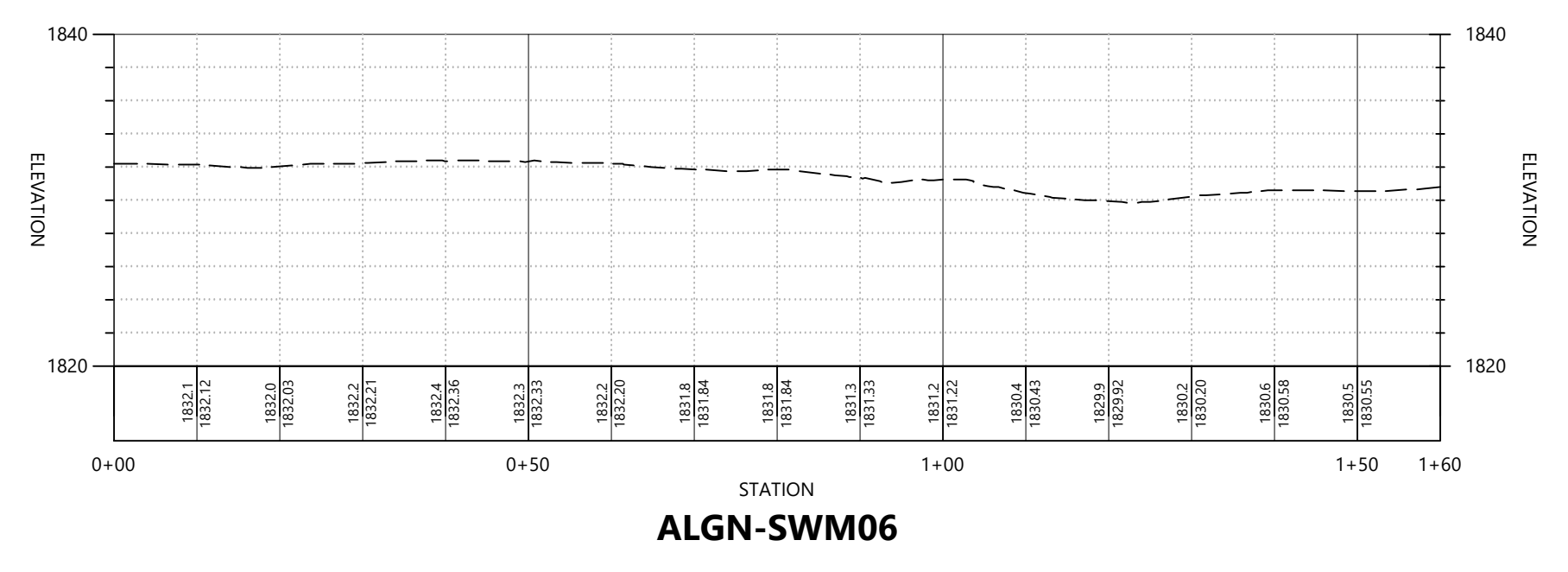
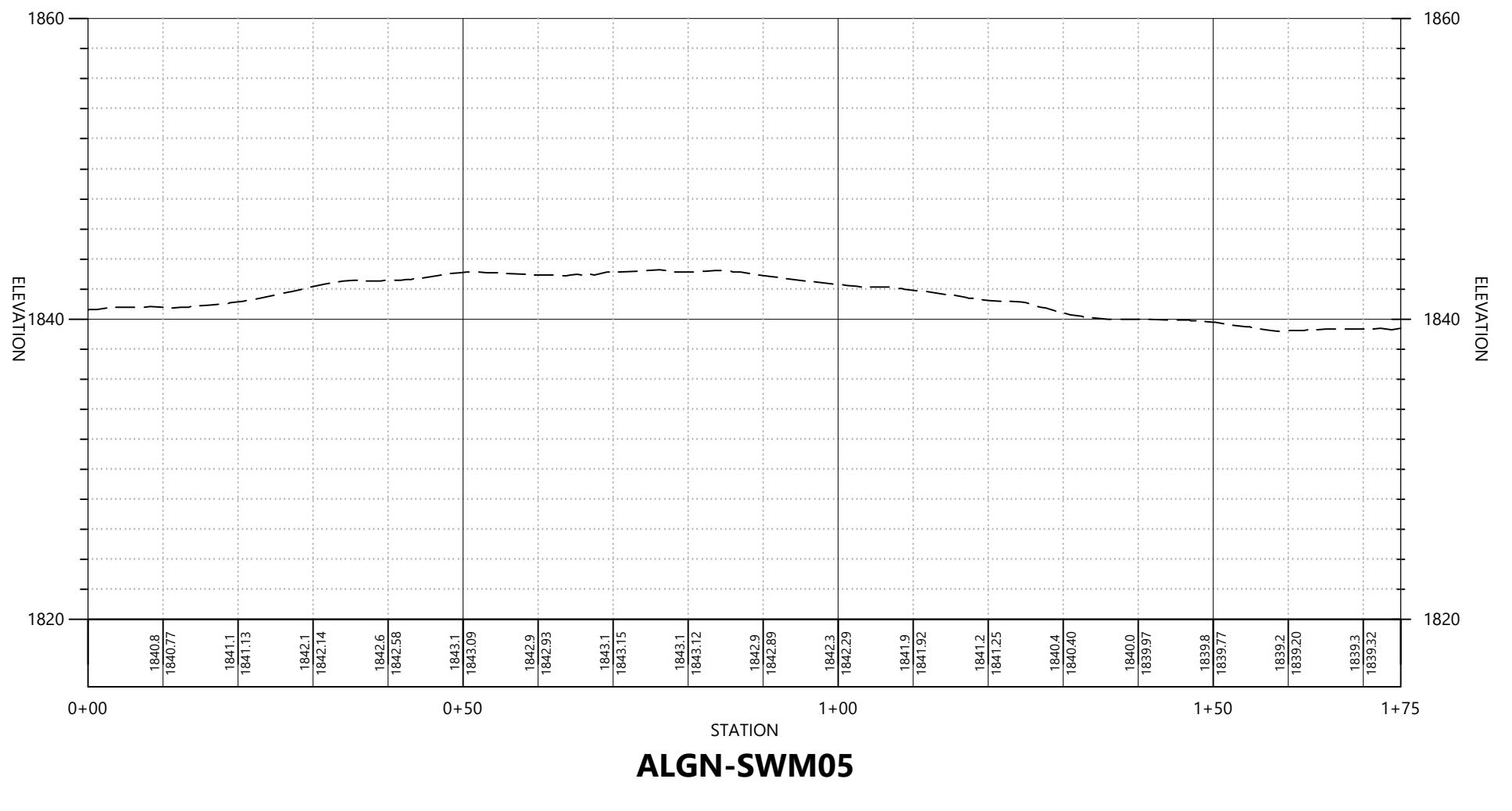
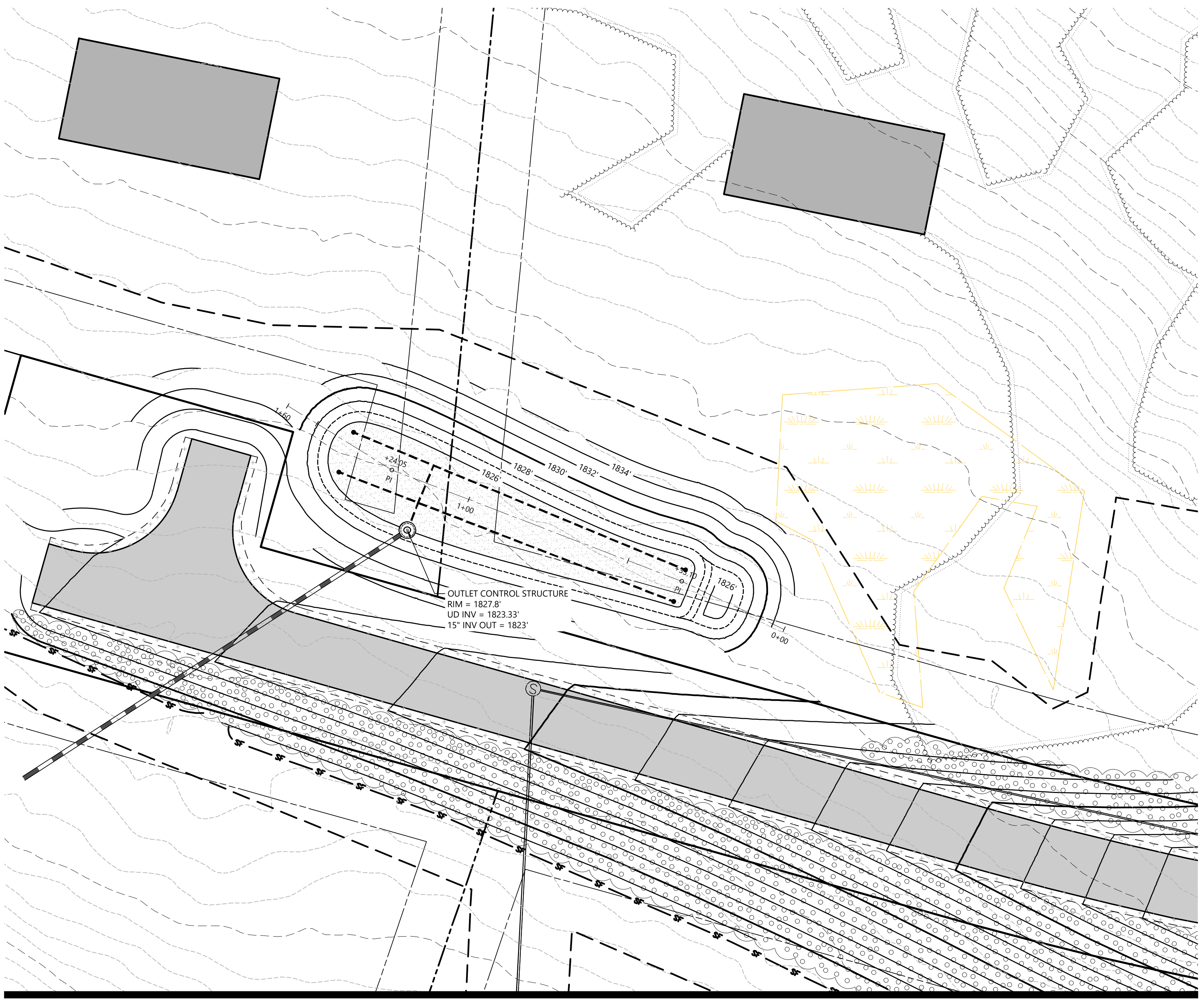
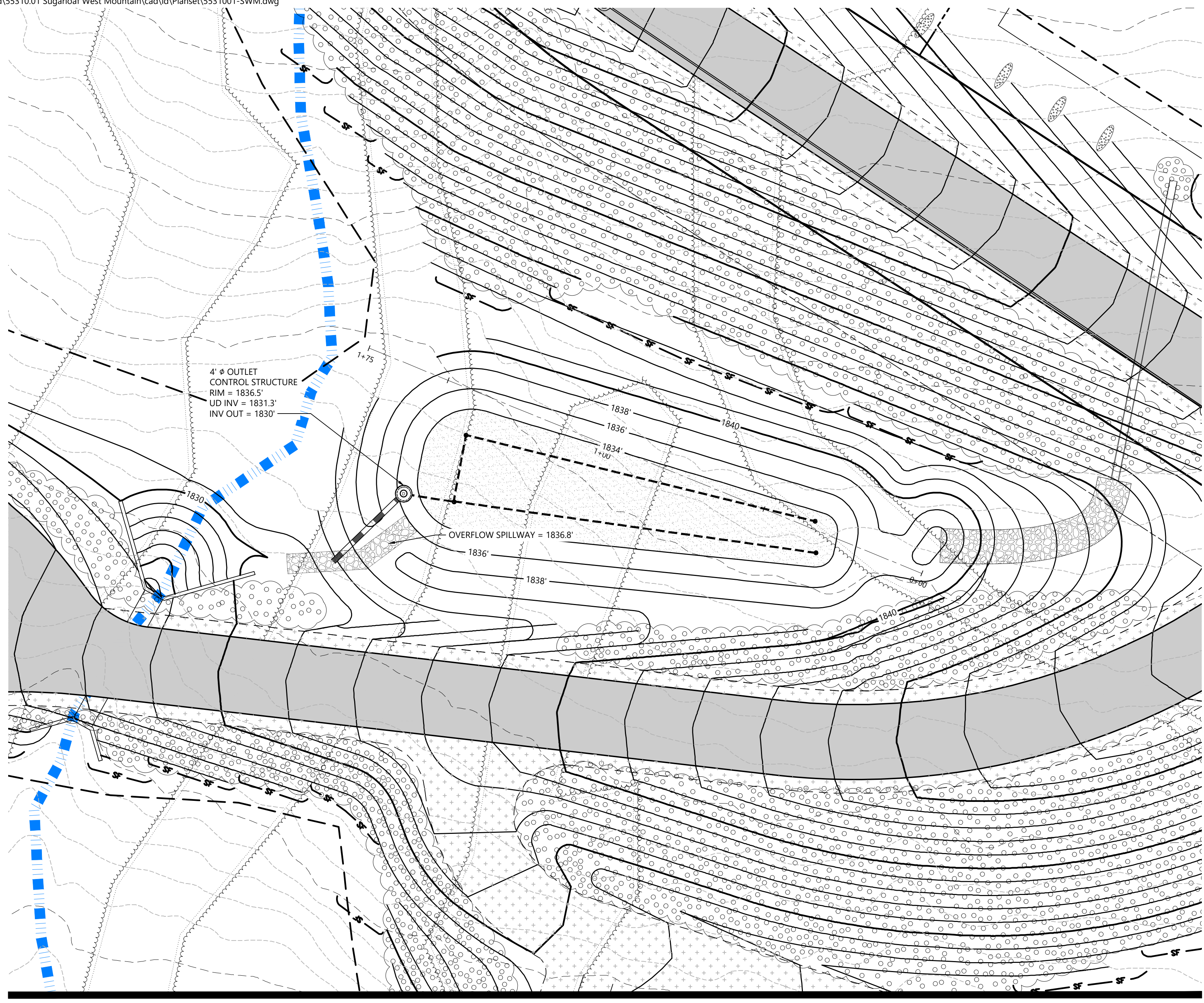
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Project Number  
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West Mountain  
Expansion**  
5092 Access Road  
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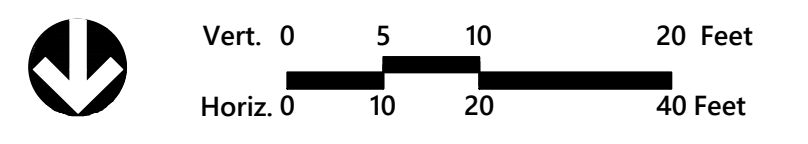
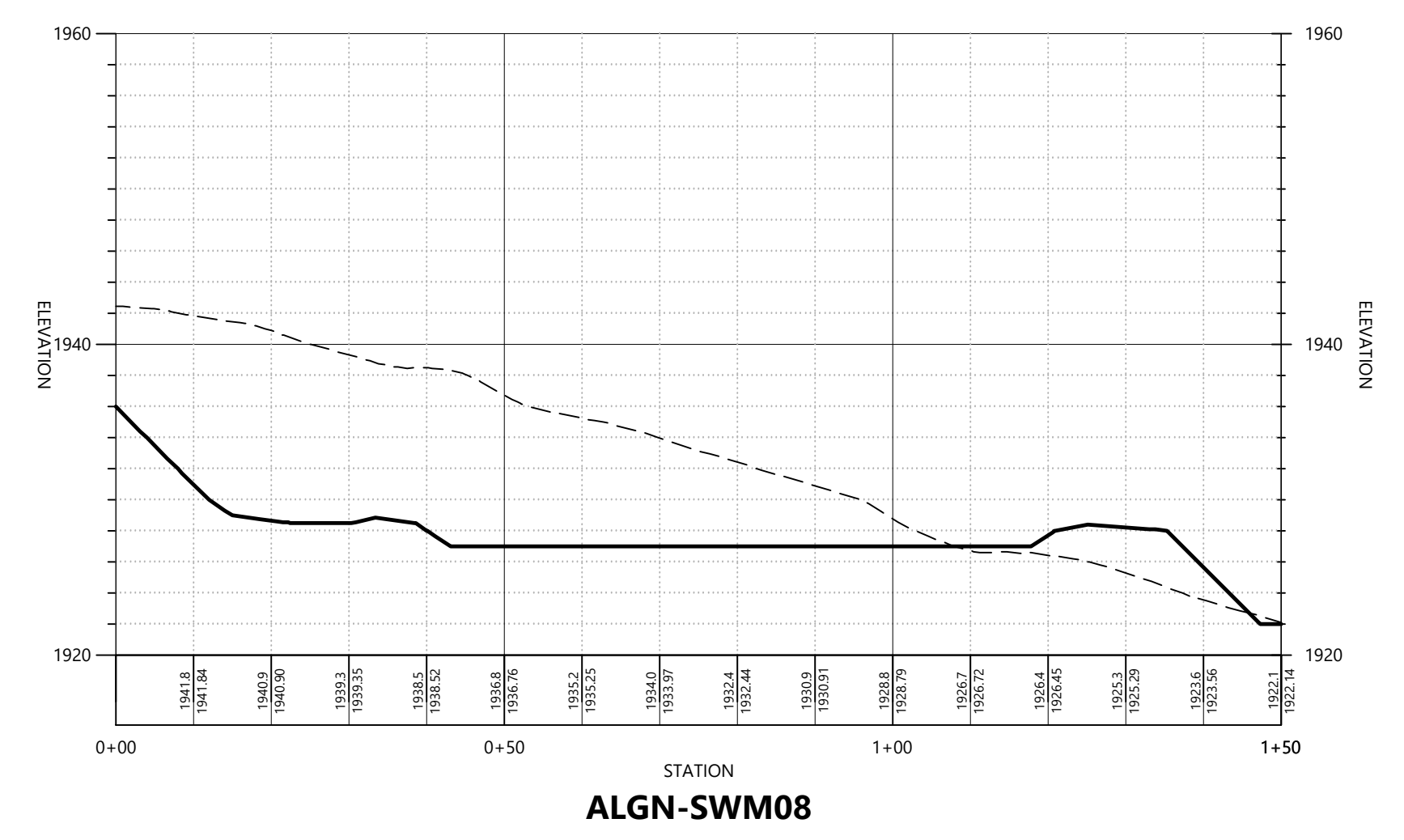
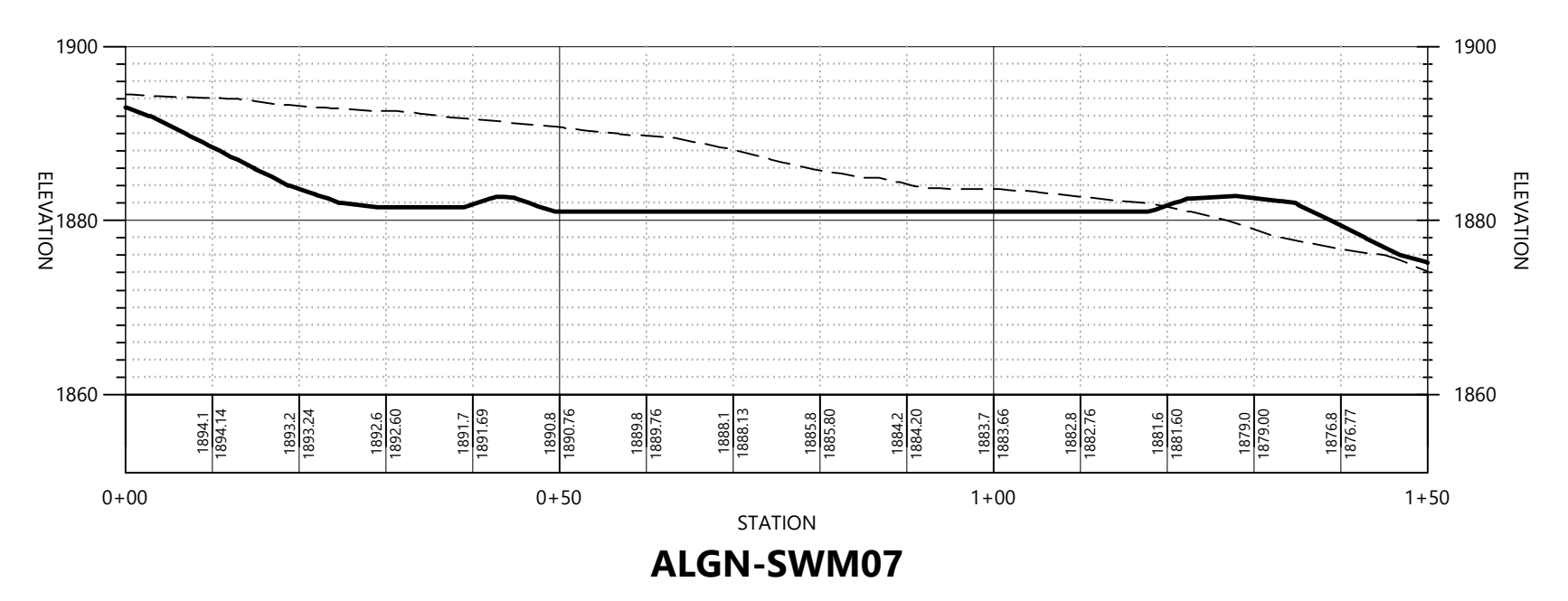
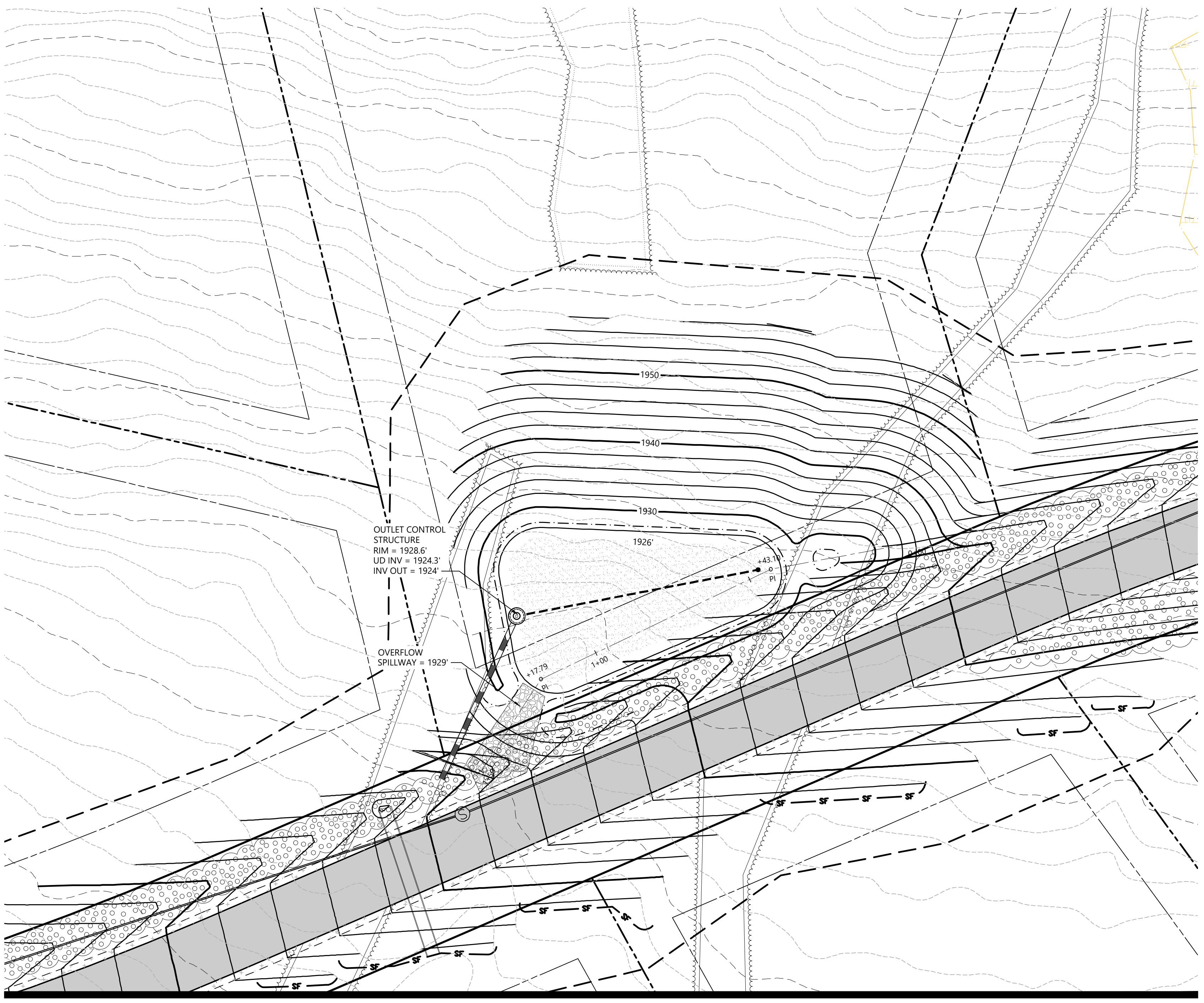
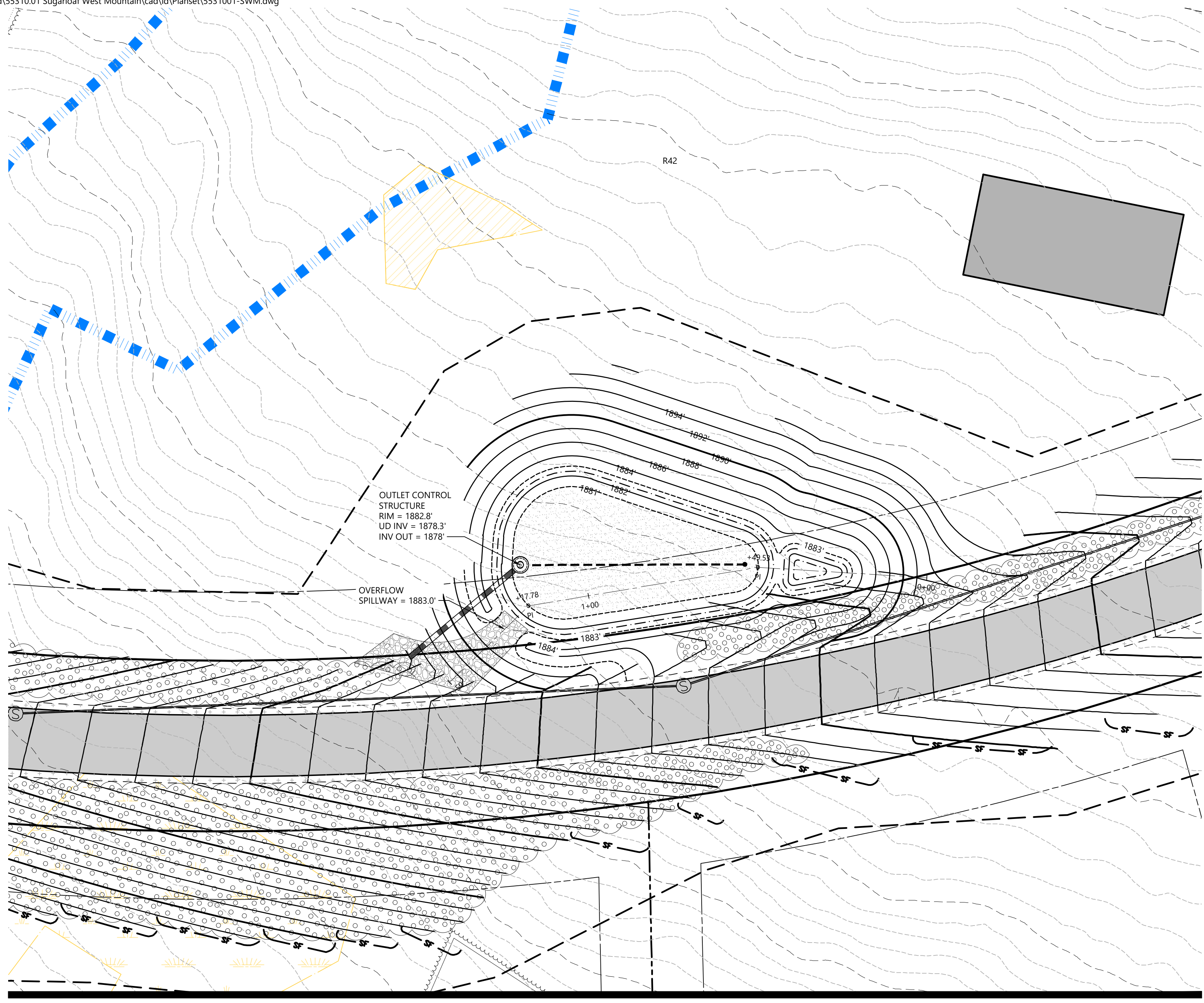
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Profile**

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55310.01

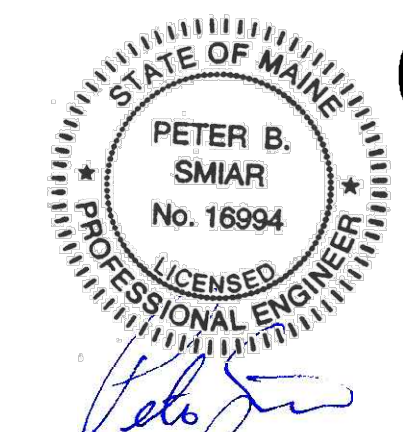


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West Mountain  
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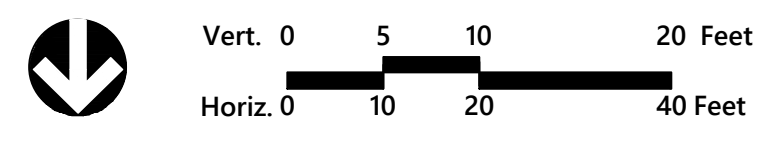
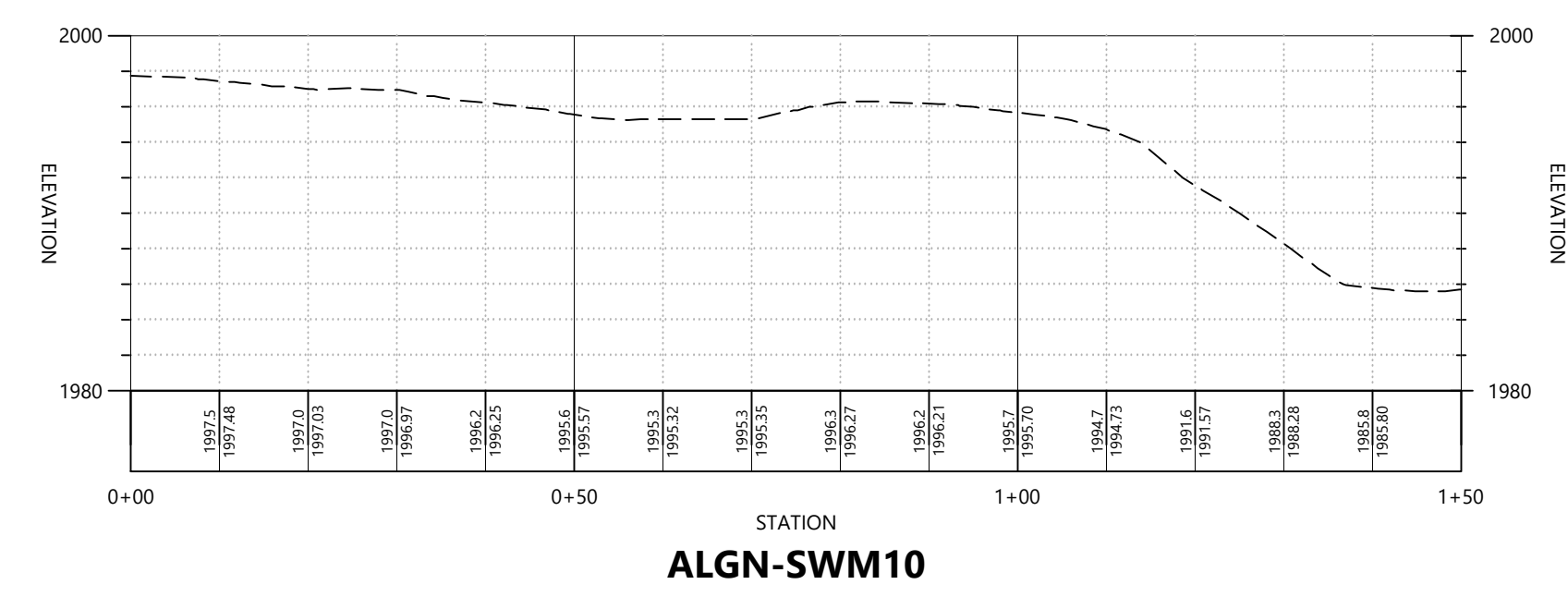
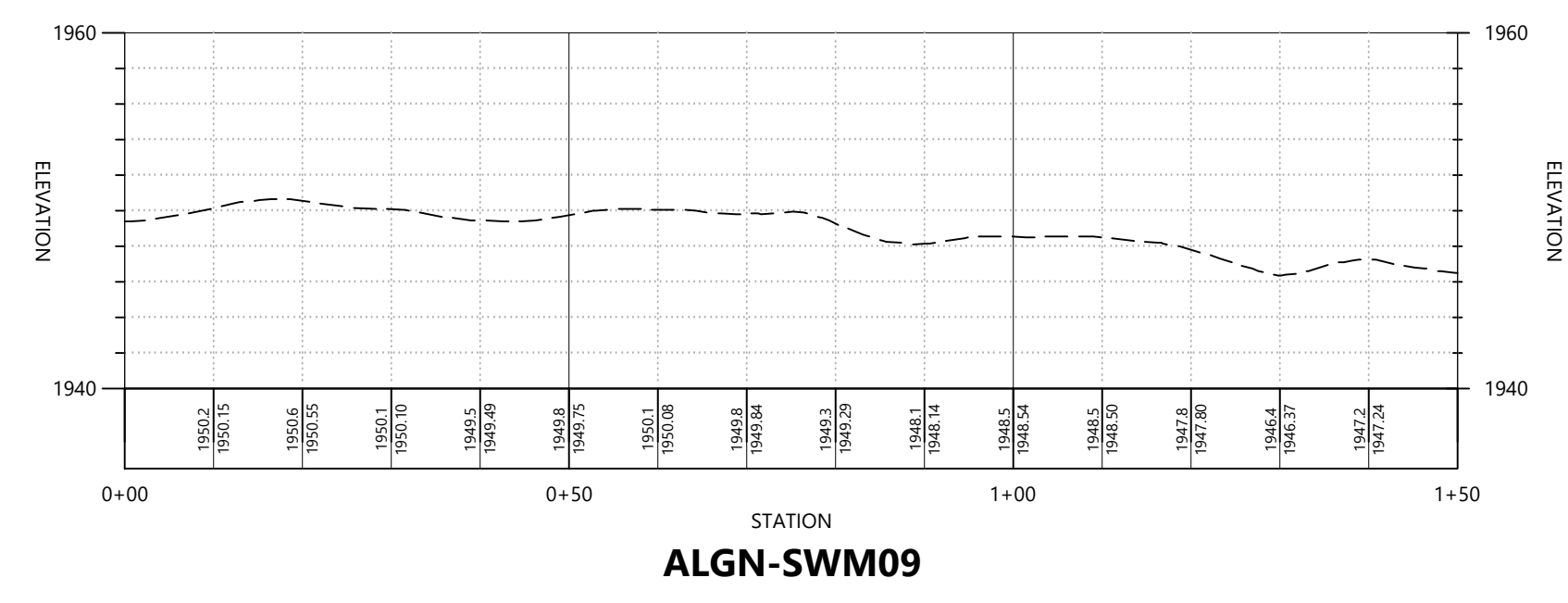
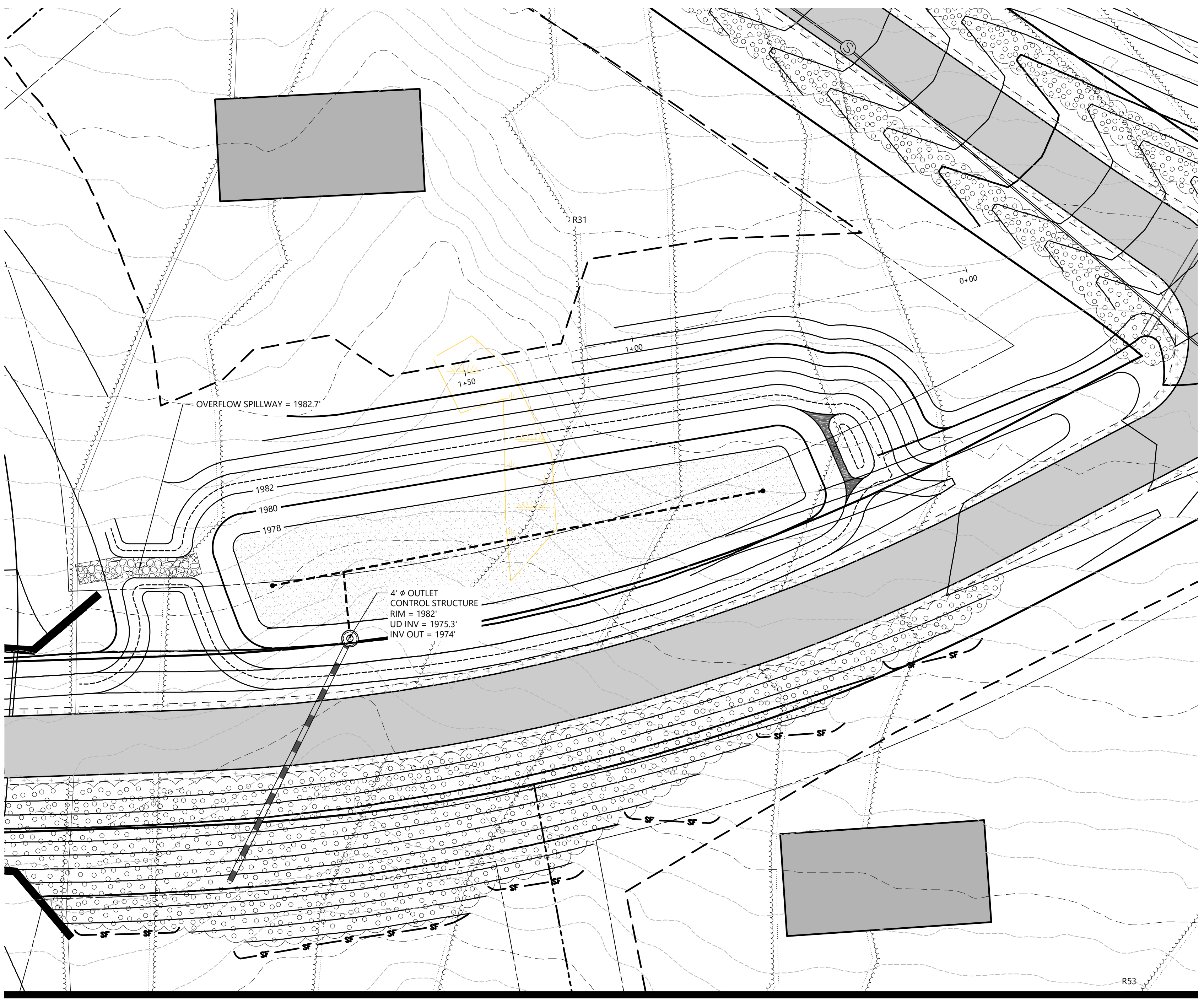
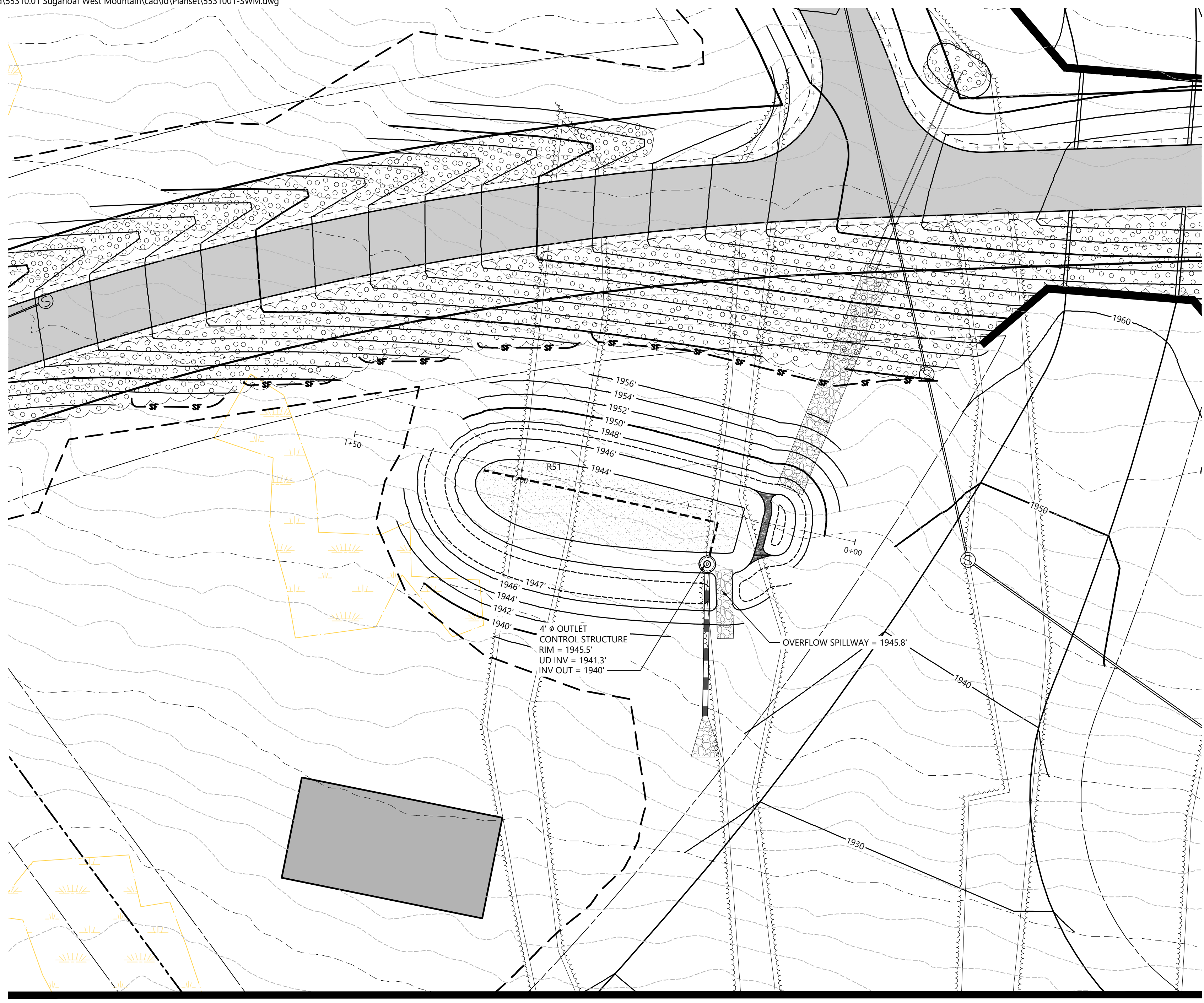
No.	Revision	Date	App'd.

Designed by: ERK      Checked by: PS  
 Issued for:      Date:      Review:      September 23, 2021

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 Drawing Title: **Stormwater Facility Plan and Profile**



**CG-3.04**  
 Sheet of 58  
 Project Number: 55310.01



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West Mountain  
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5092 Access Road  
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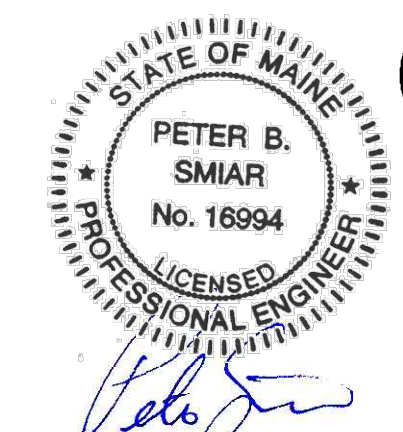
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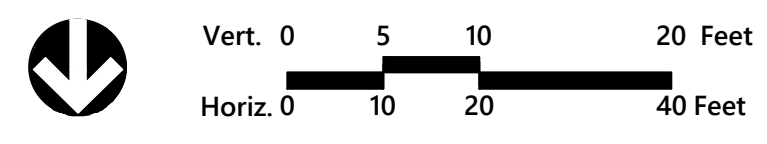
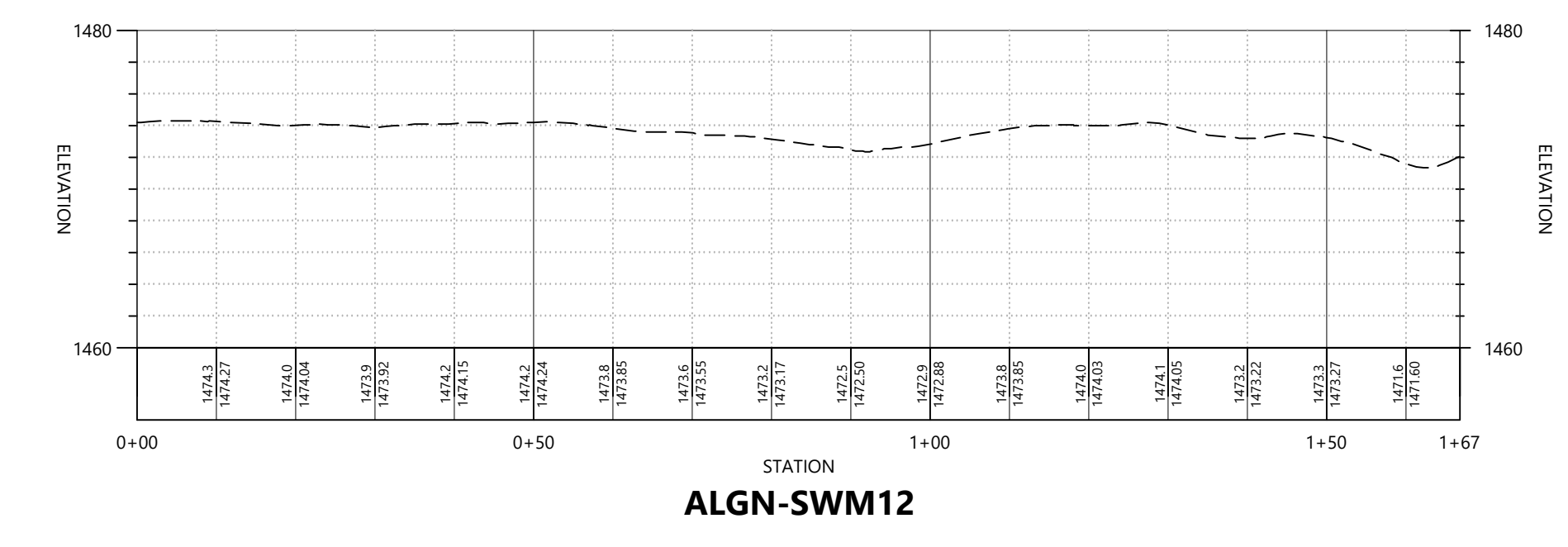
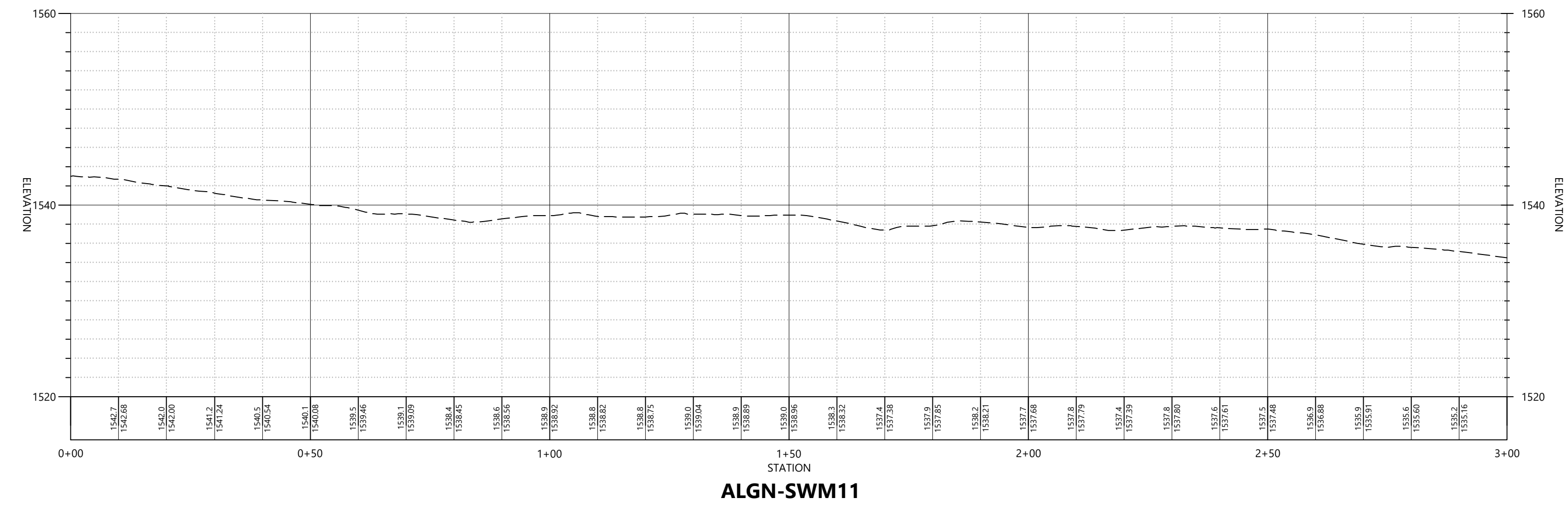
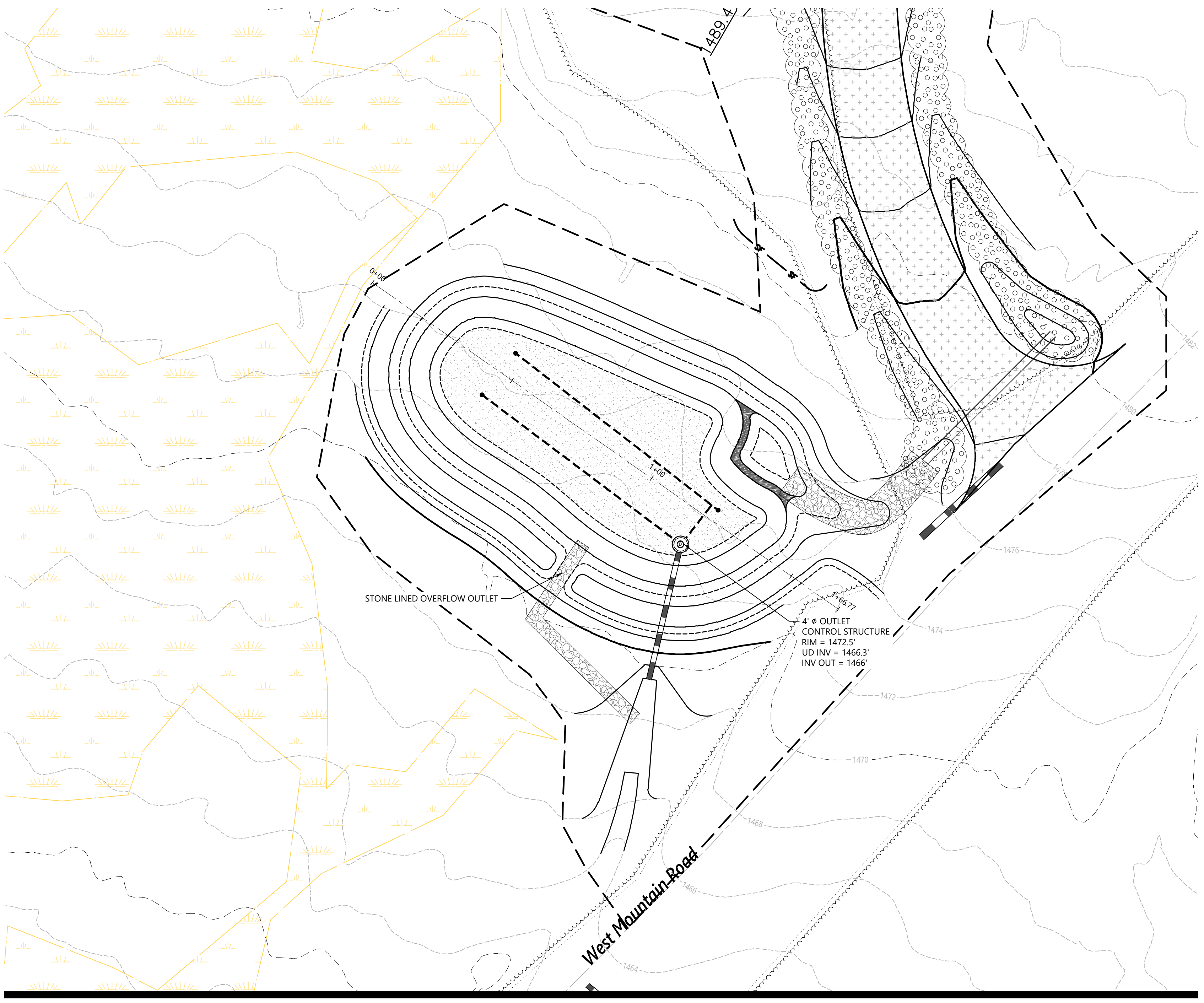
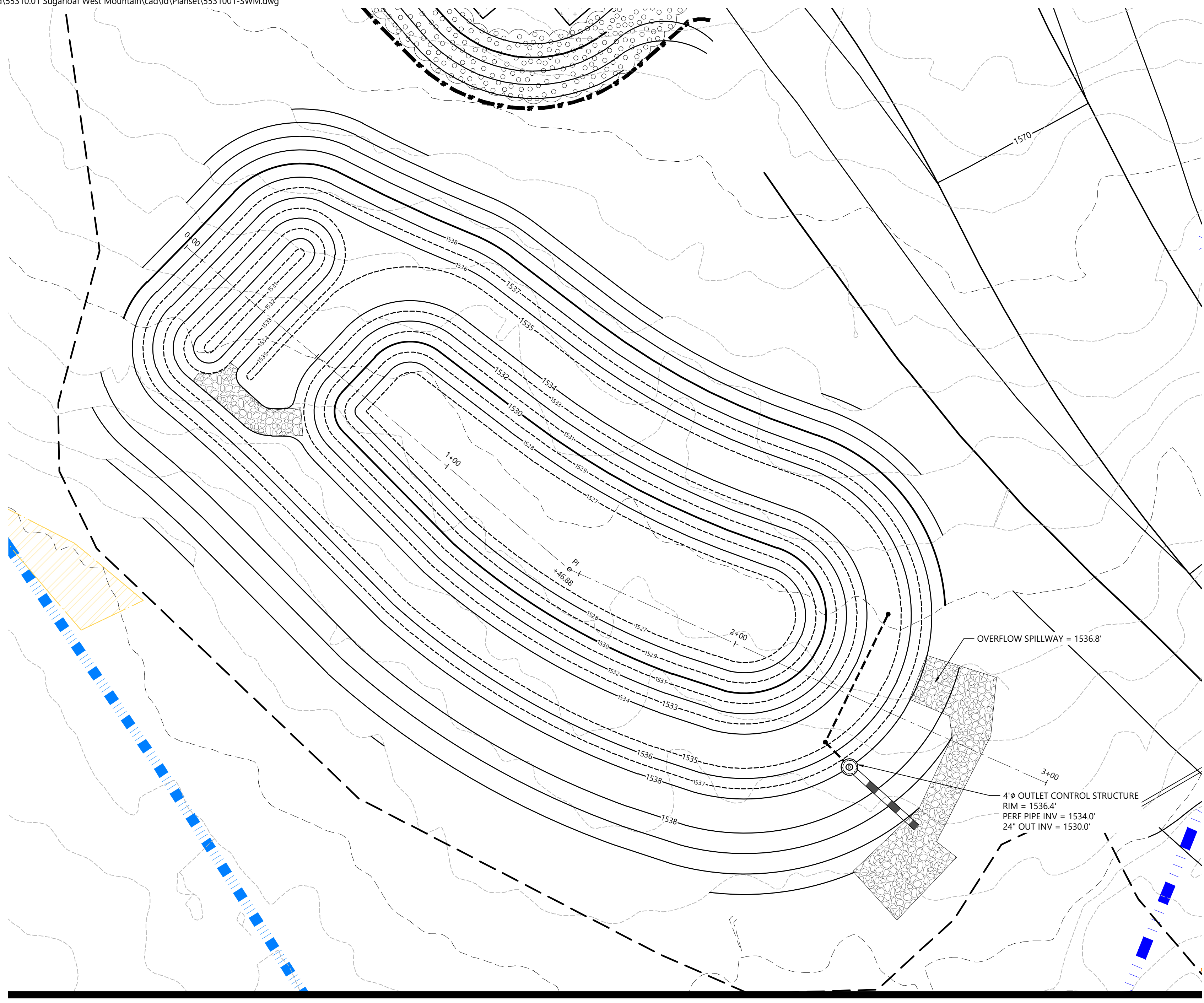
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Drawing Number: **CG-3.05**

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Project Number: 55310.01



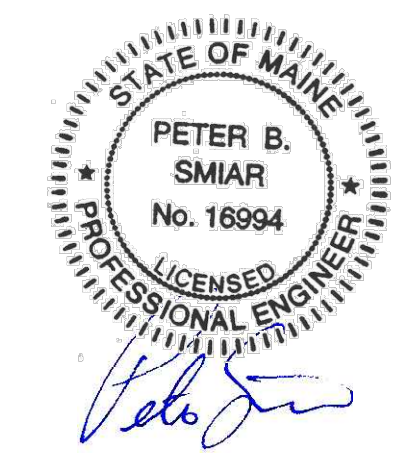


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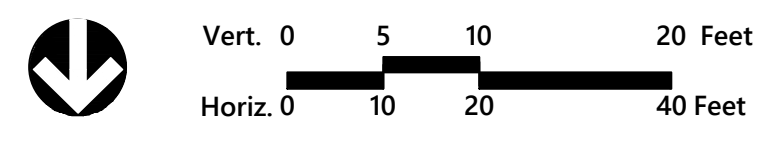
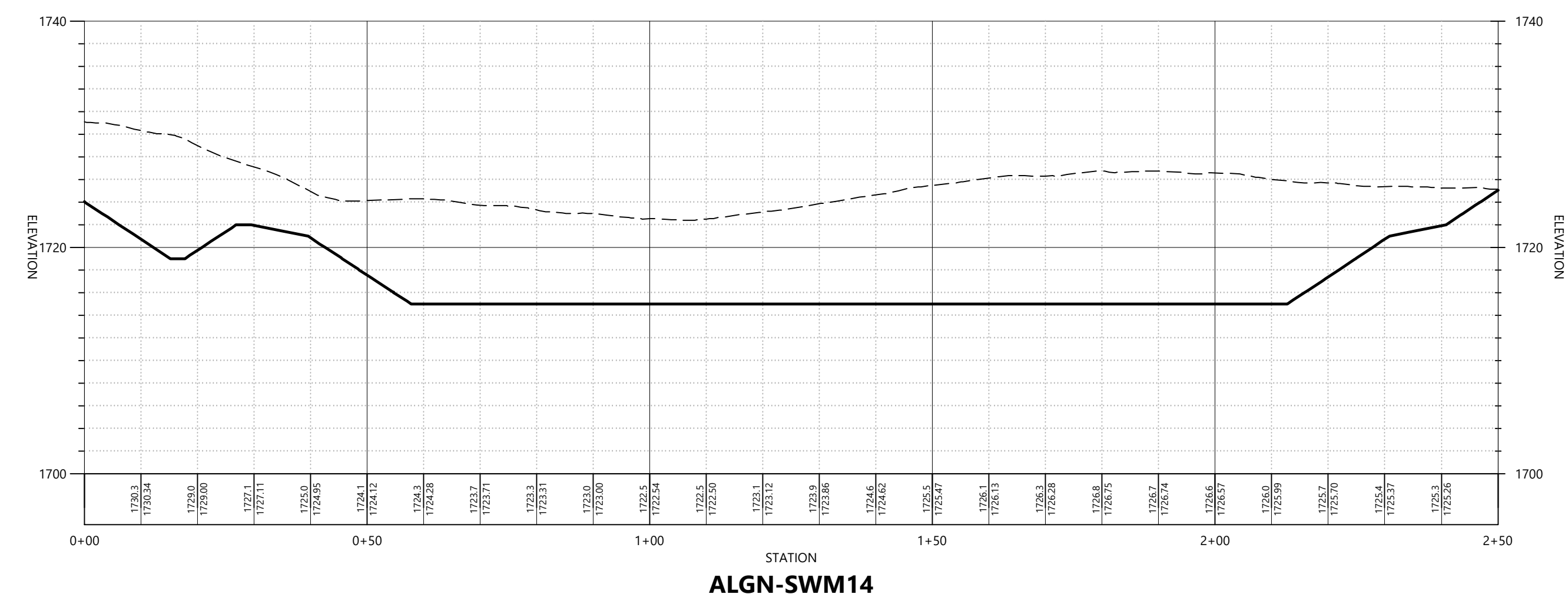
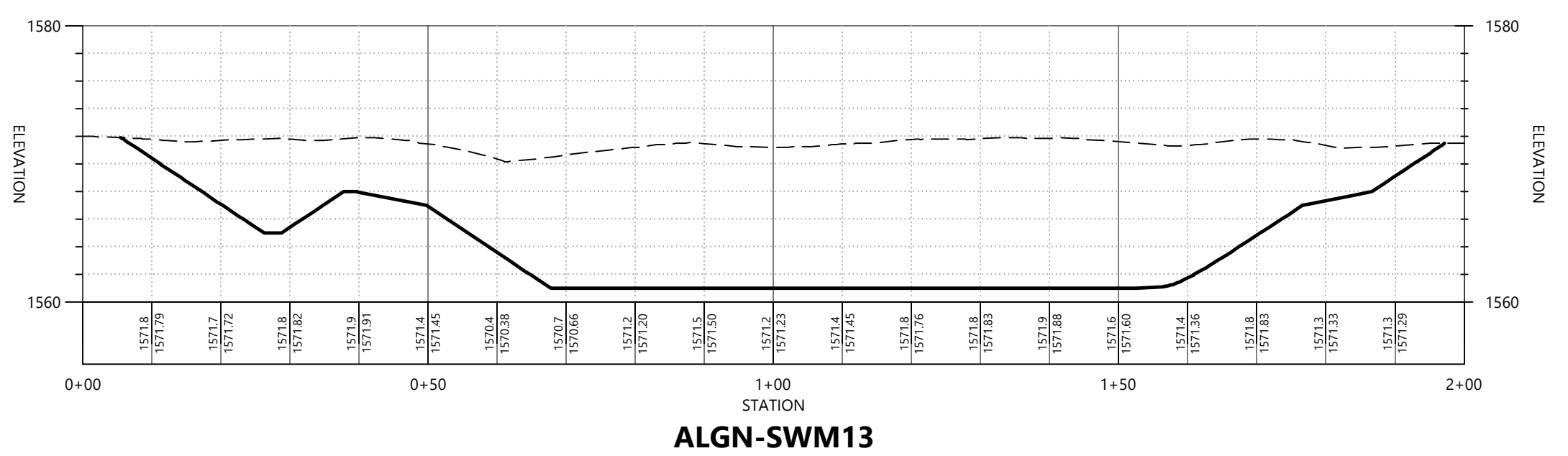
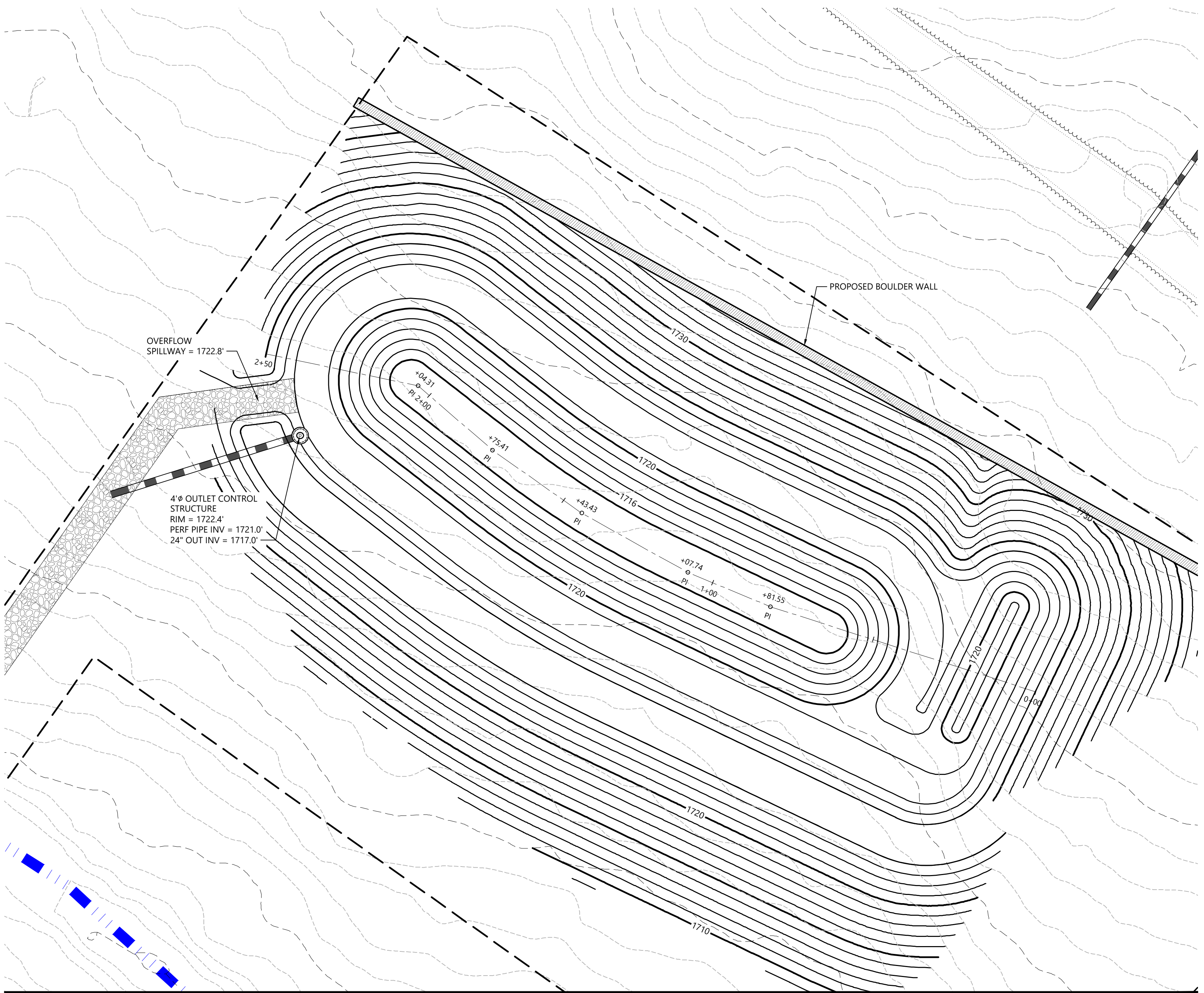
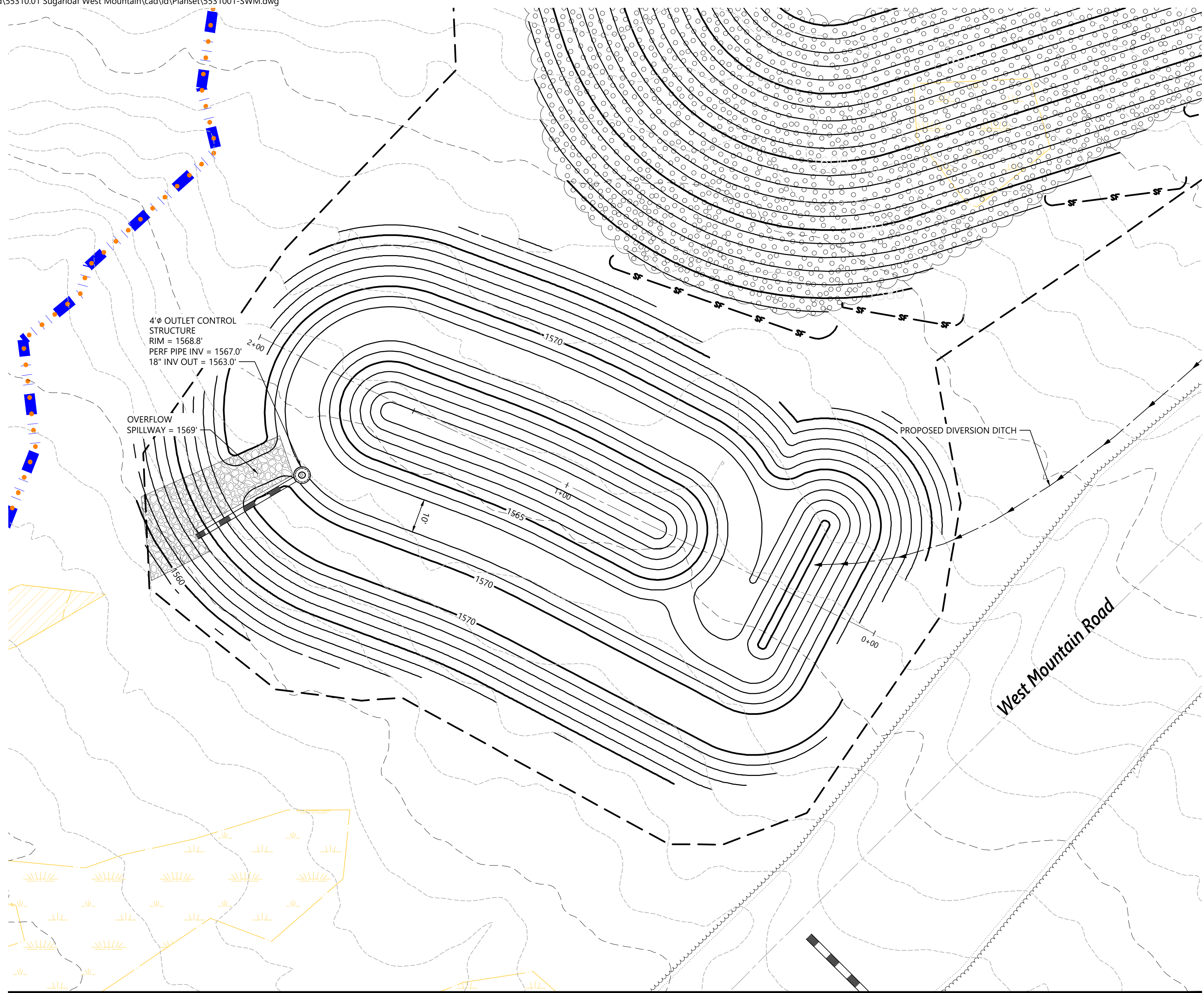
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**Review** September 23, 2021

**Not For Construction**  
Drawing Title: **Stormwater Facility Plan and Profile**



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Project Number: **55310.01**



**Sugarloaf Mtn Corp  
West Mountain  
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5092 Access Road  
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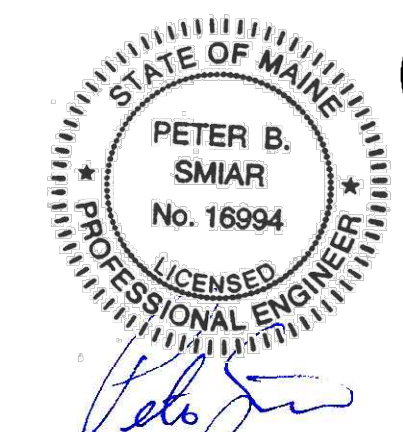
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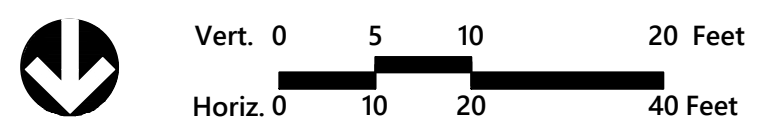
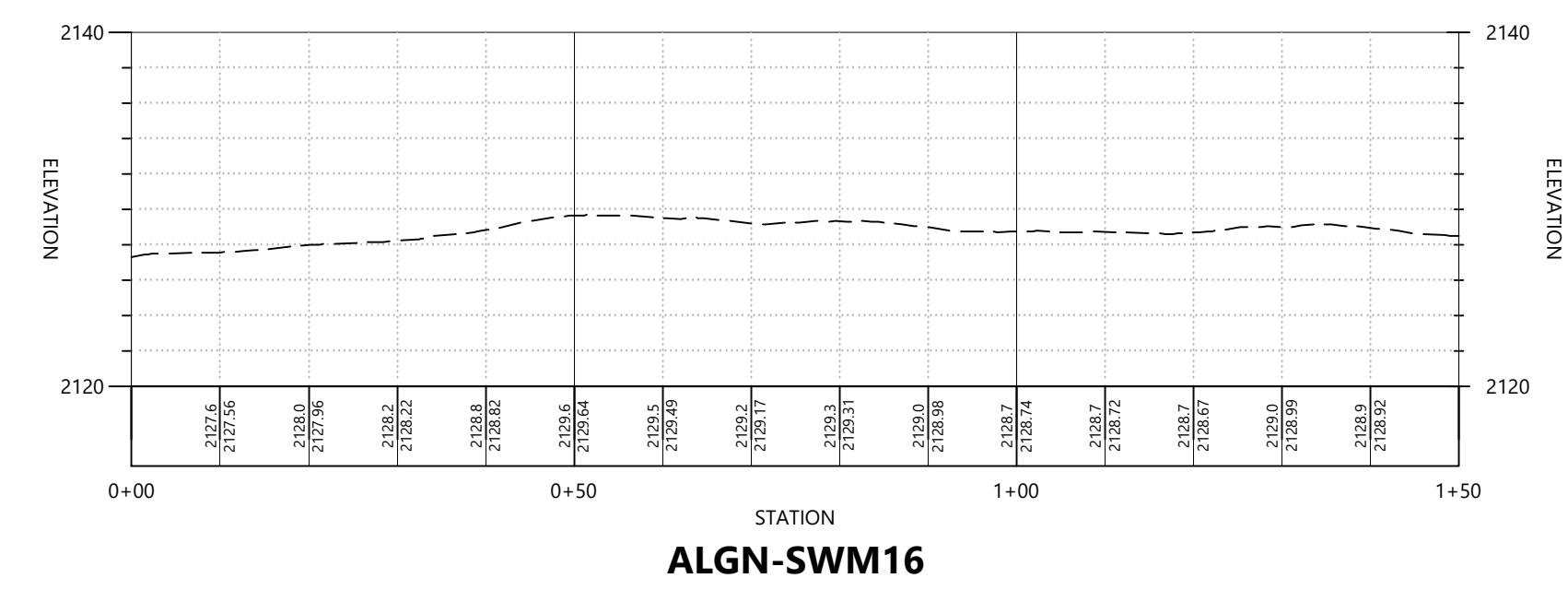
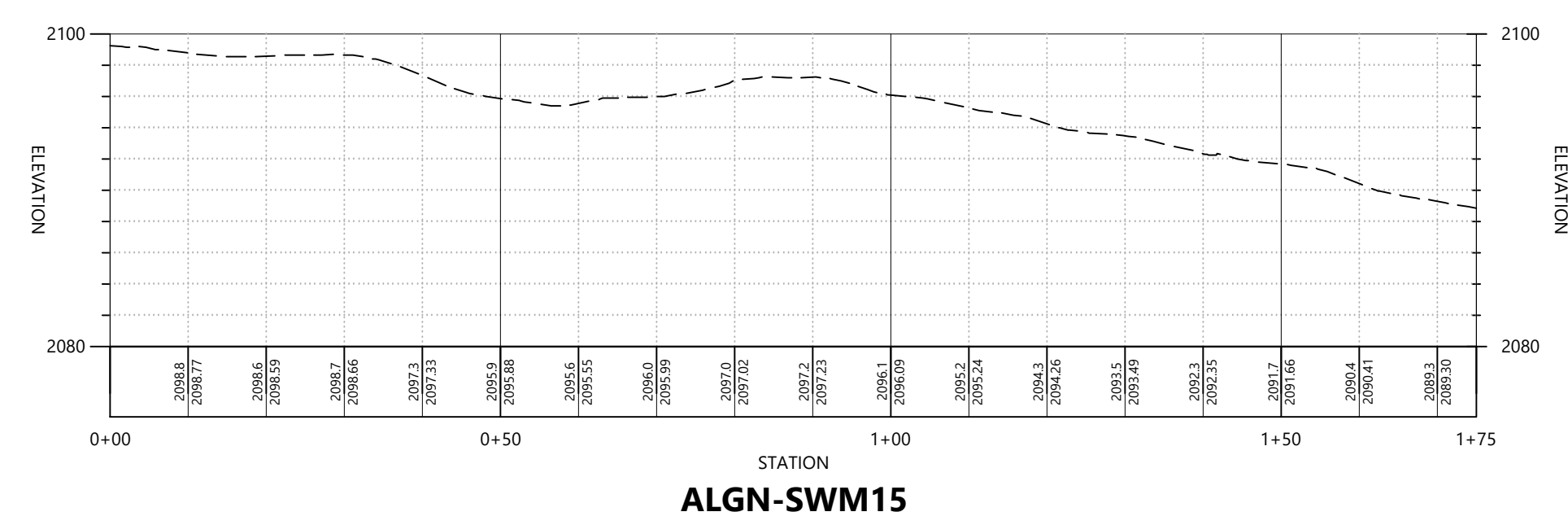
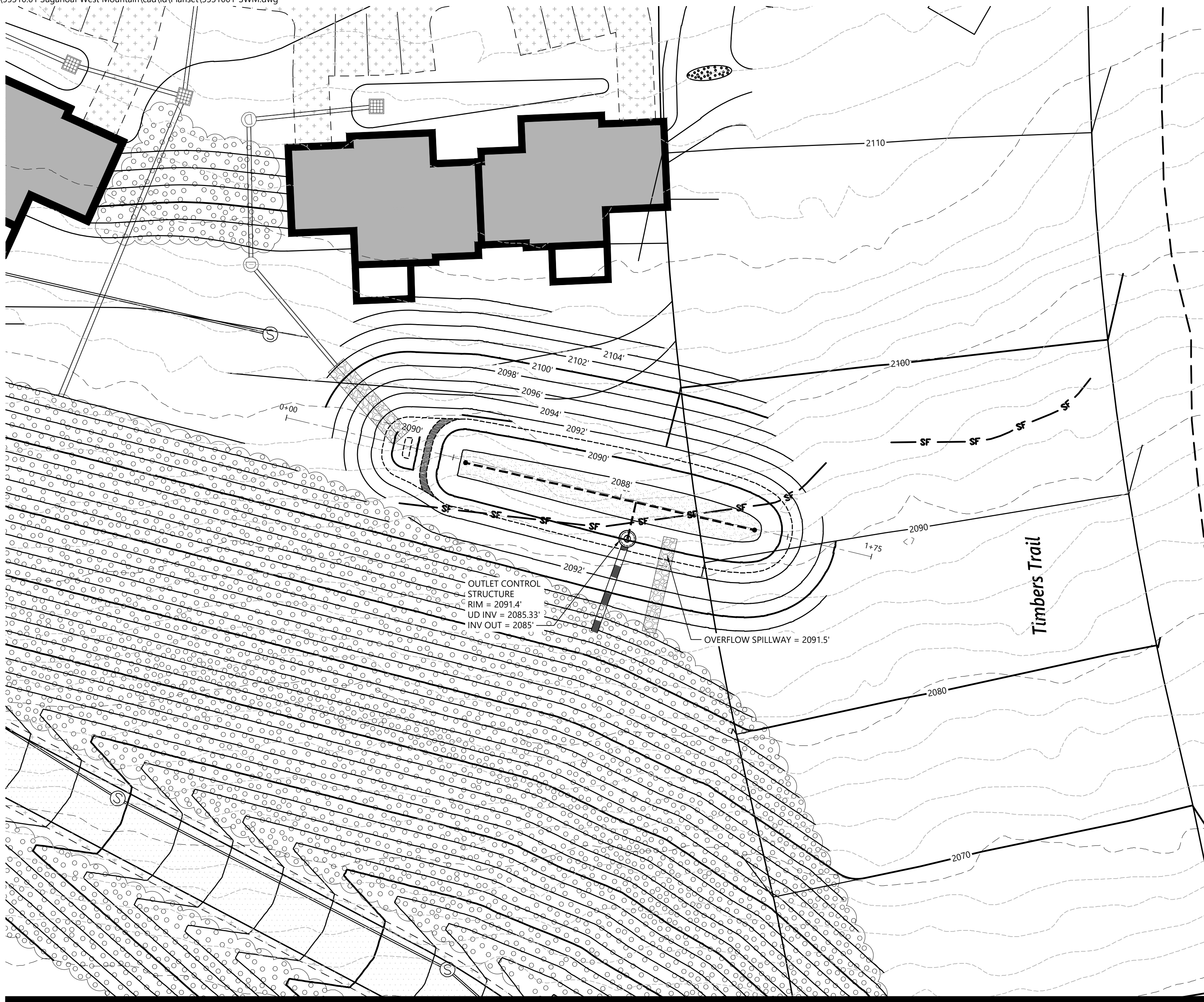
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Project Number: 55310.01





**Sugarloaf Mtn Corp  
West Mountain  
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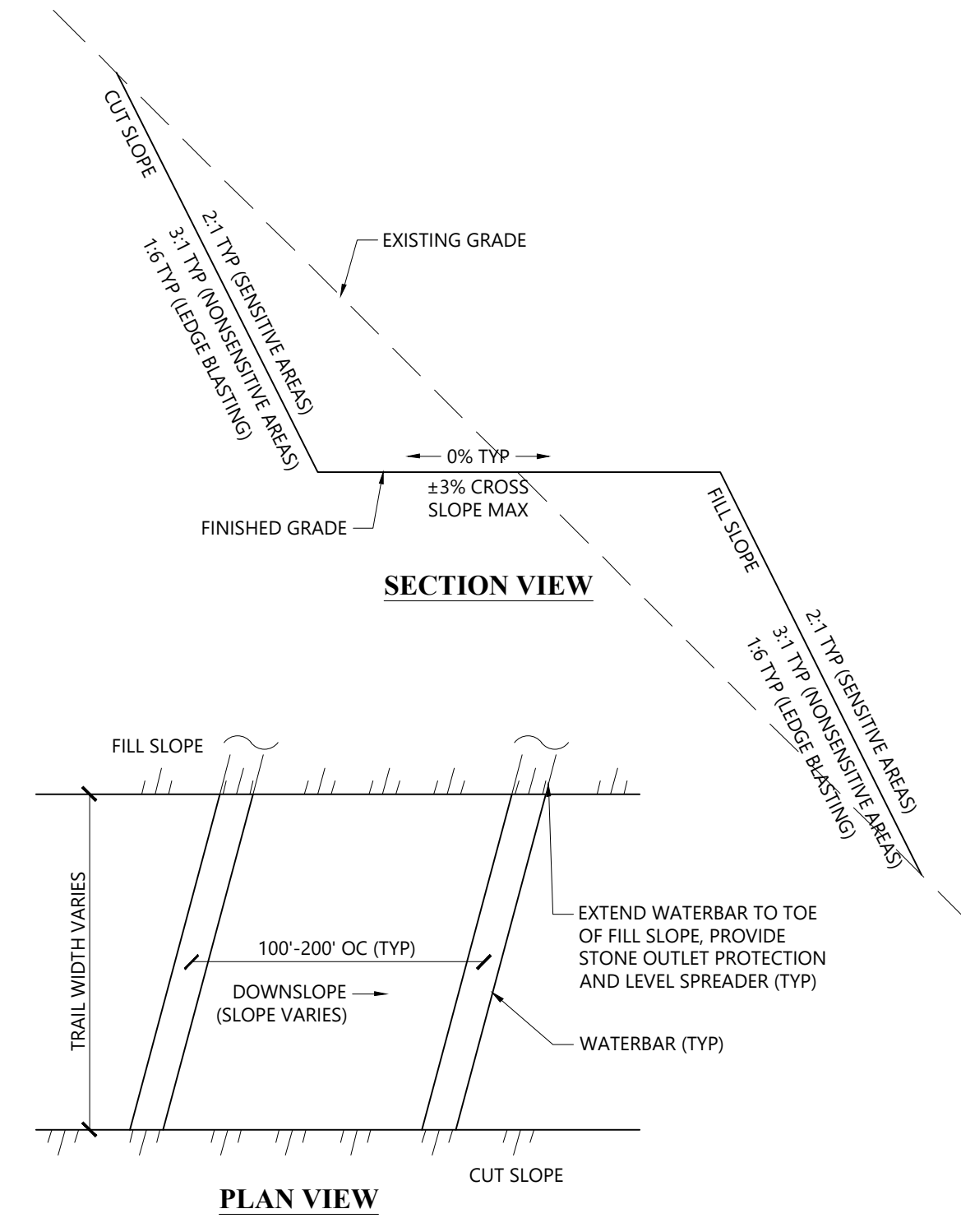
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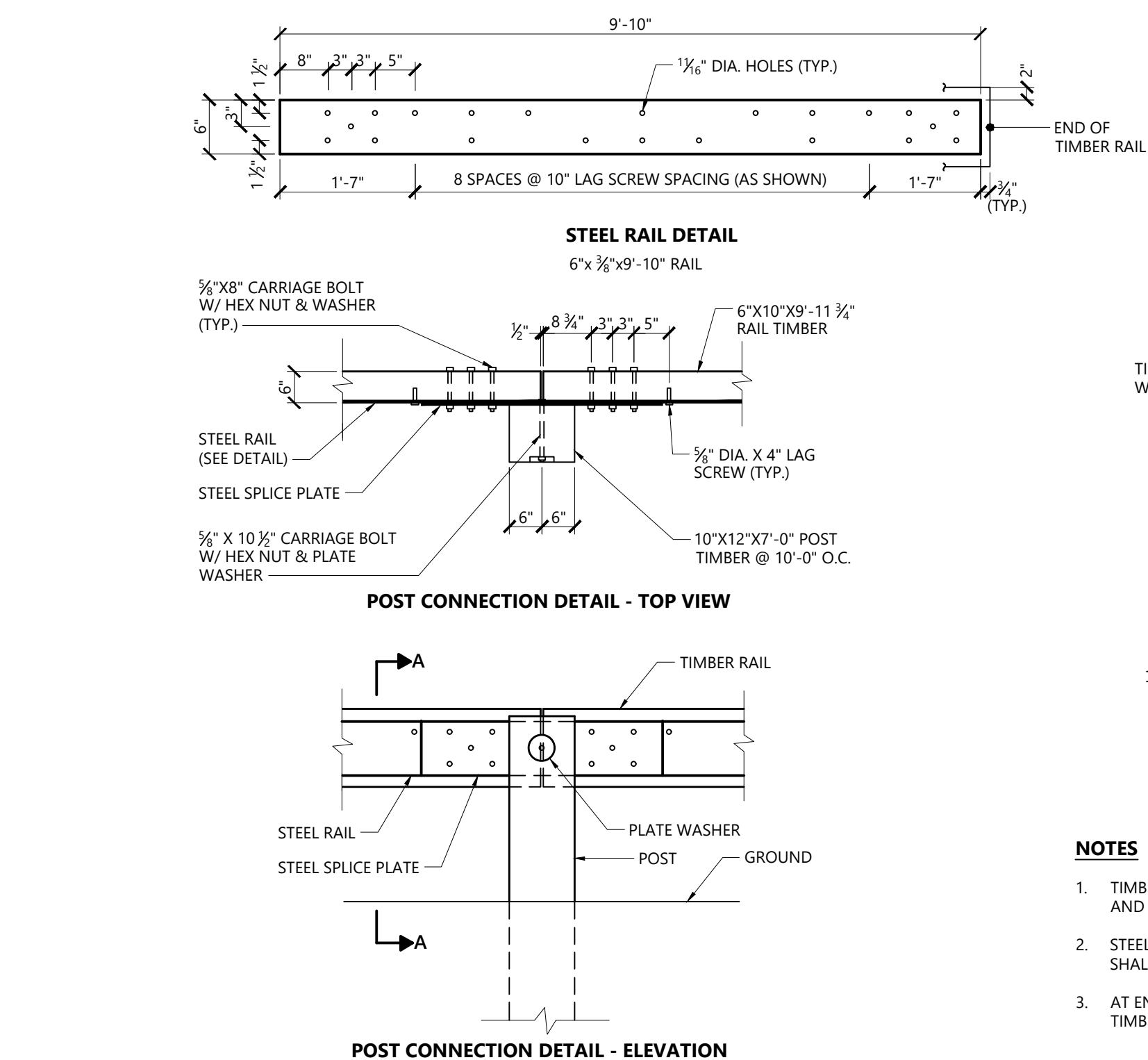
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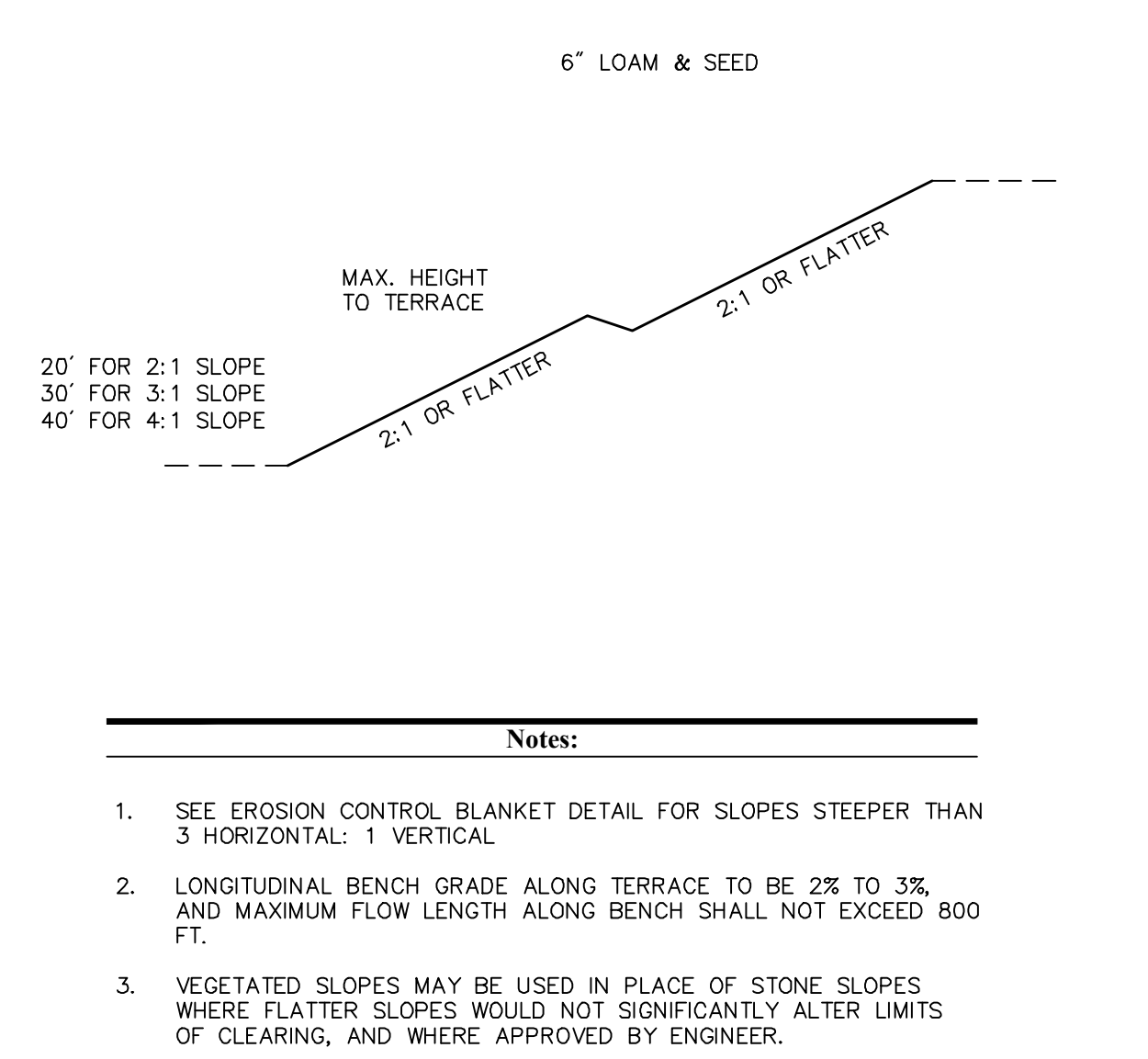


**Typical Ski Trail Design** 6/16  
N.T.S. Source: VHB VT\_LD

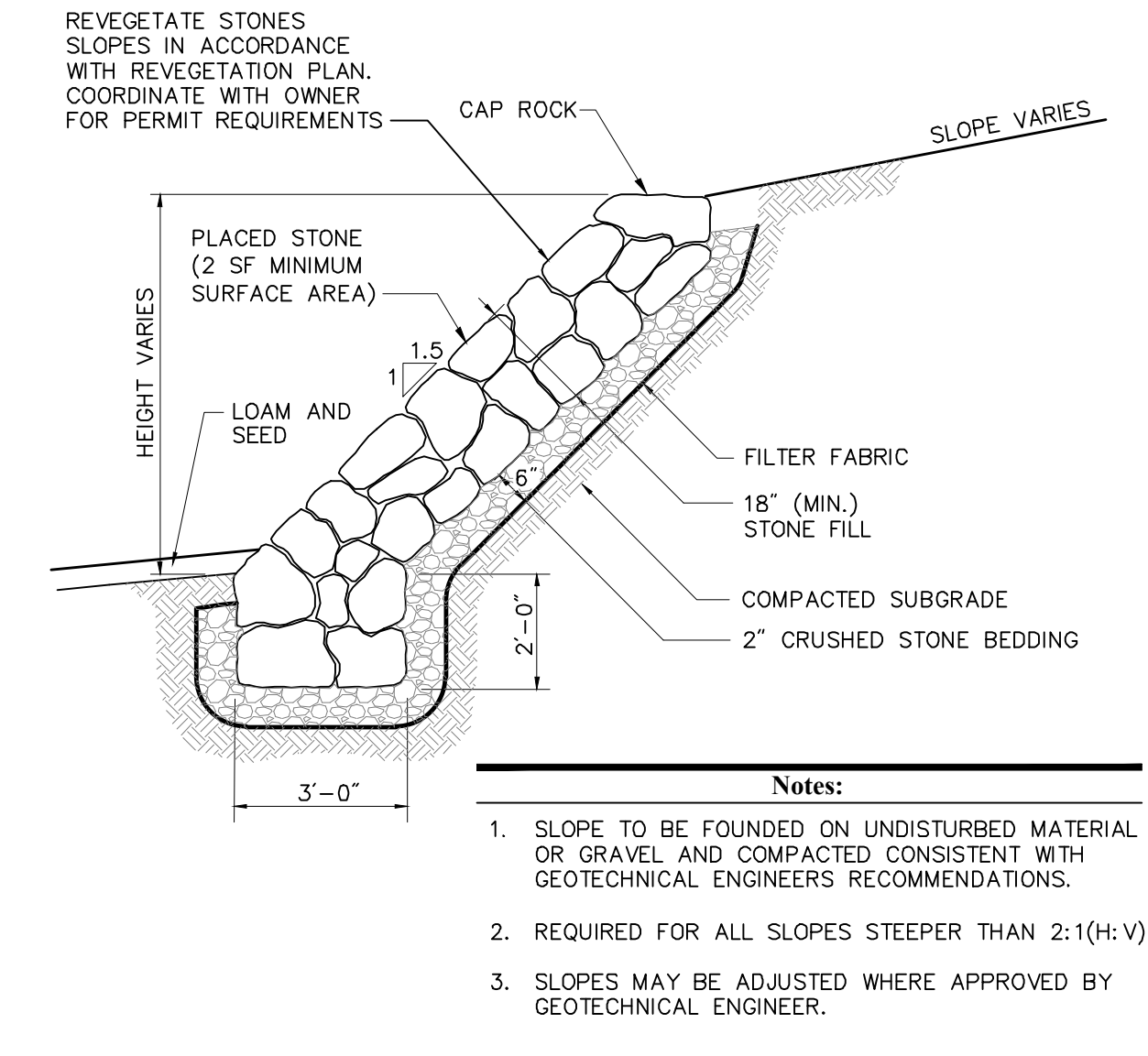


**Steel-Backed Wood Guardrail** 1/16  
N.T.S. Source: VHB LD\_452

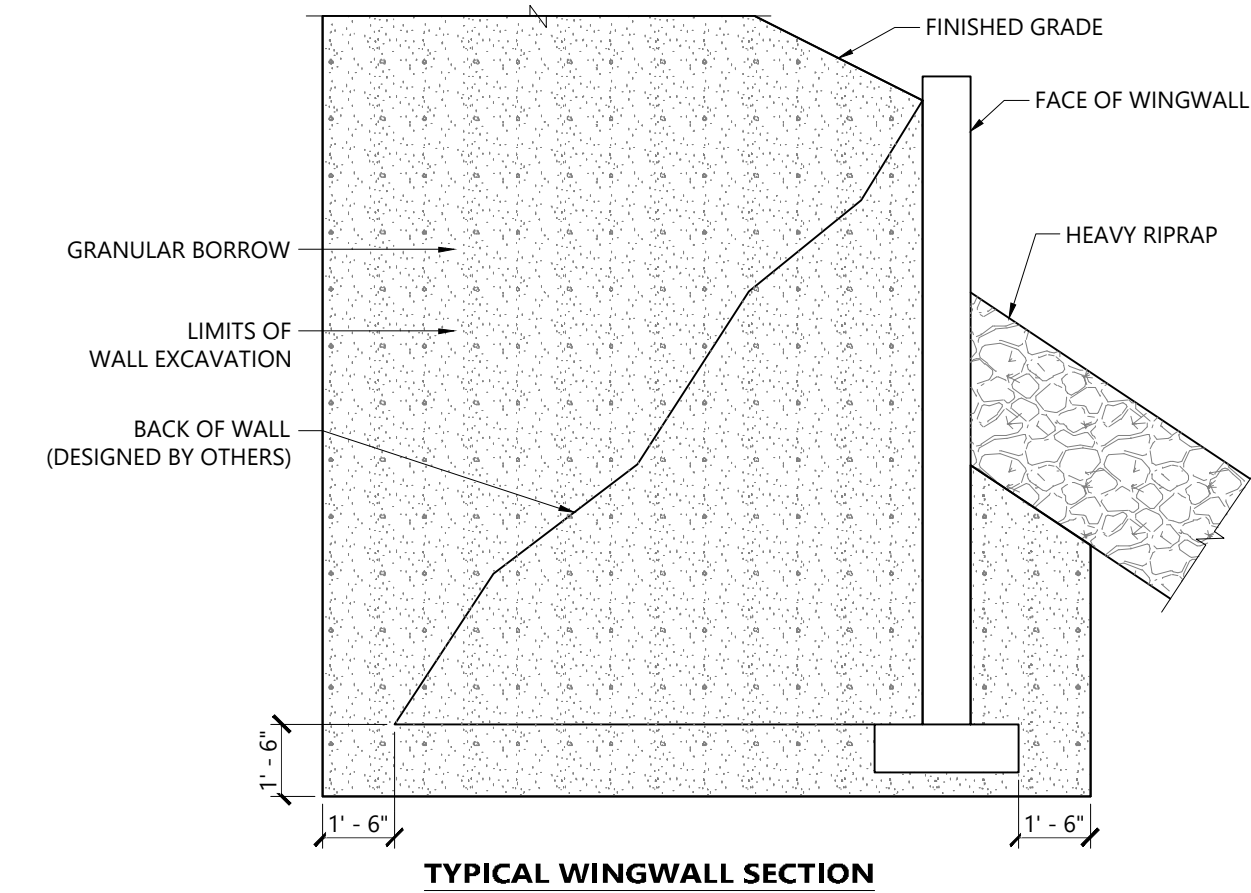
- NOTES**
- 1. TIMBER RAILS AND POSTS SHALL BE PLANED ON THE FACE AND TOP AND THEN PRESSURE TREATED.
- 2. STEEL RAILS, SPLICE PLATES, BOLTS, SCREWS, NUTS AND WASHERS SHALL BE GALVANIZED.
- 3. AT END POSTS, PROVIDE FULL COVERAGE OF POST FACE WITH TIMBER RAIL AND SPLICE PLATE.



**Vegetated Slopes (2:1 or Flatter)** EV-10  
N.T.S. Source: VHB

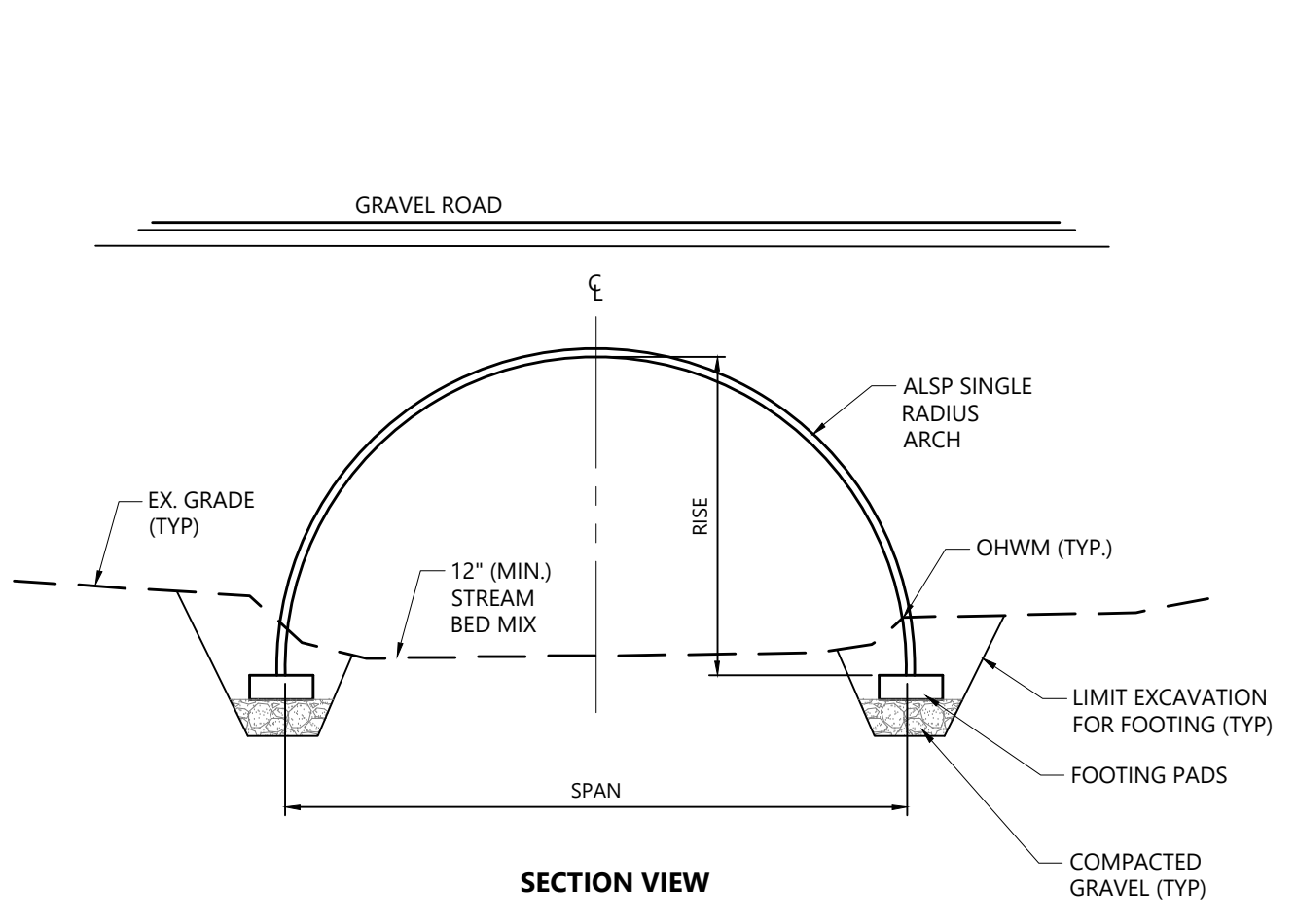


**Placed Stone Slope** EV-11  
N.T.S. Source: VHB LD\_760



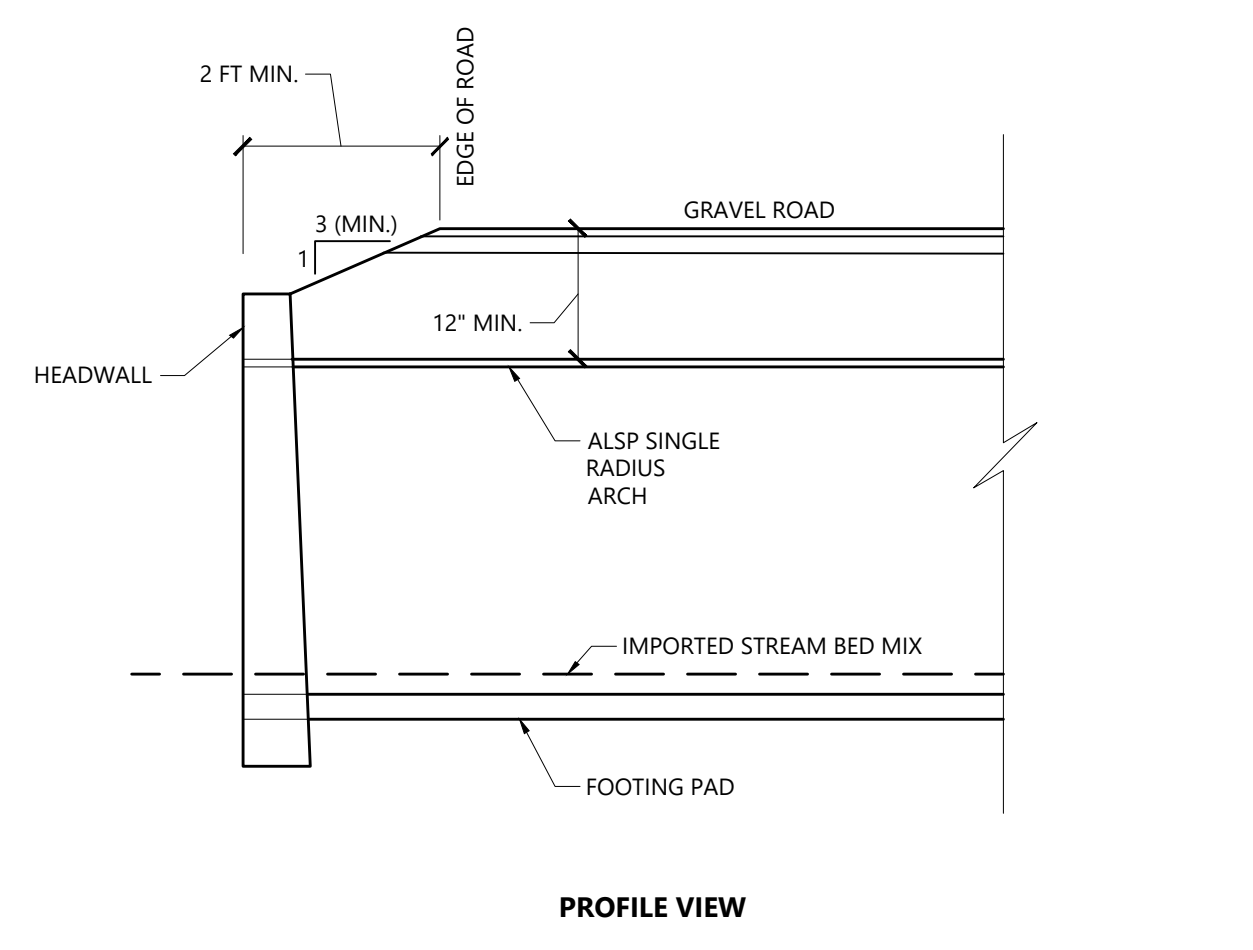
- NOTES**
- 1. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE WINGWALLS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 534. THE WALLS SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND THE DESIGN SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. COST OF WINGWALLS INCLUDED IN ITEM 534.1.
- 2. THE PRECAST UNITS SHALL BE ONE OF THE FOLLOWING, OR APPROVED EQUAL:  
"T-WALL" AS MANUFACTURED BY A LICENSED MANUFACTURER OF NEEL COMPANY.  
"DOUBLEWALL" AS MANUFACTURED BY A LICENSED MANUFACTURER OF DOUBLEWALL CORP., PLAIN, CONNECTICUT.
- 3. THE MAXIMUM FACTORED BEARING RESISTANCE FOR THE WINGWALLS IS 5 KSF FOR THE SERVICE CONDITION. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR FACTORED BEARING RESISTANCE FOR THE STRENGTH CONDITION BASED ON STEM LENGTH RANGES.
- 4. ELEVATION AT BOTTOM OF WALLS MAY BE LOWERED FOR CONSTRUCTABILITY AT NO ADDITIONAL COST TO THE DEPARTMENT.

**Typical Wingwall**  
N.T.S. Source:



- NOTES**
- 1. CULVERT TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2. CULVERT TO BE CORRUGATED METAL PIPE CAPABLE OF WITHSTANDING HS-20 LOADING.
- 3. CULVERT HEADWALLS SHALL INCLUDE WING-WALLS AS MAY BE REQUIRED AND/OR AS INDICATED ON SITE PLANS.
- 4. BOX CULVERT DIMENSIONS (WIDTH x HEIGHT) NOTED ON PLANS ARE FOR CLEAR OPENING AND DO NOT INCLUDE BURIED (SUBGRADE) PORTIONS OF CULVERTS.
- 5. THE CULVERT SHALL CONSIST OF PLATES, RIBS, AND APPURTENANT ITEMS AS SHOWN ON THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A864 AND AASHTO M 219. PLATE THICKNESSES, RIB SPACINGS, END TREATMENT, AND TYPE OF INVERT AND FOUNDATION SHALL BE AS INDICATED ON THE PLANS.
- 6. BOLTS AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307 OR ASTM A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
- 7. THE CULVERT SHALL BE ASSEMBLED IN ACCORDANCE WITH THE SHOP DRAWINGS PROVIDED BY THE MANUFACTURER AND PER THE MANUFACTURER'S RECOMMENDATIONS. BOLTS SHALL BE TIGHTENED USING AN APPLIED TORQUE BETWEEN 90 AND 135 FT-LBS DEPENDING ON THE LOCATION OF THE BOLTS IN THE STRUCTURE.
- 8. THE BOX CULVERT SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDATIONS AND THE AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, SECTION 26 (DIVISION II).
- 9. THE BEDDING SHOULD BE CONSTRUCTED TO A UNIFORM LINE AND GRADE USING MATERIAL OUTLINED IN "BACKFILL REQUIREMENTS" SECTION ON THIS SHEET. THE FOUNDATION MUST BE CAPABLE OF PROVIDING A BEARING CAPACITY OF AT LEAST TWO TONS PER SQUARE FOOT.
- 10. FOR CULVERT DIMENSIONS, REFER TO PLAN SHEETS

**Stream Crossing SC-1** DR-09  
N.T.S. Source: VHB/CONTECH



- NOTES**
- 1. ALL IMPORTED BEDDING MATERIAL SHALL CONSIST OF FIELD STONE OR NATURAL RIVER ROCK SIMILAR IN COLOR AND APPEARANCE TO IN-SITU MATERIALS.
- 2. CRUSHED STONE SHALL NOT BE PERMITTED.
- 3. BANK RUN GRAVEL MAY INCLUDE UP TO 5% CLAY, SILT, AND/OR SAND, AND UP TO 25% COBBLE AND SHALL HAVE NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).
- 4. SAND SHALL BE WELL MIXED AND PREDOMINANTLY 1.0 TO 2.0 MILLIMETERS IN SIZE AND HAVE NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).
- 5. THE GRADATION OF IMPORTED MATERIALS SHALL FALL WITHIN THE ENVELOPE AS INDICATED IN THE TABLE ABOVE.
- 6. COBBLE-GRAVEL VOID RATIO IS ESTIMATED AT 20%. THEREFORE, 20% BY VOLUME OF CL MATERIAL SHALL BE ADDED TO THE COBBLE-GRAVEL SAND MATERIAL PRIOR TO PLACEMENT IN THE DESIGNATED AREAS. SEE CONSTRUCTION SPECIFICATIONS FOR DETAILS RELATIVE TO MIXING, PLACING, AND COMPACTING STREAMBED MATERIAL.

**Streambed Material**  
N.T.S. Source: VHB

**STREAMBED MATERIAL FOR CHANNEL FORMATION AND OUTLET PROTECTION**

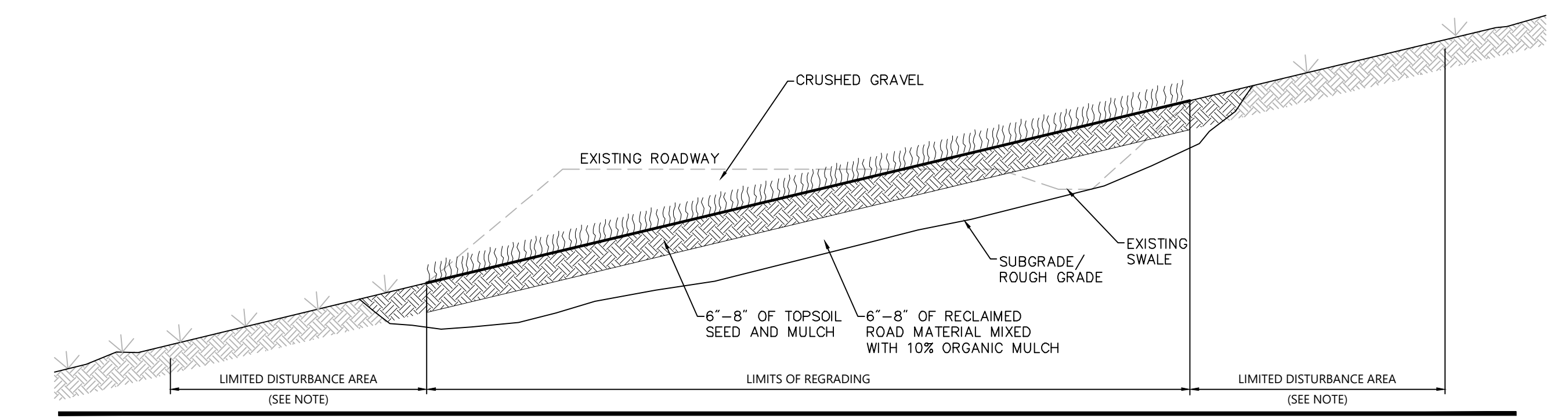
THE BOULDER-COBBLE-GRAVEL-SAND MATERIAL SPECIFIED BELOW MUST BE APPROVED BY THE ENGINEER AT THE CONTRACTOR'S PROPOSED SOURCE PRIOR TO BEING PLACED IN THE STREAM CHANNEL.

Cumulative Percent of particles finer than indicated particle size	PARTICLE SIZE (inches)	PARTICLE TYPE
D10	< 0.04	grnd
D15	1.0-2.0	grnd
D35	3.0-4.0	cobble
D50	8.0-10.0	cobble
D84	14.0-16.0	boulder

DESCRIPTION	SIZE	BUCKETS	PERCENT
ROCK/BOULDER	WELL GRADED 12-16"	0.5	7-12%
ROCK/COBBLE	WELL GRADED 8-12"	2	35-40%
BANK RUN GRAVEL	0.08-2.5"	2	35-40%
COURSE SAND	0.04-0.08" (1-2 MM)	0.75	12-17%

- NOTES**
- 1. ALL IMPORTED BEDDING MATERIAL SHALL CONSIST OF FIELD STONE OR NATURAL RIVER ROCK SIMILAR IN COLOR AND APPEARANCE TO IN-SITU MATERIALS.
- 2. CRUSHED STONE SHALL NOT BE PERMITTED.
- 3. BANK RUN GRAVEL MAY INCLUDE UP TO 5% CLAY, SILT, AND/OR SAND, AND UP TO 25% COBBLE AND SHALL HAVE NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).
- 4. SAND SHALL BE WELL MIXED AND PREDOMINANTLY 1.0 TO 2.0 MILLIMETERS IN SIZE AND HAVE NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).
- 5. THE GRADATION OF IMPORTED MATERIALS SHALL FALL WITHIN THE ENVELOPE AS INDICATED IN THE TABLE ABOVE.
- 6. COBBLE-GRAVEL VOID RATIO IS ESTIMATED AT 20%. THEREFORE, 20% BY VOLUME OF CL MATERIAL SHALL BE ADDED TO THE COBBLE-GRAVEL SAND MATERIAL PRIOR TO PLACEMENT IN THE DESIGNATED AREAS. SEE CONSTRUCTION SPECIFICATIONS FOR DETAILS RELATIVE TO MIXING, PLACING, AND COMPACTING STREAMBED MATERIAL.

**Streambed Material**  
N.T.S. Source: VHB



- RECLAMATION PROCEDURE**
- 1. REMOVE ROAD MATERIAL USING A BULLDOZER TO A DEPTH OF 12 INCHES BELOW APPROXIMATE FINAL GRADE. TEMPORARY STOCKPILE MATERIAL IN AN UPLAND AREA FOR USE IN ACHIEVING FINAL GRADE (SEE ATTACHED ROADWAY RECLAMATION - TYPICAL SECTION).
  - a. INSTALL SILT FENCE TO SURROUND SOIL STOCKPILE(S)
  - b. IF STOCKPILED MATERIAL WILL NOT BE USED WITHIN 14 DAYS, APPLY MULCH FOR TEMPORARY STABILIZATION
- 2. STOCKPILED MATERIAL SHOULD BE MIXED WITH APPROXIMATELY 10% COMPOSTED ORGANIC MATTER U.S. ARMY CORPS OF ENGINEERS (USACE) - NEW ENGLAND DISTRICT - REGULATORY DIVISION, 2010. NEW ENGLAND DISTRICT COMPENSATORY MITIGATION GUIDANCE, AND PLACED TO A DEPTH OF 8 TO 8 INCHES WITHIN THE EXCAVATED AREA;
  - a. THE MATERIAL SHOULD BE LIGHTLY COMPACTED TO MINIMIZE THE EFFECT OF LATER SETTLING (I.E., WITH A LIGHT WEIGHT TRACKED VEHICLE SUCH AS A BOBCAT).
  - b. IF STOCKPILED MATERIAL WILL NOT BE USED WITHIN 14 DAYS, APPLY MULCH FOR TEMPORARY STABILIZATION
- 3. CLEAN TOPSOIL (I.E., REASONABLY FREE OF NONORGANIC REFUSE SUCH AS PLASTICS, AS WELL AS CHEMICAL CONTAMINANTS SUCH AS HERBICIDES) AND WITH AN ORGANIC MATTER CONTENT OF BETWEEN 10 AND 20% SHOULD BE PLACED TO A DEPTH OF 6 TO 8 INCHES ON THE SUB-GRADE MATERIAL TO ACHIEVE FINAL GRADE.
  - a. THE TOPSOIL SHOULD BE LIGHTLY COMPACTED IN A SIMILAR MANNER TO THE SUB-GRADE MATERIAL. THE BOBCAT SHOULD MOVE IN A DIRECTION THAT IS PERPENDICULAR TO THE SLOPE TO CREATE MICROTOPOGRAPHY WHICH WILL INHIBIT DIRECTED RUNOFF AND POTENTIALLY ERODIVE GRILLS.
  - b. THE TOPSOIL SHOULD BE LIGHTLY COMPACTED IN A SIMILAR MANNER TO THE SUB-GRADE MATERIAL. THE BOBCAT SHOULD MOVE IN A DIRECTION THAT IS PERPENDICULAR TO THE SLOPE TO CREATE MICROTOPOGRAPHY WHICH WILL INHIBIT DIRECTED RUNOFF AND POTENTIALLY ERODIVE GRILLS.
- 4. THE SEED MIX SHOULD INCLUDE A MIX OF NATIVE SPECIES WHICH CONTAIN BOTH ANNUAL AND PERENNIAL SPECIES TO ENSURE QUICK AND LASTING COVERAGE (SEE TABLE 1 FOR REPRESENTATIVE SEED MIX).
- 5. SEED MIX MAY BE APPLIED BY HYDRO-SEEDING, BY MECHANICAL SPREADING, OR BY HAND (FOR SMALLER AREAS).
  - a. IF SEED IS APPLIED BY MECHANICAL OR HAND SPREADING METHODS, THE RESTORED AREA SHOULD BE MULCHED IMMEDIATELY USING STRAW MULCH TO MINIMIZE THE PRESENCE OF UNDESIRABLE SPECIES (I.E., INVASIVE SPECIES); MULCH SHOULD BE APPLIED AT A RATE OF 2 TONS (100-200 BALES) PER ACRE.

TABLE 1  
PROPOSED SEED MIX FOR ROAD RECLAMATION

COMMON NAME	SCIENTIFIC NAME
RED FESCUE	FESTUCA RUBRA
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARUM
SWITCH GRASS	PANICUM VIRGATUM
ANNUAL RYE	ELYMUS VIRGINICUM
BIG BLUESTEM	ANDROPOGON GERARDII
INDIAN GRASS	SCHIZACHYRIUM NUTANS
DEER TONGUE	PANICUM CLANDESTINUM
PARTHURGE PEA	CHAMAECRISTA FASCICULATA
SOFT RUSH	JUNCUS EFFUSUS
PATH RUSH	JUNCUS TENUIS
ROUGH BENTGRASS	AGROSTIS SCABRA

NOTES:  
\* SPECIES KEYS ARE IN THE NEW ENGLAND LOGGING ROAD RECLAMATION MANUAL FROM NEW ENGLAND WETLAND PLANTS, INC. <http://www.newenglandwetlands.com> OR APPROVED LOCAL SEED SOURCE. SEED SHOULD BE APPLIED AT A MINIMUM RATE OF 20 LB/ACR (1 LB / 2,000 SQ FT)

**Roadway Reclamation Detail** ST-06  
N.T.S. Source: VHB

**Sugarloaf Mtn Corp  
West Mountain  
Expansion**  
5092 Access Road  
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

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Drawing Number

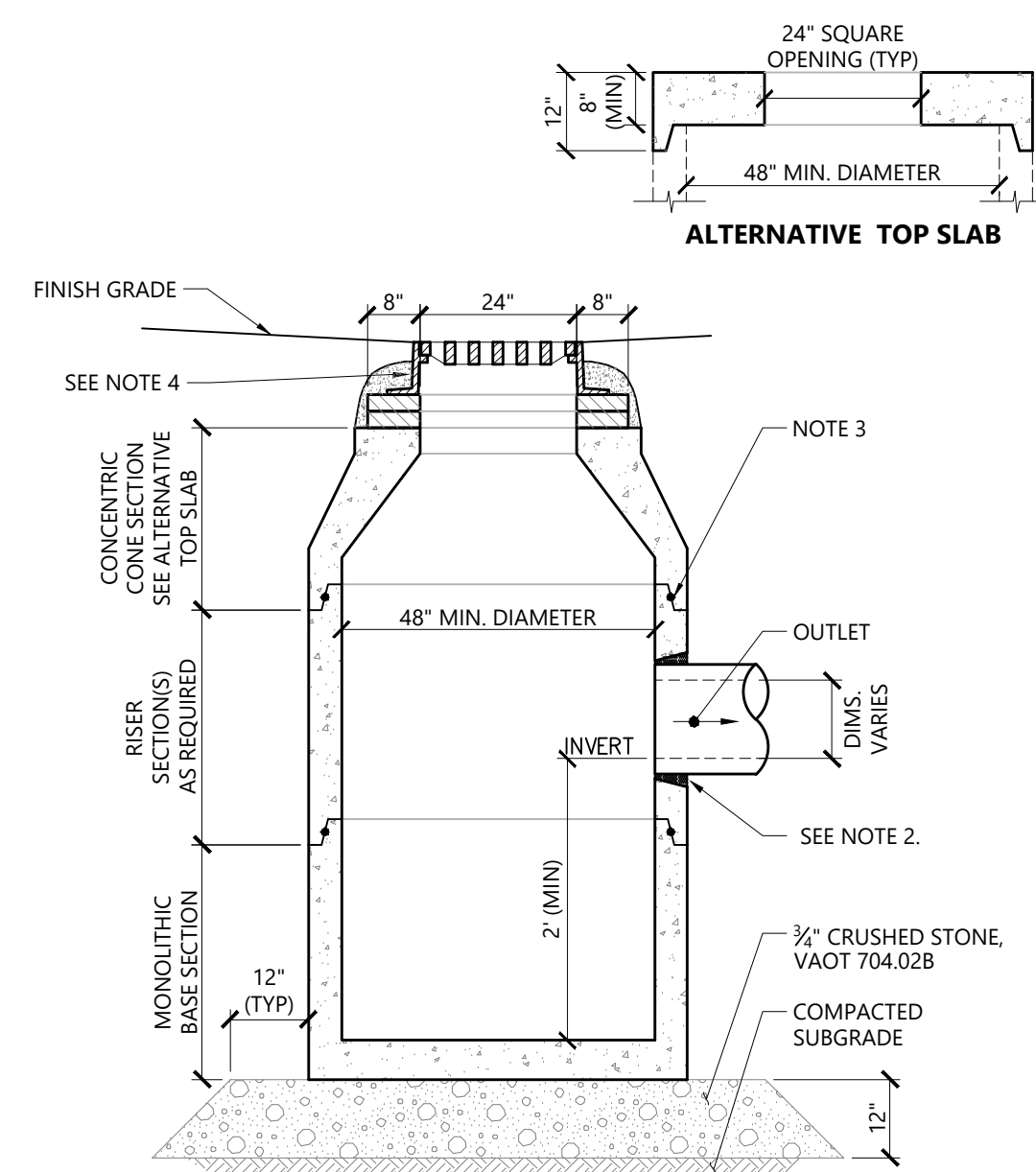
PETER B. SMAIER  
No. 18994  
LICENSED PROFESSIONAL ENGINEER

C1.02  
Sheet # 58 of  
Project Number 55310.01



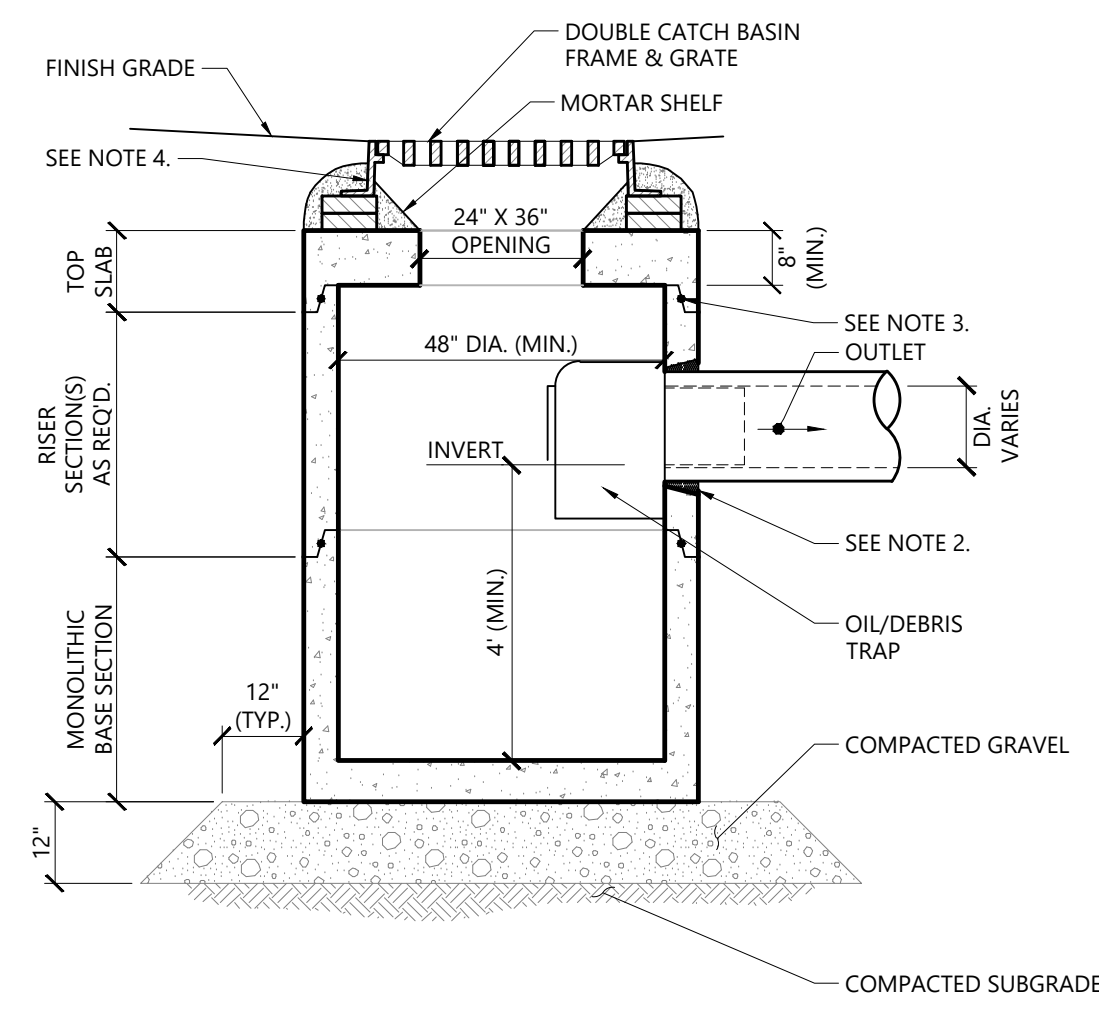


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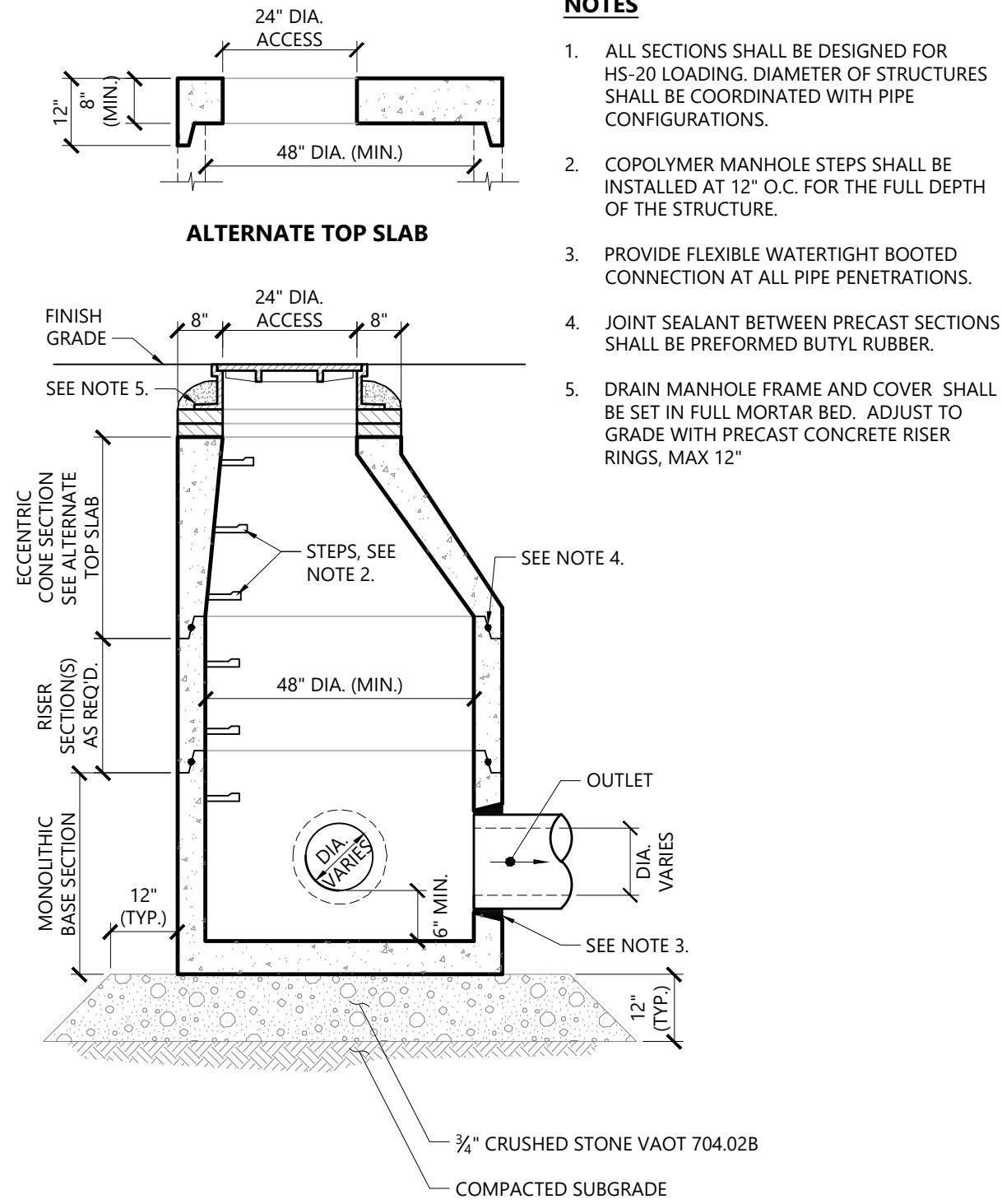
- NOTES**
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
  - PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
  - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
  - CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH PRECAST CONCRETE RISER RINGS, MAX 12"

**Catch Basin (CB)** 1/16  
N.T.S. Source: VHB LD\_100



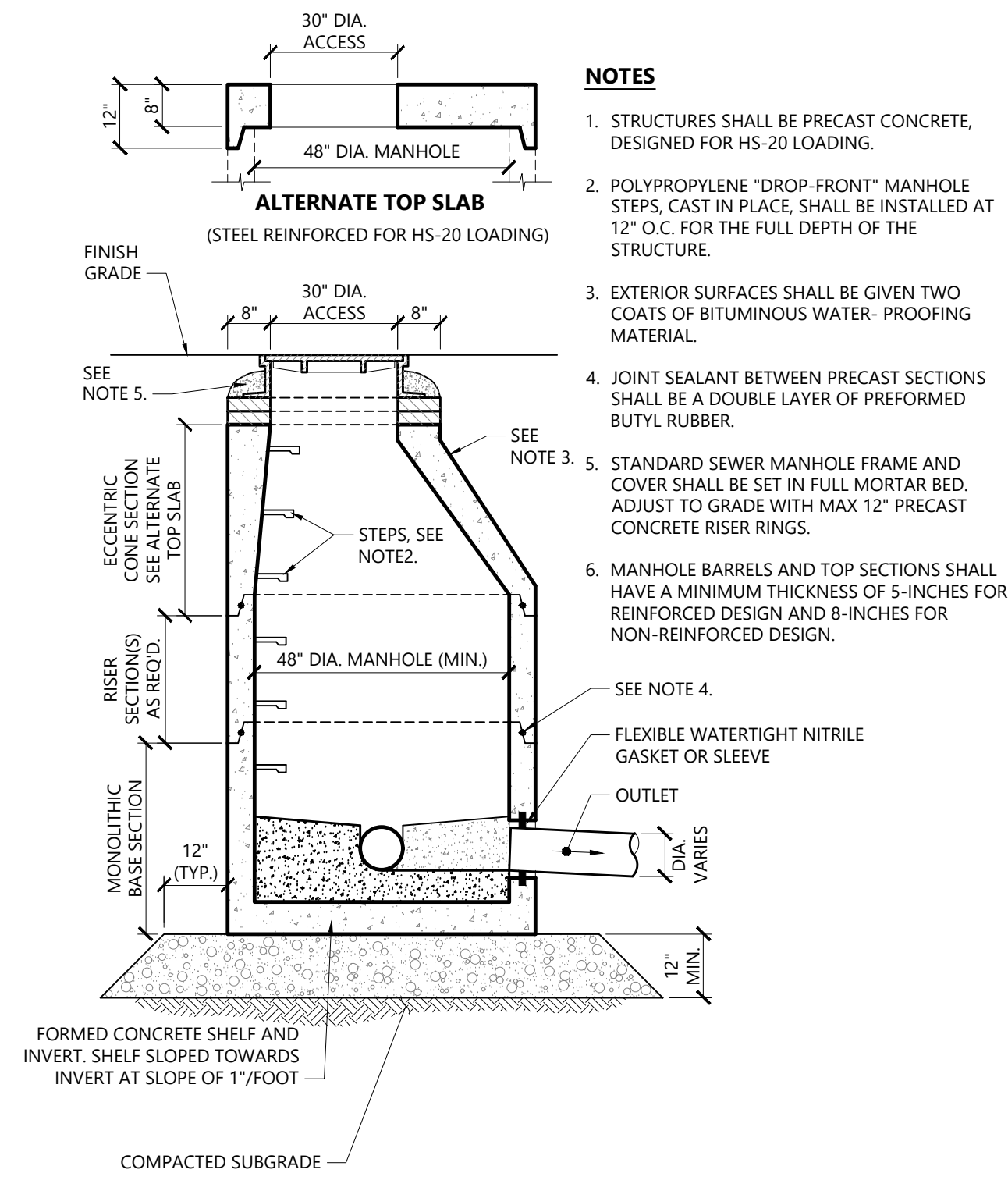
- NOTES**
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
  - PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
  - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
  - DOUBLE CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICKS TYPICALLY, 5 BRICK COURSES MAXIMUM)

**Double Grate Catch Basin (DCB) with Oil/Debris Trap** 1/16  
N.T.S. Source: VHB LD\_103



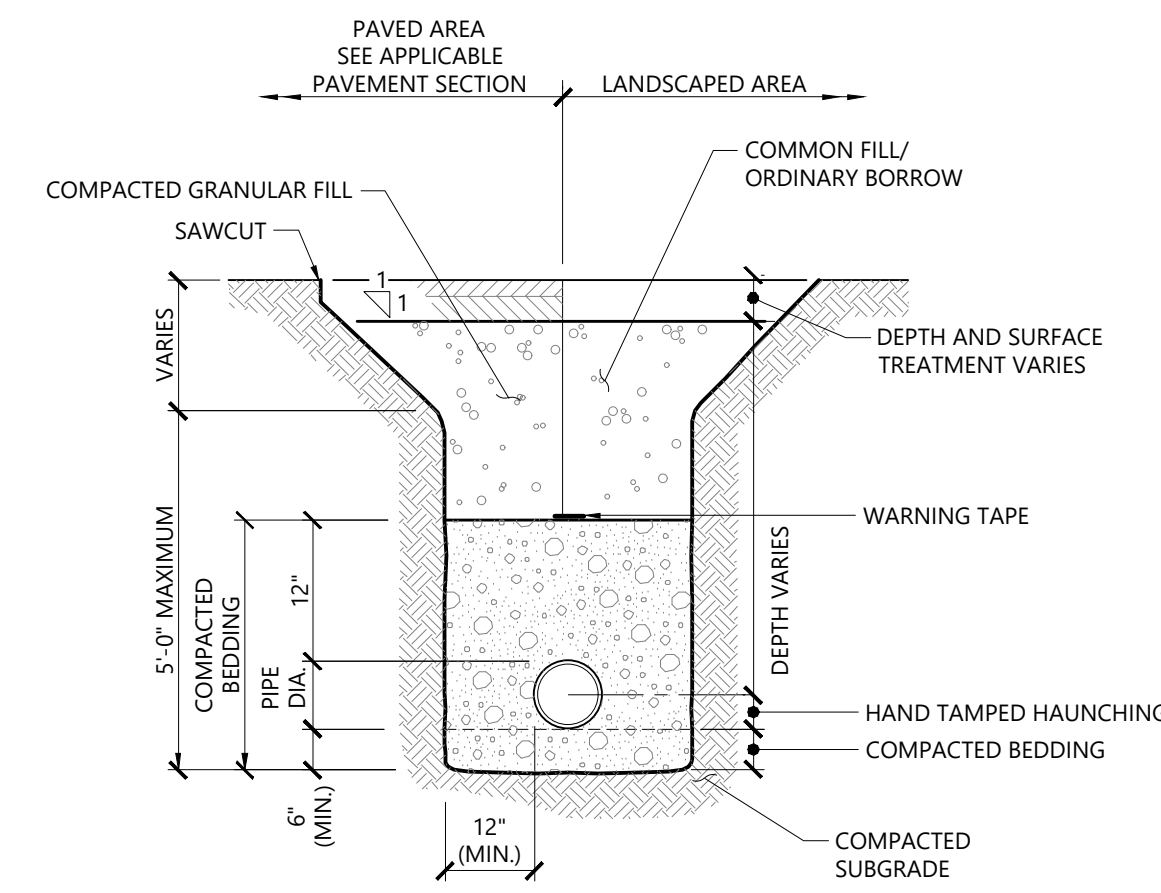
- NOTES**
- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING. DIAMETER OF STRUCTURES SHALL BE COORDINATED WITH PIPE CONFIGURATIONS.
  - COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
  - PROVIDE FLEXIBLE WATERTIGHT BOOTED CONNECTION AT ALL PIPE PENETRATIONS.
  - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
  - DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH PRECAST CONCRETE RISER RINGS, MAX 12"

**Drain Manhole (DMH)** 1/16  
N.T.S. Source: VHB LD\_115



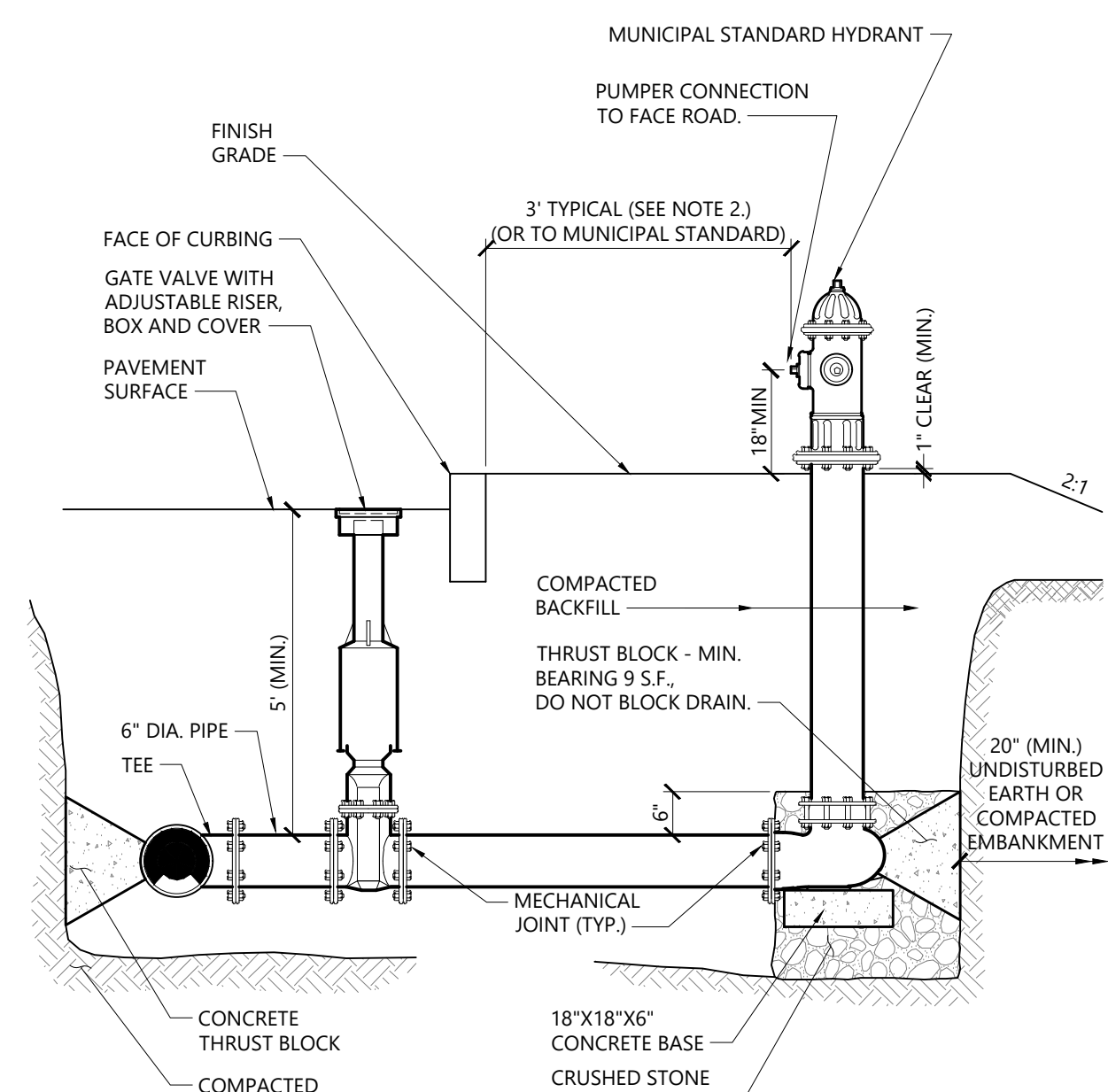
- NOTES**
- STRUCTURES SHALL BE PRECAST CONCRETE, DESIGNED FOR HS-20 LOADING.
  - POLYPROPYLENE "DROP-FRONT" MANHOLE STEPS, CAST IN PLACE, SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
  - EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
  - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE A DOUBLE LAYER OF PREFORMED BUTYL RUBBER.
  - STANDARD SEWER MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH MAX 12" PRECAST CONCRETE RISER RINGS.
  - MANHOLE BARRELS AND TOP SECTIONS SHALL HAVE A MINIMUM THICKNESS OF 5-INCHES FOR REINFORCED DESIGN AND 8-INCHES FOR NON-REINFORCED DESIGN.

**Sanitary Sewer Manhole (SMH)** 1/16  
N.T.S. Source: VHB LD\_200-VT



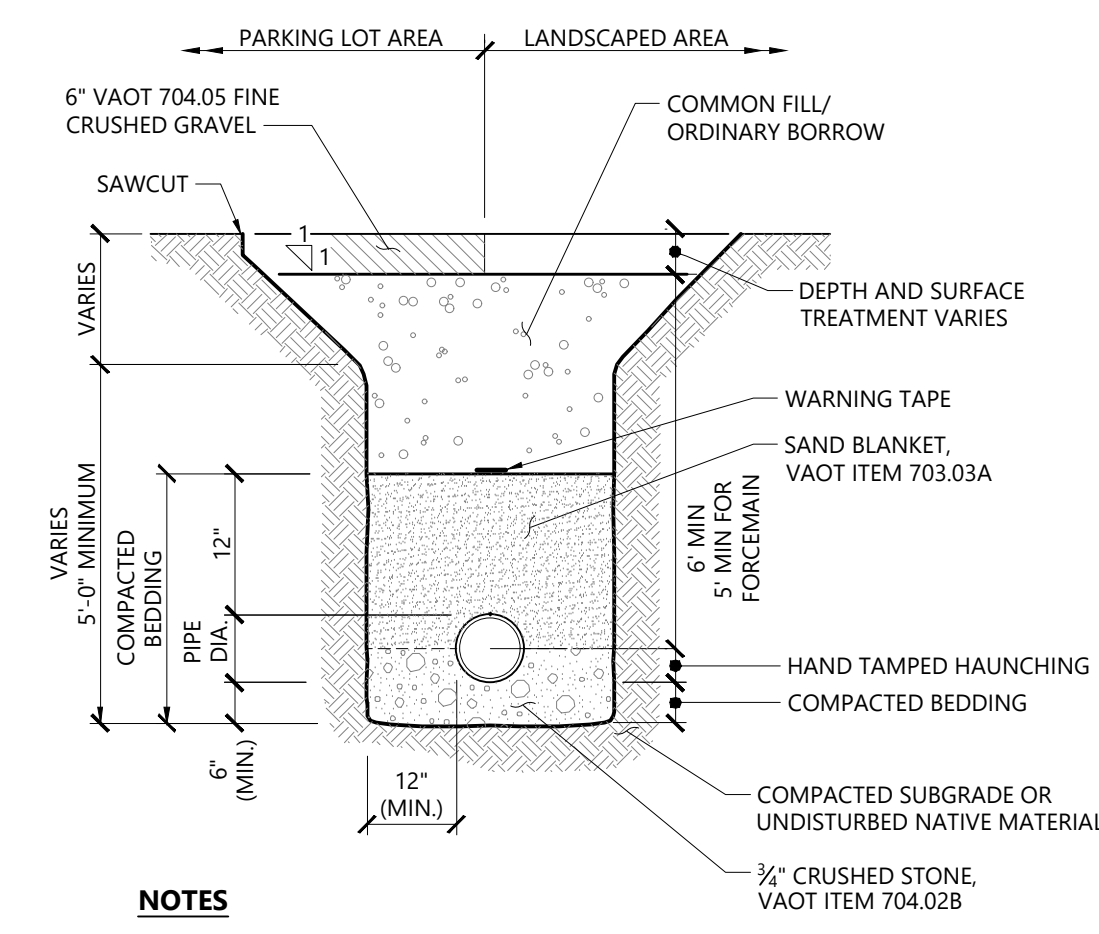
- NOTES**
- WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
  - USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

**Utility Trench** 1/16  
N.T.S. Source: VHB LD\_300



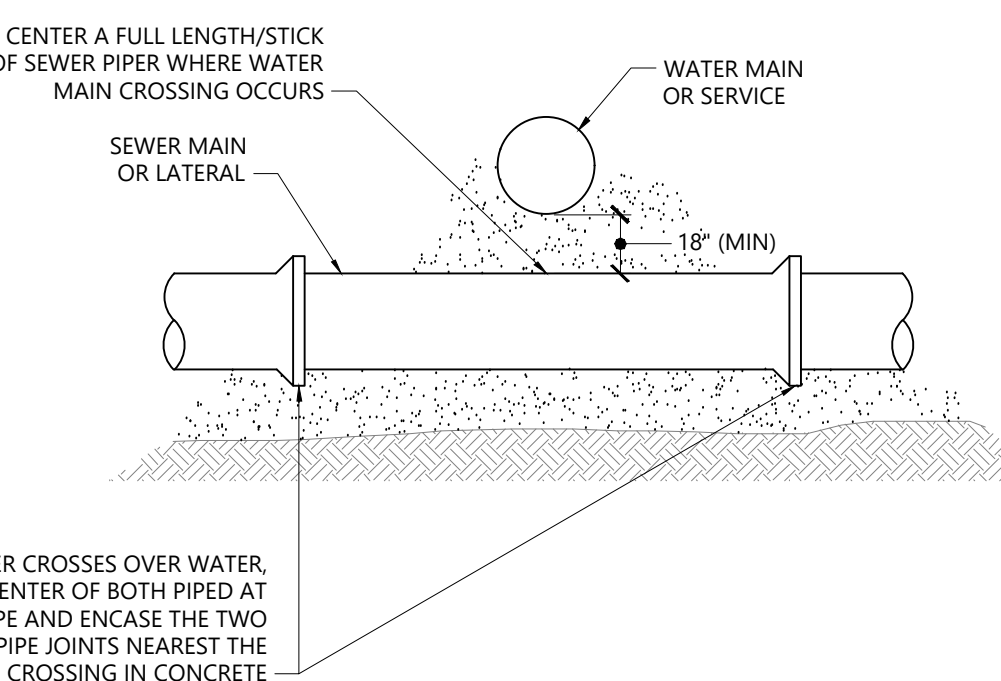
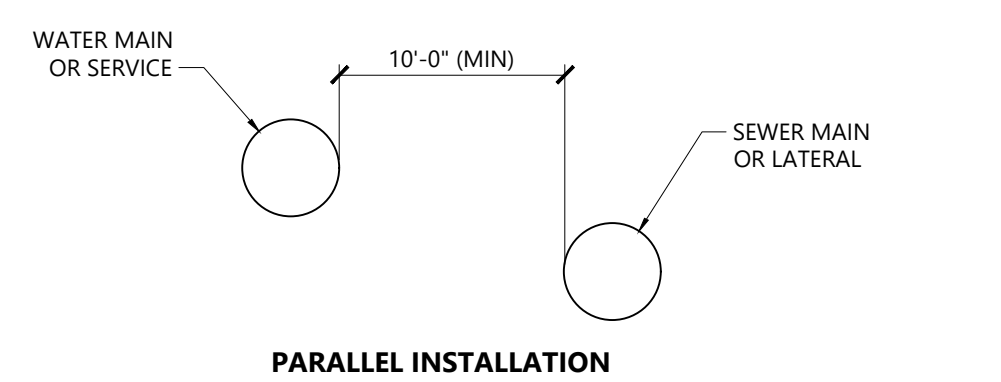
- NOTES**
- CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH AS SHOWN. USE CLAMPS AND THE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.
  - HYDRANT IN SIDEWALK AREAS TO BE LOCATED TO PROVIDE MINIMUM CLEAR SIDEWALK PASSAGE WIDTH OF 3 FEET AT HYDRANT.
  - A 36-INCH CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION.

**Hydrant Construction** 12/18  
N.T.S. Source: VHB LD\_250



- NOTES**
- WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
  - USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
  - LINE SHALL BE INSULATED WITH 2" EXTRUDED POLYSTYRENE INSULATION BOARD WHERE COVER IS LESS THAN 6'. VERIFY FINAL INSULATION THICKNESS WITH ENGINEER PRIOR TO PLACEMENT.

**Sewerline Trench** 1/16  
N.T.S. Source: VHB LD\_

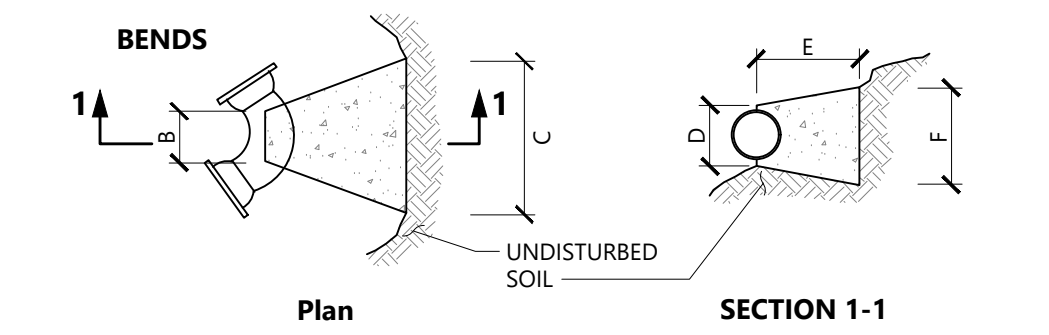


**WATER & SANITARY UTILITY CROSSINGS**

**Water / Sewer Separation** 11/15  
N.T.S. Source: VHB LD\_

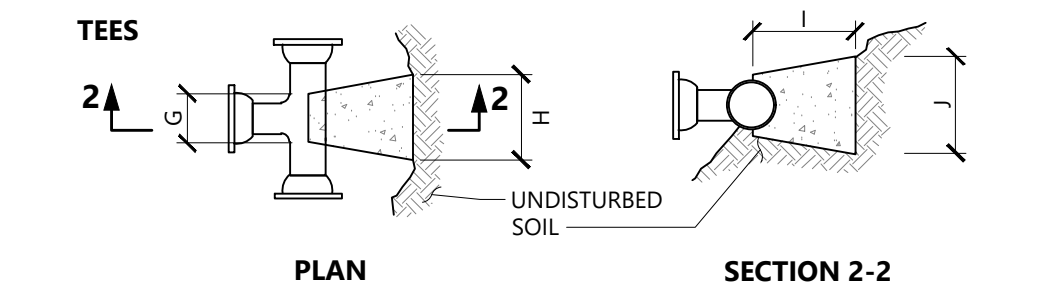
**TABLE OF DIMENSIONS**

BENDS	B	C	D	E	F	BENDS	B	C	D	E	F
6" 11 1/2"	8"	15"	12"	24"	12"	6" 45"	8"	30"	12"	24"	14"
6" 22 1/2"	"	19"	"	13"	6" 90"	"	30"	"	"	27"	"
8" 11 1/2"	"	20"	"	12"	8" 45"	"	30"	"	"	24"	"
8" 22 1/2"	"	22"	"	17"	8" 90"	"	38"	"	"	36"	"
12" 11 1/2"	"	30"	"	15"	12" 45"	"	40"	"	"	40"	"
12" 22 1/2"	"	35"	"	25"	12" 90"	"	60"	"	"	52"	"



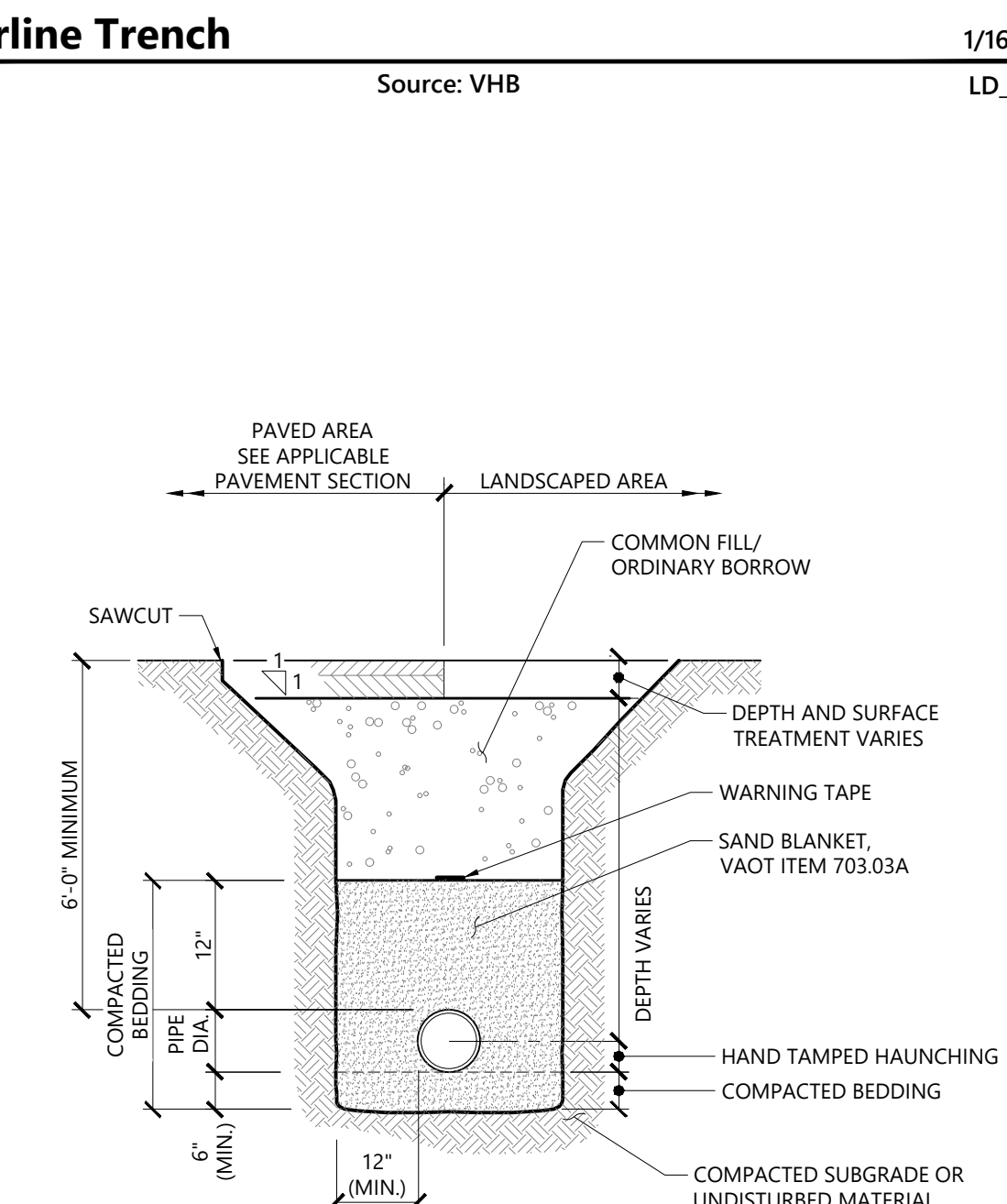
**TABLE OF DIMENSIONS**

TEES	G	H	I	J	TEES	G	H	I	J
6"X6"X6"	12"	24"	24"	18"	12"X12"X6"	12"	24"	24"	18"
8"X8"X6"	"	"	"	"	12"X12"X8"	"	"	"	24"
8"X8"X8"	"	"	"	24"	12"X12"X12"	"	"	36"	36"



- NOTES**
- PROVIDE BLOCKS FOR TAPPING SLEEVES, DEAD ENDS, GATE VALVES, AND VERTICAL BENDS (SAME SIZE AS REQUIRED FOR TEES). PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES.
  - CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING.
  - CONCRETE SHALL BE 3,000 PSI-TYPE I.

**Concrete Thrust Block** 1/16  
N.T.S. Source: VHB LD\_260



- NOTES**
- WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
  - USE METALLIC WARNING TAPE OVER ALL PIPES.
  - LINE SHALL BE INSULATED WITH 2" EXTRUDED POLYSTYRENE INSULATION BOARD WHERE COVER IS LESS THAN 6'. VERIFY FINAL INSULATION THICKNESS WITH ENGINEER PRIOR TO PLACEMENT.

**Waterline Trench** 1/16  
N.T.S. Source: VHB LD\_

**Sugarloaf Mtn Corp**  
**West Mountain**  
**Expansion**  
5092 Access Road  
Carrabassett Valley, ME 04947

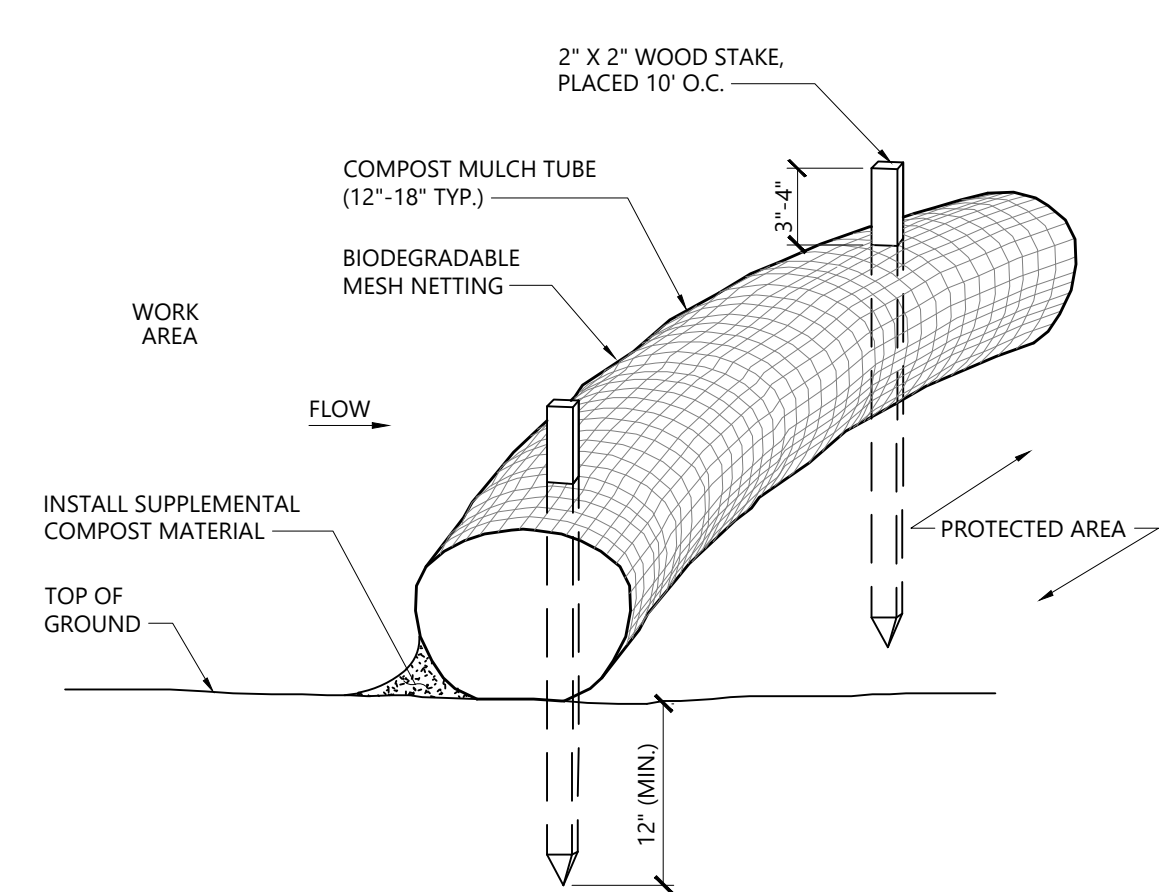
No.	Revision	Date	App'd.

Designed by: **RWN** Checked by: **PS**  
Issued for: \_\_\_\_\_ Date: \_\_\_\_\_

**Review** September 23, 2021

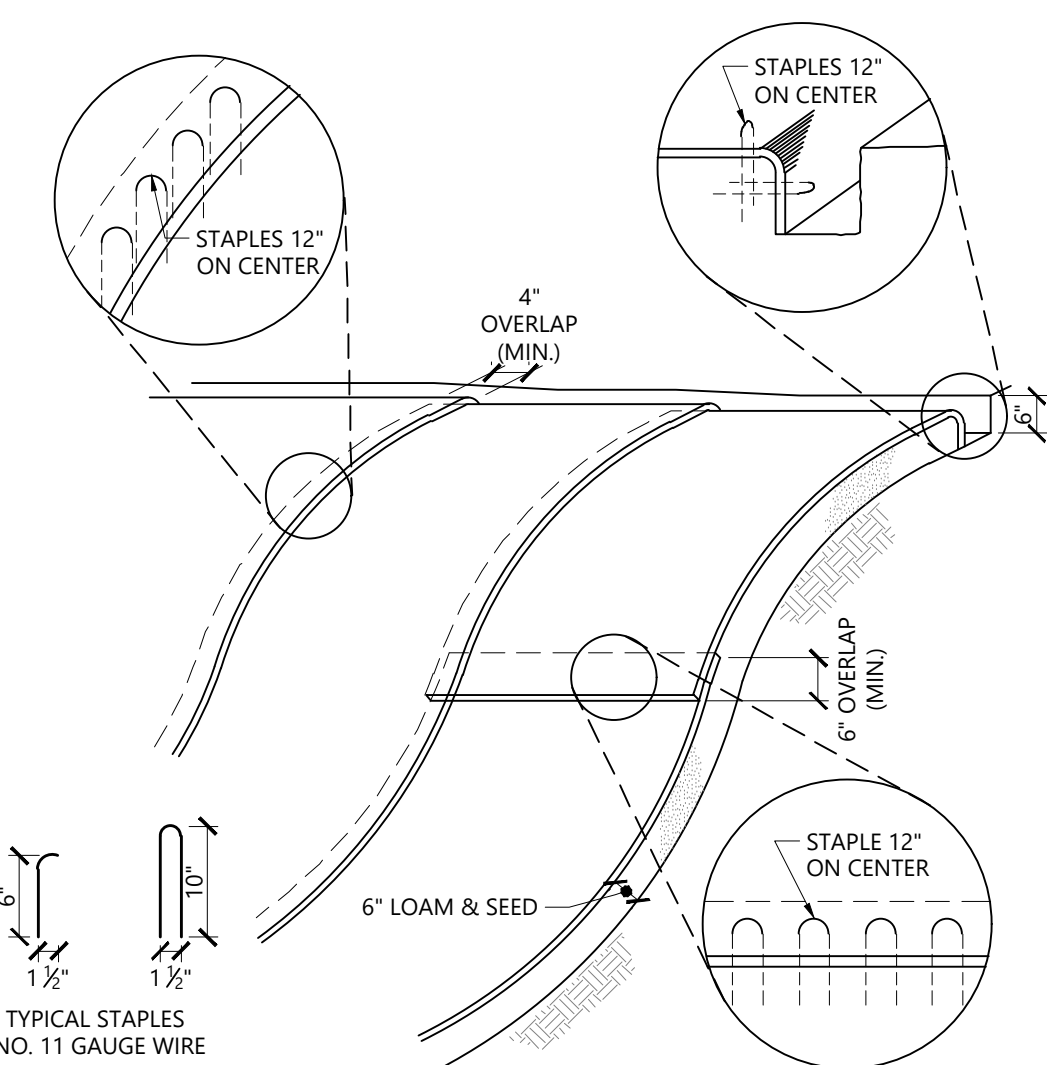
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**Utility Details**

Drawing Number  
**C1.03**  
Sheet # of 58  
Project Number  
55310.01



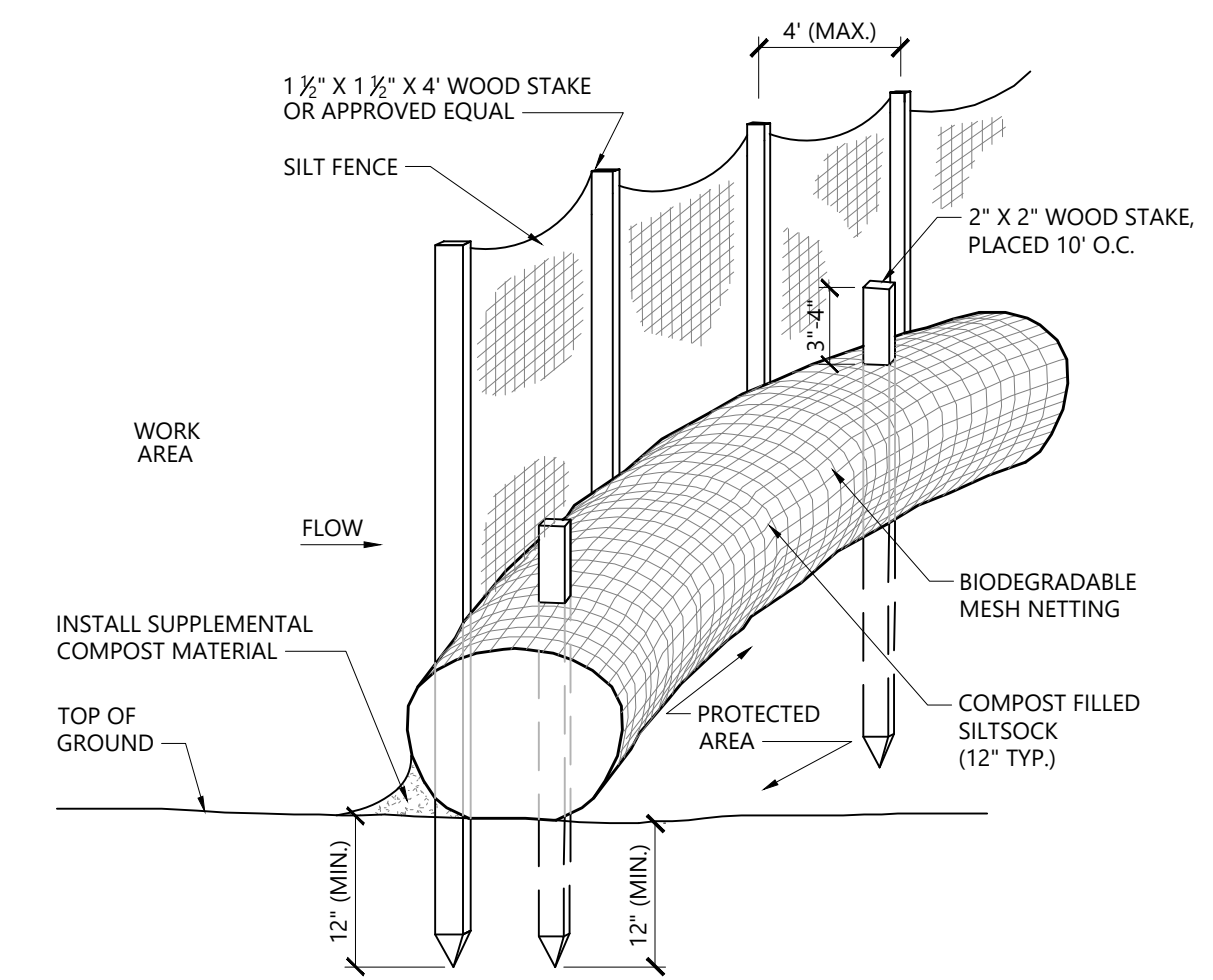
- NOTES**
1. COMPOST MULCH TUBE SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.
  2. SILT SOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
  3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
  4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
  5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.
  6. SEE SPECIFICATIONS FOR SOCK SIZE, AND COMPOST FILL REQUIREMENTS.

**Compost Mulch Tube - Erosion Control Barrier** 1/16  
N.T.S. Source: VHB LD\_658



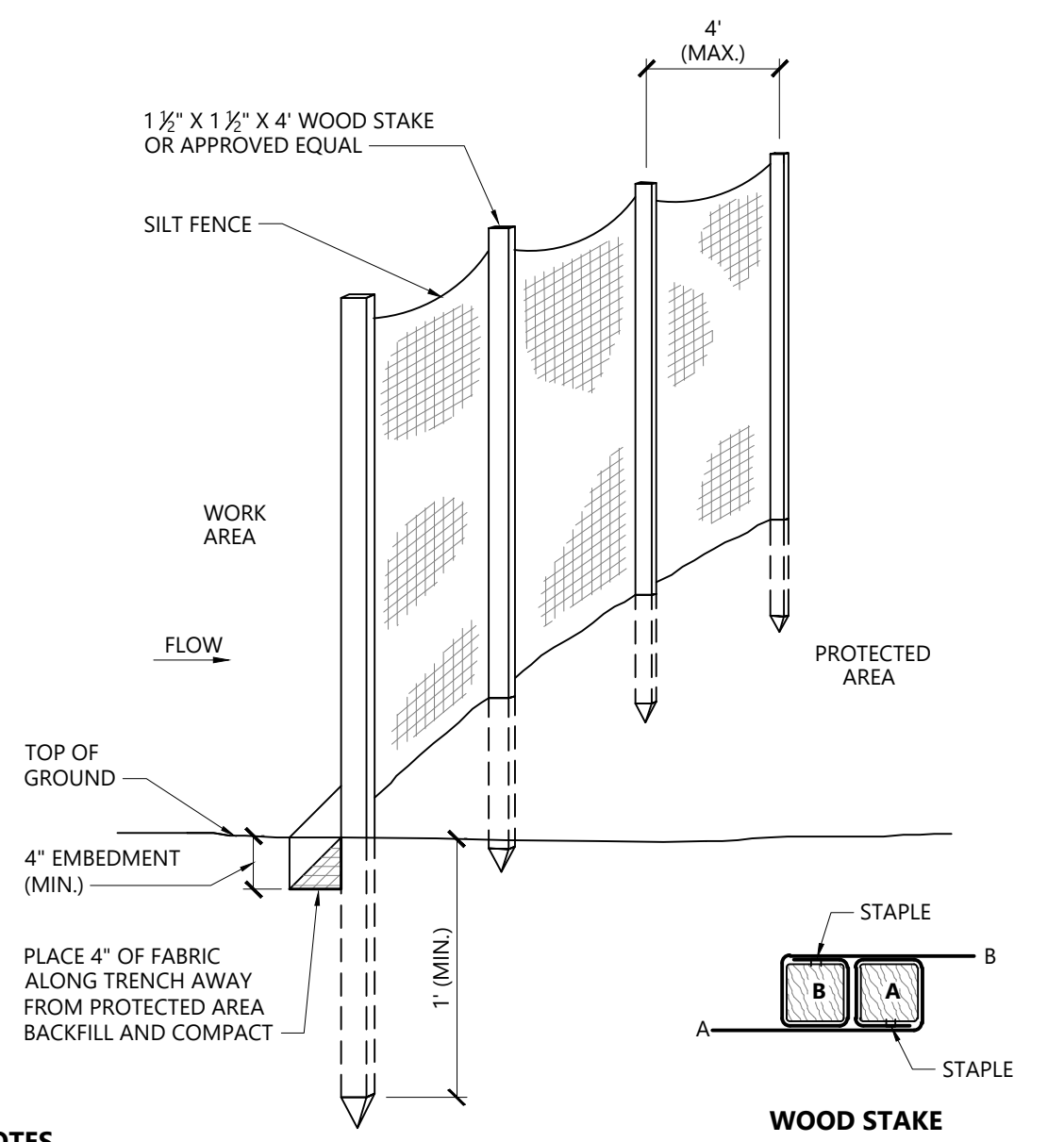
- NOTES**
1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
  2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
  3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
  4. WHEN BLANKETS MUST BE SPICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
  5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
  6. EROSION CONTROL BLANKETS TO BE USED IN AREAS WHERE SLOPES ARE EQUAL TO OR GREATER THAN 3:1. ALTERNATIVES MAY INCLUDE MULCH NETTING OVER LOOSE MULCH, OR EROSION CONTROL MIX AS SPECIFIED IN THE MAINTENANCE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs).

**Erosion Control Blanket Slope Installation** 1/16  
N.T.S. Source: VHB LD\_650



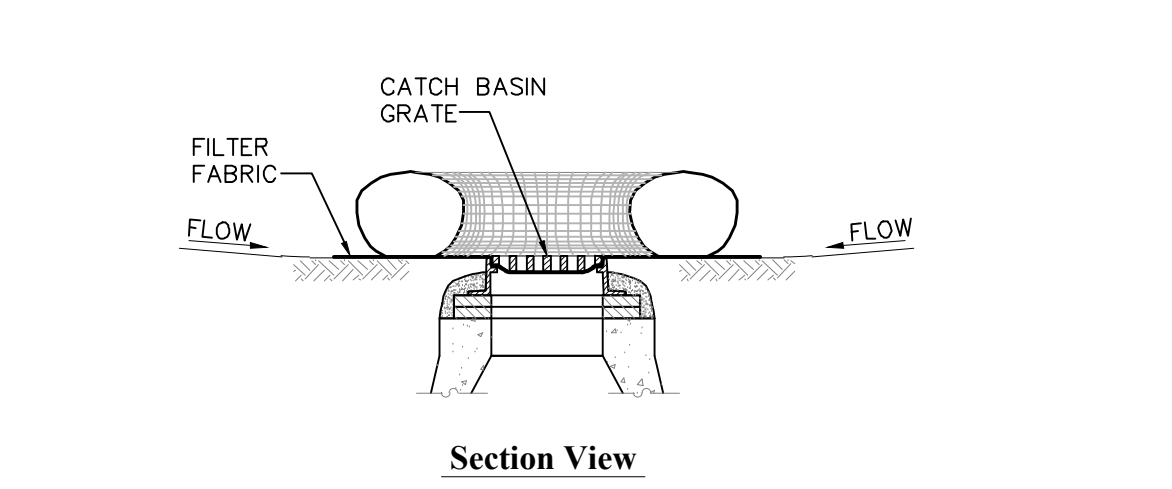
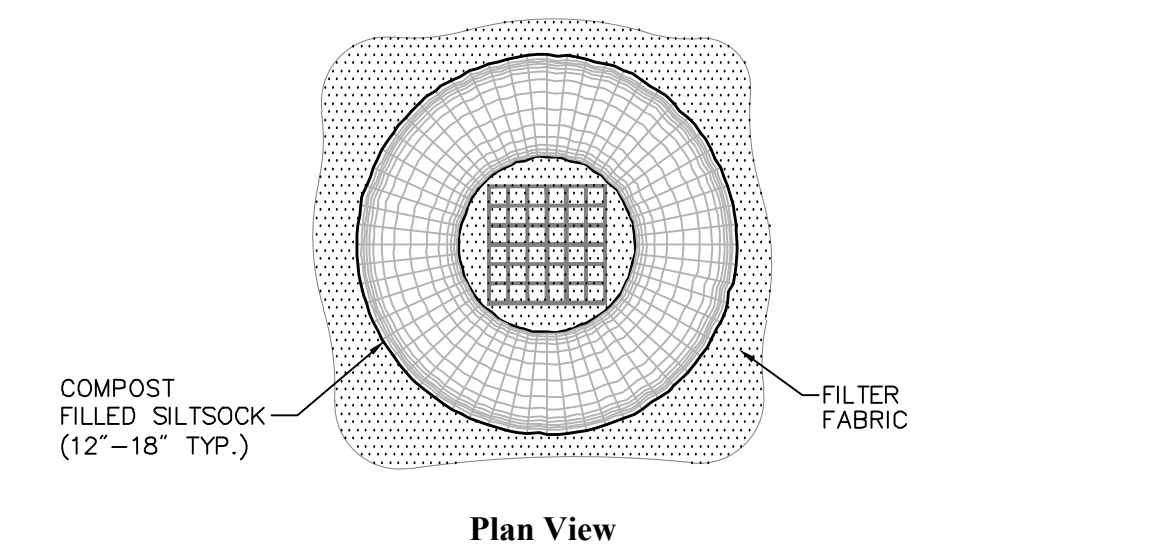
- NOTES**
1. SILT SOCK SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.
  2. SILT SOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
  3. SILT SOCK SHALL BE INSPECTED WEEKLY AT A MINIMUM AND BEFORE AND WITHIN 24 HOURS AFTER ALL STORM EVENTS (RAINFALL). IF REPAIR IS REQUIRED, REPAIR WORK SHALL BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPs OR SIGNIFICANT REPAIR OF BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
  4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
  5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.
  6. SILT SOCK / SILT FENCE BARRIER SHALL BE USED WHERE DISTURBANCE OCCURS WITHIN 50 FT OF A PROTECTED NATURAL RESOURCE.
  7. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED ALONG EXISTING GRADES WITH ENDS TURNED UPSLOPE.

**Siltsock / Silt Fence Barrier** 1/16  
N.T.S. Source: VHB LD\_658-A



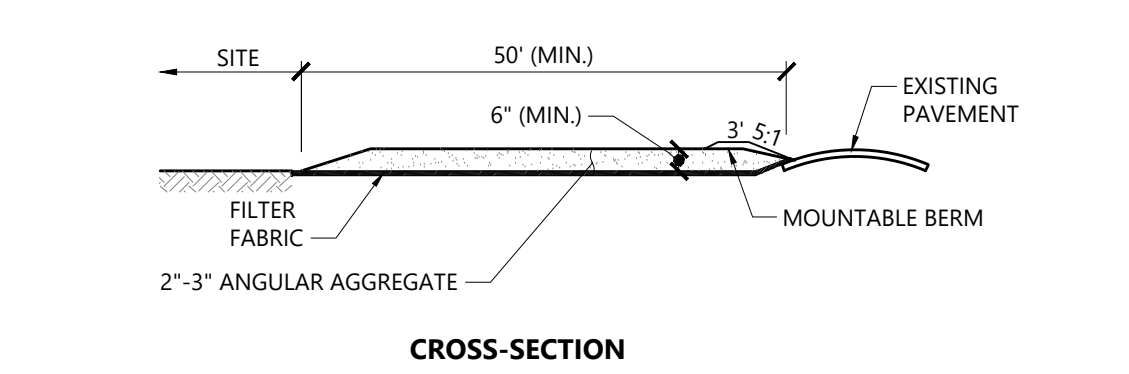
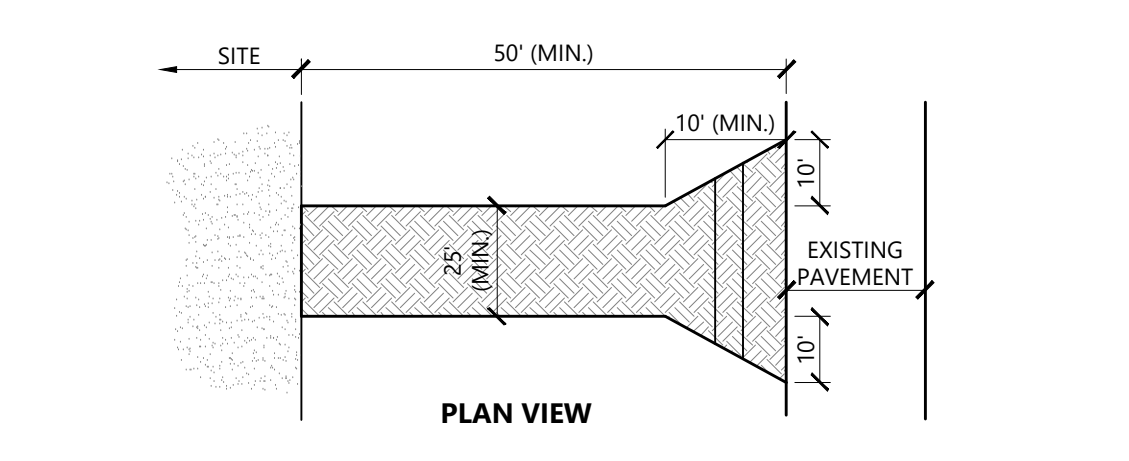
- NOTES**
1. SILT FENCE MAY BE REQUIRED IN ADDITION TO EROSION CONTROL TUBES WHERE SLOPES ARE GREATER THAN 2:1.
  2. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED ALONG EXISTING GRADES WITH ENDS TURNED UPSLOPE.

**Silt Fence Barrier** 1/16  
N.T.S. Source: VHB LD\_650



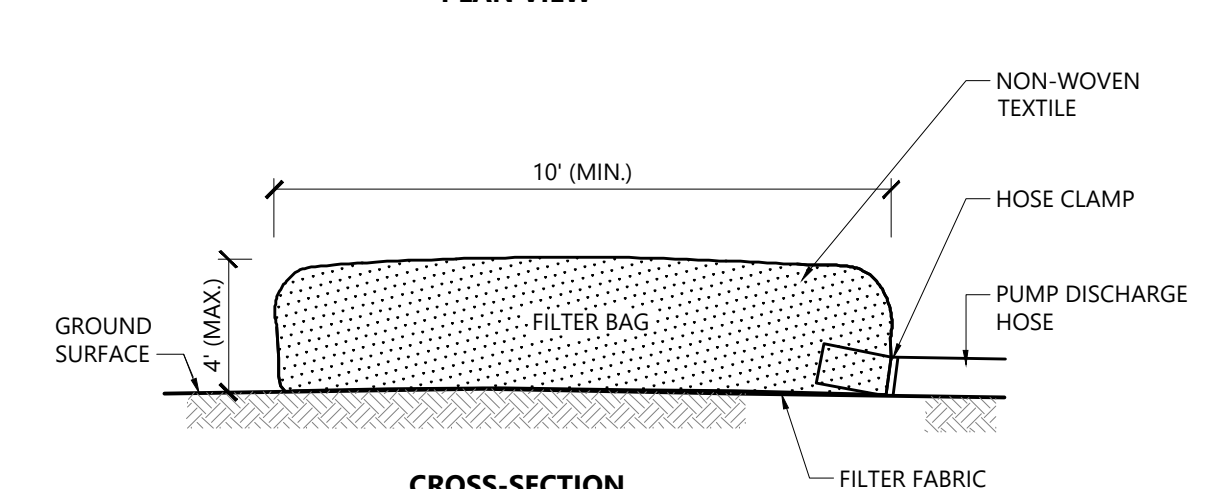
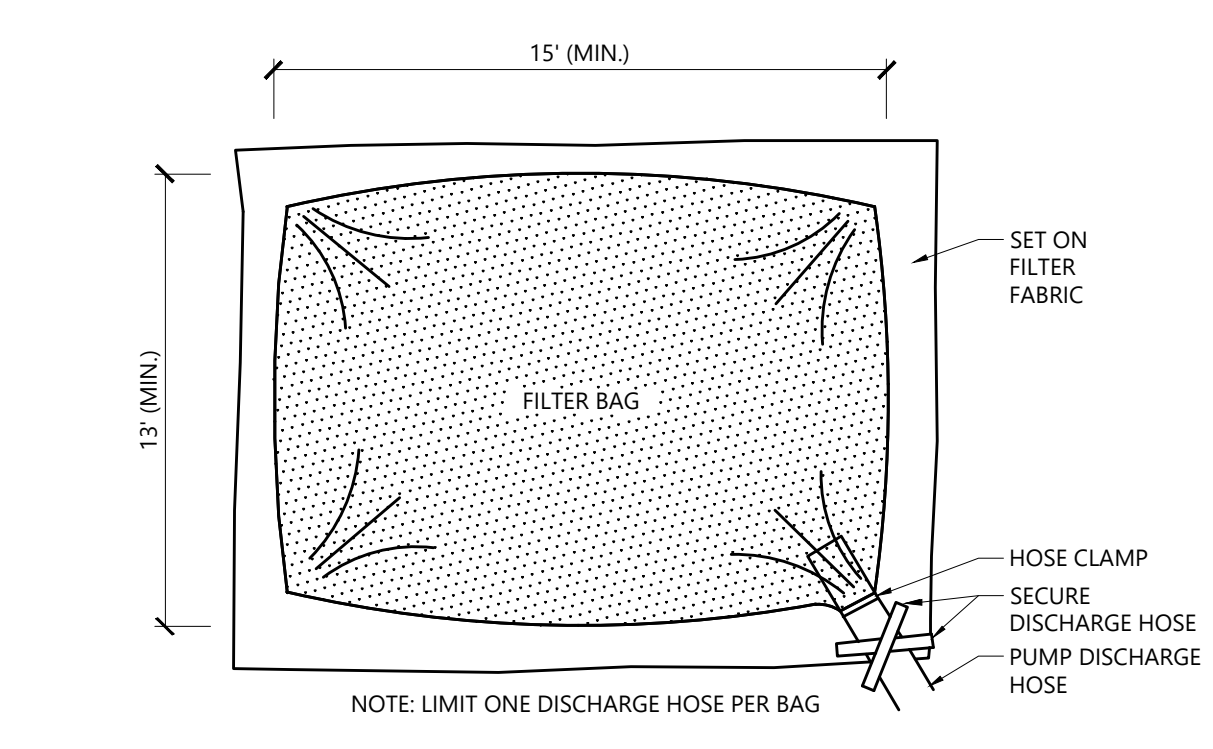
- Notes:**
1. ENCLOSE STRUCTURE WITH SILT SOCK IMMEDIATELY AFTER CATCH BASIN CONSTRUCTION. MAINTAIN UNTIL PAVING BINDER COURSE IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
  2. IF GRATE IS AGAINST EXISTING CURB THEN SILT SOCK IS TO BE PLACED AROUND THREE SIDES OF GRATE ONLY.
  3. GRATE TO BE PLACED OVER FILTER FABRIC.
  4. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
  5. SILT SOCK SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.

**Catch Basin Sediment Trap - Siltsock** 1/16  
N.T.S. Source: VHB LD\_658



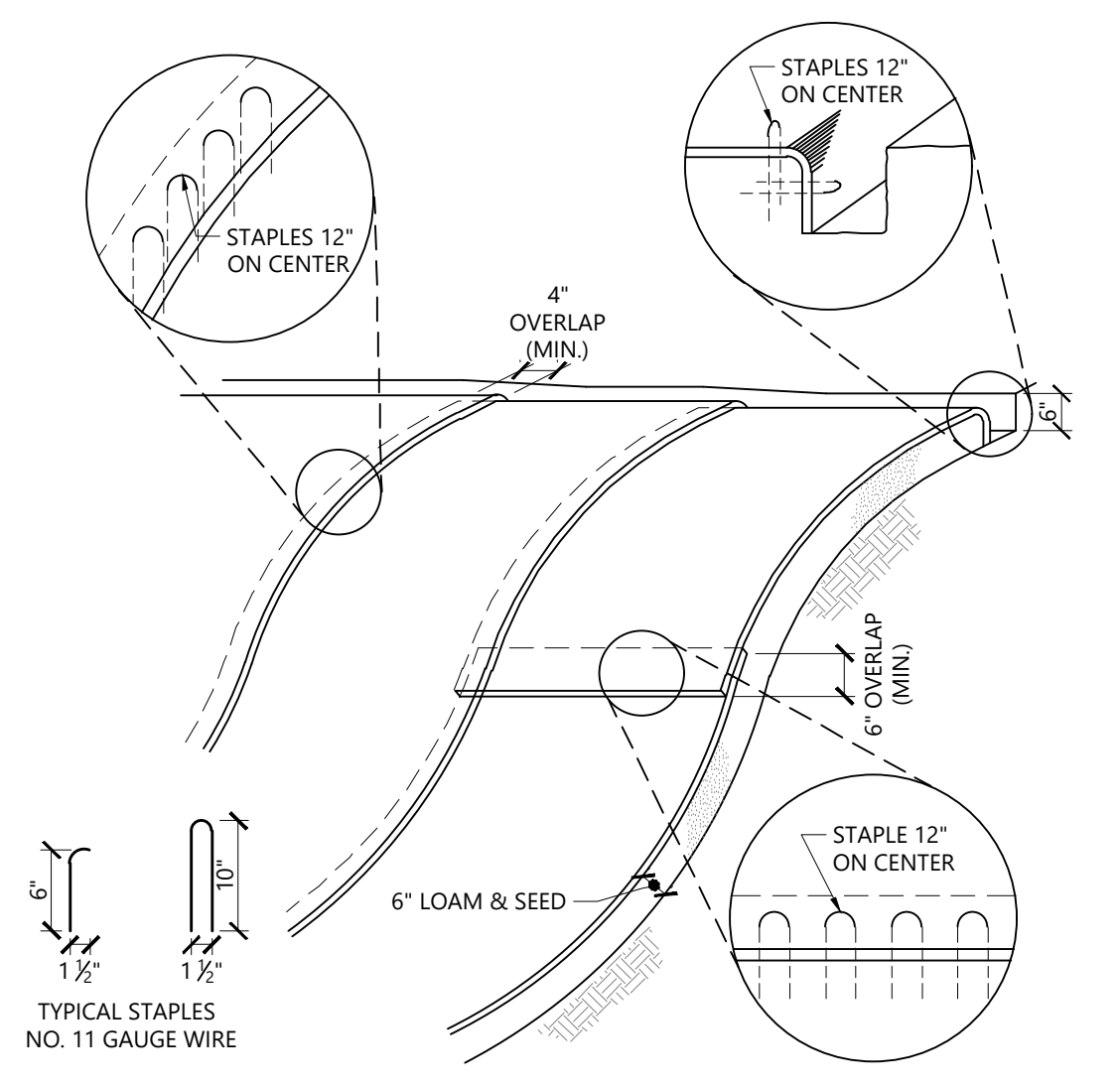
- NOTES**
1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENTS SHALL BE REMOVED BY VACUUM SWEEPING.
  3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. INSPECTION AND MAINTENANCE SHALL BE PERFORMED WEEKLY AND BEFORE AND AFTER STORM EVENTS.
  4. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

**Stabilized Construction Entrance/Exit** 7/19  
N.T.S. Source: VHB LD\_682



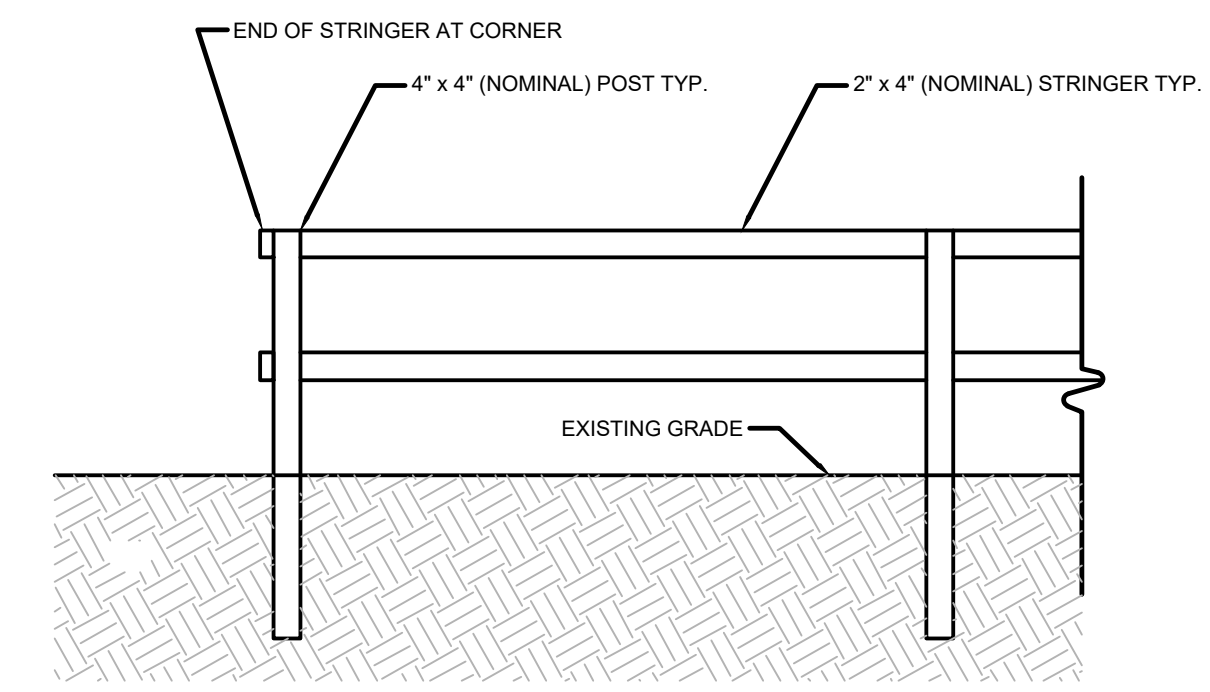
- NOTES**
1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  2. DEWATERING FILTER BAGS SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES. ENSURE DOWN GRADIENT SLOPE IS WELL VEGETATED.

**Dewatering Filter Bag** 1/16  
N.T.S. Source: VHB LD\_691

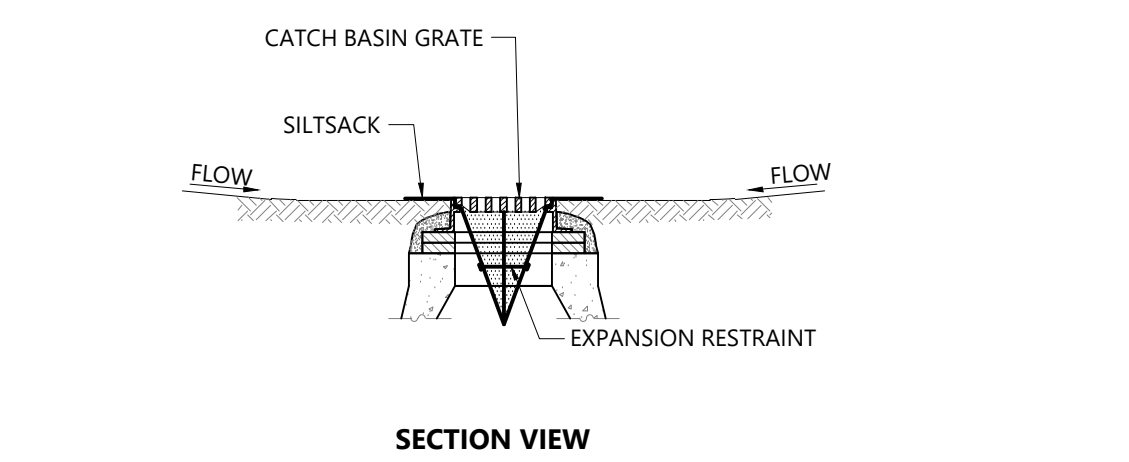
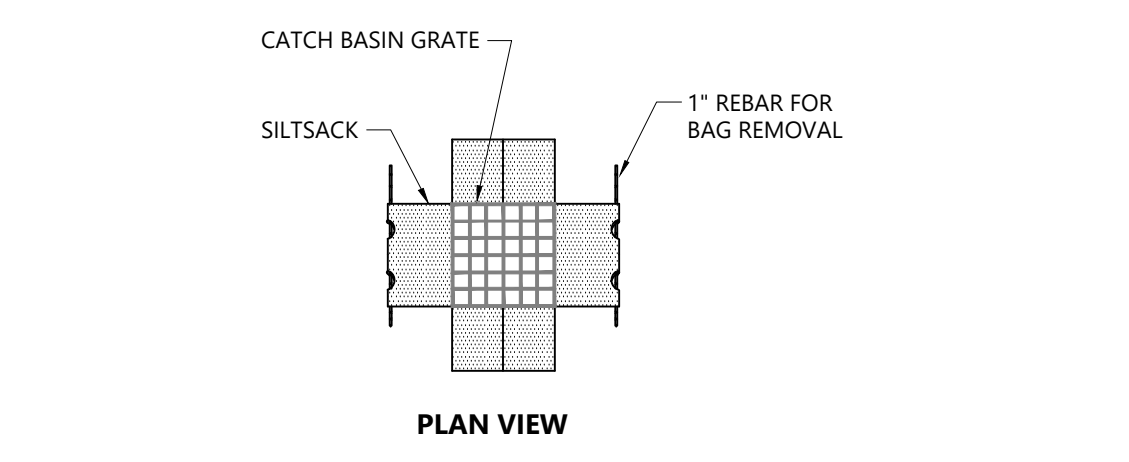


- NOTES**
1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
  2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
  3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
  4. WHEN BLANKETS MUST BE SPICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
  5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
  6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

**Erosion Control Blanket Slope Installation** 1/16  
N.T.S. Source: VHB LD\_680

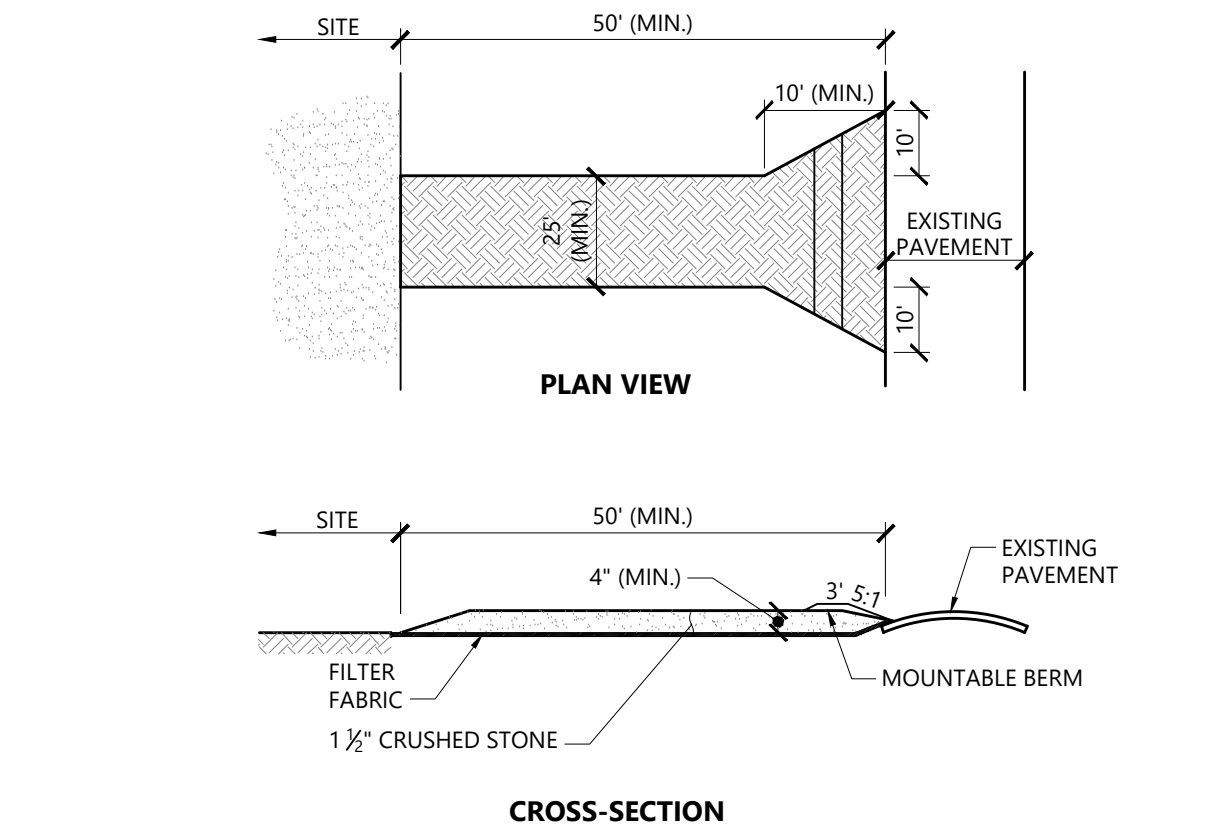


**Tree Protection Fence**  
N.T.S. Source: Wolf Landscape Architecture



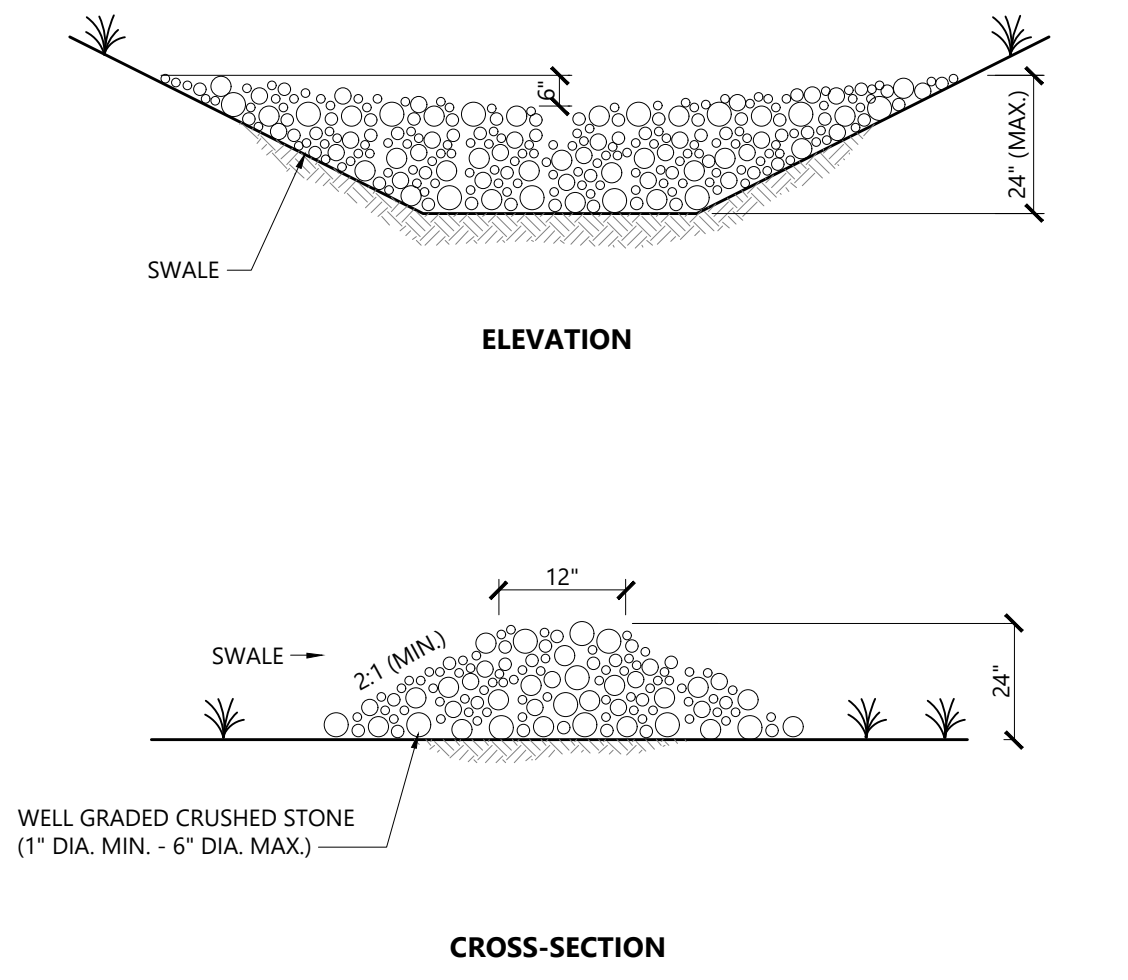
- NOTES**
1. INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
  2. GRATE TO BE PLACED OVER SILTSACK.
  3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

**Siltsack Sediment Trap** 1/16  
N.T.S. Source: VHB LD\_674



- NOTES**
1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
  3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

**Stabilized Construction Exit** 1/16  
N.T.S. Source: VHB LD\_682



- NOTES**
1. TOP OF DOWNGRADIENT CHECKDAM AND BOTTOM OF UPGRADIENT CHECKDAM TO BE SET AT THE SAME ELEVATION.
  2. STONE CHECKDAMS MAY BE REMOVED WHEN 90% OF THE VEGETATIVE COVER IS ESTABLISHED.

**Temporary Stone Checkdam**  
N.T.S. Source: VHB

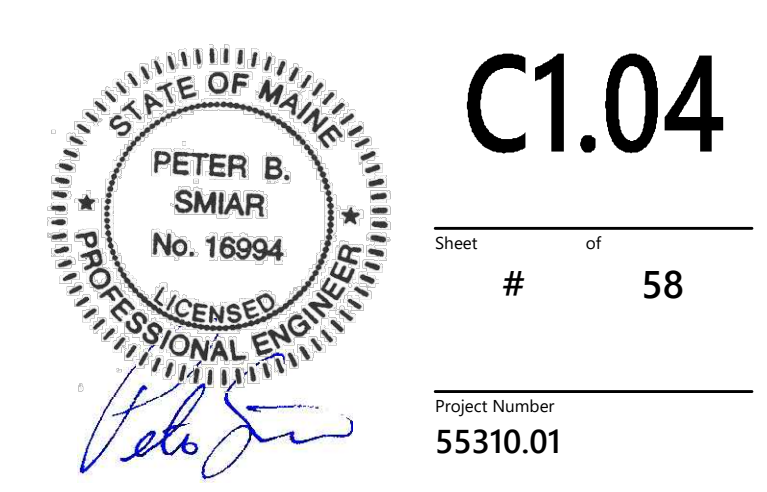
**Sugarloaf Mtn Corp  
West Mountain  
Expansion**  
5092 Access Road  
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

Designed by: **RWN** Checked by: **PS**  
Issued for: \_\_\_\_\_ Date: \_\_\_\_\_  
**Review** September 23, 2021

**Not For Construction**  
Drawing Title: **Erosion Prevention and Sediment Control Details**

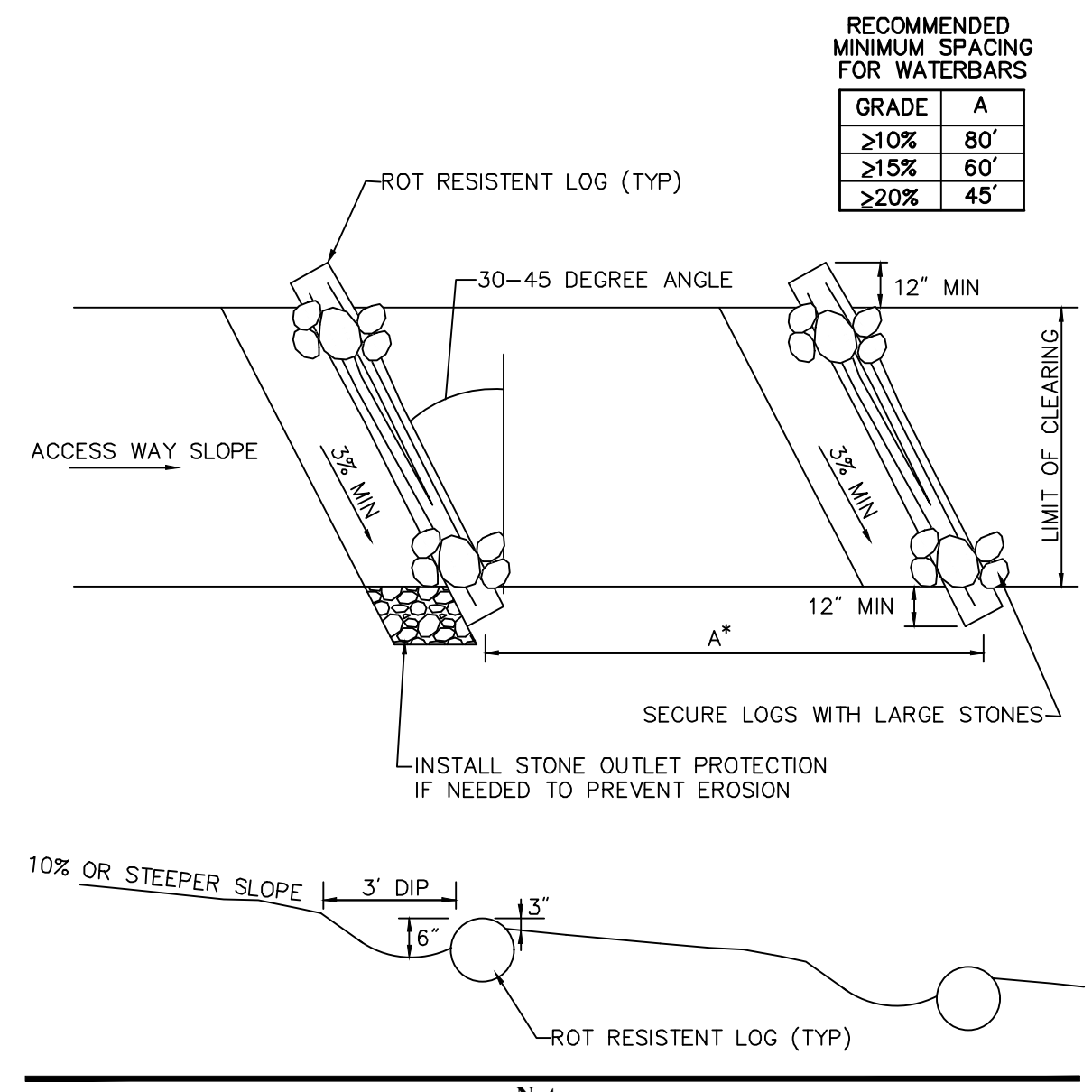
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Sheet # of **58**  
Project Number: **55310.01**



**C1.04**  
Sheet # of 58  
Project Number 55310.01

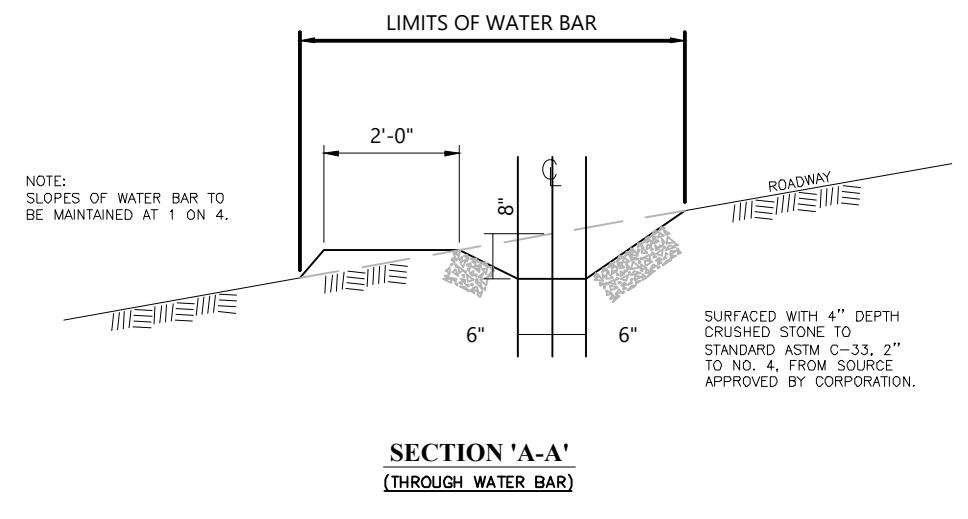


500 Southborough Drive  
Suite 105B  
South Portland, ME 04106  
207.889.3150



- Notes:**
1. WATERBARS SHOULD BE INSTALLED IN SECTIONS WITH SLOPES GREATER THAN OR EQUAL TO 10%.
  2. WATERBARS SHALL BE CONSTRUCTED WITH 10" DIAMETER MINIMUM PEELED LOGS, HELD IN PLACE WITH LARGE STONES. APPROPRIATE SPECIES INCLUDE SPRUCE, HEMLOCK, BEECH, AND OAK.
  3. CONTRACTOR TO OBSERVE THE CLEARINGS DURING A RAINSTORM TO DETERMINE IF ADDITIONAL WATERBARS OR ADJUSTMENTS TO WATERBARS ARE NEEDED.
  4. WATERBAR DESIGN AND SPACING PROVIDED FOR GUIDANCE TO CONTROL EROSION ALONG CROSS-COUNTRY CLEARINGS. THE CONTRACTOR SHALL DETERMINE IF OTHER APPROPRIATE MEASURES ARE REQUIRED TO CONTROL RUNOFF AND EROSION IN CLEARING AREAS.
  5. FOR WIDER LIMITS OF CLEARING MULTIPLE LOG LENGTHS MAY BE REQUIRED. ANCHOR ALL LOG ENDS WITH LARGE STONES AS SHOWN.

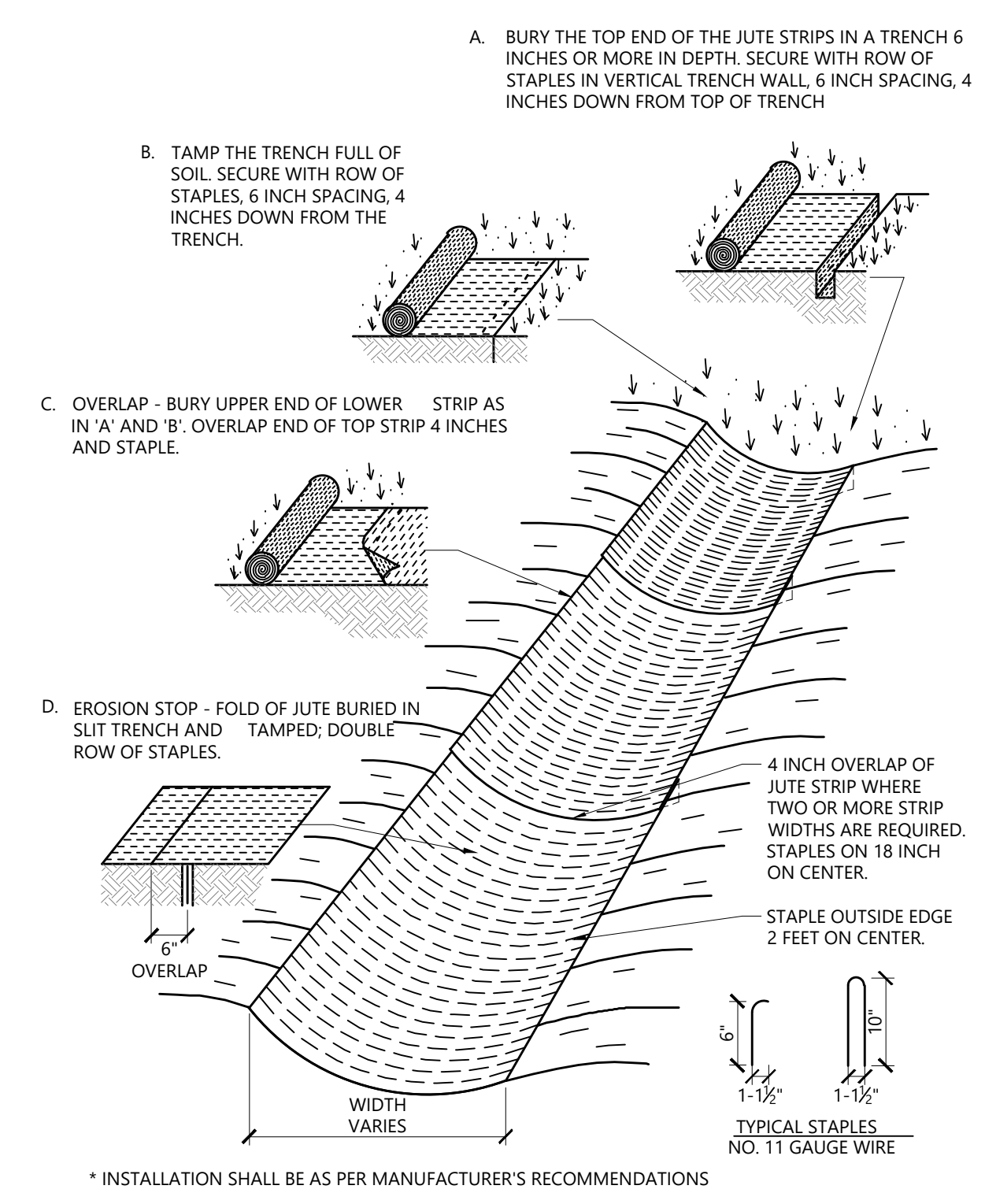
**Waterbars - For Cross-Country Utility Clearings ER-03**  
N.T.S. Source: VHB



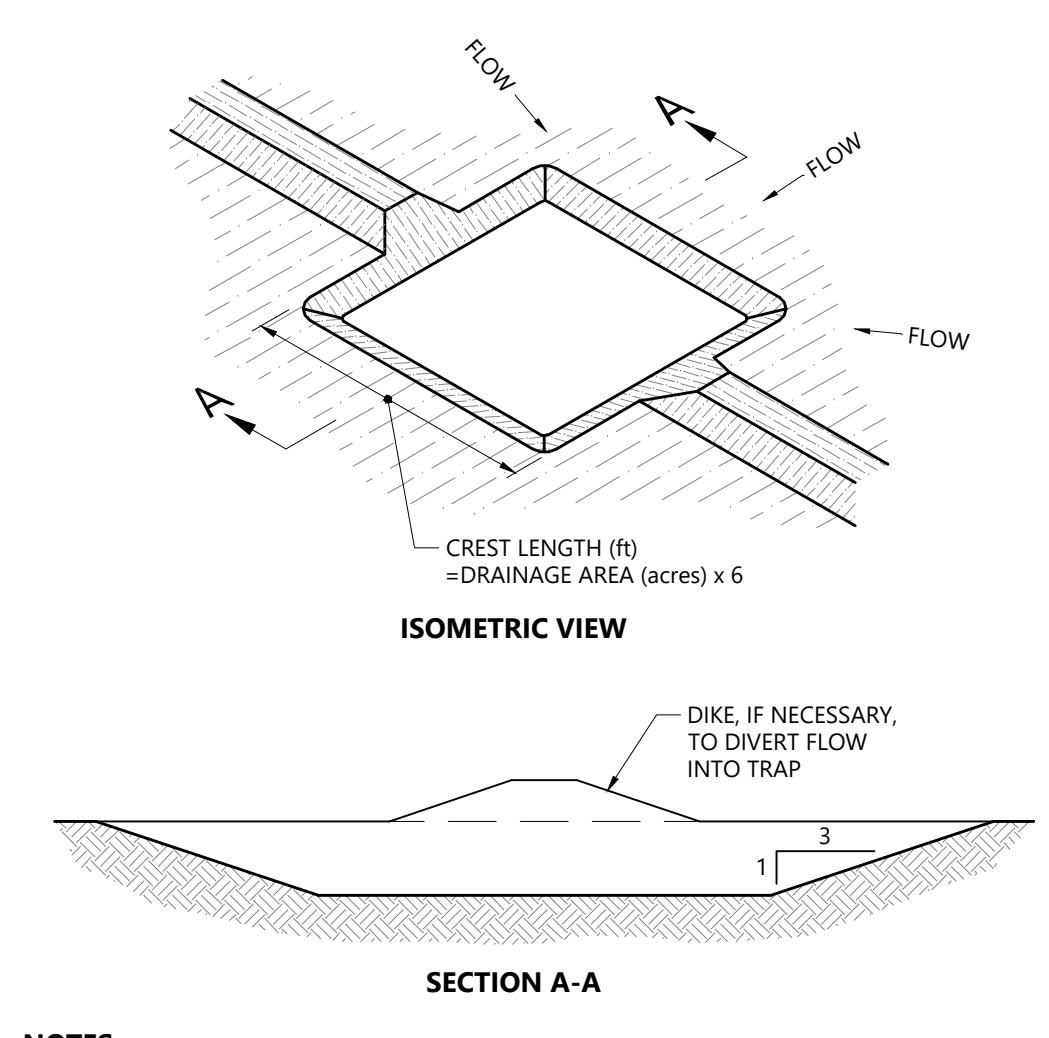
ROAD SLOPE PERCENT	WATER BAR PROPOSED
5	150
10	100
15 AND OVER	50

- Notes:**
1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
  2. STRIP EXISTING SOD FROM BASE OF DIVERSION RIDGE PRIOR TO PLACING FILL.
  3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
  4. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED.
  5. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL CONDITIONS ARE NOT ADEQUATE.
  6. INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.
  7. WATERBAR SLOPE SHALL NOT EXCEED 2% AS SHOWN.
  8. FEDERAL, STATE, AND/OR LOCAL REQUIREMENTS MAY OVERRIDE THESE SPECIFICATIONS AND/OR THE USE OF THIS MEASURE.

**Typical Water Bar Detail ER-04**  
N.T.S. Source: VHB LD...

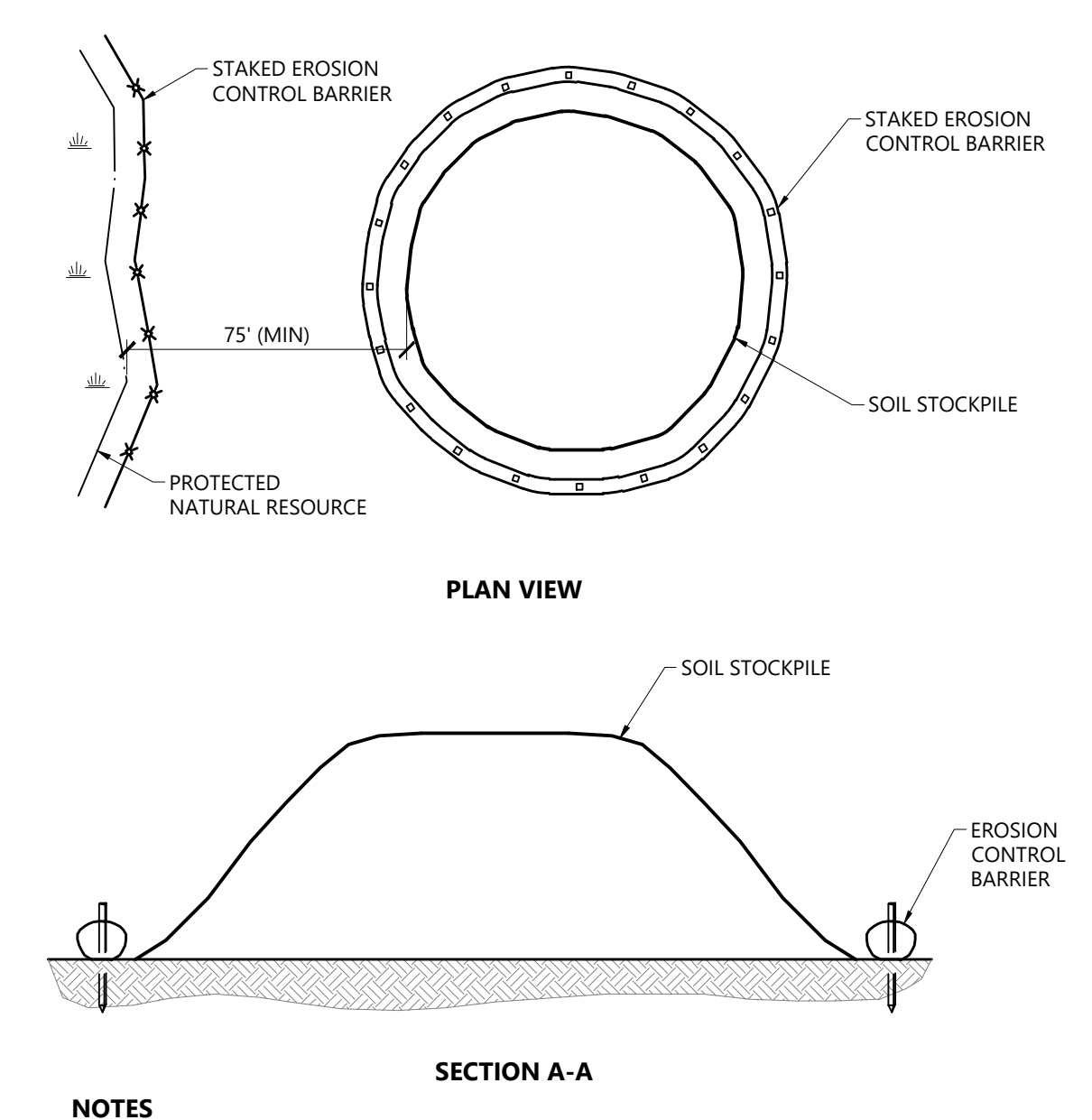


**Erosion Control Blanket Swale Installation 1/16**  
N.T.S. Source: VHB LD\_681



- NOTES:**
1. THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
  2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
  3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
  4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
  5. THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.
  6. THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
  7. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.
  8. TEMPORARY SEDIMENT TRAPS SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES, ENSURE DOWN GRADIENT SLOPE IS WELL VEGETATED.

**Temporary Sediment Trap**  
N.T.S. Source: VHB



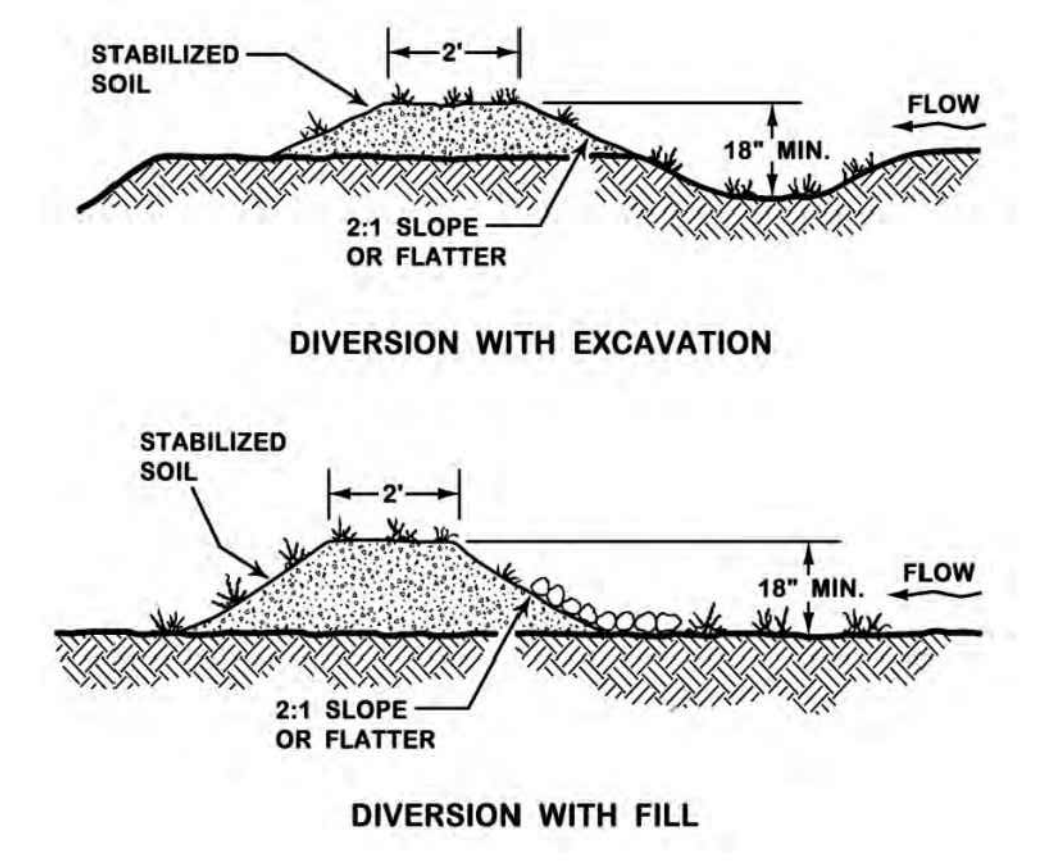
- NOTES:**
1. STOCKPILES SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES.
  2. STOCKPILES REMAINING UNSTABILIZED FOR A PERIOD OF MORE THAN 15 DAYS SHALL BE TEMPORARILY MULCHED.
  3. SOIL STOCKPILES SHALL BE INSPECTED WEEKLY AT A MINIMUM AND BEFORE AND WITHIN 24 HOURS AFTER ALL STORM EVENTS (RAINFALL). IF REPAIR IS REQUIRED, REPAIR WORK SHALL BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPs OR SIGNIFICANT REPAIR OF BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

**Soil Stockpile Sediment Control**  
N.T.S. Source: VHB

MULCH MATERIAL AND APPLICATION			
MULCH MATERIAL	QUALITY STANDARDS	PER 1,000 SQ.-FT.	DEPTH OF APPLICATION
WOOD CHIPS OR SHAVINGS	AIR DRIED, FREE OF OBJECTIONABLE MATERIAL	500 - 900 LBS	10 - 20 TONS 2-4" 2"
WOOD FIBER CELLULOSE (PARTIALLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT	50 LBS	2,000 LBS 1/4"
GRAVEL-CROPPED STONE OR SLAG	WASHED; SIZE 2B OR 3A = 1/2"	9 CY	405 CY 3"
HAY OR STRAW	AIR-DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS	90 - 100 LBS 2-3 BALES	2 TONS (100-120 BALES) COVER ABOUT 90% SURFACE
COMPOST	UP TO 3" PIECES, MODERATELY TO HIGHLY STABLE	3 - 9 CY	3 - 9 CY 1-3"
Erosion Control Mix	WELL-GRADED MIXTURE OF PARTICLE SIZES, ORGANIC CONTENT BETWEEN 80-100% DRY WEIGHT, PARTICLE SIZE SHALL PASS # 6" SCREEN (100%)	**Slope 2(H):1(V) = 2 inch depth plus additional 1/2 inch depth per 20 ft. of slope up to 100 ft. **Slope between 3(H):1(V) and 2(H):1(V) = 4 inch depth plus additional 1/2 inch per 20 ft. of slope up to 100 ft. ***Slope steeper than 2(H):1(V) applicability to specific site and mulch depth to be reviewed and approved prior to use by OPSC or EPSC Specialist	

- Notes:**
1. APPLY TACKIFIER AS NEEDED TO MINIMIZE POTENTIAL FOR MULCH TO BLOW AWAY.
  2. MULCH MUST NOT CONTAIN INVASIVE PLANT SPECIES. (SEEDS OR SEEDLINGS)
  3. TACKIFIER MAY BE WATER, NETTING, OR SIMILAR.

**Mulch Table EV-08**  
N.T.S. Source: VHB LD...



- NOTES:**
1. RUNOFF SHALL BE DIVERTED FROM STORMWATER ROADSIDE BUFFERS THAT ARE CONSTRUCTED ON FILL OR RESHAPED SLOPES UNTIL A DENSE SOD IS ESTABLISHED, OR THOSE AREAS MUST BE PROTECTED BY A 3" LAYER OF EROSION CONTROL MIX OR OTHER WOODWASTE MATERIAL APPROVED BY MAINE DEP BEFORE STORMWATER IS DIRECTED TO IT.
  2. ALL DIVERSION DIKES AND BERMS SHOULD BE COMPACTED AND STABILIZED WITH MATERIAL THAT IS APPROPRIATE FOR THE SLOPE AND EXPECTED RUNOFF, SUCH AS EROSION CONTROL BLANKETS, GRAVEL, OR RIPRAP.

**Runoff Diversion**  
N.T.S. Source: Maine DEP Erosion and Sediment Control BMP Manual

**Sugarloaf Mtn Corp West Mountain Expansion**  
5092 Access Road  
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

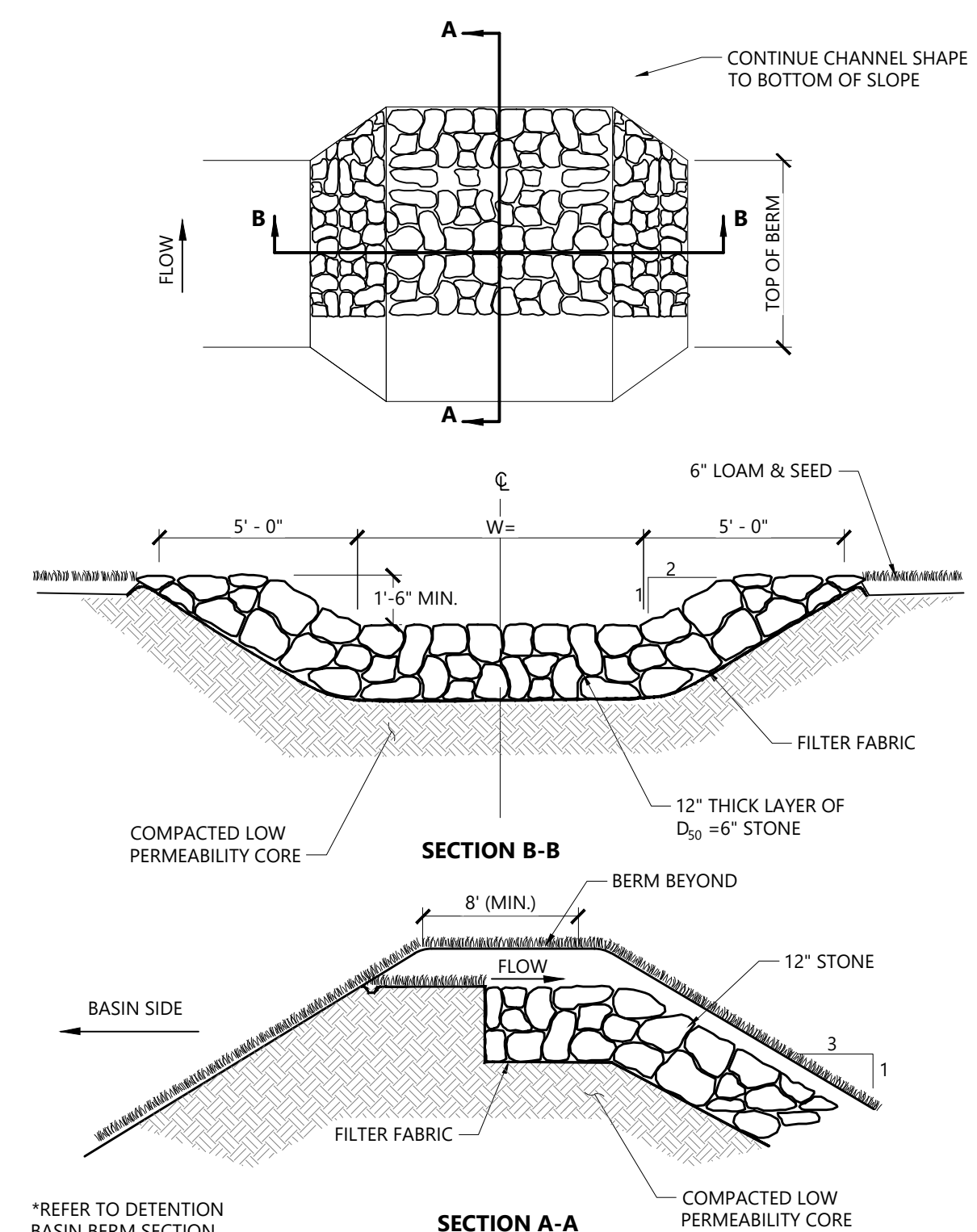
Not For Construction  
Drawing Title  
**Erosion Prevention and Sediment Control Details**

Designed by: **RWN** Checked by: **PS**  
Issued for: \_\_\_\_\_ Date: \_\_\_\_\_  
Review: \_\_\_\_\_ September 23, 2021

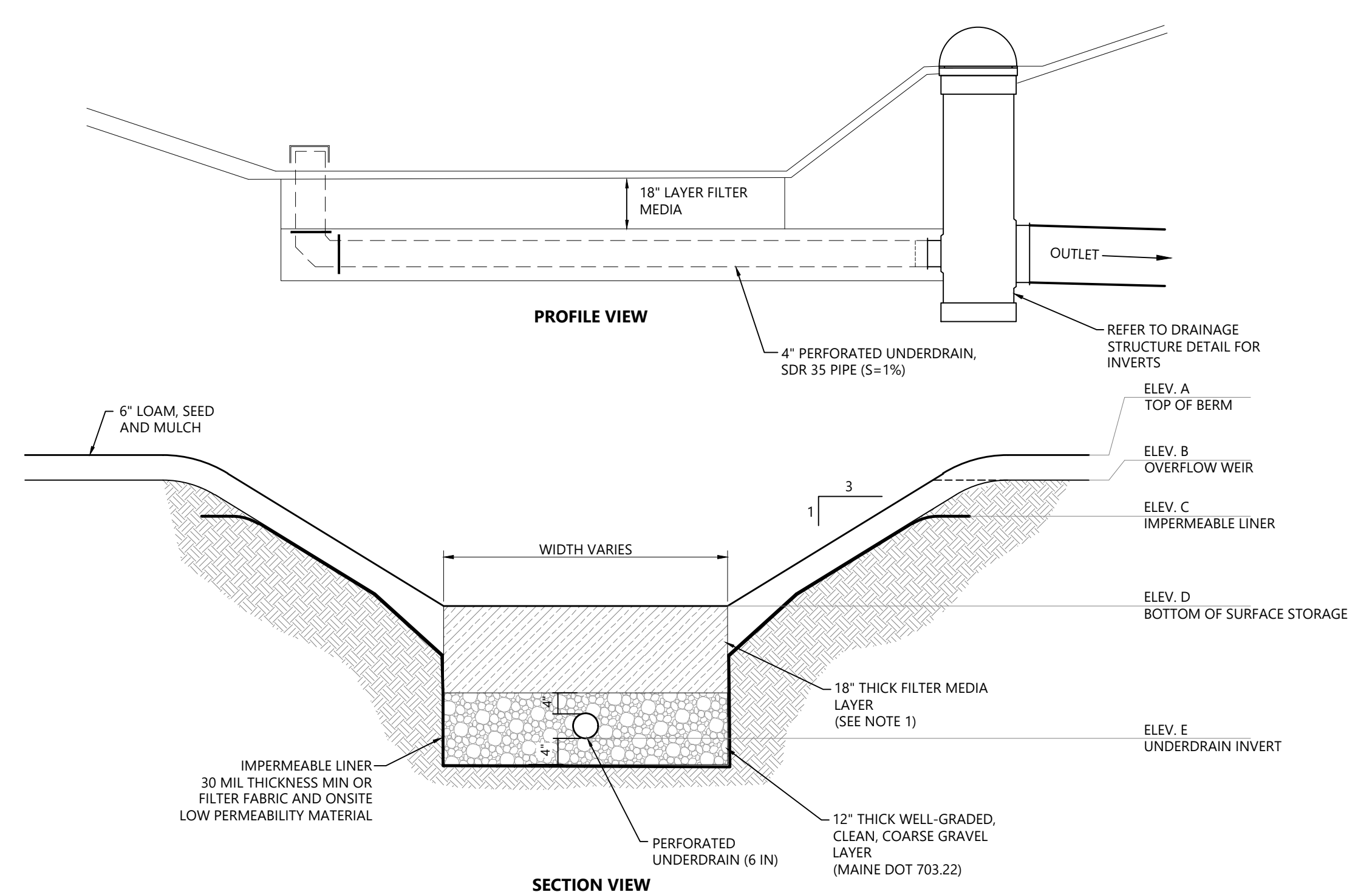
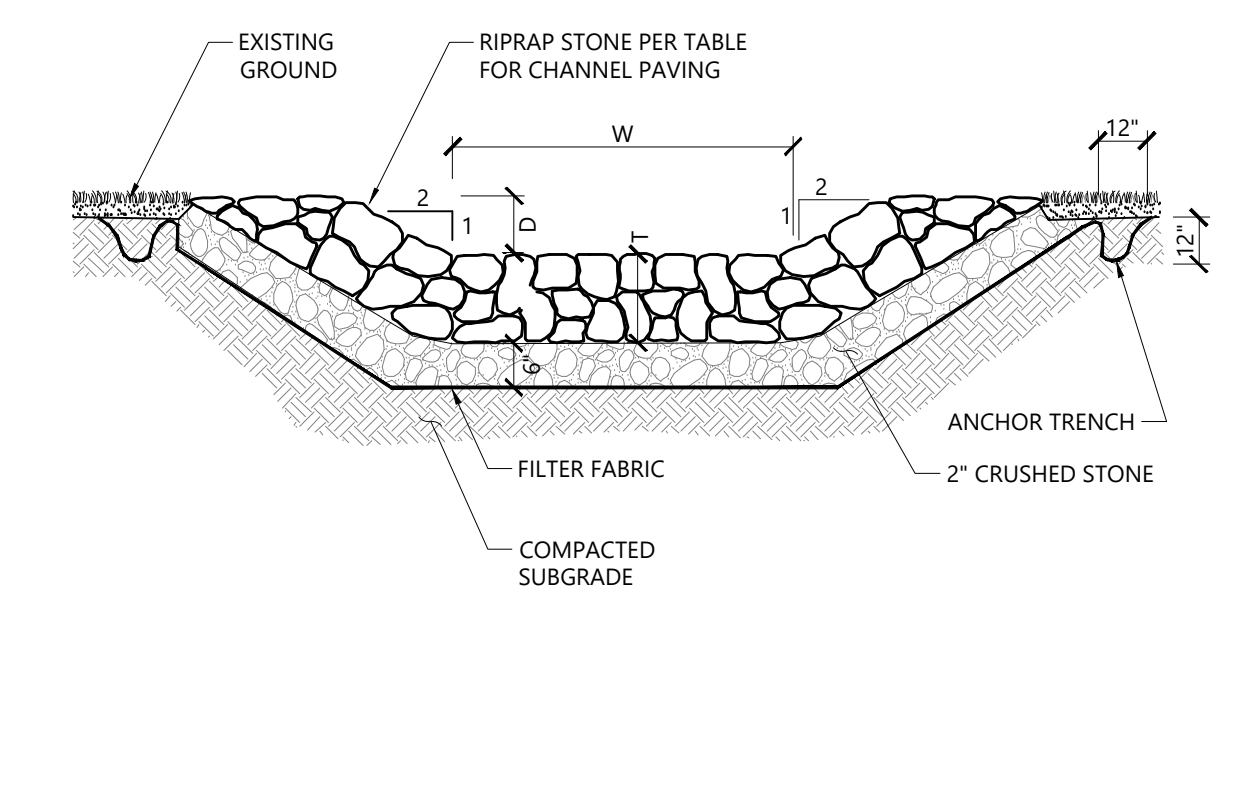
Drawing Title  
**Erosion Prevention and Sediment Control Details**

Drawing Number  
**C1.05**

Sheet # of 58  
Project Number  
55310.01



CHANNEL DESIGNATION	W	T	D	STONE DIA. (D <sub>50</sub> )
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VSF #	A	B	C	D	E
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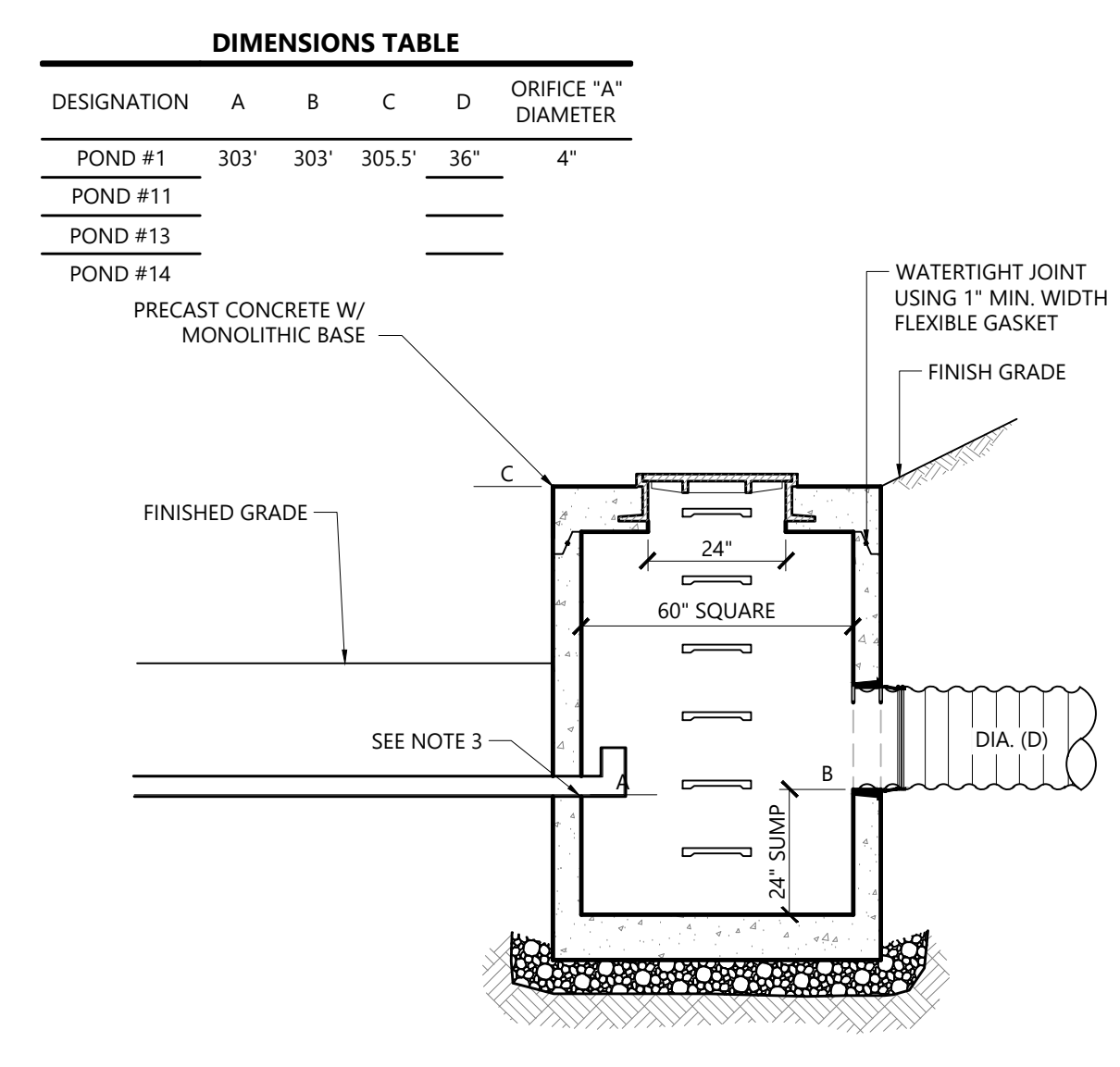
  

WEIGHT	PERCENT PASSING BY
NO. 4	75-95
NO. 10	60-90
NO. 40	35-85
NO. 200	20-70
200 (CLAY SIZE)	< 2.0

**Overflow Stone Spillway** 1/16  
N.T.S. Source: VHB LD\_161

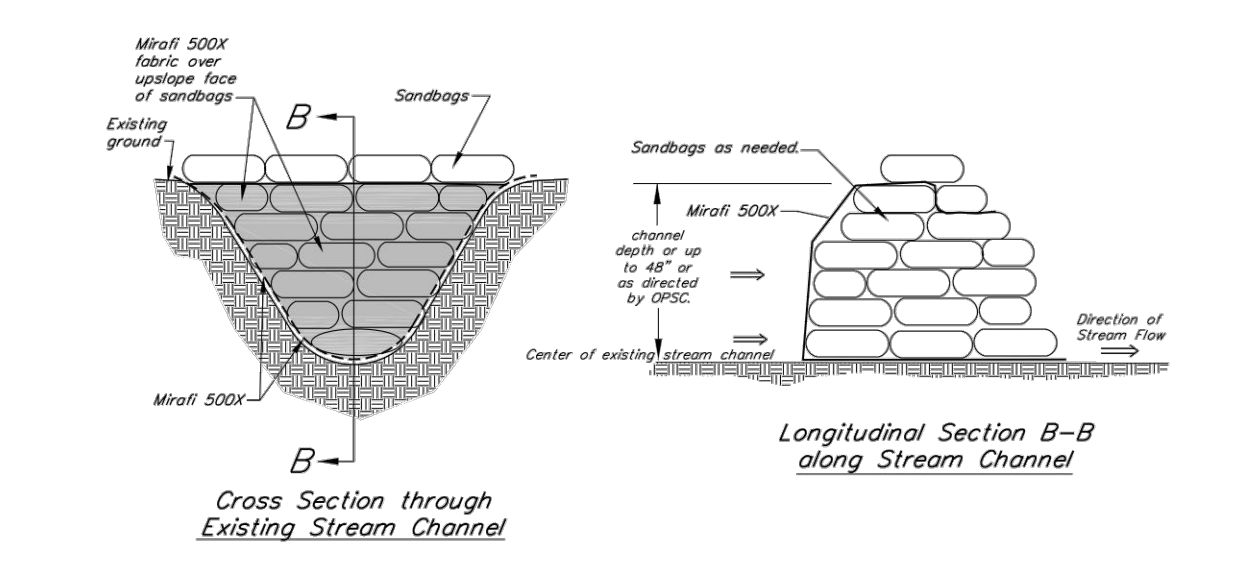
**Riprap Channel** 1/16  
N.T.S. Source: VHB LD\_170

**Vegetated Soil Filter (VSF) Detail** 1/16  
N.T.S. Source: VHB

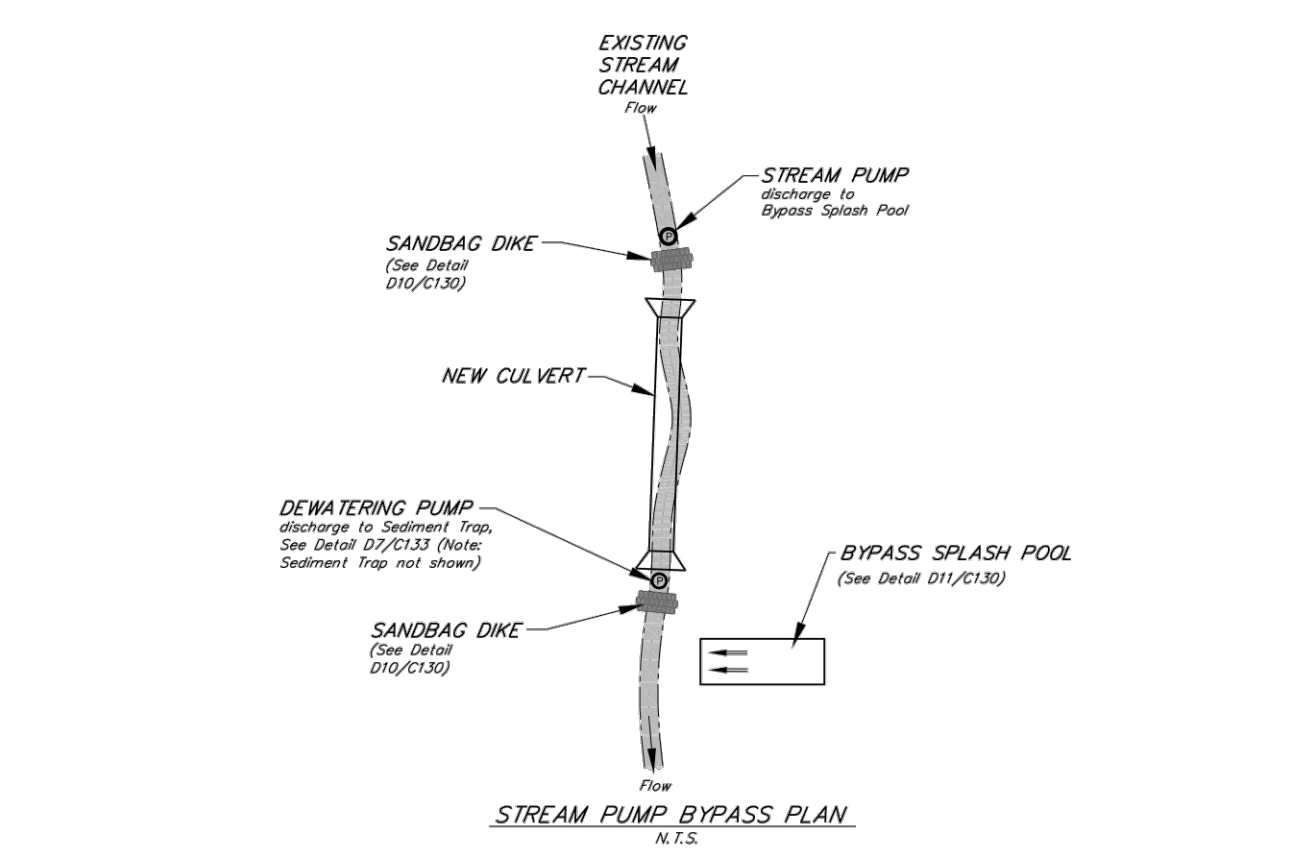


- NOTES:**
- ALUMINUM "DROP-FRONT" MANHOLE STEPS, CAST IN PLACE, SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
  - JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PERFORMED BUTYL RUBBER
  - MANHOLE OPENING SHALL BE SET IN STRUCTURE COVER AS ALIGNED WITH LADDER ACCESS.

**Wet Pond Outlet Control Structures** 1/16  
N.T.S. Source: VHB LD\_171

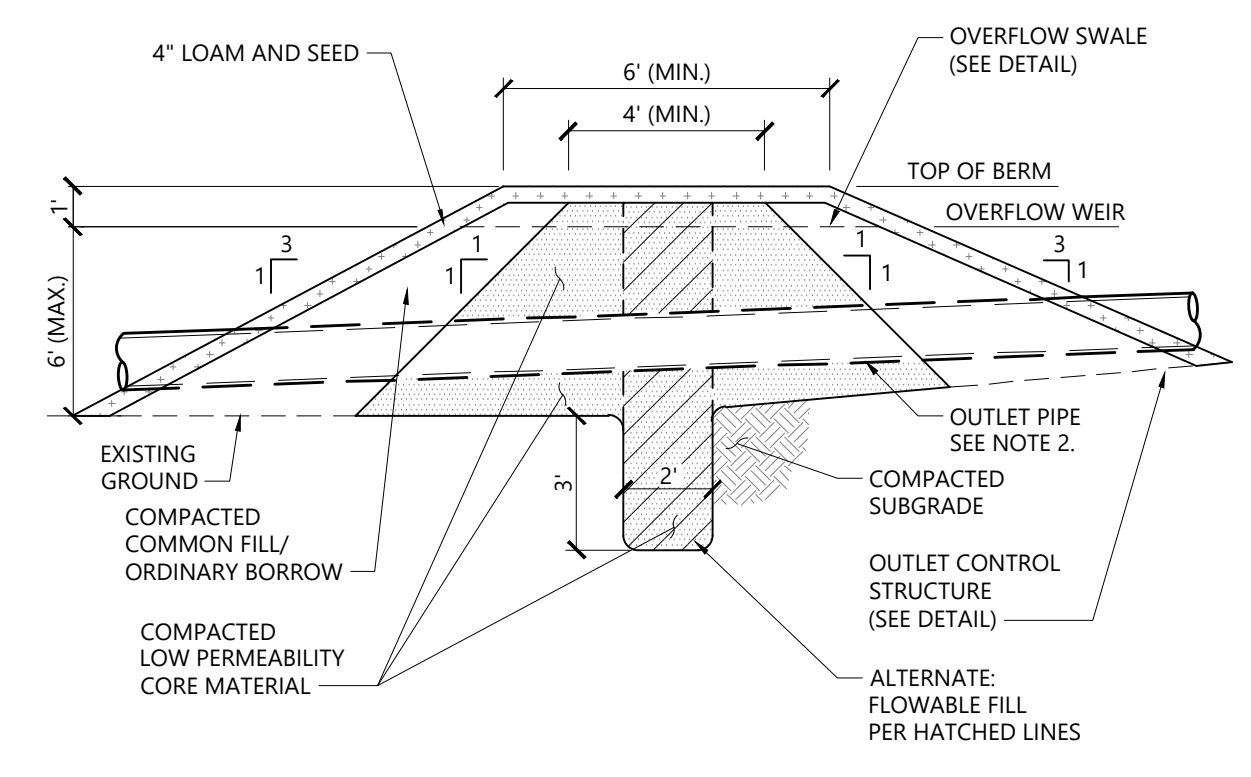


**Stream Channel Sandbag Dike Detail** EV-02  
N.T.S. Source: VHB LD\_



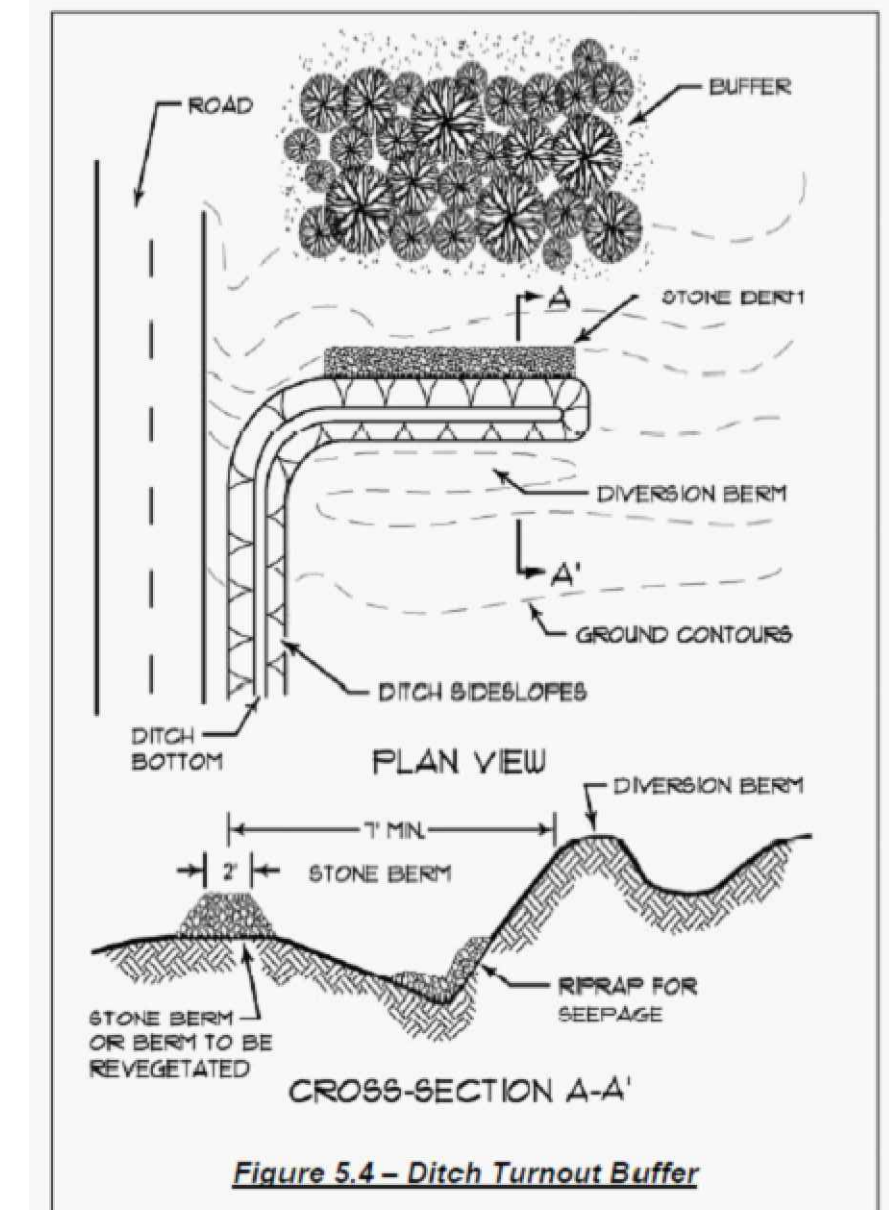
- STREAM PUMP BYPASS NOTES:**
- When excavation work is performed in a stream channel with an active stream flow, the stream flow shall be collected and pumped downstream from the work area in accordance with the Stream Culvert Installation Procedure Plan, notes, and details. A sandbag dike shall be installed in the stream channel on the up-drift side of the work area. The flow collected above the sandbag dike shall be pumped to a storm pool on the down-drift side of the work area. The storm pool shall be located at a location approved by the DEP and/or the EPSIC applicant such that the flow returning from the storm pool to the stream channel free through rock dikes or baffle.
  - The Contractor shall have a pre-construction meeting with the EPSIC Specialist and the DEP to review the Erosion Prevention and Sediment Control measures and procedures to be employed for the work in the stream bed and the planned de-watering procedures. This meeting shall occur at least 2 days prior to the stream culvert installation.
  - Whenever any work within a stream bed shall be done during low flow conditions, the Contractor shall comply with the work schedule with the EPSIC at least 48 hours prior to the work. New culvert, traps at outlets and channels being (if required) shall be completed in one day. If work can not be completed in one day, the stream system must be returned overnight.
  - Contractor shall have all equipment onsite the day before construction, including a backup pump with a capacity of 2 times the estimated flow. Sediment trap(s) for trench de-watering shall be constructed the day before.
  - Install sandbag dike at upstream and downstream ends of proposed culverts. Install pumps at upstream side of dike. Pump capacity shall be 2 times estimated flow. Keep water end of pump piping 12" off bottom of the stream, when possible.
  - Use a separate de-watering pump for pumping out sediment laden water in excavation for culvert. Pump all sediment laden water into sediment bag or trap. Frequently clean out sediment trap during construction.

**Stream Culvert Installation Procedure** EV-07  
N.T.S. Source: VHB LD\_



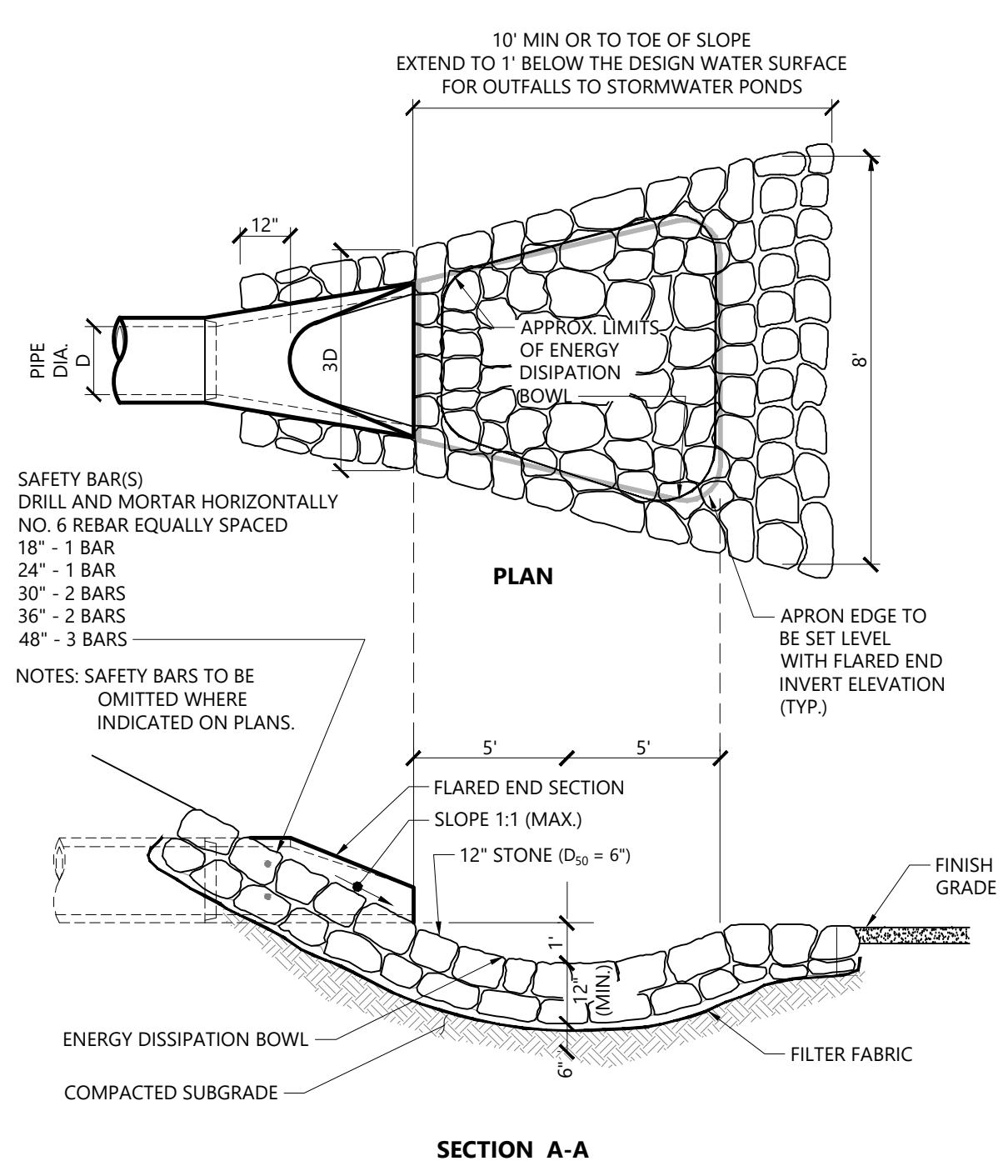
- NOTES**
- LOW PERMEABILITY CORE MATERIAL IS CONTINUOUS FOR THE FULL LENGTH OF THE EMBANKMENT.
  - WHERE PIPES PENETRATE THE LOW PERMEABILITY CORE, PIPE SHALL BE BEDDED IN THE LOW PERMEABILITY CORE MATERIAL.
  - THE BERM SECTION IS SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

**Detention Basin Berm Section** 1/16  
N.T.S. Source: VHB LD\_160



- Stone Berm Specifications:** The stone berm to which the ditch turn-out delivers the runoff must be at least 20 feet in length and must be constructed along the contour. It must be at least one-foot high and two feet across the top with 2:1 side slopes.
- Stone Size:** The stone must be coarse enough that it will not clog with sediment. Stone for stone bermed level top spreaders must consist of sound durable rock that will not disintegrate by exposure to water or weather. Fieldstone, rough quarried stone, blasted ledge rock or tailings may be used. The rock must be well graded with a median size of approximately 3 inches and a maximum size of 6 inches. See Table 5.4 above.

**Ditch Turnout Buffer** Source: MDEP



**Flared End Section (FES) with Stone Protection** 1/16  
N.T.S. Source: VHB LD\_134

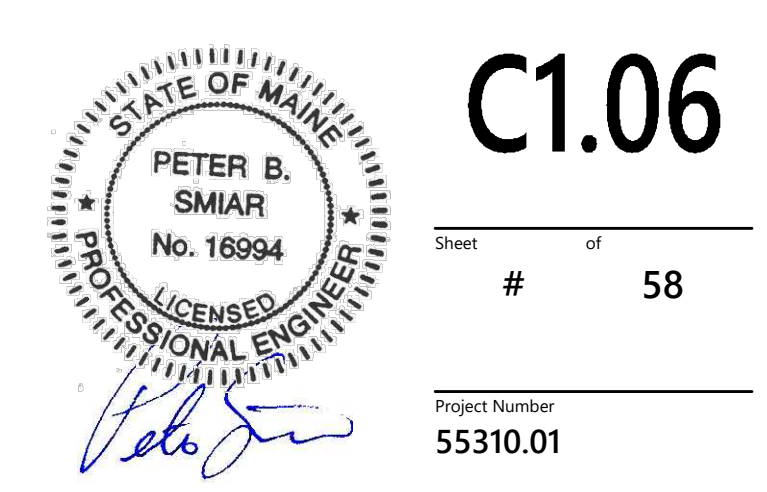
**Sugarloaf Mtn Corp West Mountain Expansion**  
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Carrabassett Valley, ME 04947

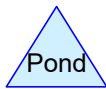
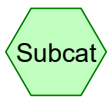
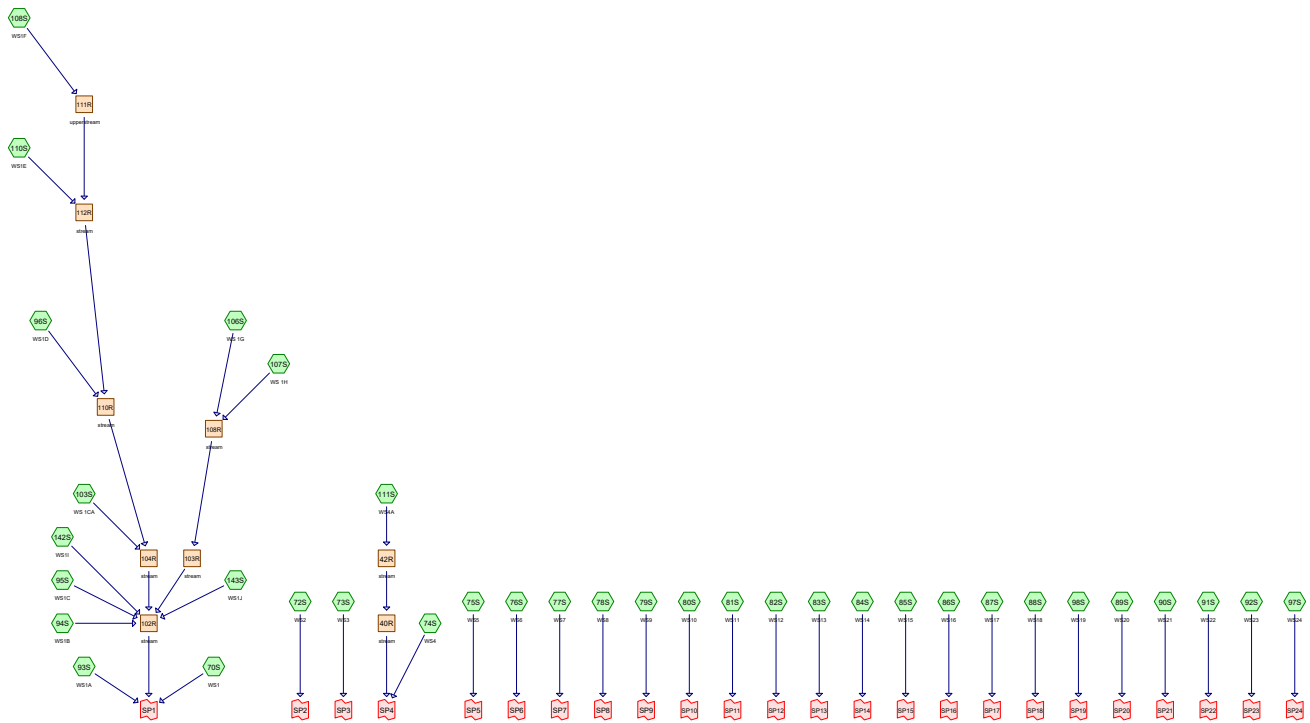
No.	Revision	Date	App'd.

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Issued for: \_\_\_\_\_ Date: \_\_\_\_\_  
Review: \_\_\_\_\_ September 23, 2021

**Not For Construction**  
Drawing Title: **Stormwater Details**  
Drawing Number: \_\_\_\_\_

**C1.06**  
Sheet # of 58  
Project Number: 55310.01





**Routing Diagram for 55310.01-West Mountain-EX**  
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## Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	Type II 24-hr		Default	24.00	1	2.00	2
2	2-Year	Type II 24-hr		Default	24.00	1	2.40	2
3	10-Year	Type II 24-hr		Default	24.00	1	3.40	2
4	25-Year	Type II 24-hr		Default	24.00	1	4.20	2

## 55310.01-West Mountain-EX

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### Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
195.470	70	Existing Woods, Good, HSG C (74S, 76S, 77S, 79S, 81S, 82S, 83S, 84S, 85S, 87S, 88S, 89S, 90S, 91S, 92S, 96S, 97S, 98S, 106S, 107S, 108S, 110S, 111S, 142S, 143S)
286.138	77	Existing Woods, Good, HSG D (70S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 98S, 103S, 106S, 107S, 108S, 110S, 111S, 142S, 143S)
6.147	98	Existing impervious, HSG C (89S, 96S, 108S, 110S)
12.874	98	Existing impervious, HSG D (70S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 94S, 95S, 96S, 97S, 98S, 103S, 106S, 108S, 110S, 142S, 143S)
55.507	71	Existing meadow, non-grazed, HSG C (74S, 76S, 77S, 79S, 81S, 82S, 83S, 84S, 85S, 87S, 88S, 89S, 90S, 91S, 92S, 96S, 97S, 98S, 106S, 107S, 108S, 110S, 111S, 143S)
73.056	78	Existing meadow, non-grazed, HSG D (70S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 98S, 103S, 106S, 107S, 108S, 110S, 111S, 143S)
<b>629.192</b>	<b>75</b>	<b>TOTAL AREA</b>

**55310.01-West Mountain-EX**

Type II 24-hr 1-Year Rainfall=2.00"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

<b>Subcatchment70S: WS1</b>	Runoff Area=3.816 ac 0.50% Impervious Runoff Depth=0.45" Flow Length=1,200' Tc=20.2 min CN=77 Runoff=1.61 cfs 0.143 af
<b>Subcatchment72S: WS2</b>	Runoff Area=4.825 ac 1.45% Impervious Runoff Depth=0.45" Flow Length=1,847' Tc=44.0 min CN=77 Runoff=1.17 cfs 0.180 af
<b>Subcatchment73S: WS3</b>	Runoff Area=1.513 ac 4.49% Impervious Runoff Depth=0.48" Flow Length=681' Tc=18.2 min CN=78 Runoff=0.75 cfs 0.061 af
<b>Subcatchment74S: WS4</b>	Runoff Area=20.325 ac 1.41% Impervious Runoff Depth=0.41" Flow Length=3,739' Tc=18.0 min CN=76 Runoff=8.21 cfs 0.701 af
<b>Subcatchment75S: WS5</b>	Runoff Area=3.053 ac 0.39% Impervious Runoff Depth=0.45" Flow Length=1,271' Tc=33.9 min CN=77 Runoff=0.89 cfs 0.114 af
<b>Subcatchment76S: WS6</b>	Runoff Area=29.113 ac 0.99% Impervious Runoff Depth=0.41" Flow Length=4,403' Tc=38.7 min CN=76 Runoff=6.92 cfs 1.004 af
<b>Subcatchment77S: WS7</b>	Runoff Area=26.547 ac 0.94% Impervious Runoff Depth=0.41" Flow Length=4,636' Tc=49.7 min CN=76 Runoff=5.26 cfs 0.915 af
<b>Subcatchment78S: WS8</b>	Runoff Area=0.343 ac 19.24% Impervious Runoff Depth=0.60" Flow Length=327' Tc=1.4 min CN=81 Runoff=0.40 cfs 0.017 af
<b>Subcatchment79S: WS9</b>	Runoff Area=8.117 ac 2.27% Impervious Runoff Depth=0.38" Flow Length=2,783' Tc=50.5 min CN=75 Runoff=1.41 cfs 0.258 af
<b>Subcatchment80S: WS10</b>	Runoff Area=0.758 ac 3.56% Impervious Runoff Depth=0.48" Flow Length=424' Tc=14.8 min CN=78 Runoff=0.43 cfs 0.031 af
<b>Subcatchment81S: WS11</b>	Runoff Area=16.815 ac 1.46% Impervious Runoff Depth=0.38" Flow Length=4,402' Tc=80.4 min CN=75 Runoff=2.08 cfs 0.534 af
<b>Subcatchment82S: WS12</b>	Runoff Area=9.755 ac 2.26% Impervious Runoff Depth=0.38" Flow Length=2,300' Tc=34.7 min CN=75 Runoff=2.22 cfs 0.310 af
<b>Subcatchment83S: WS13</b>	Runoff Area=22.285 ac 1.05% Impervious Runoff Depth=0.32" Flow Length=6,015' Tc=100.4 min CN=73 Runoff=1.86 cfs 0.595 af
<b>Subcatchment84S: WS14</b>	Runoff Area=3.587 ac 5.07% Impervious Runoff Depth=0.38" Flow Length=1,401' Tc=32.5 min CN=75 Runoff=0.85 cfs 0.114 af
<b>Subcatchment85S: WS15</b>	Runoff Area=37.339 ac 0.18% Impervious Runoff Depth=0.32" Flow Length=6,278' Tc=92.0 min CN=73 Runoff=3.31 cfs 0.997 af
<b>Subcatchment86S: WS16</b>	Runoff Area=0.416 ac 18.75% Impervious Runoff Depth=0.60" Flow Length=267' Tc=11.9 min CN=81 Runoff=0.34 cfs 0.021 af



**55310.01-West Mountain-EX***Type II 24-hr 1-Year Rainfall=2.00"*

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<b>Subcatchment87S: WS17</b>	Runoff Area=7.386 ac 2.63% Impervious Runoff Depth=0.32" Flow Length=2,290' Tc=37.1 min CN=73 Runoff=1.23 cfs 0.197 af
<b>Subcatchment88S: WS18</b>	Runoff Area=1.599 ac 1.31% Impervious Runoff Depth=0.29" Flow Length=978' Tc=26.1 min CN=72 Runoff=0.29 cfs 0.039 af
<b>Subcatchment89S: WS20</b>	Runoff Area=40.004 ac 3.65% Impervious Runoff Depth=0.35" Flow Length=4,364' Tc=55.5 min CN=74 Runoff=5.73 cfs 1.166 af
<b>Subcatchment90S: WS21</b>	Runoff Area=6.228 ac 0.32% Impervious Runoff Depth=0.32" Flow Length=1,797' Tc=39.9 min CN=73 Runoff=0.98 cfs 0.166 af
<b>Subcatchment91S: WS22</b>	Runoff Area=7.516 ac 0.98% Impervious Runoff Depth=0.45" Flow Length=2,111' Tc=47.3 min CN=77 Runoff=1.73 cfs 0.281 af
<b>Subcatchment92S: WS23</b>	Runoff Area=2.642 ac 1.48% Impervious Runoff Depth=0.41" Flow Length=1,122' Tc=28.3 min CN=76 Runoff=0.79 cfs 0.091 af
<b>Subcatchment93S: WS1A</b>	Runoff Area=3.076 ac 0.00% Impervious Runoff Depth=0.45" Flow Length=821' Tc=28.5 min CN=77 Runoff=1.02 cfs 0.115 af
<b>Subcatchment94S: WS1B</b>	Runoff Area=8.471 ac 5.02% Impervious Runoff Depth=0.48" Flow Length=2,480' Tc=14.1 min CN=78 Runoff=4.88 cfs 0.342 af
<b>Subcatchment95S: WS1C</b>	Runoff Area=17.349 ac 18.91% Impervious Runoff Depth=0.60" Flow Length=3,667' Tc=47.4 min CN=81 Runoff=5.99 cfs 0.874 af
<b>Subcatchment96S: WS1D</b>	Runoff Area=79.398 ac 8.16% Impervious Runoff Depth=0.38" Flow Length=6,450' Tc=43.6 min CN=75 Runoff=15.30 cfs 2.521 af
<b>Subcatchment97S: WS24</b>	Runoff Area=10.169 ac 4.49% Impervious Runoff Depth=0.48" Flow Length=2,477' Tc=51.1 min CN=78 Runoff=2.47 cfs 0.410 af
<b>Subcatchment98S: WS19</b>	Runoff Area=7.975 ac 0.10% Impervious Runoff Depth=0.29" Flow Length=2,264' Tc=47.0 min CN=72 Runoff=0.97 cfs 0.194 af
<b>Subcatchment103S: WS 1CA</b>	Runoff Area=7.535 ac 41.66% Impervious Runoff Depth=0.85" Flow Length=949' Tc=10.1 min CN=86 Runoff=9.62 cfs 0.533 af
<b>Subcatchment106S: WS 1G</b>	Runoff Area=33.788 ac 0.01% Impervious Runoff Depth=0.35" Flow Length=4,645' Tc=34.6 min CN=74 Runoff=6.78 cfs 0.985 af
<b>Subcatchment107S: WS 1H</b>	Runoff Area=59.491 ac 0.00% Impervious Runoff Depth=0.35" Flow Length=4,804' Tc=55.9 min CN=74 Runoff=8.44 cfs 1.734 af
<b>Subcatchment108S: WS1F</b>	Runoff Area=40.294 ac 0.90% Impervious Runoff Depth=0.35" Flow Length=4,191' Tc=48.6 min CN=74 Runoff=6.35 cfs 1.175 af
<b>Subcatchment110S: WS1E</b>	Runoff Area=31.901 ac 1.29% Impervious Runoff Depth=0.32" Flow Length=4,125' Tc=55.4 min CN=73 Runoff=3.99 cfs 0.851 af

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<b>Subcatchment111S: WS4A</b>	Runoff Area=38.315 ac 0.00% Impervious Runoff Depth=0.38" Flow Length=3,929' Tc=63.9 min CN=75 Runoff=5.59 cfs 1.216 af
<b>Subcatchment142S: WS1I</b>	Runoff Area=15.102 ac 0.81% Impervious Runoff Depth=0.41" Flow Length=3,069' Tc=31.2 min CN=76 Runoff=4.20 cfs 0.521 af
<b>Subcatchment143S: WS1J</b>	Runoff Area=22.346 ac 1.03% Impervious Runoff Depth=0.41" Flow Length=3,101' Tc=25.4 min CN=76 Runoff=7.16 cfs 0.770 af
<b>Reach 40R: stream</b>	Avg. Flow Depth=0.25' Max Vel=3.54 fps Inflow=5.45 cfs 1.216 af n=0.050 L=770.0' S=0.1013 '/' Capacity=186.92 cfs Outflow=5.43 cfs 1.216 af
<b>Reach 42R: stream</b>	Avg. Flow Depth=0.24' Max Vel=4.38 fps Inflow=5.59 cfs 1.216 af n=0.050 L=2,440.0' S=0.1639 '/' Capacity=60.47 cfs Outflow=5.45 cfs 1.216 af
<b>Reach 102R: stream</b>	Avg. Flow Depth=0.71' Max Vel=5.27 fps Inflow=47.96 cfs 10.306 af n=0.050 L=890.0' S=0.0562 '/' Capacity=883.89 cfs Outflow=47.80 cfs 10.306 af
<b>Reach 103R: stream</b>	Avg. Flow Depth=0.38' Max Vel=4.17 fps Inflow=13.21 cfs 2.719 af n=0.050 L=275.0' S=0.0800 '/' Capacity=440.61 cfs Outflow=13.18 cfs 2.719 af
<b>Reach 104R: stream</b>	Avg. Flow Depth=0.51' Max Vel=5.63 fps Inflow=24.50 cfs 5.080 af n=0.050 L=495.0' S=0.1010 '/' Capacity=495.10 cfs Outflow=24.43 cfs 5.080 af
<b>Reach 108R: stream</b>	Avg. Flow Depth=0.32' Max Vel=5.02 fps Inflow=13.50 cfs 2.719 af n=0.050 L=1,968.0' S=0.1443 '/' Capacity=291.19 cfs Outflow=13.21 cfs 2.719 af
<b>Reach 110R: stream</b>	Avg. Flow Depth=0.53' Max Vel=6.80 fps Inflow=23.73 cfs 4.547 af n=0.050 L=1,175.0' S=0.1464 '/' Capacity=465.00 cfs Outflow=23.62 cfs 4.547 af
<b>Reach 111R: upperstream</b>	Avg. Flow Depth=0.34' Max Vel=5.52 fps Inflow=6.35 cfs 1.175 af n=0.050 L=686.0' S=0.1808 '/' Capacity=139.11 cfs Outflow=6.32 cfs 1.175 af
<b>Reach 112R: stream</b>	Avg. Flow Depth=0.34' Max Vel=5.65 fps Inflow=10.29 cfs 2.026 af n=0.050 L=1,230.0' S=0.1772 '/' Capacity=210.11 cfs Outflow=10.21 cfs 2.026 af
<b>Link SP1:</b>	Inflow=48.51 cfs 10.564 af Primary=48.51 cfs 10.564 af
<b>Link SP10:</b>	Inflow=0.43 cfs 0.031 af Primary=0.43 cfs 0.031 af
<b>Link SP11:</b>	Inflow=2.08 cfs 0.534 af Primary=2.08 cfs 0.534 af
<b>Link SP12:</b>	Inflow=2.22 cfs 0.310 af Primary=2.22 cfs 0.310 af
<b>Link SP13:</b>	Inflow=1.86 cfs 0.595 af Primary=1.86 cfs 0.595 af

**55310.01-West Mountain-EX**

*Type II 24-hr 1-Year Rainfall=2.00"*

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<b>Link SP14:</b>	Inflow=0.85 cfs 0.114 af Primary=0.85 cfs 0.114 af
<b>Link SP15:</b>	Inflow=3.31 cfs 0.997 af Primary=3.31 cfs 0.997 af
<b>Link SP16:</b>	Inflow=0.34 cfs 0.021 af Primary=0.34 cfs 0.021 af
<b>Link SP17:</b>	Inflow=1.23 cfs 0.197 af Primary=1.23 cfs 0.197 af
<b>Link SP18:</b>	Inflow=0.29 cfs 0.039 af Primary=0.29 cfs 0.039 af
<b>Link SP19:</b>	Inflow=0.97 cfs 0.194 af Primary=0.97 cfs 0.194 af
<b>Link SP2:</b>	Inflow=1.17 cfs 0.180 af Primary=1.17 cfs 0.180 af
<b>Link SP20:</b>	Inflow=5.73 cfs 1.166 af Primary=5.73 cfs 1.166 af
<b>Link SP21:</b>	Inflow=0.98 cfs 0.166 af Primary=0.98 cfs 0.166 af
<b>Link SP22:</b>	Inflow=1.73 cfs 0.281 af Primary=1.73 cfs 0.281 af
<b>Link SP23:</b>	Inflow=0.79 cfs 0.091 af Primary=0.79 cfs 0.091 af
<b>Link SP24:</b>	Inflow=2.47 cfs 0.410 af Primary=2.47 cfs 0.410 af
<b>Link SP3:</b>	Inflow=0.75 cfs 0.061 af Primary=0.75 cfs 0.061 af
<b>Link SP4:</b>	Inflow=8.21 cfs 1.917 af Primary=8.21 cfs 1.917 af
<b>Link SP5:</b>	Inflow=0.89 cfs 0.114 af Primary=0.89 cfs 0.114 af
<b>Link SP6:</b>	Inflow=6.92 cfs 1.004 af Primary=6.92 cfs 1.004 af
<b>Link SP7:</b>	Inflow=5.26 cfs 0.915 af Primary=5.26 cfs 0.915 af

**55310.01-West Mountain-EX**

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**Link SP8:**

Inflow=0.40 cfs 0.017 af  
Primary=0.40 cfs 0.017 af

**Link SP9:**

Inflow=1.41 cfs 0.258 af  
Primary=1.41 cfs 0.258 af

**Total Runoff Area = 629.192 ac Runoff Volume = 20.175 af Average Runoff Depth = 0.38"**  
**96.98% Pervious = 610.171 ac 3.02% Impervious = 19.021 ac**

**Summary for Subcatchment 70S: WS1**

Runoff = 1.61 cfs @ 12.16 hrs, Volume= 0.143 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.019	98	Existing impervious, HSG D
0.032	78	Existing meadow, non-grazed, HSG D
3.765	77	Existing Woods, Good, HSG D
3.816	77	Weighted Average
3.797		99.50% Pervious Area
0.019		0.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.0	358	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	299	0.0600	9.68	232.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
20.2	1,200	Total			

**Summary for Subcatchment 72S: WS2**

Runoff = 1.17 cfs @ 12.48 hrs, Volume= 0.180 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.070	98	Existing impervious, HSG D
0.750	78	Existing meadow, non-grazed, HSG D
4.005	77	Existing Woods, Good, HSG D
4.825	77	Weighted Average
4.755		98.55% Pervious Area
0.070		1.45% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	49	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	349	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	156	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	279	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	154	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.5	339	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.3	374	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	147	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
44.0	1,847	Total			

**Summary for Subcatchment 73S: WS3**

Runoff = 0.75 cfs @ 12.13 hrs, Volume= 0.061 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.068	98	Existing impervious, HSG D
0.254	78	Existing meadow, non-grazed, HSG D
1.191	77	Existing Woods, Good, HSG D
1.513	78	Weighted Average
1.445		95.51% Pervious Area
0.068		4.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	60	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	97	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	169	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	319	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
18.2	681	Total			

**Summary for Subcatchment 74S: WS4**

Runoff = 8.21 cfs @ 12.13 hrs, Volume= 0.701 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.287	98	Existing impervious, HSG D
0.739	71	Existing meadow, non-grazed, HSG C
1.095	78	Existing meadow, non-grazed, HSG D
2.883	70	Existing Woods, Good, HSG C
15.321	77	Existing Woods, Good, HSG D
20.325	76	Weighted Average
20.038		98.59% Pervious Area
0.287		1.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.4	164	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	417	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	544	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	711	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	404	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	338	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	432	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.8	424	0.0800	9.25	92.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	249	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
18.0	3,739	Total			

**Summary for Subcatchment 75S: WS5**

Runoff = 0.89 cfs @ 12.34 hrs, Volume= 0.114 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.012	98	Existing impervious, HSG D
0.032	78	Existing meadow, non-grazed, HSG D
3.009	77	Existing Woods, Good, HSG D
3.053	77	Weighted Average
3.041		99.61% Pervious Area
0.012		0.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	35	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	169	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.7	271	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
33.9	1,271	Total			

**Summary for Subcatchment 76S: WS6**

Runoff = 6.92 cfs @ 12.42 hrs, Volume= 1.004 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



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Area (ac)	CN	Description
0.537	71	Existing meadow, non-grazed, HSG C
3.855	70	Existing Woods, Good, HSG C
0.287	98	Existing impervious, HSG D
3.372	78	Existing meadow, non-grazed, HSG D
21.062	77	Existing Woods, Good, HSG D
29.113	76	Weighted Average
28.826		99.01% Pervious Area
0.287		0.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	10	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	145	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.7	333	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.8	441	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	290	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	290	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.8	681	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	418	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	729	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	465	0.1300	11.80	117.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	466	0.0600	8.01	80.15	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.1	85	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 'l' Top.W=4.00' n= 0.022 Earth, clean & straight
38.7	4,403	Total			

**Summary for Subcatchment 77S: WS7**

Runoff = 5.26 cfs @ 12.57 hrs, Volume= 0.915 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.688	71	Existing meadow, non-grazed, HSG C
5.100	70	Existing Woods, Good, HSG C
0.250	98	Existing impervious, HSG D
3.025	78	Existing meadow, non-grazed, HSG D
17.484	77	Existing Woods, Good, HSG D
26.547	76	Weighted Average
26.297		99.06% Pervious Area
0.250		0.94% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	64	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.0	312	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	360	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
12.6	565	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.0	406	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	185	0.4100	1.60		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	324	0.3000	17.92	179.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	279	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	330	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	224	0.1100	10.85	108.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	139	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	287	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	361	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	417	0.1100	10.85	108.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	253	0.0500	7.32	73.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.1	130	0.0800	21.03	210.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
49.7	4,636	Total			

**Summary for Subcatchment 78S: WS8**

Runoff = 0.40 cfs @ 11.92 hrs, Volume= 0.017 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.066	98	Existing impervious, HSG D
0.047	78	Existing meadow, non-grazed, HSG D
0.230	77	Existing Woods, Good, HSG D
0.343	81	Weighted Average
0.277		80.76% Pervious Area
0.066		19.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	40	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	11	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	276	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
1.4	327	Total			

**Summary for Subcatchment 79S: WS9**

Runoff = 1.41 cfs @ 12.60 hrs, Volume= 0.258 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.078	71	Existing meadow, non-grazed, HSG C
2.614	70	Existing Woods, Good, HSG C
0.184	98	Existing impervious, HSG D
0.343	78	Existing meadow, non-grazed, HSG D
4.898	77	Existing Woods, Good, HSG D
8.117	75	Weighted Average
7.933		97.73% Pervious Area
0.184		2.27% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	27	0.0500	0.04		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.4	283	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.3	583	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.0	403	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	554	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	172	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	350	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	411	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
50.5	2,783	Total			

**Summary for Subcatchment 80S: WS10**

Runoff = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.027	98	Existing impervious, HSG D
0.044	78	Existing meadow, non-grazed, HSG D
0.687	77	Existing Woods, Good, HSG D
0.758	78	Weighted Average
0.731		96.44% Pervious Area
0.027		3.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	70	0.3100	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	65	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	187	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
14.8	424	Total			

**Summary for Subcatchment 81S: WS11**

Runoff = 2.08 cfs @ 13.02 hrs, Volume= 0.534 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.245	98	Existing impervious, HSG D
1.349	71	Existing meadow, non-grazed, HSG C
2.297	78	Existing meadow, non-grazed, HSG D
4.751	70	Existing Woods, Good, HSG C
8.173	77	Existing Woods, Good, HSG D
16.815	75	Weighted Average
16.570		98.54% Pervious Area
0.245		1.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	65	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	366	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.1	527	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.5	398	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
17.0	763	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	211	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	377	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.2	506	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	368	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	220	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.1	401	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	200	0.0900	22.31	223.09	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
80.4	4,402	Total			

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**Summary for Subcatchment 82S: WS12**

Runoff = 2.22 cfs @ 12.37 hrs, Volume= 0.310 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.280	71	Existing meadow, non-grazed, HSG C
3.976	70	Existing Woods, Good, HSG C
0.220	98	Existing impervious, HSG D
1.035	78	Existing meadow, non-grazed, HSG D
4.244	77	Existing Woods, Good, HSG D
9.755	75	Weighted Average
9.535		97.74% Pervious Area
0.220		2.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	41	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.4	320	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.0	562	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	281	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	261	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	284	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	261	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
34.7	2,300	Total			

**Summary for Subcatchment 83S: WS13**

Runoff = 1.86 cfs @ 13.38 hrs, Volume= 0.595 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
4.203	71	Existing meadow, non-grazed, HSG C
9.072	70	Existing Woods, Good, HSG C
0.235	98	Existing impervious, HSG D
1.694	78	Existing meadow, non-grazed, HSG D
7.081	77	Existing Woods, Good, HSG D
22.285	73	Weighted Average
22.050		98.95% Pervious Area
0.235		1.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	76	0.3700	0.12		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.9	537	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	448	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	645	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.6	497	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	536	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.2	434	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.1	714	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.2	649	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.9	645	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	307	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	328	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	199	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
100.4	6,015	Total			

**Summary for Subcatchment 84S: WS14**

Runoff = 0.85 cfs @ 12.33 hrs, Volume= 0.114 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



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Area (ac)	CN	Description
0.691	71	Existing meadow, non-grazed, HSG C
0.959	70	Existing Woods, Good, HSG C
0.182	98	Existing impervious, HSG D
0.231	78	Existing meadow, non-grazed, HSG D
1.524	77	Existing Woods, Good, HSG D
3.587	75	Weighted Average
3.405		94.93% Pervious Area
0.182		5.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	45	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.1	8	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.1	350	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	313	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	294	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	168	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	163	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	60	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
32.5	1,401	Total			

**Summary for Subcatchment 85S: WS15**

Runoff = 3.31 cfs @ 13.22 hrs, Volume= 0.997 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
8.870	71	Existing meadow, non-grazed, HSG C
16.898	70	Existing Woods, Good, HSG C
0.067	98	Existing impervious, HSG D
2.332	78	Existing meadow, non-grazed, HSG D
9.172	77	Existing Woods, Good, HSG D
37.339	73	Weighted Average
37.272		99.82% Pervious Area
0.067		0.18% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	72	0.3300	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.8	586	0.3300	1.44		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.9	673	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.6	625	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	664	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	484	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.7	700	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.6	529	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.6	717	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	573	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	386	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	150	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.8	119	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
92.0	6,278	Total			

**Summary for Subcatchment 86S: WS16**

Runoff = 0.34 cfs @ 12.05 hrs, Volume= 0.021 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.078	98	Existing impervious, HSG D
0.048	78	Existing meadow, non-grazed, HSG D
0.290	77	Existing Woods, Good, HSG D
0.416	81	Weighted Average
0.338		81.25% Pervious Area
0.078		18.75% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	51	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.0	63	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	153	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
11.9	267	Total			

**Summary for Subcatchment 87S: WS17**

Runoff = 1.23 cfs @ 12.42 hrs, Volume= 0.197 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.194	98	Existing impervious, HSG D
1.145	71	Existing meadow, non-grazed, HSG C
0.402	78	Existing meadow, non-grazed, HSG D
3.907	70	Existing Woods, Good, HSG C
1.738	77	Existing Woods, Good, HSG D
7.386	73	Weighted Average
7.192		97.37% Pervious Area
0.194		2.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	44	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
9.8	531	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	236	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	372	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	437	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	142	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	238	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
37.1	2,290	Total			

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**Summary for Subcatchment 88S: WS18**

Runoff = 0.29 cfs @ 12.26 hrs, Volume= 0.039 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.172	71	Existing meadow, non-grazed, HSG C
1.110	70	Existing Woods, Good, HSG C
0.021	98	Existing impervious, HSG D
0.028	78	Existing meadow, non-grazed, HSG D
0.268	77	Existing Woods, Good, HSG D
1.599	72	Weighted Average
1.578		98.69% Pervious Area
0.021		1.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	57	0.2100	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.0	68	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	218	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	281	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	258	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	96	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
26.1	978	Total			

**Summary for Subcatchment 89S: WS20**

Runoff = 5.73 cfs @ 12.67 hrs, Volume= 1.166 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
1.023	98	Existing impervious, HSG C
0.436	98	Existing impervious, HSG D
6.987	71	Existing meadow, non-grazed, HSG C
6.713	78	Existing meadow, non-grazed, HSG D
16.006	70	Existing Woods, Good, HSG C
8.839	77	Existing Woods, Good, HSG D
40.004	74	Weighted Average
38.545		96.35% Pervious Area
1.459		3.65% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.9	242	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	278	0.2500	3.50		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	258	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.9	134	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	77	0.2600	3.57		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	165	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.4	177	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	237	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.7	232	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.7	544	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.4	332	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	188	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	252	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	298	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	200	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	229	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	227	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	242	0.1300	11.80	117.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
55.5	4,364	Total			

**55310.01-West Mountain-EX**

Type II 24-hr 1-Year Rainfall=2.00"

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**Summary for Subcatchment 90S: WS21**

Runoff = 0.98 cfs @ 12.46 hrs, Volume= 0.166 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.020	98	Existing impervious, HSG D
0.181	71	Existing meadow, non-grazed, HSG C
0.412	78	Existing meadow, non-grazed, HSG D
3.099	70	Existing Woods, Good, HSG C
2.516	77	Existing Woods, Good, HSG D
6.228	73	Weighted Average
6.208		99.68% Pervious Area
0.020		0.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	40	0.1000	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.6	173	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	356	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	262	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	150	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	364	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	189	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	194	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	69	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
39.9	1,797	Total			

**Summary for Subcatchment 91S: WS22**

Runoff = 1.73 cfs @ 12.54 hrs, Volume= 0.281 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.074	98	Existing impervious, HSG D
0.307	71	Existing meadow, non-grazed, HSG C
2.930	78	Existing meadow, non-grazed, HSG D
0.876	70	Existing Woods, Good, HSG C
3.329	77	Existing Woods, Good, HSG D
7.516	77	Weighted Average
7.442		99.02% Pervious Area
0.074		0.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	42	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	290	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	266	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	395	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	315	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.4	382	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	377	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	44	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
47.3	2,111	Total			

**Summary for Subcatchment 92S: WS23**

Runoff = 0.79 cfs @ 12.27 hrs, Volume= 0.091 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.039	98	Existing impervious, HSG D
0.363	71	Existing meadow, non-grazed, HSG C
0.449	78	Existing meadow, non-grazed, HSG D
0.148	70	Existing Woods, Good, HSG C
1.643	77	Existing Woods, Good, HSG D
2.642	76	Weighted Average
2.603		98.52% Pervious Area
0.039		1.48% Impervious Area

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Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.5	212	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	247	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	267	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.0	280	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	66	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
28.3	1,122	Total			

**Summary for Subcatchment 93S: WS1A**

Runoff = 1.02 cfs @ 12.27 hrs, Volume= 0.115 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.011	78	Existing meadow, non-grazed, HSG D
3.065	77	Existing Woods, Good, HSG D
3.076	77	Weighted Average
3.076		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	31	0.0600	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.2	191	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	59	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	193	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	161	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	107	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	79	0.0500	9.26	314.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
28.5	821	Total			



**Summary for Subcatchment 94S: WS1B**

Runoff = 4.88 cfs @ 12.08 hrs, Volume= 0.342 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.425	98	Existing impervious, HSG D
0.427	78	Existing meadow, non-grazed, HSG D
7.619	77	Existing Woods, Good, HSG D
8.471	78	Weighted Average
8.046		94.98% Pervious Area
0.425		5.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.4	336	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	339	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	336	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	278	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	283	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	118	0.0800	13.91	41.73	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.2	164	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	83	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
14.1	2,480	Total			

Summary for Subcatchment 95S: WS1C

Runoff = 5.99 cfs @ 12.50 hrs, Volume= 0.874 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
3.281	98	Existing impervious, HSG D
3.704	78	Existing meadow, non-grazed, HSG D
10.364	77	Existing Woods, Good, HSG D
17.349	81	Weighted Average
14.068		81.09% Pervious Area
3.281		18.91% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	172	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	164	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.9	77	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	157	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.5	350	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.2	219	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	251	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	316	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	73	0.1900	21.44	64.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	300	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	179	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
10.2	342	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	236	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	199	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	224	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	360	0.0800	9.25	92.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
47.4	3,667	Total			

**Summary for Subcatchment 96S: WS1D**

Runoff = 15.30 cfs @ 12.49 hrs, Volume= 2.521 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
4.794	98	Existing impervious, HSG C
1.682	98	Existing impervious, HSG D
15.372	71	Existing meadow, non-grazed, HSG C
10.464	78	Existing meadow, non-grazed, HSG D
27.478	70	Existing Woods, Good, HSG C
19.608	77	Existing Woods, Good, HSG D
79.398	75	Weighted Average
72.922		91.84% Pervious Area
6.476		8.16% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.2300	0.27		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.9	388	0.2300	3.36		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	312	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.8	440	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	123	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.6	266	0.1300	7.32		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
6.2	457	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	130	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	378	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	258	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	263	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
4.2	242	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	150	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	256	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	314	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	390	0.0500	8.83	212.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'

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n= 0.050 Mountain streams w/large boulders

43.6 6,450 Total

**Summary for Subcatchment 97S: WS24**

Runoff = 2.47 cfs @ 12.57 hrs, Volume= 0.410 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.457	98	Existing impervious, HSG D
0.399	71	Existing meadow, non-grazed, HSG C
3.359	78	Existing meadow, non-grazed, HSG D
0.012	70	Existing Woods, Good, HSG C
5.942	77	Existing Woods, Good, HSG D
10.169	78	Weighted Average
9.712		95.51% Pervious Area
0.457		4.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	43	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
11.8	613	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	420	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	139	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	108	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	227	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	240	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.2	201	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.9	225	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	242	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.0	19	0.2100	12.09	36.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch

51.1 2,477 Total

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**Summary for Subcatchment 98S: WS19**

Runoff = 0.97 cfs @ 12.59 hrs, Volume= 0.194 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.008	98	Existing impervious, HSG D
0.954	71	Existing meadow, non-grazed, HSG C
0.384	78	Existing meadow, non-grazed, HSG D
4.939	70	Existing Woods, Good, HSG C
1.690	77	Existing Woods, Good, HSG D
7.975	72	Weighted Average
7.967		99.90% Pervious Area
0.008		0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	41	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.3	262	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.3	422	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	501	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	213	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	258	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.7	465	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
47.0	2,264	Total			

**Summary for Subcatchment 103S: WS 1CA**

Runoff = 9.62 cfs @ 12.02 hrs, Volume= 0.533 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
3.139	98	Existing impervious, HSG D
0.835	78	Existing meadow, non-grazed, HSG D
3.561	77	Existing Woods, Good, HSG D
7.535	86	Weighted Average
4.396		58.34% Pervious Area
3.139		41.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0400	1.57		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
3.0	89	0.0400	0.50		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	161	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	391	0.0500	16.63	166.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
3.6	208	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.1	949	Total			

**Summary for Subcatchment 106S: WS 1G**

Runoff = 6.78 cfs @ 12.37 hrs, Volume= 0.985 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.906	71	Existing meadow, non-grazed, HSG C
12.918	70	Existing Woods, Good, HSG C
0.004	98	Existing impervious, HSG D
3.805	78	Existing meadow, non-grazed, HSG D
16.155	77	Existing Woods, Good, HSG D
33.788	74	Weighted Average
33.784		99.99% Pervious Area
0.004		0.01% Impervious Area



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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.3	182	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	443	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	118	0.2200	3.28		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.9	458	0.3200	3.96		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	564	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	366	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	162	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	449	0.2000	14.63	146.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	450	0.2000	14.63	146.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	408	0.2100	14.99	149.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.7	554	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	391	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
34.6	4,645	Total			

**Summary for Subcatchment 107S: WS 1H**

Runoff = 8.44 cfs @ 12.69 hrs, Volume= 1.734 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
2.007	71	Existing meadow, non-grazed, HSG C
22.781	70	Existing Woods, Good, HSG C
4.416	78	Existing meadow, non-grazed, HSG D
30.287	77	Existing Woods, Good, HSG D
59.491	74	Weighted Average
59.491		100.00% Pervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	59	0.2300	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	105	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	330	0.3600	4.20		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.3	212	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	108	0.2400	3.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.0	346	0.3300	1.44		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	190	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	320	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	411	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	281	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	255	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	223	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.3	601	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	147	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	403	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	348	0.1600	14.26	199.63	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
0.5	465	0.1900	15.54	217.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
55.9	4,804	Total			

**Summary for Subcatchment 108S: WS1F**

Runoff = 6.35 cfs @ 12.58 hrs, Volume= 1.175 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.002	98	Existing impervious, HSG C
0.362	98	Existing impervious, HSG D
4.817	71	Existing meadow, non-grazed, HSG C
9.293	78	Existing meadow, non-grazed, HSG D
15.585	70	Existing Woods, Good, HSG C
10.235	77	Existing Woods, Good, HSG D

40.294	74	Weighted Average
39.930		99.10% Pervious Area
0.364		0.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	396	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	367	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	394	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	144	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
48.6	4,191	Total			

**Summary for Subcatchment 110S: WS1E**

Runoff = 3.99 cfs @ 12.69 hrs, Volume= 0.851 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.328	98	Existing impervious, HSG C
0.082	98	Existing impervious, HSG D
3.846	71	Existing meadow, non-grazed, HSG C
4.272	78	Existing meadow, non-grazed, HSG D
17.223	70	Existing Woods, Good, HSG C
6.150	77	Existing Woods, Good, HSG D
31.901	73	Weighted Average
31.491		98.71% Pervious Area
0.410		1.29% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	113	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	154	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	191	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	146	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	137	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	204	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	134	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	286	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	261	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	341	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.3	423	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	301	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.9	196	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	223	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.2	189	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
55.4	4,125	Total			

**Summary for Subcatchment 111S: WS4A**

Runoff = 5.59 cfs @ 12.80 hrs, Volume= 1.216 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.521	71	Existing meadow, non-grazed, HSG C
4.362	78	Existing meadow, non-grazed, HSG D
12.444	70	Existing Woods, Good, HSG C
20.988	77	Existing Woods, Good, HSG D
38.315	75	Weighted Average
38.315		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	73	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.0	529	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	350	0.3400	1.46		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	505	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.5	623	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	355	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	337	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.5	437	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.5	330	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.1	345	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	45	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 ' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
63.9	3,929	Total			

**Summary for Subcatchment 142S: WS1I**

Runoff = 4.20 cfs @ 12.31 hrs, Volume= 0.521 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.123	98	Existing impervious, HSG D
2.494	70	Existing Woods, Good, HSG C
12.485	77	Existing Woods, Good, HSG D
15.102	76	Weighted Average
14.979		99.19% Pervious Area
0.123		0.81% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	293	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	337	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	279	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.8	199	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	431	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
31.2	3,069	Total			

**Summary for Subcatchment 143S: WS1J**

Runoff = 7.16 cfs @ 12.23 hrs, Volume= 0.770 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.230	98	Existing impervious, HSG D
0.095	71	Existing meadow, non-grazed, HSG C
0.159	78	Existing meadow, non-grazed, HSG D
4.342	70	Existing Woods, Good, HSG C
17.520	77	Existing Woods, Good, HSG D
22.346	76	Weighted Average
22.116		98.97% Pervious Area
0.230		1.03% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.3	269	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	336	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	167	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	486	0.1300	15.28	641.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	546	0.1700	17.48	734.06	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	483	0.1200	14.68	616.73	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	426	0.1100	14.06	590.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.4	336	0.0900	12.72	534.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
25.4	3,101	Total			

**Summary for Reach 40R: stream**

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 0.38" for 1-Year event  
 Inflow = 5.45 cfs @ 13.06 hrs, Volume= 1.216 af  
 Outflow = 5.43 cfs @ 13.16 hrs, Volume= 1.216 af, Atten= 0%, Lag= 6.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 3.54 fps, Min. Travel Time= 3.6 min  
 Avg. Velocity= 1.33 fps, Avg. Travel Time= 9.6 min

Peak Storage= 1,180 cf @ 13.10 hrs  
 Average Depth at Peak Storage= 0.25' , Surface Width= 6.49'  
 Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders  
 Side Slope Z-value= 1.0 '/' Top Width= 10.00'  
 Length= 770.0' Slope= 0.1013 '/'  
 Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'





Summary for Reach 42R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 0.38" for 1-Year event
Inflow = 5.59 cfs @ 12.80 hrs, Volume= 1.216 af
Outflow = 5.45 cfs @ 13.06 hrs, Volume= 1.216 af, Atten= 3%, Lag= 16.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.38 fps, Min. Travel Time= 9.3 min
Avg. Velocity = 1.53 fps, Avg. Travel Time= 26.5 min

Peak Storage= 3,039 cf @ 12.91 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 5.48'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 2,440.0' Slope= 0.1639 '/'
Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'



Summary for Reach 102R: stream

Inflow Area = 315.675 ac, 4.58% Impervious, Inflow Depth = 0.39" for 1-Year event
Inflow = 47.96 cfs @ 12.68 hrs, Volume= 10.306 af
Outflow = 47.80 cfs @ 12.75 hrs, Volume= 10.306 af, Atten= 0%, Lag= 4.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.27 fps, Min. Travel Time= 2.8 min
Avg. Velocity = 1.93 fps, Avg. Travel Time= 7.7 min

Peak Storage= 8,074 cf @ 12.71 hrs
Average Depth at Peak Storage= 0.71' , Surface Width= 13.43'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 890.0' Slope= 0.0562 '/'
Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 0.35" for 1-Year event
Inflow = 13.21 cfs @ 12.72 hrs, Volume= 2.719 af
Outflow = 13.18 cfs @ 12.75 hrs, Volume= 2.719 af, Atten= 0%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.17 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 1.66 fps, Avg. Travel Time= 2.8 min

Peak Storage= 871 cf @ 12.73 hrs
Average Depth at Peak Storage= 0.38' , Surface Width= 8.76'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 275.0' Slope= 0.0800 '/'
Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 159.128 ac, 6.53% Impervious, Inflow Depth = 0.38" for 1-Year event
Inflow = 24.50 cfs @ 12.68 hrs, Volume= 5.080 af
Outflow = 24.43 cfs @ 12.72 hrs, Volume= 5.080 af, Atten= 0%, Lag= 2.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.63 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 2.17 fps, Avg. Travel Time= 3.8 min

Peak Storage= 2,152 cf @ 12.70 hrs
Average Depth at Peak Storage= 0.51' , Surface Width= 9.02'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 495.0' Slope= 0.1010 '/'
Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 0.35" for 1-Year event
Inflow = 13.50 cfs @ 12.51 hrs, Volume= 2.719 af
Outflow = 13.21 cfs @ 12.72 hrs, Volume= 2.719 af, Atten= 2%, Lag= 12.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.02 fps, Min. Travel Time= 6.5 min
Avg. Velocity = 1.95 fps, Avg. Travel Time= 16.8 min

Peak Storage= 5,187 cf @ 12.61 hrs
Average Depth at Peak Storage= 0.32', Surface Width= 8.63'
Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,968.0' Slope= 0.1443 '/'
Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 151.593 ac, 4.78% Impervious, Inflow Depth = 0.36" for 1-Year event
Inflow = 23.73 cfs @ 12.61 hrs, Volume= 4.547 af
Outflow = 23.62 cfs @ 12.69 hrs, Volume= 4.547 af, Atten= 0%, Lag= 4.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.80 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 2.75 fps, Avg. Travel Time= 7.1 min

Peak Storage= 4,080 cf @ 12.64 hrs
Average Depth at Peak Storage= 0.53', Surface Width= 7.06'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,175.0' Slope= 0.1464 '/'
Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 40.294 ac, 0.90% Impervious, Inflow Depth = 0.35" for 1-Year event
Inflow = 6.35 cfs @ 12.58 hrs, Volume= 1.175 af
Outflow = 6.32 cfs @ 12.64 hrs, Volume= 1.175 af, Atten= 0%, Lag= 3.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.52 fps, Min. Travel Time= 2.1 min
Avg. Velocity = 2.41 fps, Avg. Travel Time= 4.7 min

Peak Storage= 787 cf @ 12.60 hrs
Average Depth at Peak Storage= 0.34' , Surface Width= 3.69'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 686.0' Slope= 0.1808 ' '
Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



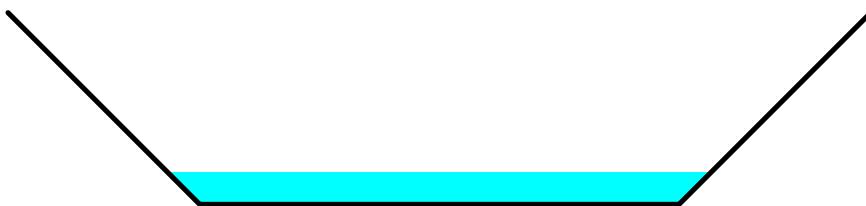
Summary for Reach 112R: stream

Inflow Area = 72.195 ac, 1.07% Impervious, Inflow Depth = 0.34" for 1-Year event
Inflow = 10.29 cfs @ 12.66 hrs, Volume= 2.026 af
Outflow = 10.21 cfs @ 12.76 hrs, Volume= 2.026 af, Atten= 1%, Lag= 6.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.65 fps, Min. Travel Time= 3.6 min
Avg. Velocity = 2.35 fps, Avg. Travel Time= 8.7 min

Peak Storage= 2,225 cf @ 12.70 hrs
Average Depth at Peak Storage= 0.34' , Surface Width= 5.68'
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 9.00'
Length= 1,230.0' Slope= 0.1772 ' '
Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



**Summary for Link SP1:**

Inflow Area = 322.567 ac, 4.49% Impervious, Inflow Depth = 0.39" for 1-Year event  
Inflow = 48.51 cfs @ 12.75 hrs, Volume= 10.564 af  
Primary = 48.51 cfs @ 12.75 hrs, Volume= 10.564 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP10:**

Inflow Area = 0.758 ac, 3.56% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af  
Primary = 0.43 cfs @ 12.09 hrs, Volume= 0.031 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP11:**

Inflow Area = 16.815 ac, 1.46% Impervious, Inflow Depth = 0.38" for 1-Year event  
Inflow = 2.08 cfs @ 13.02 hrs, Volume= 0.534 af  
Primary = 2.08 cfs @ 13.02 hrs, Volume= 0.534 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP12:**

Inflow Area = 9.755 ac, 2.26% Impervious, Inflow Depth = 0.38" for 1-Year event  
Inflow = 2.22 cfs @ 12.37 hrs, Volume= 0.310 af  
Primary = 2.22 cfs @ 12.37 hrs, Volume= 0.310 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP13:**

Inflow Area = 22.285 ac, 1.05% Impervious, Inflow Depth = 0.32" for 1-Year event  
Inflow = 1.86 cfs @ 13.38 hrs, Volume= 0.595 af  
Primary = 1.86 cfs @ 13.38 hrs, Volume= 0.595 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP14:**

Inflow Area = 3.587 ac, 5.07% Impervious, Inflow Depth = 0.38" for 1-Year event  
Inflow = 0.85 cfs @ 12.33 hrs, Volume= 0.114 af  
Primary = 0.85 cfs @ 12.33 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP15:**

Inflow Area = 37.339 ac, 0.18% Impervious, Inflow Depth = 0.32" for 1-Year event  
Inflow = 3.31 cfs @ 13.22 hrs, Volume= 0.997 af  
Primary = 3.31 cfs @ 13.22 hrs, Volume= 0.997 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP16:**

Inflow Area = 0.416 ac, 18.75% Impervious, Inflow Depth = 0.60" for 1-Year event  
Inflow = 0.34 cfs @ 12.05 hrs, Volume= 0.021 af  
Primary = 0.34 cfs @ 12.05 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP17:**

Inflow Area = 7.386 ac, 2.63% Impervious, Inflow Depth = 0.32" for 1-Year event  
Inflow = 1.23 cfs @ 12.42 hrs, Volume= 0.197 af  
Primary = 1.23 cfs @ 12.42 hrs, Volume= 0.197 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP18:**

Inflow Area = 1.599 ac, 1.31% Impervious, Inflow Depth = 0.29" for 1-Year event  
Inflow = 0.29 cfs @ 12.26 hrs, Volume= 0.039 af  
Primary = 0.29 cfs @ 12.26 hrs, Volume= 0.039 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP19:**

Inflow Area = 7.975 ac, 0.10% Impervious, Inflow Depth = 0.29" for 1-Year event  
Inflow = 0.97 cfs @ 12.59 hrs, Volume= 0.194 af  
Primary = 0.97 cfs @ 12.59 hrs, Volume= 0.194 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP2:**

Inflow Area = 4.825 ac, 1.45% Impervious, Inflow Depth = 0.45" for 1-Year event  
Inflow = 1.17 cfs @ 12.48 hrs, Volume= 0.180 af  
Primary = 1.17 cfs @ 12.48 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP20:**

Inflow Area = 40.004 ac, 3.65% Impervious, Inflow Depth = 0.35" for 1-Year event  
Inflow = 5.73 cfs @ 12.67 hrs, Volume= 1.166 af  
Primary = 5.73 cfs @ 12.67 hrs, Volume= 1.166 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP21:**

Inflow Area = 6.228 ac, 0.32% Impervious, Inflow Depth = 0.32" for 1-Year event  
Inflow = 0.98 cfs @ 12.46 hrs, Volume= 0.166 af  
Primary = 0.98 cfs @ 12.46 hrs, Volume= 0.166 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP22:**

Inflow Area = 7.516 ac, 0.98% Impervious, Inflow Depth = 0.45" for 1-Year event  
Inflow = 1.73 cfs @ 12.54 hrs, Volume= 0.281 af  
Primary = 1.73 cfs @ 12.54 hrs, Volume= 0.281 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP23:**

Inflow Area = 2.642 ac, 1.48% Impervious, Inflow Depth = 0.41" for 1-Year event  
Inflow = 0.79 cfs @ 12.27 hrs, Volume= 0.091 af  
Primary = 0.79 cfs @ 12.27 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP24:**

Inflow Area = 10.169 ac, 4.49% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 2.47 cfs @ 12.57 hrs, Volume= 0.410 af  
Primary = 2.47 cfs @ 12.57 hrs, Volume= 0.410 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP3:**

Inflow Area = 1.513 ac, 4.49% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 0.75 cfs @ 12.13 hrs, Volume= 0.061 af  
Primary = 0.75 cfs @ 12.13 hrs, Volume= 0.061 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP4:**

Inflow Area = 58.640 ac, 0.49% Impervious, Inflow Depth = 0.39" for 1-Year event  
Inflow = 8.21 cfs @ 12.13 hrs, Volume= 1.917 af  
Primary = 8.21 cfs @ 12.13 hrs, Volume= 1.917 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP5:**

Inflow Area = 3.053 ac, 0.39% Impervious, Inflow Depth = 0.45" for 1-Year event  
Inflow = 0.89 cfs @ 12.34 hrs, Volume= 0.114 af  
Primary = 0.89 cfs @ 12.34 hrs, Volume= 0.114 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP6:**

Inflow Area = 29.113 ac, 0.99% Impervious, Inflow Depth = 0.41" for 1-Year event  
Inflow = 6.92 cfs @ 12.42 hrs, Volume= 1.004 af  
Primary = 6.92 cfs @ 12.42 hrs, Volume= 1.004 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP7:**

Inflow Area = 26.547 ac, 0.94% Impervious, Inflow Depth = 0.41" for 1-Year event  
Inflow = 5.26 cfs @ 12.57 hrs, Volume= 0.915 af  
Primary = 5.26 cfs @ 12.57 hrs, Volume= 0.915 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP8:**

Inflow Area = 0.343 ac, 19.24% Impervious, Inflow Depth = 0.60" for 1-Year event  
Inflow = 0.40 cfs @ 11.92 hrs, Volume= 0.017 af  
Primary = 0.40 cfs @ 11.92 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP9:**

Inflow Area = 8.117 ac, 2.27% Impervious, Inflow Depth = 0.38" for 1-Year event  
Inflow = 1.41 cfs @ 12.60 hrs, Volume= 0.258 af  
Primary = 1.41 cfs @ 12.60 hrs, Volume= 0.258 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



**55310.01-West Mountain-EX**

Type II 24-hr 2-Year Rainfall=2.40"

Prepared by VHB

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

<b>Subcatchment70S: WS1</b>	Runoff Area=3.816 ac 0.50% Impervious Runoff Depth=0.68" Flow Length=1,200' Tc=20.2 min CN=77 Runoff=2.62 cfs 0.216 af
<b>Subcatchment72S: WS2</b>	Runoff Area=4.825 ac 1.45% Impervious Runoff Depth=0.68" Flow Length=1,847' Tc=44.0 min CN=77 Runoff=1.93 cfs 0.273 af
<b>Subcatchment73S: WS3</b>	Runoff Area=1.513 ac 4.49% Impervious Runoff Depth=0.72" Flow Length=681' Tc=18.2 min CN=78 Runoff=1.20 cfs 0.091 af
<b>Subcatchment74S: WS4</b>	Runoff Area=20.325 ac 1.41% Impervious Runoff Depth=0.63" Flow Length=3,739' Tc=18.0 min CN=76 Runoff=13.77 cfs 1.075 af
<b>Subcatchment75S: WS5</b>	Runoff Area=3.053 ac 0.39% Impervious Runoff Depth=0.68" Flow Length=1,271' Tc=33.9 min CN=77 Runoff=1.48 cfs 0.173 af
<b>Subcatchment76S: WS6</b>	Runoff Area=29.113 ac 0.99% Impervious Runoff Depth=0.63" Flow Length=4,403' Tc=38.7 min CN=76 Runoff=11.72 cfs 1.540 af
<b>Subcatchment77S: WS7</b>	Runoff Area=26.547 ac 0.94% Impervious Runoff Depth=0.63" Flow Length=4,636' Tc=49.7 min CN=76 Runoff=8.91 cfs 1.404 af
<b>Subcatchment78S: WS8</b>	Runoff Area=0.343 ac 19.24% Impervious Runoff Depth=0.87" Flow Length=327' Tc=1.4 min CN=81 Runoff=0.58 cfs 0.025 af
<b>Subcatchment79S: WS9</b>	Runoff Area=8.117 ac 2.27% Impervious Runoff Depth=0.59" Flow Length=2,783' Tc=50.5 min CN=75 Runoff=2.45 cfs 0.401 af
<b>Subcatchment80S: WS10</b>	Runoff Area=0.758 ac 3.56% Impervious Runoff Depth=0.72" Flow Length=424' Tc=14.8 min CN=78 Runoff=0.67 cfs 0.046 af
<b>Subcatchment81S: WS11</b>	Runoff Area=16.815 ac 1.46% Impervious Runoff Depth=0.59" Flow Length=4,402' Tc=80.4 min CN=75 Runoff=3.60 cfs 0.831 af
<b>Subcatchment82S: WS12</b>	Runoff Area=9.755 ac 2.26% Impervious Runoff Depth=0.59" Flow Length=2,300' Tc=34.7 min CN=75 Runoff=3.87 cfs 0.482 af
<b>Subcatchment83S: WS13</b>	Runoff Area=22.285 ac 1.05% Impervious Runoff Depth=0.51" Flow Length=6,015' Tc=100.4 min CN=73 Runoff=3.35 cfs 0.955 af
<b>Subcatchment84S: WS14</b>	Runoff Area=3.587 ac 5.07% Impervious Runoff Depth=0.59" Flow Length=1,401' Tc=32.5 min CN=75 Runoff=1.49 cfs 0.177 af
<b>Subcatchment85S: WS15</b>	Runoff Area=37.339 ac 0.18% Impervious Runoff Depth=0.51" Flow Length=6,278' Tc=92.0 min CN=73 Runoff=5.99 cfs 1.601 af
<b>Subcatchment86S: WS16</b>	Runoff Area=0.416 ac 18.75% Impervious Runoff Depth=0.87" Flow Length=267' Tc=11.9 min CN=81 Runoff=0.51 cfs 0.030 af

**55310.01-West Mountain-EX***Type II 24-hr 2-Year Rainfall=2.40"*

Prepared by VHB

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<b>Subcatchment87S: WS17</b>	Runoff Area=7.386 ac 2.63% Impervious Runoff Depth=0.51" Flow Length=2,290' Tc=37.1 min CN=73 Runoff=2.29 cfs 0.317 af
<b>Subcatchment88S: WS18</b>	Runoff Area=1.599 ac 1.31% Impervious Runoff Depth=0.48" Flow Length=978' Tc=26.1 min CN=72 Runoff=0.57 cfs 0.064 af
<b>Subcatchment89S: WS20</b>	Runoff Area=40.004 ac 3.65% Impervious Runoff Depth=0.55" Flow Length=4,364' Tc=55.5 min CN=74 Runoff=10.25 cfs 1.843 af
<b>Subcatchment90S: WS21</b>	Runoff Area=6.228 ac 0.32% Impervious Runoff Depth=0.51" Flow Length=1,797' Tc=39.9 min CN=73 Runoff=1.83 cfs 0.267 af
<b>Subcatchment91S: WS22</b>	Runoff Area=7.516 ac 0.98% Impervious Runoff Depth=0.68" Flow Length=2,111' Tc=47.3 min CN=77 Runoff=2.86 cfs 0.425 af
<b>Subcatchment92S: WS23</b>	Runoff Area=2.642 ac 1.48% Impervious Runoff Depth=0.63" Flow Length=1,122' Tc=28.3 min CN=76 Runoff=1.33 cfs 0.140 af
<b>Subcatchment93S: WS1A</b>	Runoff Area=3.076 ac 0.00% Impervious Runoff Depth=0.68" Flow Length=821' Tc=28.5 min CN=77 Runoff=1.68 cfs 0.174 af
<b>Subcatchment94S: WS1B</b>	Runoff Area=8.471 ac 5.02% Impervious Runoff Depth=0.72" Flow Length=2,480' Tc=14.1 min CN=78 Runoff=7.71 cfs 0.511 af
<b>Subcatchment95S: WS1C</b>	Runoff Area=17.349 ac 18.91% Impervious Runoff Depth=0.87" Flow Length=3,667' Tc=47.4 min CN=81 Runoff=9.04 cfs 1.260 af
<b>Subcatchment96S: WS1D</b>	Runoff Area=79.398 ac 8.16% Impervious Runoff Depth=0.59" Flow Length=6,450' Tc=43.6 min CN=75 Runoff=26.72 cfs 3.923 af
<b>Subcatchment97S: WS24</b>	Runoff Area=10.169 ac 4.49% Impervious Runoff Depth=0.72" Flow Length=2,477' Tc=51.1 min CN=78 Runoff=3.98 cfs 0.613 af
<b>Subcatchment98S: WS19</b>	Runoff Area=7.975 ac 0.10% Impervious Runoff Depth=0.48" Flow Length=2,264' Tc=47.0 min CN=72 Runoff=1.86 cfs 0.317 af
<b>Subcatchment103S: WS 1CA</b>	Runoff Area=7.535 ac 41.66% Impervious Runoff Depth=1.16" Flow Length=949' Tc=10.1 min CN=86 Runoff=13.22 cfs 0.730 af
<b>Subcatchment106S: WS 1G</b>	Runoff Area=33.788 ac 0.01% Impervious Runoff Depth=0.55" Flow Length=4,645' Tc=34.6 min CN=74 Runoff=12.21 cfs 1.557 af
<b>Subcatchment107S: WS 1H</b>	Runoff Area=59.491 ac 0.00% Impervious Runoff Depth=0.55" Flow Length=4,804' Tc=55.9 min CN=74 Runoff=15.09 cfs 2.741 af
<b>Subcatchment108S: WS1F</b>	Runoff Area=40.294 ac 0.90% Impervious Runoff Depth=0.55" Flow Length=4,191' Tc=48.6 min CN=74 Runoff=11.36 cfs 1.856 af
<b>Subcatchment110S: WS1E</b>	Runoff Area=31.901 ac 1.29% Impervious Runoff Depth=0.51" Flow Length=4,125' Tc=55.4 min CN=73 Runoff=7.37 cfs 1.367 af

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<b>Subcatchment111S: WS4A</b>	Runoff Area=38.315 ac 0.00% Impervious Runoff Depth=0.59" Flow Length=3,929' Tc=63.9 min CN=75 Runoff=9.70 cfs 1.893 af
<b>Subcatchment142S: WS1I</b>	Runoff Area=15.102 ac 0.81% Impervious Runoff Depth=0.63" Flow Length=3,069' Tc=31.2 min CN=76 Runoff=7.10 cfs 0.799 af
<b>Subcatchment143S: WS1J</b>	Runoff Area=22.346 ac 1.03% Impervious Runoff Depth=0.63" Flow Length=3,101' Tc=25.4 min CN=76 Runoff=12.11 cfs 1.182 af
<b>Reach 40R: stream</b>	Avg. Flow Depth=0.34' Max Vel=4.36 fps Inflow=9.51 cfs 1.893 af n=0.050 L=770.0' S=0.1013 '/' Capacity=186.92 cfs Outflow=9.49 cfs 1.893 af
<b>Reach 42R: stream</b>	Avg. Flow Depth=0.33' Max Vel=5.37 fps Inflow=9.70 cfs 1.893 af n=0.050 L=2,440.0' S=0.1639 '/' Capacity=60.47 cfs Outflow=9.51 cfs 1.893 af
<b>Reach 102R: stream</b>	Avg. Flow Depth=1.01' Max Vel=6.47 fps Inflow=84.89 cfs 15.927 af n=0.050 L=890.0' S=0.0562 '/' Capacity=883.89 cfs Outflow=84.53 cfs 15.927 af
<b>Reach 103R: stream</b>	Avg. Flow Depth=0.54' Max Vel=5.18 fps Inflow=23.91 cfs 4.297 af n=0.050 L=275.0' S=0.0800 '/' Capacity=440.61 cfs Outflow=23.87 cfs 4.297 af
<b>Reach 104R: stream</b>	Avg. Flow Depth=0.72' Max Vel=6.93 fps Inflow=43.72 cfs 7.877 af n=0.050 L=495.0' S=0.1010 '/' Capacity=495.10 cfs Outflow=43.60 cfs 7.877 af
<b>Reach 108R: stream</b>	Avg. Flow Depth=0.45' Max Vel=6.26 fps Inflow=24.29 cfs 4.297 af n=0.050 L=1,968.0' S=0.1443 '/' Capacity=291.19 cfs Outflow=23.91 cfs 4.297 af
<b>Reach 110R: stream</b>	Avg. Flow Depth=0.76' Max Vel=8.33 fps Inflow=42.71 cfs 7.147 af n=0.050 L=1,175.0' S=0.1464 '/' Capacity=465.00 cfs Outflow=42.48 cfs 7.147 af
<b>Reach 111R: upperstream</b>	Avg. Flow Depth=0.49' Max Vel=6.71 fps Inflow=11.36 cfs 1.856 af n=0.050 L=686.0' S=0.1808 '/' Capacity=139.11 cfs Outflow=11.32 cfs 1.856 af
<b>Reach 112R: stream</b>	Avg. Flow Depth=0.48' Max Vel=6.99 fps Inflow=18.65 cfs 3.224 af n=0.050 L=1,230.0' S=0.1772 '/' Capacity=210.11 cfs Outflow=18.57 cfs 3.224 af
<b>Link SP1:</b>	Inflow=85.81 cfs 16.317 af Primary=85.81 cfs 16.317 af
<b>Link SP10:</b>	Inflow=0.67 cfs 0.046 af Primary=0.67 cfs 0.046 af
<b>Link SP11:</b>	Inflow=3.60 cfs 0.831 af Primary=3.60 cfs 0.831 af
<b>Link SP12:</b>	Inflow=3.87 cfs 0.482 af Primary=3.87 cfs 0.482 af
<b>Link SP13:</b>	Inflow=3.35 cfs 0.955 af Primary=3.35 cfs 0.955 af

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<b>Link SP14:</b>	Inflow=1.49 cfs 0.177 af Primary=1.49 cfs 0.177 af
<b>Link SP15:</b>	Inflow=5.99 cfs 1.601 af Primary=5.99 cfs 1.601 af
<b>Link SP16:</b>	Inflow=0.51 cfs 0.030 af Primary=0.51 cfs 0.030 af
<b>Link SP17:</b>	Inflow=2.29 cfs 0.317 af Primary=2.29 cfs 0.317 af
<b>Link SP18:</b>	Inflow=0.57 cfs 0.064 af Primary=0.57 cfs 0.064 af
<b>Link SP19:</b>	Inflow=1.86 cfs 0.317 af Primary=1.86 cfs 0.317 af
<b>Link SP2:</b>	Inflow=1.93 cfs 0.273 af Primary=1.93 cfs 0.273 af
<b>Link SP20:</b>	Inflow=10.25 cfs 1.843 af Primary=10.25 cfs 1.843 af
<b>Link SP21:</b>	Inflow=1.83 cfs 0.267 af Primary=1.83 cfs 0.267 af
<b>Link SP22:</b>	Inflow=2.86 cfs 0.425 af Primary=2.86 cfs 0.425 af
<b>Link SP23:</b>	Inflow=1.33 cfs 0.140 af Primary=1.33 cfs 0.140 af
<b>Link SP24:</b>	Inflow=3.98 cfs 0.613 af Primary=3.98 cfs 0.613 af
<b>Link SP3:</b>	Inflow=1.20 cfs 0.091 af Primary=1.20 cfs 0.091 af
<b>Link SP4:</b>	Inflow=13.77 cfs 2.969 af Primary=13.77 cfs 2.969 af
<b>Link SP5:</b>	Inflow=1.48 cfs 0.173 af Primary=1.48 cfs 0.173 af
<b>Link SP6:</b>	Inflow=11.72 cfs 1.540 af Primary=11.72 cfs 1.540 af
<b>Link SP7:</b>	Inflow=8.91 cfs 1.404 af Primary=8.91 cfs 1.404 af

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**Link SP8:**

Inflow=0.58 cfs 0.025 af  
Primary=0.58 cfs 0.025 af

**Link SP9:**

Inflow=2.45 cfs 0.401 af  
Primary=2.45 cfs 0.401 af

**Total Runoff Area = 629.192 ac   Runoff Volume = 31.300 af   Average Runoff Depth = 0.60"**  
**96.98% Pervious = 610.171 ac   3.02% Impervious = 19.021 ac**

**Summary for Subcatchment 70S: WS1**

Runoff = 2.62 cfs @ 12.15 hrs, Volume= 0.216 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.019	98	Existing impervious, HSG D
0.032	78	Existing meadow, non-grazed, HSG D
3.765	77	Existing Woods, Good, HSG D
3.816	77	Weighted Average
3.797		99.50% Pervious Area
0.019		0.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.0	358	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	299	0.0600	9.68	232.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
20.2	1,200	Total			

**Summary for Subcatchment 72S: WS2**

Runoff = 1.93 cfs @ 12.46 hrs, Volume= 0.273 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.070	98	Existing impervious, HSG D
0.750	78	Existing meadow, non-grazed, HSG D
4.005	77	Existing Woods, Good, HSG D
4.825	77	Weighted Average
4.755		98.55% Pervious Area
0.070		1.45% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	49	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	349	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	156	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	279	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	154	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.5	339	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.3	374	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	147	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
44.0	1,847	Total			

**Summary for Subcatchment 73S: WS3**

Runoff = 1.20 cfs @ 12.12 hrs, Volume= 0.091 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.068	98	Existing impervious, HSG D
0.254	78	Existing meadow, non-grazed, HSG D
1.191	77	Existing Woods, Good, HSG D
1.513	78	Weighted Average
1.445		95.51% Pervious Area
0.068		4.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	60	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	97	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	169	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	319	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
18.2	681	Total			

**Summary for Subcatchment 74S: WS4**

Runoff = 13.77 cfs @ 12.12 hrs, Volume= 1.075 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.287	98	Existing impervious, HSG D
0.739	71	Existing meadow, non-grazed, HSG C
1.095	78	Existing meadow, non-grazed, HSG D
2.883	70	Existing Woods, Good, HSG C
15.321	77	Existing Woods, Good, HSG D
20.325	76	Weighted Average
20.038		98.59% Pervious Area
0.287		1.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.4	164	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	417	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	544	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	711	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	404	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	338	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	432	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.8	424	0.0800	9.25	92.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	249	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
18.0	3,739	Total			



**Summary for Subcatchment 75S: WS5**

Runoff = 1.48 cfs @ 12.32 hrs, Volume= 0.173 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.012	98	Existing impervious, HSG D
0.032	78	Existing meadow, non-grazed, HSG D
3.009	77	Existing Woods, Good, HSG D
3.053	77	Weighted Average
3.041		99.61% Pervious Area
0.012		0.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	35	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	169	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.7	271	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
33.9	1,271	Total			

**Summary for Subcatchment 76S: WS6**

Runoff = 11.72 cfs @ 12.39 hrs, Volume= 1.540 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.537	71	Existing meadow, non-grazed, HSG C
3.855	70	Existing Woods, Good, HSG C
0.287	98	Existing impervious, HSG D
3.372	78	Existing meadow, non-grazed, HSG D
21.062	77	Existing Woods, Good, HSG D
29.113	76	Weighted Average
28.826		99.01% Pervious Area
0.287		0.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	10	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	145	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.7	333	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.8	441	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	290	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	290	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.8	681	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	418	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	729	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	465	0.1300	11.80	117.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	466	0.0600	8.01	80.15	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.1	85	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 'l' Top.W=4.00' n= 0.022 Earth, clean & straight
38.7	4,403	Total			

**Summary for Subcatchment 77S: WS7**

Runoff = 8.91 cfs @ 12.55 hrs, Volume= 1.404 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.688	71	Existing meadow, non-grazed, HSG C
5.100	70	Existing Woods, Good, HSG C
0.250	98	Existing impervious, HSG D
3.025	78	Existing meadow, non-grazed, HSG D
17.484	77	Existing Woods, Good, HSG D
26.547	76	Weighted Average
26.297		99.06% Pervious Area
0.250		0.94% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	64	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.0	312	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	360	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
12.6	565	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.0	406	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	185	0.4100	1.60		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	324	0.3000	17.92	179.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	279	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	330	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	224	0.1100	10.85	108.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	139	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	287	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	361	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	417	0.1100	10.85	108.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	253	0.0500	7.32	73.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.1	130	0.0800	21.03	210.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
49.7	4,636	Total			

**Summary for Subcatchment 78S: WS8**

Runoff = 0.58 cfs @ 11.91 hrs, Volume= 0.025 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.066	98	Existing impervious, HSG D
0.047	78	Existing meadow, non-grazed, HSG D
0.230	77	Existing Woods, Good, HSG D
0.343	81	Weighted Average
0.277		80.76% Pervious Area
0.066		19.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	40	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	11	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	276	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
1.4	327	Total			

**Summary for Subcatchment 79S: WS9**

Runoff = 2.45 cfs @ 12.57 hrs, Volume= 0.401 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.078	71	Existing meadow, non-grazed, HSG C
2.614	70	Existing Woods, Good, HSG C
0.184	98	Existing impervious, HSG D
0.343	78	Existing meadow, non-grazed, HSG D
4.898	77	Existing Woods, Good, HSG D
8.117	75	Weighted Average
7.933		97.73% Pervious Area
0.184		2.27% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	27	0.0500	0.04		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.4	283	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.3	583	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.0	403	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	554	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	172	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	350	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	411	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
50.5	2,783	Total			

**Summary for Subcatchment 80S: WS10**

Runoff = 0.67 cfs @ 12.08 hrs, Volume= 0.046 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.027	98	Existing impervious, HSG D
0.044	78	Existing meadow, non-grazed, HSG D
0.687	77	Existing Woods, Good, HSG D
0.758	78	Weighted Average
0.731		96.44% Pervious Area
0.027		3.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	70	0.3100	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	65	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	187	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
14.8	424	Total			

**Summary for Subcatchment 81S: WS11**

Runoff = 3.60 cfs @ 12.97 hrs, Volume= 0.831 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.245	98	Existing impervious, HSG D
1.349	71	Existing meadow, non-grazed, HSG C
2.297	78	Existing meadow, non-grazed, HSG D
4.751	70	Existing Woods, Good, HSG C
8.173	77	Existing Woods, Good, HSG D
16.815	75	Weighted Average
16.570		98.54% Pervious Area
0.245		1.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	65	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	366	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.1	527	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.5	398	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
17.0	763	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	211	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	377	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.2	506	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	368	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	220	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.1	401	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	200	0.0900	22.31	223.09	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
80.4	4,402	Total			

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**Summary for Subcatchment 82S: WS12**

Runoff = 3.87 cfs @ 12.35 hrs, Volume= 0.482 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.280	71	Existing meadow, non-grazed, HSG C
3.976	70	Existing Woods, Good, HSG C
0.220	98	Existing impervious, HSG D
1.035	78	Existing meadow, non-grazed, HSG D
4.244	77	Existing Woods, Good, HSG D
9.755	75	Weighted Average
9.535		97.74% Pervious Area
0.220		2.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	41	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.4	320	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.0	562	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	281	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	261	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	284	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	261	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
34.7	2,300	Total			

**Summary for Subcatchment 83S: WS13**

Runoff = 3.35 cfs @ 13.30 hrs, Volume= 0.955 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"



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Area (ac)	CN	Description
4.203	71	Existing meadow, non-grazed, HSG C
9.072	70	Existing Woods, Good, HSG C
0.235	98	Existing impervious, HSG D
1.694	78	Existing meadow, non-grazed, HSG D
7.081	77	Existing Woods, Good, HSG D
22.285	73	Weighted Average
22.050		98.95% Pervious Area
0.235		1.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	76	0.3700	0.12		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.9	537	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	448	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	645	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.6	497	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	536	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.2	434	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.1	714	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.2	649	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.9	645	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	307	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	328	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	199	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
100.4	6,015	Total			

**Summary for Subcatchment 84S: WS14**

Runoff = 1.49 cfs @ 12.31 hrs, Volume= 0.177 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.691	71	Existing meadow, non-grazed, HSG C
0.959	70	Existing Woods, Good, HSG C
0.182	98	Existing impervious, HSG D
0.231	78	Existing meadow, non-grazed, HSG D
1.524	77	Existing Woods, Good, HSG D
3.587	75	Weighted Average
3.405		94.93% Pervious Area
0.182		5.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	45	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.1	8	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.1	350	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	313	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	294	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	168	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	163	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	60	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
32.5	1,401	Total			

**Summary for Subcatchment 85S: WS15**

Runoff = 5.99 cfs @ 13.20 hrs, Volume= 1.601 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
8.870	71	Existing meadow, non-grazed, HSG C
16.898	70	Existing Woods, Good, HSG C
0.067	98	Existing impervious, HSG D
2.332	78	Existing meadow, non-grazed, HSG D
9.172	77	Existing Woods, Good, HSG D
37.339	73	Weighted Average
37.272		99.82% Pervious Area
0.067		0.18% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	72	0.3300	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.8	586	0.3300	1.44		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.9	673	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.6	625	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	664	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	484	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.7	700	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.6	529	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.6	717	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	573	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	386	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	150	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.8	119	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
92.0	6,278	Total			

**Summary for Subcatchment 86S: WS16**

Runoff = 0.51 cfs @ 12.05 hrs, Volume= 0.030 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.078	98	Existing impervious, HSG D
0.048	78	Existing meadow, non-grazed, HSG D
0.290	77	Existing Woods, Good, HSG D
0.416	81	Weighted Average
0.338		81.25% Pervious Area
0.078		18.75% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	51	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.0	63	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	153	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
11.9	267	Total			

**Summary for Subcatchment 87S: WS17**

Runoff = 2.29 cfs @ 12.39 hrs, Volume= 0.317 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.194	98	Existing impervious, HSG D
1.145	71	Existing meadow, non-grazed, HSG C
0.402	78	Existing meadow, non-grazed, HSG D
3.907	70	Existing Woods, Good, HSG C
1.738	77	Existing Woods, Good, HSG D
7.386	73	Weighted Average
7.192		97.37% Pervious Area
0.194		2.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	44	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
9.8	531	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	236	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	372	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	437	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	142	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	238	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
37.1	2,290	Total			

**Summary for Subcatchment 88S: WS18**

Runoff = 0.57 cfs @ 12.24 hrs, Volume= 0.064 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.172	71	Existing meadow, non-grazed, HSG C
1.110	70	Existing Woods, Good, HSG C
0.021	98	Existing impervious, HSG D
0.028	78	Existing meadow, non-grazed, HSG D
0.268	77	Existing Woods, Good, HSG D
1.599	72	Weighted Average
1.578		98.69% Pervious Area
0.021		1.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	57	0.2100	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.0	68	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	218	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	281	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	258	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	96	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
26.1	978	Total			

**Summary for Subcatchment 89S: WS20**

Runoff = 10.25 cfs @ 12.65 hrs, Volume= 1.843 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
1.023	98	Existing impervious, HSG C
0.436	98	Existing impervious, HSG D
6.987	71	Existing meadow, non-grazed, HSG C
6.713	78	Existing meadow, non-grazed, HSG D
16.006	70	Existing Woods, Good, HSG C
8.839	77	Existing Woods, Good, HSG D
40.004	74	Weighted Average
38.545		96.35% Pervious Area
1.459		3.65% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.9	242	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	278	0.2500	3.50		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	258	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.9	134	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	77	0.2600	3.57		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	165	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.4	177	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	237	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.7	232	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.7	544	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.4	332	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	188	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	252	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	298	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	200	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	229	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	227	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	242	0.1300	11.80	117.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
55.5	4,364	Total			

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Type II 24-hr 2-Year Rainfall=2.40"

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**Summary for Subcatchment 90S: WS21**

Runoff = 1.83 cfs @ 12.43 hrs, Volume= 0.267 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.020	98	Existing impervious, HSG D
0.181	71	Existing meadow, non-grazed, HSG C
0.412	78	Existing meadow, non-grazed, HSG D
3.099	70	Existing Woods, Good, HSG C
2.516	77	Existing Woods, Good, HSG D
6.228	73	Weighted Average
6.208		99.68% Pervious Area
0.020		0.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	40	0.1000	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.6	173	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	356	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	262	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	150	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	364	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	189	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	194	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	69	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
39.9	1,797	Total			

**Summary for Subcatchment 91S: WS22**

Runoff = 2.86 cfs @ 12.51 hrs, Volume= 0.425 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.074	98	Existing impervious, HSG D
0.307	71	Existing meadow, non-grazed, HSG C
2.930	78	Existing meadow, non-grazed, HSG D
0.876	70	Existing Woods, Good, HSG C
3.329	77	Existing Woods, Good, HSG D
7.516	77	Weighted Average
7.442		99.02% Pervious Area
0.074		0.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	42	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	290	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	266	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	395	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	315	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.4	382	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	377	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	44	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
47.3	2,111	Total			

**Summary for Subcatchment 92S: WS23**

Runoff = 1.33 cfs @ 12.26 hrs, Volume= 0.140 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.039	98	Existing impervious, HSG D
0.363	71	Existing meadow, non-grazed, HSG C
0.449	78	Existing meadow, non-grazed, HSG D
0.148	70	Existing Woods, Good, HSG C
1.643	77	Existing Woods, Good, HSG D
2.642	76	Weighted Average
2.603		98.52% Pervious Area
0.039		1.48% Impervious Area



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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.5	212	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	247	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	267	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.0	280	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	66	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
28.3	1,122	Total			

**Summary for Subcatchment 93S: WS1A**

Runoff = 1.68 cfs @ 12.25 hrs, Volume= 0.174 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.011	78	Existing meadow, non-grazed, HSG D
3.065	77	Existing Woods, Good, HSG D
3.076	77	Weighted Average
3.076		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	31	0.0600	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.2	191	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	59	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	193	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	161	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	107	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	79	0.0500	9.26	314.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
28.5	821	Total			

**Summary for Subcatchment 94S: WS1B**

Runoff = 7.71 cfs @ 12.07 hrs, Volume= 0.511 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.425	98	Existing impervious, HSG D
0.427	78	Existing meadow, non-grazed, HSG D
7.619	77	Existing Woods, Good, HSG D
8.471	78	Weighted Average
8.046		94.98% Pervious Area
0.425		5.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.4	336	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	339	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	336	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	278	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	283	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	118	0.0800	13.91	41.73	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.2	164	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	83	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
14.1	2,480	Total			

Summary for Subcatchment 95S: WS1C

Runoff = 9.04 cfs @ 12.49 hrs, Volume= 1.260 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
3.281	98	Existing impervious, HSG D
3.704	78	Existing meadow, non-grazed, HSG D
10.364	77	Existing Woods, Good, HSG D
17.349	81	Weighted Average
14.068		81.09% Pervious Area
3.281		18.91% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	172	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	164	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.9	77	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	157	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.5	350	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.2	219	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	251	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	316	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	73	0.1900	21.44	64.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	300	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	179	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
10.2	342	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	236	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	199	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	224	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	360	0.0800	9.25	92.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
47.4	3,667	Total			

**Summary for Subcatchment 96S: WS1D**

Runoff = 26.72 cfs @ 12.47 hrs, Volume= 3.923 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
4.794	98	Existing impervious, HSG C
1.682	98	Existing impervious, HSG D
15.372	71	Existing meadow, non-grazed, HSG C
10.464	78	Existing meadow, non-grazed, HSG D
27.478	70	Existing Woods, Good, HSG C
19.608	77	Existing Woods, Good, HSG D
79.398	75	Weighted Average
72.922		91.84% Pervious Area
6.476		8.16% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.2300	0.27		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.9	388	0.2300	3.36		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	312	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.8	440	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	123	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.6	266	0.1300	7.32		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
6.2	457	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	130	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	378	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	258	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	263	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
4.2	242	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	150	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	256	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	314	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	390	0.0500	8.83	212.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'

**55310.01-West Mountain-EX**

Type II 24-hr 2-Year Rainfall=2.40"

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n= 0.050 Mountain streams w/large boulders

43.6 6,450 Total

**Summary for Subcatchment 97S: WS24**

Runoff = 3.98 cfs @ 12.55 hrs, Volume= 0.613 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.457	98	Existing impervious, HSG D
0.399	71	Existing meadow, non-grazed, HSG C
3.359	78	Existing meadow, non-grazed, HSG D
0.012	70	Existing Woods, Good, HSG C
5.942	77	Existing Woods, Good, HSG D
10.169	78	Weighted Average
9.712		95.51% Pervious Area
0.457		4.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	43	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
11.8	613	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	420	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	139	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	108	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	227	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	240	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.2	201	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.9	225	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	242	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.0	19	0.2100	12.09	36.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch

51.1 2,477 Total

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Type II 24-hr 2-Year Rainfall=2.40"

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**Summary for Subcatchment 98S: WS19**

Runoff = 1.86 cfs @ 12.54 hrs, Volume= 0.317 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.008	98	Existing impervious, HSG D
0.954	71	Existing meadow, non-grazed, HSG C
0.384	78	Existing meadow, non-grazed, HSG D
4.939	70	Existing Woods, Good, HSG C
1.690	77	Existing Woods, Good, HSG D
7.975	72	Weighted Average
7.967		99.90% Pervious Area
0.008		0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	41	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.3	262	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.3	422	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	501	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	213	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	258	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.7	465	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
47.0	2,264	Total			

**Summary for Subcatchment 103S: WS 1CA**

Runoff = 13.22 cfs @ 12.02 hrs, Volume= 0.730 af, Depth= 1.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"



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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
3.139	98	Existing impervious, HSG D
0.835	78	Existing meadow, non-grazed, HSG D
3.561	77	Existing Woods, Good, HSG D
7.535	86	Weighted Average
4.396		58.34% Pervious Area
3.139		41.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0400	1.57		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
3.0	89	0.0400	0.50		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	161	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	391	0.0500	16.63	166.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
3.6	208	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.1	949	Total			

**Summary for Subcatchment 106S: WS 1G**

Runoff = 12.21 cfs @ 12.35 hrs, Volume= 1.557 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.906	71	Existing meadow, non-grazed, HSG C
12.918	70	Existing Woods, Good, HSG C
0.004	98	Existing impervious, HSG D
3.805	78	Existing meadow, non-grazed, HSG D
16.155	77	Existing Woods, Good, HSG D
33.788	74	Weighted Average
33.784		99.99% Pervious Area
0.004		0.01% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.3	182	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	443	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	118	0.2200	3.28		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.9	458	0.3200	3.96		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	564	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	366	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	162	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	449	0.2000	14.63	146.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	450	0.2000	14.63	146.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	408	0.2100	14.99	149.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.7	554	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	391	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
34.6	4,645	Total			

**Summary for Subcatchment 107S: WS 1H**

Runoff = 15.09 cfs @ 12.65 hrs, Volume= 2.741 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
2.007	71	Existing meadow, non-grazed, HSG C
22.781	70	Existing Woods, Good, HSG C
4.416	78	Existing meadow, non-grazed, HSG D
30.287	77	Existing Woods, Good, HSG D
59.491	74	Weighted Average
59.491		100.00% Pervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	59	0.2300	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	105	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	330	0.3600	4.20		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.3	212	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	108	0.2400	3.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.0	346	0.3300	1.44		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	190	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	320	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	411	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	281	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	255	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	223	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.3	601	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	147	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	403	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	348	0.1600	14.26	199.63	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
0.5	465	0.1900	15.54	217.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
55.9	4,804	Total			

**Summary for Subcatchment 108S: WS1F**

Runoff = 11.36 cfs @ 12.55 hrs, Volume= 1.856 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.002	98	Existing impervious, HSG C
0.362	98	Existing impervious, HSG D
4.817	71	Existing meadow, non-grazed, HSG C
9.293	78	Existing meadow, non-grazed, HSG D
15.585	70	Existing Woods, Good, HSG C
10.235	77	Existing Woods, Good, HSG D

40.294	74	Weighted Average
39.930		99.10% Pervious Area
0.364		0.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	396	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	367	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	394	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	144	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
48.6	4,191	Total			

**Summary for Subcatchment 110S: WS1E**

Runoff = 7.37 cfs @ 12.65 hrs, Volume= 1.367 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.328	98	Existing impervious, HSG C
0.082	98	Existing impervious, HSG D
3.846	71	Existing meadow, non-grazed, HSG C
4.272	78	Existing meadow, non-grazed, HSG D
17.223	70	Existing Woods, Good, HSG C
6.150	77	Existing Woods, Good, HSG D
31.901	73	Weighted Average
31.491		98.71% Pervious Area
0.410		1.29% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	113	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	154	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	191	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	146	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	137	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	204	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	134	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	286	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	261	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	341	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.3	423	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	301	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.9	196	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	223	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.2	189	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
55.4	4,125	Total			

**Summary for Subcatchment 111S: WS4A**

Runoff = 9.70 cfs @ 12.75 hrs, Volume= 1.893 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

**55310.01-West Mountain-EX**

Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.521	71	Existing meadow, non-grazed, HSG C
4.362	78	Existing meadow, non-grazed, HSG D
12.444	70	Existing Woods, Good, HSG C
20.988	77	Existing Woods, Good, HSG D
38.315	75	Weighted Average
38.315		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	73	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.0	529	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	350	0.3400	1.46		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	505	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.5	623	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	355	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	337	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.5	437	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.5	330	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.1	345	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	45	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 ' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
63.9	3,929	Total			

**Summary for Subcatchment 142S: WS1I**

Runoff = 7.10 cfs @ 12.29 hrs, Volume= 0.799 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.123	98	Existing impervious, HSG D
2.494	70	Existing Woods, Good, HSG C
12.485	77	Existing Woods, Good, HSG D
15.102	76	Weighted Average
14.979		99.19% Pervious Area
0.123		0.81% Impervious Area

**55310.01-West Mountain-EX**

Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	293	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	337	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	279	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.8	199	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	431	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
31.2	3,069	Total			

**Summary for Subcatchment 143S: WS1J**

Runoff = 12.11 cfs @ 12.22 hrs, Volume= 1.182 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.230	98	Existing impervious, HSG D
0.095	71	Existing meadow, non-grazed, HSG C
0.159	78	Existing meadow, non-grazed, HSG D
4.342	70	Existing Woods, Good, HSG C
17.520	77	Existing Woods, Good, HSG D
22.346	76	Weighted Average
22.116		98.97% Pervious Area
0.230		1.03% Impervious Area



**55310.01-West Mountain-EX**

Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.3	269	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	336	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	167	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	486	0.1300	15.28	641.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	546	0.1700	17.48	734.06	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	483	0.1200	14.68	616.73	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	426	0.1100	14.06	590.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.4	336	0.0900	12.72	534.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
25.4	3,101	Total			

**Summary for Reach 40R: stream**

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 0.59" for 2-Year event  
 Inflow = 9.51 cfs @ 12.97 hrs, Volume= 1.893 af  
 Outflow = 9.49 cfs @ 13.06 hrs, Volume= 1.893 af, Atten= 0%, Lag= 4.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 4.36 fps, Min. Travel Time= 2.9 min  
 Avg. Velocity= 1.50 fps, Avg. Travel Time= 8.6 min

Peak Storage= 1,677 cf @ 13.01 hrs  
 Average Depth at Peak Storage= 0.34' , Surface Width= 6.69'  
 Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders  
 Side Slope Z-value= 1.0 '/' Top Width= 10.00'  
 Length= 770.0' Slope= 0.1013 '/'  
 Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'



Summary for Reach 42R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 0.59" for 2-Year event
Inflow = 9.70 cfs @ 12.75 hrs, Volume= 1.893 af
Outflow = 9.51 cfs @ 12.97 hrs, Volume= 1.893 af, Atten= 2%, Lag= 13.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.37 fps, Min. Travel Time= 7.6 min
Avg. Velocity = 1.74 fps, Avg. Travel Time= 23.4 min

Peak Storage= 4,325 cf @ 12.85 hrs
Average Depth at Peak Storage= 0.33', Surface Width= 5.66'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 2,440.0' Slope= 0.1639 '/'
Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'



Summary for Reach 102R: stream

Inflow Area = 315.675 ac, 4.58% Impervious, Inflow Depth = 0.61" for 2-Year event
Inflow = 84.89 cfs @ 12.61 hrs, Volume= 15.927 af
Outflow = 84.53 cfs @ 12.68 hrs, Volume= 15.927 af, Atten= 0%, Lag= 3.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.47 fps, Min. Travel Time= 2.3 min
Avg. Velocity = 2.14 fps, Avg. Travel Time= 6.9 min

Peak Storage= 11,640 cf @ 12.64 hrs
Average Depth at Peak Storage= 1.01', Surface Width= 14.01'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 890.0' Slope= 0.0562 '/'
Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 0.55" for 2-Year event
Inflow = 23.91 cfs @ 12.64 hrs, Volume= 4.297 af
Outflow = 23.87 cfs @ 12.67 hrs, Volume= 4.297 af, Atten= 0%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.18 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.88 fps, Avg. Travel Time= 2.4 min

Peak Storage= 1,269 cf @ 12.65 hrs
Average Depth at Peak Storage= 0.54' , Surface Width= 9.08'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 14.00'
Length= 275.0' Slope= 0.0800 ' '
Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 159.128 ac, 6.53% Impervious, Inflow Depth = 0.59" for 2-Year event
Inflow = 43.72 cfs @ 12.63 hrs, Volume= 7.877 af
Outflow = 43.60 cfs @ 12.66 hrs, Volume= 7.877 af, Atten= 0%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.93 fps, Min. Travel Time= 1.2 min
Avg. Velocity = 2.40 fps, Avg. Travel Time= 3.4 min

Peak Storage= 3,123 cf @ 12.64 hrs
Average Depth at Peak Storage= 0.72' , Surface Width= 9.45'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 14.00'
Length= 495.0' Slope= 0.1010 ' '
Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 0.55" for 2-Year event
Inflow = 24.29 cfs @ 12.49 hrs, Volume= 4.297 af
Outflow = 23.91 cfs @ 12.64 hrs, Volume= 4.297 af, Atten= 2%, Lag= 9.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.26 fps, Min. Travel Time= 5.2 min
Avg. Velocity = 2.22 fps, Avg. Travel Time= 14.8 min

Peak Storage= 7,534 cf @ 12.55 hrs
Average Depth at Peak Storage= 0.45' , Surface Width= 8.91'
Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 12.00'
Length= 1,968.0' Slope= 0.1443 ' '
Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 151.593 ac, 4.78% Impervious, Inflow Depth = 0.57" for 2-Year event
Inflow = 42.71 cfs @ 12.57 hrs, Volume= 7.147 af
Outflow = 42.48 cfs @ 12.63 hrs, Volume= 7.147 af, Atten= 1%, Lag= 4.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.33 fps, Min. Travel Time= 2.3 min
Avg. Velocity = 3.13 fps, Avg. Travel Time= 6.2 min

Peak Storage= 6,000 cf @ 12.59 hrs
Average Depth at Peak Storage= 0.76' , Surface Width= 7.51'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 12.00'
Length= 1,175.0' Slope= 0.1464 ' '
Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 40.294 ac, 0.90% Impervious, Inflow Depth = 0.55" for 2-Year event
Inflow = 11.36 cfs @ 12.55 hrs, Volume= 1.856 af
Outflow = 11.32 cfs @ 12.60 hrs, Volume= 1.856 af, Atten= 0%, Lag= 2.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.71 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 2.76 fps, Avg. Travel Time= 4.1 min

Peak Storage= 1,161 cf @ 12.57 hrs
Average Depth at Peak Storage= 0.49' , Surface Width= 3.97'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 686.0' Slope= 0.1808 ' '
Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



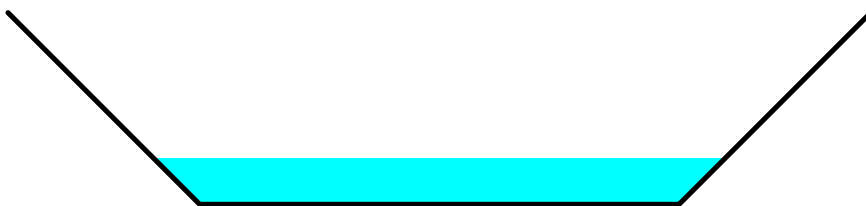
Summary for Reach 112R: stream

Inflow Area = 72.195 ac, 1.07% Impervious, Inflow Depth = 0.54" for 2-Year event
Inflow = 18.65 cfs @ 12.62 hrs, Volume= 3.224 af
Outflow = 18.57 cfs @ 12.70 hrs, Volume= 3.224 af, Atten= 0%, Lag= 5.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.99 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 2.70 fps, Avg. Travel Time= 7.6 min

Peak Storage= 3,270 cf @ 12.65 hrs
Average Depth at Peak Storage= 0.48' , Surface Width= 5.97'
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 9.00'
Length= 1,230.0' Slope= 0.1772 ' '
Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



**Summary for Link SP1:**

Inflow Area = 322.567 ac, 4.49% Impervious, Inflow Depth = 0.61" for 2-Year event  
Inflow = 85.81 cfs @ 12.67 hrs, Volume= 16.317 af  
Primary = 85.81 cfs @ 12.67 hrs, Volume= 16.317 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP10:**

Inflow Area = 0.758 ac, 3.56% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 0.67 cfs @ 12.08 hrs, Volume= 0.046 af  
Primary = 0.67 cfs @ 12.08 hrs, Volume= 0.046 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP11:**

Inflow Area = 16.815 ac, 1.46% Impervious, Inflow Depth = 0.59" for 2-Year event  
Inflow = 3.60 cfs @ 12.97 hrs, Volume= 0.831 af  
Primary = 3.60 cfs @ 12.97 hrs, Volume= 0.831 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP12:**

Inflow Area = 9.755 ac, 2.26% Impervious, Inflow Depth = 0.59" for 2-Year event  
Inflow = 3.87 cfs @ 12.35 hrs, Volume= 0.482 af  
Primary = 3.87 cfs @ 12.35 hrs, Volume= 0.482 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP13:**

Inflow Area = 22.285 ac, 1.05% Impervious, Inflow Depth = 0.51" for 2-Year event  
Inflow = 3.35 cfs @ 13.30 hrs, Volume= 0.955 af  
Primary = 3.35 cfs @ 13.30 hrs, Volume= 0.955 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP14:**

Inflow Area = 3.587 ac, 5.07% Impervious, Inflow Depth = 0.59" for 2-Year event  
Inflow = 1.49 cfs @ 12.31 hrs, Volume= 0.177 af  
Primary = 1.49 cfs @ 12.31 hrs, Volume= 0.177 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP15:**

Inflow Area = 37.339 ac, 0.18% Impervious, Inflow Depth = 0.51" for 2-Year event  
Inflow = 5.99 cfs @ 13.20 hrs, Volume= 1.601 af  
Primary = 5.99 cfs @ 13.20 hrs, Volume= 1.601 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP16:**

Inflow Area = 0.416 ac, 18.75% Impervious, Inflow Depth = 0.87" for 2-Year event  
Inflow = 0.51 cfs @ 12.05 hrs, Volume= 0.030 af  
Primary = 0.51 cfs @ 12.05 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP17:**

Inflow Area = 7.386 ac, 2.63% Impervious, Inflow Depth = 0.51" for 2-Year event  
Inflow = 2.29 cfs @ 12.39 hrs, Volume= 0.317 af  
Primary = 2.29 cfs @ 12.39 hrs, Volume= 0.317 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP18:**

Inflow Area = 1.599 ac, 1.31% Impervious, Inflow Depth = 0.48" for 2-Year event  
Inflow = 0.57 cfs @ 12.24 hrs, Volume= 0.064 af  
Primary = 0.57 cfs @ 12.24 hrs, Volume= 0.064 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP19:**

Inflow Area = 7.975 ac, 0.10% Impervious, Inflow Depth = 0.48" for 2-Year event  
Inflow = 1.86 cfs @ 12.54 hrs, Volume= 0.317 af  
Primary = 1.86 cfs @ 12.54 hrs, Volume= 0.317 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP2:**

Inflow Area = 4.825 ac, 1.45% Impervious, Inflow Depth = 0.68" for 2-Year event  
Inflow = 1.93 cfs @ 12.46 hrs, Volume= 0.273 af  
Primary = 1.93 cfs @ 12.46 hrs, Volume= 0.273 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP20:**

Inflow Area = 40.004 ac, 3.65% Impervious, Inflow Depth = 0.55" for 2-Year event  
Inflow = 10.25 cfs @ 12.65 hrs, Volume= 1.843 af  
Primary = 10.25 cfs @ 12.65 hrs, Volume= 1.843 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP21:**

Inflow Area = 6.228 ac, 0.32% Impervious, Inflow Depth = 0.51" for 2-Year event  
Inflow = 1.83 cfs @ 12.43 hrs, Volume= 0.267 af  
Primary = 1.83 cfs @ 12.43 hrs, Volume= 0.267 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP22:**

Inflow Area = 7.516 ac, 0.98% Impervious, Inflow Depth = 0.68" for 2-Year event  
Inflow = 2.86 cfs @ 12.51 hrs, Volume= 0.425 af  
Primary = 2.86 cfs @ 12.51 hrs, Volume= 0.425 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP23:**

Inflow Area = 2.642 ac, 1.48% Impervious, Inflow Depth = 0.63" for 2-Year event  
Inflow = 1.33 cfs @ 12.26 hrs, Volume= 0.140 af  
Primary = 1.33 cfs @ 12.26 hrs, Volume= 0.140 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP24:**

Inflow Area = 10.169 ac, 4.49% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 3.98 cfs @ 12.55 hrs, Volume= 0.613 af  
Primary = 3.98 cfs @ 12.55 hrs, Volume= 0.613 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP3:**

Inflow Area = 1.513 ac, 4.49% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 1.20 cfs @ 12.12 hrs, Volume= 0.091 af  
Primary = 1.20 cfs @ 12.12 hrs, Volume= 0.091 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



**Summary for Link SP4:**

Inflow Area = 58.640 ac, 0.49% Impervious, Inflow Depth = 0.61" for 2-Year event  
Inflow = 13.77 cfs @ 12.12 hrs, Volume= 2.969 af  
Primary = 13.77 cfs @ 12.12 hrs, Volume= 2.969 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP5:**

Inflow Area = 3.053 ac, 0.39% Impervious, Inflow Depth = 0.68" for 2-Year event  
Inflow = 1.48 cfs @ 12.32 hrs, Volume= 0.173 af  
Primary = 1.48 cfs @ 12.32 hrs, Volume= 0.173 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP6:**

Inflow Area = 29.113 ac, 0.99% Impervious, Inflow Depth = 0.63" for 2-Year event  
Inflow = 11.72 cfs @ 12.39 hrs, Volume= 1.540 af  
Primary = 11.72 cfs @ 12.39 hrs, Volume= 1.540 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP7:**

Inflow Area = 26.547 ac, 0.94% Impervious, Inflow Depth = 0.63" for 2-Year event  
Inflow = 8.91 cfs @ 12.55 hrs, Volume= 1.404 af  
Primary = 8.91 cfs @ 12.55 hrs, Volume= 1.404 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP8:**

Inflow Area = 0.343 ac, 19.24% Impervious, Inflow Depth = 0.87" for 2-Year event  
Inflow = 0.58 cfs @ 11.91 hrs, Volume= 0.025 af  
Primary = 0.58 cfs @ 11.91 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP9:**

Inflow Area = 8.117 ac, 2.27% Impervious, Inflow Depth = 0.59" for 2-Year event  
Inflow = 2.45 cfs @ 12.57 hrs, Volume= 0.401 af  
Primary = 2.45 cfs @ 12.57 hrs, Volume= 0.401 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

<b>Subcatchment70S: WS1</b>	Runoff Area=3.816 ac 0.50% Impervious Runoff Depth=1.36" Flow Length=1,200' Tc=20.2 min CN=77 Runoff=5.58 cfs 0.431 af
<b>Subcatchment72S: WS2</b>	Runoff Area=4.825 ac 1.45% Impervious Runoff Depth=1.36" Flow Length=1,847' Tc=44.0 min CN=77 Runoff=4.20 cfs 0.545 af
<b>Subcatchment73S: WS3</b>	Runoff Area=1.513 ac 4.49% Impervious Runoff Depth=1.42" Flow Length=681' Tc=18.2 min CN=78 Runoff=2.48 cfs 0.179 af
<b>Subcatchment74S: WS4</b>	Runoff Area=20.325 ac 1.41% Impervious Runoff Depth=1.29" Flow Length=3,739' Tc=18.0 min CN=76 Runoff=30.13 cfs 2.190 af
<b>Subcatchment75S: WS5</b>	Runoff Area=3.053 ac 0.39% Impervious Runoff Depth=1.36" Flow Length=1,271' Tc=33.9 min CN=77 Runoff=3.20 cfs 0.345 af
<b>Subcatchment76S: WS6</b>	Runoff Area=29.113 ac 0.99% Impervious Runoff Depth=1.29" Flow Length=4,403' Tc=38.7 min CN=76 Runoff=26.28 cfs 3.138 af
<b>Subcatchment77S: WS7</b>	Runoff Area=26.547 ac 0.94% Impervious Runoff Depth=1.29" Flow Length=4,636' Tc=49.7 min CN=76 Runoff=19.98 cfs 2.861 af
<b>Subcatchment78S: WS8</b>	Runoff Area=0.343 ac 19.24% Impervious Runoff Depth=1.63" Flow Length=327' Tc=1.4 min CN=81 Runoff=1.09 cfs 0.047 af
<b>Subcatchment79S: WS9</b>	Runoff Area=8.117 ac 2.27% Impervious Runoff Depth=1.23" Flow Length=2,783' Tc=50.5 min CN=75 Runoff=5.70 cfs 0.833 af
<b>Subcatchment80S: WS10</b>	Runoff Area=0.758 ac 3.56% Impervious Runoff Depth=1.42" Flow Length=424' Tc=14.8 min CN=78 Runoff=1.38 cfs 0.090 af
<b>Subcatchment81S: WS11</b>	Runoff Area=16.815 ac 1.46% Impervious Runoff Depth=1.23" Flow Length=4,402' Tc=80.4 min CN=75 Runoff=8.37 cfs 1.726 af
<b>Subcatchment82S: WS12</b>	Runoff Area=9.755 ac 2.26% Impervious Runoff Depth=1.23" Flow Length=2,300' Tc=34.7 min CN=75 Runoff=8.97 cfs 1.001 af
<b>Subcatchment83S: WS13</b>	Runoff Area=22.285 ac 1.05% Impervious Runoff Depth=1.11" Flow Length=6,015' Tc=100.4 min CN=73 Runoff=8.27 cfs 2.067 af
<b>Subcatchment84S: WS14</b>	Runoff Area=3.587 ac 5.07% Impervious Runoff Depth=1.23" Flow Length=1,401' Tc=32.5 min CN=75 Runoff=3.45 cfs 0.368 af
<b>Subcatchment85S: WS15</b>	Runoff Area=37.339 ac 0.18% Impervious Runoff Depth=1.11" Flow Length=6,278' Tc=92.0 min CN=73 Runoff=14.75 cfs 3.463 af
<b>Subcatchment86S: WS16</b>	Runoff Area=0.416 ac 18.75% Impervious Runoff Depth=1.63" Flow Length=267' Tc=11.9 min CN=81 Runoff=0.96 cfs 0.056 af

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<b>Subcatchment87S: WS17</b>	Runoff Area=7.386 ac 2.63% Impervious Runoff Depth=1.11" Flow Length=2,290' Tc=37.1 min CN=73 Runoff=5.72 cfs 0.685 af
<b>Subcatchment88S: WS18</b>	Runoff Area=1.599 ac 1.31% Impervious Runoff Depth=1.06" Flow Length=978' Tc=26.1 min CN=72 Runoff=1.48 cfs 0.141 af
<b>Subcatchment89S: WS20</b>	Runoff Area=40.004 ac 3.65% Impervious Runoff Depth=1.17" Flow Length=4,364' Tc=55.5 min CN=74 Runoff=24.64 cfs 3.905 af
<b>Subcatchment90S: WS21</b>	Runoff Area=6.228 ac 0.32% Impervious Runoff Depth=1.11" Flow Length=1,797' Tc=39.9 min CN=73 Runoff=4.58 cfs 0.578 af
<b>Subcatchment91S: WS22</b>	Runoff Area=7.516 ac 0.98% Impervious Runoff Depth=1.36" Flow Length=2,111' Tc=47.3 min CN=77 Runoff=6.22 cfs 0.850 af
<b>Subcatchment92S: WS23</b>	Runoff Area=2.642 ac 1.48% Impervious Runoff Depth=1.29" Flow Length=1,122' Tc=28.3 min CN=76 Runoff=2.95 cfs 0.285 af
<b>Subcatchment93S: WS1A</b>	Runoff Area=3.076 ac 0.00% Impervious Runoff Depth=1.36" Flow Length=821' Tc=28.5 min CN=77 Runoff=3.62 cfs 0.348 af
<b>Subcatchment94S: WS1B</b>	Runoff Area=8.471 ac 5.02% Impervious Runoff Depth=1.42" Flow Length=2,480' Tc=14.1 min CN=78 Runoff=15.81 cfs 1.004 af
<b>Subcatchment95S: WS1C</b>	Runoff Area=17.349 ac 18.91% Impervious Runoff Depth=1.63" Flow Length=3,667' Tc=47.4 min CN=81 Runoff=17.63 cfs 2.354 af
<b>Subcatchment96S: WS1D</b>	Runoff Area=79.398 ac 8.16% Impervious Runoff Depth=1.23" Flow Length=6,450' Tc=43.6 min CN=75 Runoff=62.04 cfs 8.148 af
<b>Subcatchment97S: WS24</b>	Runoff Area=10.169 ac 4.49% Impervious Runoff Depth=1.42" Flow Length=2,477' Tc=51.1 min CN=78 Runoff=8.39 cfs 1.205 af
<b>Subcatchment98S: WS19</b>	Runoff Area=7.975 ac 0.10% Impervious Runoff Depth=1.06" Flow Length=2,264' Tc=47.0 min CN=72 Runoff=4.87 cfs 0.702 af
<b>Subcatchment103S: WS 1CA</b>	Runoff Area=7.535 ac 41.66% Impervious Runoff Depth=2.01" Flow Length=949' Tc=10.1 min CN=86 Runoff=22.70 cfs 1.262 af
<b>Subcatchment106S: WS 1G</b>	Runoff Area=33.788 ac 0.01% Impervious Runoff Depth=1.17" Flow Length=4,645' Tc=34.6 min CN=74 Runoff=29.30 cfs 3.298 af
<b>Subcatchment107S: WS 1H</b>	Runoff Area=59.491 ac 0.00% Impervious Runoff Depth=1.17" Flow Length=4,804' Tc=55.9 min CN=74 Runoff=36.48 cfs 5.807 af
<b>Subcatchment108S: WS1F</b>	Runoff Area=40.294 ac 0.90% Impervious Runoff Depth=1.17" Flow Length=4,191' Tc=48.6 min CN=74 Runoff=27.39 cfs 3.933 af
<b>Subcatchment110S: WS1E</b>	Runoff Area=31.901 ac 1.29% Impervious Runoff Depth=1.11" Flow Length=4,125' Tc=55.4 min CN=73 Runoff=18.47 cfs 2.959 af

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<b>Subcatchment111S: WS4A</b>	Runoff Area=38.315 ac 0.00% Impervious Runoff Depth=1.23" Flow Length=3,929' Tc=63.9 min CN=75 Runoff=22.62 cfs 3.932 af
<b>Subcatchment142S: WS1I</b>	Runoff Area=15.102 ac 0.81% Impervious Runoff Depth=1.29" Flow Length=3,069' Tc=31.2 min CN=76 Runoff=15.85 cfs 1.628 af
<b>Subcatchment143S: WS1J</b>	Runoff Area=22.346 ac 1.03% Impervious Runoff Depth=1.29" Flow Length=3,101' Tc=25.4 min CN=76 Runoff=26.84 cfs 2.408 af
<b>Reach 40R: stream</b>	Avg. Flow Depth=0.57' Max Vel=5.91 fps Inflow=22.32 cfs 3.932 af n=0.050 L=770.0' S=0.1013 '/' Capacity=186.92 cfs Outflow=22.25 cfs 3.932 af
<b>Reach 42R: stream</b>	Avg. Flow Depth=0.55' Max Vel=7.25 fps Inflow=22.62 cfs 3.932 af n=0.050 L=2,440.0' S=0.1639 '/' Capacity=60.47 cfs Outflow=22.32 cfs 3.932 af
<b>Reach 102R: stream</b>	Avg. Flow Depth=1.69' Max Vel=8.72 fps Inflow=201.57 cfs 32.801 af n=0.050 L=890.0' S=0.0562 '/' Capacity=883.89 cfs Outflow=200.86 cfs 32.801 af
<b>Reach 103R: stream</b>	Avg. Flow Depth=0.92' Max Vel=7.09 fps Inflow=58.42 cfs 9.106 af n=0.050 L=275.0' S=0.0800 '/' Capacity=440.61 cfs Outflow=58.28 cfs 9.106 af
<b>Reach 104R: stream</b>	Avg. Flow Depth=1.22' Max Vel=9.32 fps Inflow=104.72 cfs 16.302 af n=0.050 L=495.0' S=0.1010 '/' Capacity=495.10 cfs Outflow=104.41 cfs 16.302 af
<b>Reach 108R: stream</b>	Avg. Flow Depth=0.77' Max Vel=8.62 fps Inflow=58.98 cfs 9.106 af n=0.050 L=1,968.0' S=0.1443 '/' Capacity=291.19 cfs Outflow=58.42 cfs 9.106 af
<b>Reach 110R: stream</b>	Avg. Flow Depth=1.27' Max Vel=11.10 fps Inflow=102.88 cfs 15.040 af n=0.050 L=1,175.0' S=0.1464 '/' Capacity=465.00 cfs Outflow=102.47 cfs 15.040 af
<b>Reach 111R: upperstream</b>	Avg. Flow Depth=0.81' Max Vel=8.83 fps Inflow=27.39 cfs 3.933 af n=0.050 L=686.0' S=0.1808 '/' Capacity=139.11 cfs Outflow=27.29 cfs 3.933 af
<b>Reach 112R: stream</b>	Avg. Flow Depth=0.83' Max Vel=9.45 fps Inflow=45.59 cfs 6.892 af n=0.050 L=1,230.0' S=0.1772 '/' Capacity=210.11 cfs Outflow=45.40 cfs 6.892 af
<b>Link SP1:</b>	Inflow=203.85 cfs 33.580 af Primary=203.85 cfs 33.580 af
<b>Link SP10:</b>	Inflow=1.38 cfs 0.090 af Primary=1.38 cfs 0.090 af
<b>Link SP11:</b>	Inflow=8.37 cfs 1.726 af Primary=8.37 cfs 1.726 af
<b>Link SP12:</b>	Inflow=8.97 cfs 1.001 af Primary=8.97 cfs 1.001 af
<b>Link SP13:</b>	Inflow=8.27 cfs 2.067 af Primary=8.27 cfs 2.067 af

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<b>Link SP14:</b>	Inflow=3.45 cfs 0.368 af Primary=3.45 cfs 0.368 af
<b>Link SP15:</b>	Inflow=14.75 cfs 3.463 af Primary=14.75 cfs 3.463 af
<b>Link SP16:</b>	Inflow=0.96 cfs 0.056 af Primary=0.96 cfs 0.056 af
<b>Link SP17:</b>	Inflow=5.72 cfs 0.685 af Primary=5.72 cfs 0.685 af
<b>Link SP18:</b>	Inflow=1.48 cfs 0.141 af Primary=1.48 cfs 0.141 af
<b>Link SP19:</b>	Inflow=4.87 cfs 0.702 af Primary=4.87 cfs 0.702 af
<b>Link SP2:</b>	Inflow=4.20 cfs 0.545 af Primary=4.20 cfs 0.545 af
<b>Link SP20:</b>	Inflow=24.64 cfs 3.905 af Primary=24.64 cfs 3.905 af
<b>Link SP21:</b>	Inflow=4.58 cfs 0.578 af Primary=4.58 cfs 0.578 af
<b>Link SP22:</b>	Inflow=6.22 cfs 0.850 af Primary=6.22 cfs 0.850 af
<b>Link SP23:</b>	Inflow=2.95 cfs 0.285 af Primary=2.95 cfs 0.285 af
<b>Link SP24:</b>	Inflow=8.39 cfs 1.205 af Primary=8.39 cfs 1.205 af
<b>Link SP3:</b>	Inflow=2.48 cfs 0.179 af Primary=2.48 cfs 0.179 af
<b>Link SP4:</b>	Inflow=30.76 cfs 6.123 af Primary=30.76 cfs 6.123 af
<b>Link SP5:</b>	Inflow=3.20 cfs 0.345 af Primary=3.20 cfs 0.345 af
<b>Link SP6:</b>	Inflow=26.28 cfs 3.138 af Primary=26.28 cfs 3.138 af
<b>Link SP7:</b>	Inflow=19.98 cfs 2.861 af Primary=19.98 cfs 2.861 af

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**Link SP8:**

Inflow=1.09 cfs 0.047 af  
Primary=1.09 cfs 0.047 af

**Link SP9:**

Inflow=5.70 cfs 0.833 af  
Primary=5.70 cfs 0.833 af

**Total Runoff Area = 629.192 ac   Runoff Volume = 64.771 af   Average Runoff Depth = 1.24"**  
**96.98% Pervious = 610.171 ac   3.02% Impervious = 19.021 ac**

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**Summary for Subcatchment 70S: WS1**

Runoff = 5.58 cfs @ 12.14 hrs, Volume= 0.431 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.019	98	Existing impervious, HSG D
0.032	78	Existing meadow, non-grazed, HSG D
3.765	77	Existing Woods, Good, HSG D
3.816	77	Weighted Average
3.797		99.50% Pervious Area
0.019		0.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.0	358	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	299	0.0600	9.68	232.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
20.2	1,200	Total			

**Summary for Subcatchment 72S: WS2**

Runoff = 4.20 cfs @ 12.44 hrs, Volume= 0.545 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.070	98	Existing impervious, HSG D
0.750	78	Existing meadow, non-grazed, HSG D
4.005	77	Existing Woods, Good, HSG D
4.825	77	Weighted Average
4.755		98.55% Pervious Area
0.070		1.45% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	49	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	349	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	156	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	279	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	154	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.5	339	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.3	374	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	147	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
44.0	1,847	Total			

**Summary for Subcatchment 73S: WS3**

Runoff = 2.48 cfs @ 12.11 hrs, Volume= 0.179 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.068	98	Existing impervious, HSG D
0.254	78	Existing meadow, non-grazed, HSG D
1.191	77	Existing Woods, Good, HSG D
1.513	78	Weighted Average
1.445		95.51% Pervious Area
0.068		4.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	60	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	97	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	169	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	319	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
18.2	681	Total			



**Summary for Subcatchment 74S: WS4**

Runoff = 30.13 cfs @ 12.11 hrs, Volume= 2.190 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.287	98	Existing impervious, HSG D
0.739	71	Existing meadow, non-grazed, HSG C
1.095	78	Existing meadow, non-grazed, HSG D
2.883	70	Existing Woods, Good, HSG C
15.321	77	Existing Woods, Good, HSG D
20.325	76	Weighted Average
20.038		98.59% Pervious Area
0.287		1.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.4	164	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	417	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	544	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	711	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	404	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	338	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	432	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.8	424	0.0800	9.25	92.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	249	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
18.0	3,739	Total			

**Summary for Subcatchment 75S: WS5**

Runoff = 3.20 cfs @ 12.31 hrs, Volume= 0.345 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.012	98	Existing impervious, HSG D
0.032	78	Existing meadow, non-grazed, HSG D
3.009	77	Existing Woods, Good, HSG D
3.053	77	Weighted Average
3.041		99.61% Pervious Area
0.012		0.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	35	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	169	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.7	271	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
33.9	1,271	Total			

**Summary for Subcatchment 76S: WS6**

Runoff = 26.28 cfs @ 12.37 hrs, Volume= 3.138 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.537	71	Existing meadow, non-grazed, HSG C
3.855	70	Existing Woods, Good, HSG C
0.287	98	Existing impervious, HSG D
3.372	78	Existing meadow, non-grazed, HSG D
21.062	77	Existing Woods, Good, HSG D
29.113	76	Weighted Average
28.826		99.01% Pervious Area
0.287		0.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	10	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	145	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.7	333	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.8	441	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	290	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	290	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.8	681	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	418	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	729	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	465	0.1300	11.80	117.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	466	0.0600	8.01	80.15	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.1	85	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 'l' Top.W=4.00' n= 0.022 Earth, clean & straight
38.7	4,403	Total			

**Summary for Subcatchment 77S: WS7**

Runoff = 19.98 cfs @ 12.52 hrs, Volume= 2.861 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.688	71	Existing meadow, non-grazed, HSG C
5.100	70	Existing Woods, Good, HSG C
0.250	98	Existing impervious, HSG D
3.025	78	Existing meadow, non-grazed, HSG D
17.484	77	Existing Woods, Good, HSG D
26.547	76	Weighted Average
26.297		99.06% Pervious Area
0.250		0.94% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	64	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.0	312	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	360	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
12.6	565	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.0	406	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	185	0.4100	1.60		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	324	0.3000	17.92	179.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	279	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	330	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	224	0.1100	10.85	108.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	139	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	287	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	361	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	417	0.1100	10.85	108.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	253	0.0500	7.32	73.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.1	130	0.0800	21.03	210.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
49.7	4,636	Total			

**Summary for Subcatchment 78S: WS8**

Runoff = 1.09 cfs @ 11.91 hrs, Volume= 0.047 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.066	98	Existing impervious, HSG D
0.047	78	Existing meadow, non-grazed, HSG D
0.230	77	Existing Woods, Good, HSG D
0.343	81	Weighted Average
0.277		80.76% Pervious Area
0.066		19.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	40	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	11	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	276	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
1.4	327	Total			

**Summary for Subcatchment 79S: WS9**

Runoff = 5.70 cfs @ 12.53 hrs, Volume= 0.833 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.078	71	Existing meadow, non-grazed, HSG C
2.614	70	Existing Woods, Good, HSG C
0.184	98	Existing impervious, HSG D
0.343	78	Existing meadow, non-grazed, HSG D
4.898	77	Existing Woods, Good, HSG D
8.117	75	Weighted Average
7.933		97.73% Pervious Area
0.184		2.27% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	27	0.0500	0.04		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.4	283	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.3	583	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.0	403	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	554	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	172	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	350	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	411	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
50.5	2,783	Total			

**Summary for Subcatchment 80S: WS10**

Runoff = 1.38 cfs @ 12.07 hrs, Volume= 0.090 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.027	98	Existing impervious, HSG D
0.044	78	Existing meadow, non-grazed, HSG D
0.687	77	Existing Woods, Good, HSG D
0.758	78	Weighted Average
0.731		96.44% Pervious Area
0.027		3.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	70	0.3100	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	65	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	187	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
14.8	424	Total			

**Summary for Subcatchment 81S: WS11**

Runoff = 8.37 cfs @ 12.94 hrs, Volume= 1.726 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.245	98	Existing impervious, HSG D
1.349	71	Existing meadow, non-grazed, HSG C
2.297	78	Existing meadow, non-grazed, HSG D
4.751	70	Existing Woods, Good, HSG C
8.173	77	Existing Woods, Good, HSG D
16.815	75	Weighted Average
16.570		98.54% Pervious Area
0.245		1.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	65	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	366	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.1	527	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.5	398	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
17.0	763	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	211	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	377	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.2	506	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	368	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	220	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.1	401	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	200	0.0900	22.31	223.09	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
80.4	4,402	Total			



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**Summary for Subcatchment 82S: WS12**

Runoff = 8.97 cfs @ 12.32 hrs, Volume= 1.001 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.280	71	Existing meadow, non-grazed, HSG C
3.976	70	Existing Woods, Good, HSG C
0.220	98	Existing impervious, HSG D
1.035	78	Existing meadow, non-grazed, HSG D
4.244	77	Existing Woods, Good, HSG D
9.755	75	Weighted Average
9.535		97.74% Pervious Area
0.220		2.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	41	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.4	320	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.0	562	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	281	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	261	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	284	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	261	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
34.7	2,300	Total			

**Summary for Subcatchment 83S: WS13**

Runoff = 8.27 cfs @ 13.26 hrs, Volume= 2.067 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
4.203	71	Existing meadow, non-grazed, HSG C
9.072	70	Existing Woods, Good, HSG C
0.235	98	Existing impervious, HSG D
1.694	78	Existing meadow, non-grazed, HSG D
7.081	77	Existing Woods, Good, HSG D
22.285	73	Weighted Average
22.050		98.95% Pervious Area
0.235		1.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	76	0.3700	0.12		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.9	537	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	448	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	645	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.6	497	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	536	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.2	434	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.1	714	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.2	649	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.9	645	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	307	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	328	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	199	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
100.4	6,015	Total			

**Summary for Subcatchment 84S: WS14**

Runoff = 3.45 cfs @ 12.29 hrs, Volume= 0.368 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.691	71	Existing meadow, non-grazed, HSG C
0.959	70	Existing Woods, Good, HSG C
0.182	98	Existing impervious, HSG D
0.231	78	Existing meadow, non-grazed, HSG D
1.524	77	Existing Woods, Good, HSG D
3.587	75	Weighted Average
3.405		94.93% Pervious Area
0.182		5.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	45	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.1	8	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.1	350	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	313	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	294	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	168	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	163	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	60	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' / Top.W=4.00' n= 0.022 Earth, clean & straight
32.5	1,401	Total			

**Summary for Subcatchment 85S: WS15**

Runoff = 14.75 cfs @ 13.14 hrs, Volume= 3.463 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
8.870	71	Existing meadow, non-grazed, HSG C
16.898	70	Existing Woods, Good, HSG C
0.067	98	Existing impervious, HSG D
2.332	78	Existing meadow, non-grazed, HSG D
9.172	77	Existing Woods, Good, HSG D
37.339	73	Weighted Average
37.272		99.82% Pervious Area
0.067		0.18% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	72	0.3300	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.8	586	0.3300	1.44		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.9	673	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.6	625	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	664	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	484	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.7	700	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.6	529	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.6	717	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	573	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	386	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	150	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.8	119	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
92.0	6,278	Total			

**Summary for Subcatchment 86S: WS16**

Runoff = 0.96 cfs @ 12.04 hrs, Volume= 0.056 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.078	98	Existing impervious, HSG D
0.048	78	Existing meadow, non-grazed, HSG D
0.290	77	Existing Woods, Good, HSG D
0.416	81	Weighted Average
0.338		81.25% Pervious Area
0.078		18.75% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	51	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.0	63	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	153	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
11.9	267	Total			

**Summary for Subcatchment 87S: WS17**

Runoff = 5.72 cfs @ 12.36 hrs, Volume= 0.685 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.194	98	Existing impervious, HSG D
1.145	71	Existing meadow, non-grazed, HSG C
0.402	78	Existing meadow, non-grazed, HSG D
3.907	70	Existing Woods, Good, HSG C
1.738	77	Existing Woods, Good, HSG D
7.386	73	Weighted Average
7.192		97.37% Pervious Area
0.194		2.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	44	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
9.8	531	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	236	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	372	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	437	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	142	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	238	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
37.1	2,290	Total			

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**Summary for Subcatchment 88S: WS18**

Runoff = 1.48 cfs @ 12.22 hrs, Volume= 0.141 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.172	71	Existing meadow, non-grazed, HSG C
1.110	70	Existing Woods, Good, HSG C
0.021	98	Existing impervious, HSG D
0.028	78	Existing meadow, non-grazed, HSG D
0.268	77	Existing Woods, Good, HSG D
1.599	72	Weighted Average
1.578		98.69% Pervious Area
0.021		1.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	57	0.2100	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.0	68	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	218	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	281	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	258	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	96	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
26.1	978	Total			

**Summary for Subcatchment 89S: WS20**

Runoff = 24.64 cfs @ 12.61 hrs, Volume= 3.905 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
1.023	98	Existing impervious, HSG C
0.436	98	Existing impervious, HSG D
6.987	71	Existing meadow, non-grazed, HSG C
6.713	78	Existing meadow, non-grazed, HSG D
16.006	70	Existing Woods, Good, HSG C
8.839	77	Existing Woods, Good, HSG D
40.004	74	Weighted Average
38.545		96.35% Pervious Area
1.459		3.65% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.9	242	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	278	0.2500	3.50		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	258	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.9	134	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	77	0.2600	3.57		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	165	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.4	177	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	237	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.7	232	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.7	544	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.4	332	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	188	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	252	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	298	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	200	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	229	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	227	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	242	0.1300	11.80	117.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
55.5	4,364	Total			

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**Summary for Subcatchment 90S: WS21**

Runoff = 4.58 cfs @ 12.40 hrs, Volume= 0.578 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.020	98	Existing impervious, HSG D
0.181	71	Existing meadow, non-grazed, HSG C
0.412	78	Existing meadow, non-grazed, HSG D
3.099	70	Existing Woods, Good, HSG C
2.516	77	Existing Woods, Good, HSG D
6.228	73	Weighted Average
6.208		99.68% Pervious Area
0.020		0.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	40	0.1000	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.6	173	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	356	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	262	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	150	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	364	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	189	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	194	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	69	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
39.9	1,797	Total			

**Summary for Subcatchment 91S: WS22**

Runoff = 6.22 cfs @ 12.47 hrs, Volume= 0.850 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"



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Area (ac)	CN	Description
0.074	98	Existing impervious, HSG D
0.307	71	Existing meadow, non-grazed, HSG C
2.930	78	Existing meadow, non-grazed, HSG D
0.876	70	Existing Woods, Good, HSG C
3.329	77	Existing Woods, Good, HSG D
7.516	77	Weighted Average
7.442		99.02% Pervious Area
0.074		0.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	42	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	290	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	266	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	395	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	315	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.4	382	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	377	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	44	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
47.3	2,111	Total			

**Summary for Subcatchment 92S: WS23**

Runoff = 2.95 cfs @ 12.24 hrs, Volume= 0.285 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.039	98	Existing impervious, HSG D
0.363	71	Existing meadow, non-grazed, HSG C
0.449	78	Existing meadow, non-grazed, HSG D
0.148	70	Existing Woods, Good, HSG C
1.643	77	Existing Woods, Good, HSG D
2.642	76	Weighted Average
2.603		98.52% Pervious Area
0.039		1.48% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.5	212	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	247	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	267	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.0	280	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	66	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
28.3	1,122	Total			

**Summary for Subcatchment 93S: WS1A**

Runoff = 3.62 cfs @ 12.24 hrs, Volume= 0.348 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.011	78	Existing meadow, non-grazed, HSG D
3.065	77	Existing Woods, Good, HSG D
3.076	77	Weighted Average
3.076		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	31	0.0600	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.2	191	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	59	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	193	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	161	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	107	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	79	0.0500	9.26	314.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
28.5	821	Total			

**Summary for Subcatchment 94S: WS1B**

Runoff = 15.81 cfs @ 12.07 hrs, Volume= 1.004 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.425	98	Existing impervious, HSG D
0.427	78	Existing meadow, non-grazed, HSG D
7.619	77	Existing Woods, Good, HSG D
8.471	78	Weighted Average
8.046		94.98% Pervious Area
0.425		5.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.4	336	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	339	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	336	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	278	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	283	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	118	0.0800	13.91	41.73	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.2	164	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	83	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
14.1	2,480	Total			

Summary for Subcatchment 95S: WS1C

Runoff = 17.63 cfs @ 12.47 hrs, Volume= 2.354 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
3.281	98	Existing impervious, HSG D
3.704	78	Existing meadow, non-grazed, HSG D
10.364	77	Existing Woods, Good, HSG D
17.349	81	Weighted Average
14.068		81.09% Pervious Area
3.281		18.91% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	172	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	164	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.9	77	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	157	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.5	350	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.2	219	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	251	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	316	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	73	0.1900	21.44	64.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	300	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	179	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
10.2	342	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	236	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	199	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	224	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	360	0.0800	9.25	92.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
47.4	3,667	Total			

Summary for Subcatchment 96S: WS1D

Runoff = 62.04 cfs @ 12.44 hrs, Volume= 8.148 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
4.794	98	Existing impervious, HSG C
1.682	98	Existing impervious, HSG D
15.372	71	Existing meadow, non-grazed, HSG C
10.464	78	Existing meadow, non-grazed, HSG D
27.478	70	Existing Woods, Good, HSG C
19.608	77	Existing Woods, Good, HSG D
79.398	75	Weighted Average
72.922		91.84% Pervious Area
6.476		8.16% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.2300	0.27		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.9	388	0.2300	3.36		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	312	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.8	440	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	123	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.6	266	0.1300	7.32		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
6.2	457	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	130	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	378	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	258	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	263	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
4.2	242	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	150	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	256	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	314	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	390	0.0500	8.83	212.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'

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n= 0.050 Mountain streams w/large boulders

43.6 6,450 Total

**Summary for Subcatchment 97S: WS24**

Runoff = 8.39 cfs @ 12.53 hrs, Volume= 1.205 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.457	98	Existing impervious, HSG D
0.399	71	Existing meadow, non-grazed, HSG C
3.359	78	Existing meadow, non-grazed, HSG D
0.012	70	Existing Woods, Good, HSG C
5.942	77	Existing Woods, Good, HSG D
10.169	78	Weighted Average
9.712		95.51% Pervious Area
0.457		4.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	43	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
11.8	613	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	420	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	139	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	108	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	227	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	240	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.2	201	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.9	225	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	242	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.0	19	0.2100	12.09	36.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch

51.1 2,477 Total



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**Summary for Subcatchment 98S: WS19**

Runoff = 4.87 cfs @ 12.50 hrs, Volume= 0.702 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.008	98	Existing impervious, HSG D
0.954	71	Existing meadow, non-grazed, HSG C
0.384	78	Existing meadow, non-grazed, HSG D
4.939	70	Existing Woods, Good, HSG C
1.690	77	Existing Woods, Good, HSG D
7.975	72	Weighted Average
7.967		99.90% Pervious Area
0.008		0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	41	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.3	262	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.3	422	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	501	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	213	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	258	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.7	465	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
47.0	2,264	Total			

**Summary for Subcatchment 103S: WS 1CA**

Runoff = 22.70 cfs @ 12.02 hrs, Volume= 1.262 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
3.139	98	Existing impervious, HSG D
0.835	78	Existing meadow, non-grazed, HSG D
3.561	77	Existing Woods, Good, HSG D
7.535	86	Weighted Average
4.396		58.34% Pervious Area
3.139		41.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0400	1.57		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
3.0	89	0.0400	0.50		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	161	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	391	0.0500	16.63	166.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
3.6	208	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.1	949	Total			

**Summary for Subcatchment 106S: WS 1G**

Runoff = 29.30 cfs @ 12.32 hrs, Volume= 3.298 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.906	71	Existing meadow, non-grazed, HSG C
12.918	70	Existing Woods, Good, HSG C
0.004	98	Existing impervious, HSG D
3.805	78	Existing meadow, non-grazed, HSG D
16.155	77	Existing Woods, Good, HSG D
33.788	74	Weighted Average
33.784		99.99% Pervious Area
0.004		0.01% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.3	182	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	443	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	118	0.2200	3.28		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.9	458	0.3200	3.96		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	564	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	366	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	162	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	449	0.2000	14.63	146.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	450	0.2000	14.63	146.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	408	0.2100	14.99	149.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.7	554	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	391	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
34.6	4,645	Total			

**Summary for Subcatchment 107S: WS 1H**

Runoff = 36.48 cfs @ 12.61 hrs, Volume= 5.807 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
2.007	71	Existing meadow, non-grazed, HSG C
22.781	70	Existing Woods, Good, HSG C
4.416	78	Existing meadow, non-grazed, HSG D
30.287	77	Existing Woods, Good, HSG D
59.491	74	Weighted Average
59.491		100.00% Pervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	59	0.2300	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	105	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	330	0.3600	4.20		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.3	212	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	108	0.2400	3.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.0	346	0.3300	1.44		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	190	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	320	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	411	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	281	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	255	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	223	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.3	601	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	147	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	403	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	348	0.1600	14.26	199.63	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
0.5	465	0.1900	15.54	217.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
55.9	4,804	Total			

**Summary for Subcatchment 108S: WS1F**

Runoff = 27.39 cfs @ 12.51 hrs, Volume= 3.933 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.002	98	Existing impervious, HSG C
0.362	98	Existing impervious, HSG D
4.817	71	Existing meadow, non-grazed, HSG C
9.293	78	Existing meadow, non-grazed, HSG D
15.585	70	Existing Woods, Good, HSG C
10.235	77	Existing Woods, Good, HSG D
40.294	74	Weighted Average
39.930		99.10% Pervious Area
0.364		0.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	396	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	367	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	394	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	144	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
48.6	4,191	Total			

**Summary for Subcatchment 110S: WS1E**

Runoff = 18.47 cfs @ 12.61 hrs, Volume= 2.959 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.328	98	Existing impervious, HSG C
0.082	98	Existing impervious, HSG D
3.846	71	Existing meadow, non-grazed, HSG C
4.272	78	Existing meadow, non-grazed, HSG D
17.223	70	Existing Woods, Good, HSG C
6.150	77	Existing Woods, Good, HSG D
31.901	73	Weighted Average
31.491		98.71% Pervious Area
0.410		1.29% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	113	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	154	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	191	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	146	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	137	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	204	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	134	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	286	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	261	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	341	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.3	423	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	301	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.9	196	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	223	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.2	189	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
55.4	4,125	Total			

**Summary for Subcatchment 111S: WS4A**

Runoff = 22.62 cfs @ 12.71 hrs, Volume= 3.932 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.521	71	Existing meadow, non-grazed, HSG C
4.362	78	Existing meadow, non-grazed, HSG D
12.444	70	Existing Woods, Good, HSG C
20.988	77	Existing Woods, Good, HSG D
38.315	75	Weighted Average
38.315		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	73	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.0	529	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	350	0.3400	1.46		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	505	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.5	623	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	355	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	337	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.5	437	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.5	330	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.1	345	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	45	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 ' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
63.9	3,929	Total			

**Summary for Subcatchment 142S: WS1I**

Runoff = 15.85 cfs @ 12.27 hrs, Volume= 1.628 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.123	98	Existing impervious, HSG D
2.494	70	Existing Woods, Good, HSG C
12.485	77	Existing Woods, Good, HSG D
15.102	76	Weighted Average
14.979		99.19% Pervious Area
0.123		0.81% Impervious Area



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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	293	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	337	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	279	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.8	199	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	431	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
31.2	3,069	Total			

**Summary for Subcatchment 143S: WS1J**

Runoff = 26.84 cfs @ 12.20 hrs, Volume= 2.408 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.230	98	Existing impervious, HSG D
0.095	71	Existing meadow, non-grazed, HSG C
0.159	78	Existing meadow, non-grazed, HSG D
4.342	70	Existing Woods, Good, HSG C
17.520	77	Existing Woods, Good, HSG D
22.346	76	Weighted Average
22.116		98.97% Pervious Area
0.230		1.03% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.3	269	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	336	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	167	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	486	0.1300	15.28	641.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	546	0.1700	17.48	734.06	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	483	0.1200	14.68	616.73	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	426	0.1100	14.06	590.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.4	336	0.0900	12.72	534.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
25.4	3,101	Total			

**Summary for Reach 40R: stream**

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 1.23" for 10-Year event  
 Inflow = 22.32 cfs @ 12.87 hrs, Volume= 3.932 af  
 Outflow = 22.25 cfs @ 12.93 hrs, Volume= 3.932 af, Atten= 0%, Lag= 3.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 5.91 fps, Min. Travel Time= 2.2 min  
 Avg. Velocity= 1.80 fps, Avg. Travel Time= 7.1 min

Peak Storage= 2,901 cf @ 12.90 hrs  
 Average Depth at Peak Storage= 0.57' , Surface Width= 7.15'  
 Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders  
 Side Slope Z-value= 1.0 '/' Top Width= 10.00'  
 Length= 770.0' Slope= 0.1013 '/'  
 Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'



Summary for Reach 42R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 1.23" for 10-Year event
Inflow = 22.62 cfs @ 12.71 hrs, Volume= 3.932 af
Outflow = 22.32 cfs @ 12.87 hrs, Volume= 3.932 af, Atten= 1%, Lag= 9.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.25 fps, Min. Travel Time= 5.6 min
Avg. Velocity = 2.11 fps, Avg. Travel Time= 19.3 min

Peak Storage= 7,507 cf @ 12.77 hrs
Average Depth at Peak Storage= 0.55', Surface Width= 6.11'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 2,440.0' Slope= 0.1639 '/'
Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'



Summary for Reach 102R: stream

Inflow Area = 315.675 ac, 4.58% Impervious, Inflow Depth = 1.25" for 10-Year event
Inflow = 201.57 cfs @ 12.54 hrs, Volume= 32.801 af
Outflow = 200.86 cfs @ 12.59 hrs, Volume= 32.801 af, Atten= 0%, Lag= 2.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.72 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 2.52 fps, Avg. Travel Time= 5.9 min

Peak Storage= 20,553 cf @ 12.56 hrs
Average Depth at Peak Storage= 1.69', Surface Width= 15.37'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 890.0' Slope= 0.0562 '/'
Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 1.17" for 10-Year event
Inflow = 58.42 cfs @ 12.56 hrs, Volume= 9.106 af
Outflow = 58.28 cfs @ 12.58 hrs, Volume= 9.106 af, Atten= 0%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.09 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.29 fps, Avg. Travel Time= 2.0 min

Peak Storage= 2,263 cf @ 12.57 hrs
Average Depth at Peak Storage= 0.92', Surface Width= 9.84'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 275.0' Slope= 0.0800 '/'
Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 159.128 ac, 6.53% Impervious, Inflow Depth = 1.23" for 10-Year event
Inflow = 104.72 cfs @ 12.57 hrs, Volume= 16.302 af
Outflow = 104.41 cfs @ 12.59 hrs, Volume= 16.302 af, Atten= 0%, Lag= 1.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.32 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 2.83 fps, Avg. Travel Time= 2.9 min

Peak Storage= 5,555 cf @ 12.58 hrs
Average Depth at Peak Storage= 1.22', Surface Width= 10.43'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 495.0' Slope= 0.1010 '/'
Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 1.17" for 10-Year event
Inflow = 58.98 cfs @ 12.45 hrs, Volume= 9.106 af
Outflow = 58.42 cfs @ 12.56 hrs, Volume= 9.106 af, Atten= 1%, Lag= 6.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.62 fps, Min. Travel Time= 3.8 min
Avg. Velocity = 2.72 fps, Avg. Travel Time= 12.1 min

Peak Storage= 13,369 cf @ 12.50 hrs
Average Depth at Peak Storage= 0.77' , Surface Width= 9.55'
Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,968.0' Slope= 0.1443 '/'
Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 151.593 ac, 4.78% Impervious, Inflow Depth = 1.19" for 10-Year event
Inflow = 102.88 cfs @ 12.52 hrs, Volume= 15.040 af
Outflow = 102.47 cfs @ 12.57 hrs, Volume= 15.040 af, Atten= 0%, Lag= 3.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.10 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 3.80 fps, Avg. Travel Time= 5.2 min

Peak Storage= 10,874 cf @ 12.54 hrs
Average Depth at Peak Storage= 1.27' , Surface Width= 8.54'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,175.0' Slope= 0.1464 '/'
Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 40.294 ac, 0.90% Impervious, Inflow Depth = 1.17" for 10-Year event
Inflow = 27.39 cfs @ 12.51 hrs, Volume= 3.933 af
Outflow = 27.29 cfs @ 12.55 hrs, Volume= 3.933 af, Atten= 0%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.83 fps, Min. Travel Time= 1.3 min
Avg. Velocity = 3.35 fps, Avg. Travel Time= 3.4 min

Peak Storage= 2,125 cf @ 12.52 hrs
Average Depth at Peak Storage= 0.81' , Surface Width= 4.63'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 686.0' Slope= 0.1808 ' '
Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 72.195 ac, 1.07% Impervious, Inflow Depth = 1.15" for 10-Year event
Inflow = 45.59 cfs @ 12.57 hrs, Volume= 6.892 af
Outflow = 45.40 cfs @ 12.63 hrs, Volume= 6.892 af, Atten= 0%, Lag= 3.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.45 fps, Min. Travel Time= 2.2 min
Avg. Velocity = 3.32 fps, Avg. Travel Time= 6.2 min

Peak Storage= 5,922 cf @ 12.59 hrs
Average Depth at Peak Storage= 0.83' , Surface Width= 6.65'
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 9.00'
Length= 1,230.0' Slope= 0.1772 ' '
Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



**Summary for Link SP1:**

Inflow Area = 322.567 ac, 4.49% Impervious, Inflow Depth = 1.25" for 10-Year event  
Inflow = 203.85 cfs @ 12.58 hrs, Volume= 33.580 af  
Primary = 203.85 cfs @ 12.58 hrs, Volume= 33.580 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP10:**

Inflow Area = 0.758 ac, 3.56% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 1.38 cfs @ 12.07 hrs, Volume= 0.090 af  
Primary = 1.38 cfs @ 12.07 hrs, Volume= 0.090 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP11:**

Inflow Area = 16.815 ac, 1.46% Impervious, Inflow Depth = 1.23" for 10-Year event  
Inflow = 8.37 cfs @ 12.94 hrs, Volume= 1.726 af  
Primary = 8.37 cfs @ 12.94 hrs, Volume= 1.726 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP12:**

Inflow Area = 9.755 ac, 2.26% Impervious, Inflow Depth = 1.23" for 10-Year event  
Inflow = 8.97 cfs @ 12.32 hrs, Volume= 1.001 af  
Primary = 8.97 cfs @ 12.32 hrs, Volume= 1.001 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP13:**

Inflow Area = 22.285 ac, 1.05% Impervious, Inflow Depth = 1.11" for 10-Year event  
Inflow = 8.27 cfs @ 13.26 hrs, Volume= 2.067 af  
Primary = 8.27 cfs @ 13.26 hrs, Volume= 2.067 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP14:**

Inflow Area = 3.587 ac, 5.07% Impervious, Inflow Depth = 1.23" for 10-Year event  
Inflow = 3.45 cfs @ 12.29 hrs, Volume= 0.368 af  
Primary = 3.45 cfs @ 12.29 hrs, Volume= 0.368 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP15:**

Inflow Area = 37.339 ac, 0.18% Impervious, Inflow Depth = 1.11" for 10-Year event  
Inflow = 14.75 cfs @ 13.14 hrs, Volume= 3.463 af  
Primary = 14.75 cfs @ 13.14 hrs, Volume= 3.463 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP16:**

Inflow Area = 0.416 ac, 18.75% Impervious, Inflow Depth = 1.63" for 10-Year event  
Inflow = 0.96 cfs @ 12.04 hrs, Volume= 0.056 af  
Primary = 0.96 cfs @ 12.04 hrs, Volume= 0.056 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP17:**

Inflow Area = 7.386 ac, 2.63% Impervious, Inflow Depth = 1.11" for 10-Year event  
Inflow = 5.72 cfs @ 12.36 hrs, Volume= 0.685 af  
Primary = 5.72 cfs @ 12.36 hrs, Volume= 0.685 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP18:**

Inflow Area = 1.599 ac, 1.31% Impervious, Inflow Depth = 1.06" for 10-Year event  
Inflow = 1.48 cfs @ 12.22 hrs, Volume= 0.141 af  
Primary = 1.48 cfs @ 12.22 hrs, Volume= 0.141 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP19:**

Inflow Area = 7.975 ac, 0.10% Impervious, Inflow Depth = 1.06" for 10-Year event  
Inflow = 4.87 cfs @ 12.50 hrs, Volume= 0.702 af  
Primary = 4.87 cfs @ 12.50 hrs, Volume= 0.702 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP2:**

Inflow Area = 4.825 ac, 1.45% Impervious, Inflow Depth = 1.36" for 10-Year event  
Inflow = 4.20 cfs @ 12.44 hrs, Volume= 0.545 af  
Primary = 4.20 cfs @ 12.44 hrs, Volume= 0.545 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



**Summary for Link SP20:**

Inflow Area = 40.004 ac, 3.65% Impervious, Inflow Depth = 1.17" for 10-Year event  
Inflow = 24.64 cfs @ 12.61 hrs, Volume= 3.905 af  
Primary = 24.64 cfs @ 12.61 hrs, Volume= 3.905 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP21:**

Inflow Area = 6.228 ac, 0.32% Impervious, Inflow Depth = 1.11" for 10-Year event  
Inflow = 4.58 cfs @ 12.40 hrs, Volume= 0.578 af  
Primary = 4.58 cfs @ 12.40 hrs, Volume= 0.578 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP22:**

Inflow Area = 7.516 ac, 0.98% Impervious, Inflow Depth = 1.36" for 10-Year event  
Inflow = 6.22 cfs @ 12.47 hrs, Volume= 0.850 af  
Primary = 6.22 cfs @ 12.47 hrs, Volume= 0.850 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP23:**

Inflow Area = 2.642 ac, 1.48% Impervious, Inflow Depth = 1.29" for 10-Year event  
Inflow = 2.95 cfs @ 12.24 hrs, Volume= 0.285 af  
Primary = 2.95 cfs @ 12.24 hrs, Volume= 0.285 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP24:**

Inflow Area = 10.169 ac, 4.49% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 8.39 cfs @ 12.53 hrs, Volume= 1.205 af  
Primary = 8.39 cfs @ 12.53 hrs, Volume= 1.205 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP3:**

Inflow Area = 1.513 ac, 4.49% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 2.48 cfs @ 12.11 hrs, Volume= 0.179 af  
Primary = 2.48 cfs @ 12.11 hrs, Volume= 0.179 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP4:**

Inflow Area = 58.640 ac, 0.49% Impervious, Inflow Depth = 1.25" for 10-Year event  
Inflow = 30.76 cfs @ 12.12 hrs, Volume= 6.123 af  
Primary = 30.76 cfs @ 12.12 hrs, Volume= 6.123 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP5:**

Inflow Area = 3.053 ac, 0.39% Impervious, Inflow Depth = 1.36" for 10-Year event  
Inflow = 3.20 cfs @ 12.31 hrs, Volume= 0.345 af  
Primary = 3.20 cfs @ 12.31 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP6:**

Inflow Area = 29.113 ac, 0.99% Impervious, Inflow Depth = 1.29" for 10-Year event  
Inflow = 26.28 cfs @ 12.37 hrs, Volume= 3.138 af  
Primary = 26.28 cfs @ 12.37 hrs, Volume= 3.138 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP7:**

Inflow Area = 26.547 ac, 0.94% Impervious, Inflow Depth = 1.29" for 10-Year event  
Inflow = 19.98 cfs @ 12.52 hrs, Volume= 2.861 af  
Primary = 19.98 cfs @ 12.52 hrs, Volume= 2.861 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP8:**

Inflow Area = 0.343 ac, 19.24% Impervious, Inflow Depth = 1.63" for 10-Year event  
Inflow = 1.09 cfs @ 11.91 hrs, Volume= 0.047 af  
Primary = 1.09 cfs @ 11.91 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP9:**

Inflow Area = 8.117 ac, 2.27% Impervious, Inflow Depth = 1.23" for 10-Year event  
Inflow = 5.70 cfs @ 12.53 hrs, Volume= 0.833 af  
Primary = 5.70 cfs @ 12.53 hrs, Volume= 0.833 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points  
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN  
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

<b>Subcatchment70S: WS1</b>	Runoff Area=3.816 ac 0.50% Impervious Runoff Depth=1.97" Flow Length=1,200' Tc=20.2 min CN=77 Runoff=8.22 cfs 0.626 af
<b>Subcatchment72S: WS2</b>	Runoff Area=4.825 ac 1.45% Impervious Runoff Depth=1.97" Flow Length=1,847' Tc=44.0 min CN=77 Runoff=6.24 cfs 0.792 af
<b>Subcatchment73S: WS3</b>	Runoff Area=1.513 ac 4.49% Impervious Runoff Depth=2.05" Flow Length=681' Tc=18.2 min CN=78 Runoff=3.60 cfs 0.258 af
<b>Subcatchment74S: WS4</b>	Runoff Area=20.325 ac 1.41% Impervious Runoff Depth=1.89" Flow Length=3,739' Tc=18.0 min CN=76 Runoff=44.85 cfs 3.206 af
<b>Subcatchment75S: WS5</b>	Runoff Area=3.053 ac 0.39% Impervious Runoff Depth=1.97" Flow Length=1,271' Tc=33.9 min CN=77 Runoff=4.74 cfs 0.501 af
<b>Subcatchment76S: WS6</b>	Runoff Area=29.113 ac 0.99% Impervious Runoff Depth=1.89" Flow Length=4,403' Tc=38.7 min CN=76 Runoff=39.48 cfs 4.593 af
<b>Subcatchment77S: WS7</b>	Runoff Area=26.547 ac 0.94% Impervious Runoff Depth=1.89" Flow Length=4,636' Tc=49.7 min CN=76 Runoff=30.05 cfs 4.188 af
<b>Subcatchment78S: WS8</b>	Runoff Area=0.343 ac 19.24% Impervious Runoff Depth=2.29" Flow Length=327' Tc=1.4 min CN=81 Runoff=1.52 cfs 0.065 af
<b>Subcatchment79S: WS9</b>	Runoff Area=8.117 ac 2.27% Impervious Runoff Depth=1.82" Flow Length=2,783' Tc=50.5 min CN=75 Runoff=8.69 cfs 1.230 af
<b>Subcatchment80S: WS10</b>	Runoff Area=0.758 ac 3.56% Impervious Runoff Depth=2.05" Flow Length=424' Tc=14.8 min CN=78 Runoff=2.00 cfs 0.129 af
<b>Subcatchment81S: WS11</b>	Runoff Area=16.815 ac 1.46% Impervious Runoff Depth=1.82" Flow Length=4,402' Tc=80.4 min CN=75 Runoff=12.76 cfs 2.548 af
<b>Subcatchment82S: WS12</b>	Runoff Area=9.755 ac 2.26% Impervious Runoff Depth=1.82" Flow Length=2,300' Tc=34.7 min CN=75 Runoff=13.63 cfs 1.478 af
<b>Subcatchment83S: WS13</b>	Runoff Area=22.285 ac 1.05% Impervious Runoff Depth=1.67" Flow Length=6,015' Tc=100.4 min CN=73 Runoff=12.94 cfs 3.106 af
<b>Subcatchment84S: WS14</b>	Runoff Area=3.587 ac 5.07% Impervious Runoff Depth=1.82" Flow Length=1,401' Tc=32.5 min CN=75 Runoff=5.24 cfs 0.543 af
<b>Subcatchment85S: WS15</b>	Runoff Area=37.339 ac 0.18% Impervious Runoff Depth=1.67" Flow Length=6,278' Tc=92.0 min CN=73 Runoff=23.10 cfs 5.204 af
<b>Subcatchment86S: WS16</b>	Runoff Area=0.416 ac 18.75% Impervious Runoff Depth=2.29" Flow Length=267' Tc=11.9 min CN=81 Runoff=1.36 cfs 0.079 af

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<b>Subcatchment87S: WS17</b>	Runoff Area=7.386 ac 2.63% Impervious Runoff Depth=1.67" Flow Length=2,290' Tc=37.1 min CN=73 Runoff=8.94 cfs 1.029 af
<b>Subcatchment88S: WS18</b>	Runoff Area=1.599 ac 1.31% Impervious Runoff Depth=1.60" Flow Length=978' Tc=26.1 min CN=72 Runoff=2.34 cfs 0.213 af
<b>Subcatchment89S: WS20</b>	Runoff Area=40.004 ac 3.65% Impervious Runoff Depth=1.74" Flow Length=4,364' Tc=55.5 min CN=74 Runoff=38.07 cfs 5.816 af
<b>Subcatchment90S: WS21</b>	Runoff Area=6.228 ac 0.32% Impervious Runoff Depth=1.67" Flow Length=1,797' Tc=39.9 min CN=73 Runoff=7.16 cfs 0.868 af
<b>Subcatchment91S: WS22</b>	Runoff Area=7.516 ac 0.98% Impervious Runoff Depth=1.97" Flow Length=2,111' Tc=47.3 min CN=77 Runoff=9.25 cfs 1.234 af
<b>Subcatchment92S: WS23</b>	Runoff Area=2.642 ac 1.48% Impervious Runoff Depth=1.89" Flow Length=1,122' Tc=28.3 min CN=76 Runoff=4.42 cfs 0.417 af
<b>Subcatchment93S: WS1A</b>	Runoff Area=3.076 ac 0.00% Impervious Runoff Depth=1.97" Flow Length=821' Tc=28.5 min CN=77 Runoff=5.36 cfs 0.505 af
<b>Subcatchment94S: WS1B</b>	Runoff Area=8.471 ac 5.02% Impervious Runoff Depth=2.05" Flow Length=2,480' Tc=14.1 min CN=78 Runoff=22.94 cfs 1.445 af
<b>Subcatchment95S: WS1C</b>	Runoff Area=17.349 ac 18.91% Impervious Runoff Depth=2.29" Flow Length=3,667' Tc=47.4 min CN=81 Runoff=25.08 cfs 3.312 af
<b>Subcatchment96S: WS1D</b>	Runoff Area=79.398 ac 8.16% Impervious Runoff Depth=1.82" Flow Length=6,450' Tc=43.6 min CN=75 Runoff=94.45 cfs 12.030 af
<b>Subcatchment97S: WS24</b>	Runoff Area=10.169 ac 4.49% Impervious Runoff Depth=2.05" Flow Length=2,477' Tc=51.1 min CN=78 Runoff=12.32 cfs 1.735 af
<b>Subcatchment98S: WS19</b>	Runoff Area=7.975 ac 0.10% Impervious Runoff Depth=1.60" Flow Length=2,264' Tc=47.0 min CN=72 Runoff=7.75 cfs 1.065 af
<b>Subcatchment103S: WS 1CA</b>	Runoff Area=7.535 ac 41.66% Impervious Runoff Depth=2.73" Flow Length=949' Tc=10.1 min CN=86 Runoff=30.52 cfs 1.713 af
<b>Subcatchment106S: WS 1G</b>	Runoff Area=33.788 ac 0.01% Impervious Runoff Depth=1.74" Flow Length=4,645' Tc=34.6 min CN=74 Runoff=45.13 cfs 4.912 af
<b>Subcatchment107S: WS 1H</b>	Runoff Area=59.491 ac 0.00% Impervious Runoff Depth=1.74" Flow Length=4,804' Tc=55.9 min CN=74 Runoff=56.38 cfs 8.649 af
<b>Subcatchment108S: WS1F</b>	Runoff Area=40.294 ac 0.90% Impervious Runoff Depth=1.74" Flow Length=4,191' Tc=48.6 min CN=74 Runoff=42.31 cfs 5.858 af
<b>Subcatchment110S: WS1E</b>	Runoff Area=31.901 ac 1.29% Impervious Runoff Depth=1.67" Flow Length=4,125' Tc=55.4 min CN=73 Runoff=28.96 cfs 4.446 af

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<b>Subcatchment111S: WS4A</b>	Runoff Area=38.315 ac 0.00% Impervious Runoff Depth=1.82" Flow Length=3,929' Tc=63.9 min CN=75 Runoff=34.51 cfs 5.805 af
<b>Subcatchment142S: WS1I</b>	Runoff Area=15.102 ac 0.81% Impervious Runoff Depth=1.89" Flow Length=3,069' Tc=31.2 min CN=76 Runoff=23.77 cfs 2.382 af
<b>Subcatchment143S: WS1J</b>	Runoff Area=22.346 ac 1.03% Impervious Runoff Depth=1.89" Flow Length=3,101' Tc=25.4 min CN=76 Runoff=40.14 cfs 3.525 af
<b>Reach 40R: stream</b>	Avg. Flow Depth=0.74' Max Vel=6.84 fps Inflow=34.11 cfs 5.805 af n=0.050 L=770.0' S=0.1013 '/' Capacity=186.92 cfs Outflow=34.02 cfs 5.805 af
<b>Reach 42R: stream</b>	Avg. Flow Depth=0.71' Max Vel=8.38 fps Inflow=34.51 cfs 5.805 af n=0.050 L=2,440.0' S=0.1639 '/' Capacity=60.47 cfs Outflow=34.11 cfs 5.805 af
<b>Reach 102R: stream</b>	Avg. Flow Depth=2.18' Max Vel=10.03 fps Inflow=310.06 cfs 48.273 af n=0.050 L=890.0' S=0.0562 '/' Capacity=883.89 cfs Outflow=309.01 cfs 48.273 af
<b>Reach 103R: stream</b>	Avg. Flow Depth=1.20' Max Vel=8.23 fps Inflow=90.74 cfs 13.561 af n=0.050 L=275.0' S=0.0800 '/' Capacity=440.61 cfs Outflow=90.60 cfs 13.561 af
<b>Reach 104R: stream</b>	Avg. Flow Depth=1.57' Max Vel=10.72 fps Inflow=161.35 cfs 24.047 af n=0.050 L=495.0' S=0.1010 '/' Capacity=495.10 cfs Outflow=161.00 cfs 24.047 af
<b>Reach 108R: stream</b>	Avg. Flow Depth=1.01' Max Vel=10.01 fps Inflow=91.35 cfs 13.561 af n=0.050 L=1,968.0' S=0.1443 '/' Capacity=291.19 cfs Outflow=90.74 cfs 13.561 af
<b>Reach 110R: stream</b>	Avg. Flow Depth=1.64' Max Vel=12.67 fps Inflow=158.87 cfs 22.334 af n=0.050 L=1,175.0' S=0.1464 '/' Capacity=465.00 cfs Outflow=158.28 cfs 22.334 af
<b>Reach 111R: upperstream</b>	Avg. Flow Depth=1.04' Max Vel=10.04 fps Inflow=42.31 cfs 5.858 af n=0.050 L=686.0' S=0.1808 '/' Capacity=139.11 cfs Outflow=42.16 cfs 5.858 af
<b>Reach 112R: stream</b>	Avg. Flow Depth=1.07' Max Vel=10.87 fps Inflow=70.83 cfs 10.304 af n=0.050 L=1,230.0' S=0.1772 '/' Capacity=210.11 cfs Outflow=70.58 cfs 10.304 af
<b>Link SP1:</b>	Inflow=313.66 cfs 49.404 af Primary=313.66 cfs 49.404 af
<b>Link SP10:</b>	Inflow=2.00 cfs 0.129 af Primary=2.00 cfs 0.129 af
<b>Link SP11:</b>	Inflow=12.76 cfs 2.548 af Primary=12.76 cfs 2.548 af
<b>Link SP12:</b>	Inflow=13.63 cfs 1.478 af Primary=13.63 cfs 1.478 af
<b>Link SP13:</b>	Inflow=12.94 cfs 3.106 af Primary=12.94 cfs 3.106 af

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<b>Link SP14:</b>	Inflow=5.24 cfs 0.543 af Primary=5.24 cfs 0.543 af
<b>Link SP15:</b>	Inflow=23.10 cfs 5.204 af Primary=23.10 cfs 5.204 af
<b>Link SP16:</b>	Inflow=1.36 cfs 0.079 af Primary=1.36 cfs 0.079 af
<b>Link SP17:</b>	Inflow=8.94 cfs 1.029 af Primary=8.94 cfs 1.029 af
<b>Link SP18:</b>	Inflow=2.34 cfs 0.213 af Primary=2.34 cfs 0.213 af
<b>Link SP19:</b>	Inflow=7.75 cfs 1.065 af Primary=7.75 cfs 1.065 af
<b>Link SP2:</b>	Inflow=6.24 cfs 0.792 af Primary=6.24 cfs 0.792 af
<b>Link SP20:</b>	Inflow=38.07 cfs 5.816 af Primary=38.07 cfs 5.816 af
<b>Link SP21:</b>	Inflow=7.16 cfs 0.868 af Primary=7.16 cfs 0.868 af
<b>Link SP22:</b>	Inflow=9.25 cfs 1.234 af Primary=9.25 cfs 1.234 af
<b>Link SP23:</b>	Inflow=4.42 cfs 0.417 af Primary=4.42 cfs 0.417 af
<b>Link SP24:</b>	Inflow=12.32 cfs 1.735 af Primary=12.32 cfs 1.735 af
<b>Link SP3:</b>	Inflow=3.60 cfs 0.258 af Primary=3.60 cfs 0.258 af
<b>Link SP4:</b>	Inflow=47.39 cfs 9.012 af Primary=47.39 cfs 9.012 af
<b>Link SP5:</b>	Inflow=4.74 cfs 0.501 af Primary=4.74 cfs 0.501 af
<b>Link SP6:</b>	Inflow=39.48 cfs 4.593 af Primary=39.48 cfs 4.593 af
<b>Link SP7:</b>	Inflow=30.05 cfs 4.188 af Primary=30.05 cfs 4.188 af

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**Link SP8:**

Inflow=1.52 cfs 0.065 af  
Primary=1.52 cfs 0.065 af

**Link SP9:**

Inflow=8.69 cfs 1.230 af  
Primary=8.69 cfs 1.230 af

**Total Runoff Area = 629.192 ac   Runoff Volume = 95.508 af   Average Runoff Depth = 1.82"**  
**96.98% Pervious = 610.171 ac   3.02% Impervious = 19.021 ac**

**Summary for Subcatchment 70S: WS1**

Runoff = 8.22 cfs @ 12.13 hrs, Volume= 0.626 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.019	98	Existing impervious, HSG D
0.032	78	Existing meadow, non-grazed, HSG D
3.765	77	Existing Woods, Good, HSG D
3.816	77	Weighted Average
3.797		99.50% Pervious Area
0.019		0.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.0	358	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	299	0.0600	9.68	232.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
20.2	1,200	Total			

**Summary for Subcatchment 72S: WS2**

Runoff = 6.24 cfs @ 12.43 hrs, Volume= 0.792 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.070	98	Existing impervious, HSG D
0.750	78	Existing meadow, non-grazed, HSG D
4.005	77	Existing Woods, Good, HSG D
4.825	77	Weighted Average
4.755		98.55% Pervious Area
0.070		1.45% Impervious Area



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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	49	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	349	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	156	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	279	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	154	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.5	339	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.3	374	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	147	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
44.0	1,847	Total			

**Summary for Subcatchment 73S: WS3**

Runoff = 3.60 cfs @ 12.11 hrs, Volume= 0.258 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.068	98	Existing impervious, HSG D
0.254	78	Existing meadow, non-grazed, HSG D
1.191	77	Existing Woods, Good, HSG D
1.513	78	Weighted Average
1.445		95.51% Pervious Area
0.068		4.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	60	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	97	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	169	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	319	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
18.2	681	Total			

**Summary for Subcatchment 74S: WS4**

Runoff = 44.85 cfs @ 12.11 hrs, Volume= 3.206 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.287	98	Existing impervious, HSG D
0.739	71	Existing meadow, non-grazed, HSG C
1.095	78	Existing meadow, non-grazed, HSG D
2.883	70	Existing Woods, Good, HSG C
15.321	77	Existing Woods, Good, HSG D
20.325	76	Weighted Average
20.038		98.59% Pervious Area
0.287		1.41% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.4	164	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	417	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	544	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	711	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	404	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	338	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	432	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.8	424	0.0800	9.25	92.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	249	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
18.0	3,739	Total			

**Summary for Subcatchment 75S: WS5**

Runoff = 4.74 cfs @ 12.30 hrs, Volume= 0.501 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.012	98	Existing impervious, HSG D
0.032	78	Existing meadow, non-grazed, HSG D
3.009	77	Existing Woods, Good, HSG D
3.053	77	Weighted Average
3.041		99.61% Pervious Area
0.012		0.39% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	36	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	35	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	169	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.7	271	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
33.9	1,271	Total			

**Summary for Subcatchment 76S: WS6**

Runoff = 39.48 cfs @ 12.36 hrs, Volume= 4.593 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.537	71	Existing meadow, non-grazed, HSG C
3.855	70	Existing Woods, Good, HSG C
0.287	98	Existing impervious, HSG D
3.372	78	Existing meadow, non-grazed, HSG D
21.062	77	Existing Woods, Good, HSG D
29.113	76	Weighted Average
28.826		99.01% Pervious Area
0.287		0.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	10	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	145	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.7	333	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.8	441	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	290	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	290	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.8	681	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	418	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	729	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	465	0.1300	11.80	117.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.0	466	0.0600	8.01	80.15	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.1	85	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 'l' Top.W=4.00' n= 0.022 Earth, clean & straight
38.7	4,403	Total			

Summary for Subcatchment 77S: WS7

Runoff = 30.05 cfs @ 12.51 hrs, Volume= 4.188 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.688	71	Existing meadow, non-grazed, HSG C
5.100	70	Existing Woods, Good, HSG C
0.250	98	Existing impervious, HSG D
3.025	78	Existing meadow, non-grazed, HSG D
17.484	77	Existing Woods, Good, HSG D
26.547	76	Weighted Average
26.297		99.06% Pervious Area
0.250		0.94% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	64	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.0	312	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	360	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
12.6	565	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.0	406	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	185	0.4100	1.60		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	324	0.3000	17.92	179.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	279	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	330	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	224	0.1100	10.85	108.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	139	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	287	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	361	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	417	0.1100	10.85	108.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.6	253	0.0500	7.32	73.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.1	130	0.0800	21.03	210.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
49.7	4,636	Total			

**Summary for Subcatchment 78S: WS8**

Runoff = 1.52 cfs @ 11.91 hrs, Volume= 0.065 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.066	98	Existing impervious, HSG D
0.047	78	Existing meadow, non-grazed, HSG D
0.230	77	Existing Woods, Good, HSG D
0.343	81	Weighted Average
0.277		80.76% Pervious Area
0.066		19.24% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	40	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	11	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	276	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
1.4	327	Total			

**Summary for Subcatchment 79S: WS9**

Runoff = 8.69 cfs @ 12.52 hrs, Volume= 1.230 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.078	71	Existing meadow, non-grazed, HSG C
2.614	70	Existing Woods, Good, HSG C
0.184	98	Existing impervious, HSG D
0.343	78	Existing meadow, non-grazed, HSG D
4.898	77	Existing Woods, Good, HSG D
8.117	75	Weighted Average
7.933		97.73% Pervious Area
0.184		2.27% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	27	0.0500	0.04		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.4	283	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.3	583	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.0	403	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	554	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	172	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	350	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	411	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
50.5	2,783	Total			

**Summary for Subcatchment 80S: WS10**

Runoff = 2.00 cfs @ 12.07 hrs, Volume= 0.129 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.027	98	Existing impervious, HSG D
0.044	78	Existing meadow, non-grazed, HSG D
0.687	77	Existing Woods, Good, HSG D
0.758	78	Weighted Average
0.731		96.44% Pervious Area
0.027		3.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	70	0.3100	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	65	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	187	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
14.8	424	Total			



**Summary for Subcatchment 81S: WS11**

Runoff = 12.76 cfs @ 12.93 hrs, Volume= 2.548 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.245	98	Existing impervious, HSG D
1.349	71	Existing meadow, non-grazed, HSG C
2.297	78	Existing meadow, non-grazed, HSG D
4.751	70	Existing Woods, Good, HSG C
8.173	77	Existing Woods, Good, HSG D
16.815	75	Weighted Average
16.570		98.54% Pervious Area
0.245		1.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	65	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	366	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.1	527	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.5	398	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
17.0	763	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	211	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	377	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.2	506	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	368	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	220	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.1	401	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	200	0.0900	22.31	223.09	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
80.4	4,402	Total			

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Type II 24-hr 25-Year Rainfall=4.20"

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**Summary for Subcatchment 82S: WS12**

Runoff = 13.63 cfs @ 12.31 hrs, Volume= 1.478 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.280	71	Existing meadow, non-grazed, HSG C
3.976	70	Existing Woods, Good, HSG C
0.220	98	Existing impervious, HSG D
1.035	78	Existing meadow, non-grazed, HSG D
4.244	77	Existing Woods, Good, HSG D
9.755	75	Weighted Average
9.535		97.74% Pervious Area
0.220		2.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	41	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.4	320	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.0	562	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	281	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	261	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	284	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	261	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
34.7	2,300	Total			

**Summary for Subcatchment 83S: WS13**

Runoff = 12.94 cfs @ 13.24 hrs, Volume= 3.106 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
4.203	71	Existing meadow, non-grazed, HSG C
9.072	70	Existing Woods, Good, HSG C
0.235	98	Existing impervious, HSG D
1.694	78	Existing meadow, non-grazed, HSG D
7.081	77	Existing Woods, Good, HSG D
22.285	73	Weighted Average
22.050		98.95% Pervious Area
0.235		1.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	76	0.3700	0.12		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.9	537	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	448	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	645	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.6	497	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.2	536	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.2	434	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.1	714	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.2	649	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.9	645	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	307	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	328	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	199	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
100.4	6,015	Total			

**Summary for Subcatchment 84S: WS14**

Runoff = 5.24 cfs @ 12.28 hrs, Volume= 0.543 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.691	71	Existing meadow, non-grazed, HSG C
0.959	70	Existing Woods, Good, HSG C
0.182	98	Existing impervious, HSG D
0.231	78	Existing meadow, non-grazed, HSG D
1.524	77	Existing Woods, Good, HSG D
3.587	75	Weighted Average
3.405		94.93% Pervious Area
0.182		5.07% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	45	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.1	8	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.1	350	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	313	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	294	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	168	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	163	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	60	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' Top.W=4.00' n= 0.022 Earth, clean & straight
32.5	1,401	Total			

**Summary for Subcatchment 85S: WS15**

Runoff = 23.10 cfs @ 13.10 hrs, Volume= 5.204 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
8.870	71	Existing meadow, non-grazed, HSG C
16.898	70	Existing Woods, Good, HSG C
0.067	98	Existing impervious, HSG D
2.332	78	Existing meadow, non-grazed, HSG D
9.172	77	Existing Woods, Good, HSG D
37.339	73	Weighted Average
37.272		99.82% Pervious Area
0.067		0.18% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	72	0.3300	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.8	586	0.3300	1.44		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.9	673	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
9.6	625	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	664	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	484	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.7	700	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.6	529	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.6	717	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	573	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	386	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	150	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.8	119	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
92.0	6,278	Total			

**Summary for Subcatchment 86S: WS16**

Runoff = 1.36 cfs @ 12.04 hrs, Volume= 0.079 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.078	98	Existing impervious, HSG D
0.048	78	Existing meadow, non-grazed, HSG D
0.290	77	Existing Woods, Good, HSG D
0.416	81	Weighted Average
0.338		81.25% Pervious Area
0.078		18.75% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	51	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.0	63	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	153	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
11.9	267	Total			

**Summary for Subcatchment 87S: WS17**

Runoff = 8.94 cfs @ 12.35 hrs, Volume= 1.029 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.194	98	Existing impervious, HSG D
1.145	71	Existing meadow, non-grazed, HSG C
0.402	78	Existing meadow, non-grazed, HSG D
3.907	70	Existing Woods, Good, HSG C
1.738	77	Existing Woods, Good, HSG D
7.386	73	Weighted Average
7.192		97.37% Pervious Area
0.194		2.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	44	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
9.8	531	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	236	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	372	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	290	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	437	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	142	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	238	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
37.1	2,290	Total			

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**Summary for Subcatchment 88S: WS18**

Runoff = 2.34 cfs @ 12.21 hrs, Volume= 0.213 af, Depth= 1.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.172	71	Existing meadow, non-grazed, HSG C
1.110	70	Existing Woods, Good, HSG C
0.021	98	Existing impervious, HSG D
0.028	78	Existing meadow, non-grazed, HSG D
0.268	77	Existing Woods, Good, HSG D
1.599	72	Weighted Average
1.578		98.69% Pervious Area
0.021		1.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	57	0.2100	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.0	68	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	218	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	281	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	258	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	96	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
26.1	978	Total			

**Summary for Subcatchment 89S: WS20**

Runoff = 38.07 cfs @ 12.59 hrs, Volume= 5.816 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
1.023	98	Existing impervious, HSG C
0.436	98	Existing impervious, HSG D
6.987	71	Existing meadow, non-grazed, HSG C
6.713	78	Existing meadow, non-grazed, HSG D
16.006	70	Existing Woods, Good, HSG C
8.839	77	Existing Woods, Good, HSG D
40.004	74	Weighted Average
38.545		96.35% Pervious Area
1.459		3.65% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.9	242	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	278	0.2500	3.50		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	258	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.9	134	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	77	0.2600	3.57		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	165	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.4	177	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	237	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.7	232	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.7	544	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.4	332	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	188	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	252	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	298	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	200	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	229	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	227	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.3	242	0.1300	11.80	117.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
55.5	4,364	Total			



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**Summary for Subcatchment 90S: WS21**

Runoff = 7.16 cfs @ 12.38 hrs, Volume= 0.868 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.020	98	Existing impervious, HSG D
0.181	71	Existing meadow, non-grazed, HSG C
0.412	78	Existing meadow, non-grazed, HSG D
3.099	70	Existing Woods, Good, HSG C
2.516	77	Existing Woods, Good, HSG D
6.228	73	Weighted Average
6.208		99.68% Pervious Area
0.020		0.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	40	0.1000	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.6	173	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	356	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	262	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	150	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	364	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	189	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	194	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	69	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
39.9	1,797	Total			

**Summary for Subcatchment 91S: WS22**

Runoff = 9.25 cfs @ 12.47 hrs, Volume= 1.234 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.074	98	Existing impervious, HSG D
0.307	71	Existing meadow, non-grazed, HSG C
2.930	78	Existing meadow, non-grazed, HSG D
0.876	70	Existing Woods, Good, HSG C
3.329	77	Existing Woods, Good, HSG D
7.516	77	Weighted Average
7.442		99.02% Pervious Area
0.074		0.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	42	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.8	290	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	266	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	395	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	315	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.4	382	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.5	377	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	44	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' Top.W=4.00' n= 0.022 Earth, clean & straight
47.3	2,111	Total			

**Summary for Subcatchment 92S: WS23**

Runoff = 4.42 cfs @ 12.23 hrs, Volume= 0.417 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.039	98	Existing impervious, HSG D
0.363	71	Existing meadow, non-grazed, HSG C
0.449	78	Existing meadow, non-grazed, HSG D
0.148	70	Existing Woods, Good, HSG C
1.643	77	Existing Woods, Good, HSG D
2.642	76	Weighted Average
2.603		98.52% Pervious Area
0.039		1.48% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.5	212	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	247	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	267	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.0	280	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	66	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
28.3	1,122	Total			

**Summary for Subcatchment 93S: WS1A**

Runoff = 5.36 cfs @ 12.23 hrs, Volume= 0.505 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.011	78	Existing meadow, non-grazed, HSG D
3.065	77	Existing Woods, Good, HSG D
3.076	77	Weighted Average
3.076		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	31	0.0600	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.2	191	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	59	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	193	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	161	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	107	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	79	0.0500	9.26	314.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
28.5	821	Total			

**Summary for Subcatchment 94S: WS1B**

Runoff = 22.94 cfs @ 12.06 hrs, Volume= 1.445 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.425	98	Existing impervious, HSG D
0.427	78	Existing meadow, non-grazed, HSG D
7.619	77	Existing Woods, Good, HSG D
8.471	78	Weighted Average
8.046		94.98% Pervious Area
0.425		5.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.4	336	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	339	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	336	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	278	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	283	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	118	0.0800	13.91	41.73	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.2	164	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	83	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050 Mountain streams w/large boulders
14.1	2,480	Total			

Summary for Subcatchment 95S: WS1C

Runoff = 25.08 cfs @ 12.47 hrs, Volume= 3.312 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
3.281	98	Existing impervious, HSG D
3.704	78	Existing meadow, non-grazed, HSG D
10.364	77	Existing Woods, Good, HSG D
17.349	81	Weighted Average
14.068		81.09% Pervious Area
3.281		18.91% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	172	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	164	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.9	77	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	157	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.5	350	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.2	219	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	251	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	316	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.1	73	0.1900	21.44	64.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	300	0.0700	13.01	39.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	179	0.0200	6.96	20.87	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
10.2	342	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	236	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	199	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	224	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	360	0.0800	9.25	92.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
47.4	3,667	Total			

**Summary for Subcatchment 96S: WS1D**

Runoff = 94.45 cfs @ 12.43 hrs, Volume= 12.030 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
4.794	98	Existing impervious, HSG C
1.682	98	Existing impervious, HSG D
15.372	71	Existing meadow, non-grazed, HSG C
10.464	78	Existing meadow, non-grazed, HSG D
27.478	70	Existing Woods, Good, HSG C
19.608	77	Existing Woods, Good, HSG D
79.398	75	Weighted Average
72.922		91.84% Pervious Area
6.476		8.16% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.2	100	0.2300	0.27		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.9	388	0.2300	3.36		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	312	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.8	440	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	123	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.6	266	0.1300	7.32		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
6.2	457	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	130	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.4	378	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	258	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
0.3	263	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
4.2	242	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	150	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	256	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	314	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	390	0.0500	8.83	212.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=10.00' D=2.00' Z= 1.0 '/' Top.W=14.00' n= 0.050 Mountain streams w/large boulders
0.8	505	0.0600	10.15	345.05	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00'



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n= 0.050 Mountain streams w/large boulders

43.6 6,450 Total

**Summary for Subcatchment 97S: WS24**

Runoff = 12.32 cfs @ 12.52 hrs, Volume= 1.735 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.457	98	Existing impervious, HSG D
0.399	71	Existing meadow, non-grazed, HSG C
3.359	78	Existing meadow, non-grazed, HSG D
0.012	70	Existing Woods, Good, HSG C
5.942	77	Existing Woods, Good, HSG D
10.169	78	Weighted Average
9.712		95.51% Pervious Area
0.457		4.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	43	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
11.8	613	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.9	420	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	139	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	108	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	227	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	240	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.2	201	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.9	225	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	242	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.0	19	0.2100	12.09	36.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch

51.1 2,477 Total

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**Summary for Subcatchment 98S: WS19**

Runoff = 7.75 cfs @ 12.48 hrs, Volume= 1.065 af, Depth= 1.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.008	98	Existing impervious, HSG D
0.954	71	Existing meadow, non-grazed, HSG C
0.384	78	Existing meadow, non-grazed, HSG D
4.939	70	Existing Woods, Good, HSG C
1.690	77	Existing Woods, Good, HSG D
7.975	72	Weighted Average
7.967		99.90% Pervious Area
0.008		0.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	41	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.3	262	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.3	422	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	501	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	213	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	258	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.7	465	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022 Earth, clean & straight
47.0	2,264	Total			

**Summary for Subcatchment 103S: WS 1CA**

Runoff = 30.52 cfs @ 12.01 hrs, Volume= 1.713 af, Depth= 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
3.139	98	Existing impervious, HSG D
0.835	78	Existing meadow, non-grazed, HSG D
3.561	77	Existing Woods, Good, HSG D
7.535	86	Weighted Average
4.396		58.34% Pervious Area
3.139		41.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0400	1.57		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
3.0	89	0.0400	0.50		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	161	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	391	0.0500	16.63	166.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
3.6	208	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.1	949	Total			

**Summary for Subcatchment 106S: WS 1G**

Runoff = 45.13 cfs @ 12.31 hrs, Volume= 4.912 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.906	71	Existing meadow, non-grazed, HSG C
12.918	70	Existing Woods, Good, HSG C
0.004	98	Existing impervious, HSG D
3.805	78	Existing meadow, non-grazed, HSG D
16.155	77	Existing Woods, Good, HSG D
33.788	74	Weighted Average
33.784		99.99% Pervious Area
0.004		0.01% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.3	182	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	443	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	118	0.2200	3.28		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.9	458	0.3200	3.96		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	564	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	366	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	162	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	449	0.2000	14.63	146.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	450	0.2000	14.63	146.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	408	0.2100	14.99	149.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.7	554	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	391	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
34.6	4,645	Total			

**Summary for Subcatchment 107S: WS 1H**

Runoff = 56.38 cfs @ 12.60 hrs, Volume= 8.649 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
2.007	71	Existing meadow, non-grazed, HSG C
22.781	70	Existing Woods, Good, HSG C
4.416	78	Existing meadow, non-grazed, HSG D
30.287	77	Existing Woods, Good, HSG D
59.491	74	Weighted Average
59.491		100.00% Pervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	59	0.2300	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	105	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	330	0.3600	4.20		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.3	212	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	108	0.2400	3.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.0	346	0.3300	1.44		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	190	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	320	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.8	411	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	281	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	255	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	223	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.3	601	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	147	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	403	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	348	0.1600	14.26	199.63	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
0.5	465	0.1900	15.54	217.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
55.9	4,804	Total			

**Summary for Subcatchment 108S: WS1F**

Runoff = 42.31 cfs @ 12.49 hrs, Volume= 5.858 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

**55310.01-West Mountain-EX**

Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.002	98	Existing impervious, HSG C
0.362	98	Existing impervious, HSG D
4.817	71	Existing meadow, non-grazed, HSG C
9.293	78	Existing meadow, non-grazed, HSG D
15.585	70	Existing Woods, Good, HSG C
10.235	77	Existing Woods, Good, HSG D

40.294	74	Weighted Average
39.930		99.10% Pervious Area
0.364		0.90% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	396	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.4	367	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	394	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.2	144	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 'l' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
48.6	4,191	Total			

**Summary for Subcatchment 110S: WS1E**

Runoff = 28.96 cfs @ 12.59 hrs, Volume= 4.446 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.328	98	Existing impervious, HSG C
0.082	98	Existing impervious, HSG D
3.846	71	Existing meadow, non-grazed, HSG C
4.272	78	Existing meadow, non-grazed, HSG D
17.223	70	Existing Woods, Good, HSG C
6.150	77	Existing Woods, Good, HSG D
31.901	73	Weighted Average
31.491		98.71% Pervious Area
0.410		1.29% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	113	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	154	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	191	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	146	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	137	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	204	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	134	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	286	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	261	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.2	341	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.3	423	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	301	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.9	196	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	223	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.2	189	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
55.4	4,125	Total			

**Summary for Subcatchment 111S: WS4A**

Runoff = 34.51 cfs @ 12.70 hrs, Volume= 5.805 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"



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Area (ac)	CN	Description
0.521	71	Existing meadow, non-grazed, HSG C
4.362	78	Existing meadow, non-grazed, HSG D
12.444	70	Existing Woods, Good, HSG C
20.988	77	Existing Woods, Good, HSG D
38.315	75	Weighted Average
38.315		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	73	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
6.0	529	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	350	0.3400	1.46		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	505	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.5	623	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	355	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	337	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.5	437	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.5	330	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.1	345	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	45	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 ' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
63.9	3,929	Total			

**Summary for Subcatchment 142S: WS1I**

Runoff = 23.77 cfs @ 12.27 hrs, Volume= 2.382 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.123	98	Existing impervious, HSG D
2.494	70	Existing Woods, Good, HSG C
12.485	77	Existing Woods, Good, HSG D
15.102	76	Weighted Average
14.979		99.19% Pervious Area
0.123		0.81% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	293	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	337	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	279	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.8	199	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	431	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.5	373	0.1400	12.24	122.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
0.7	447	0.1200	11.33	113.34	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
1.1	658	0.0900	9.82	98.16	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
31.2	3,069	Total			

**Summary for Subcatchment 143S: WS1J**

Runoff = 40.14 cfs @ 12.20 hrs, Volume= 3.525 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.230	98	Existing impervious, HSG D
0.095	71	Existing meadow, non-grazed, HSG C
0.159	78	Existing meadow, non-grazed, HSG D
4.342	70	Existing Woods, Good, HSG C
17.520	77	Existing Woods, Good, HSG D
22.346	76	Weighted Average
22.116		98.97% Pervious Area
0.230		1.03% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.3	269	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.3	336	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.5	167	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	486	0.1300	15.28	641.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	546	0.1700	17.48	734.06	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	483	0.1200	14.68	616.73	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.5	426	0.1100	14.06	590.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
0.4	336	0.0900	12.72	534.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
25.4	3,101	Total			

**Summary for Reach 40R: stream**

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 1.82" for 25-Year event  
 Inflow = 34.11 cfs @ 12.83 hrs, Volume= 5.805 af  
 Outflow = 34.02 cfs @ 12.89 hrs, Volume= 5.805 af, Atten= 0%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 6.84 fps, Min. Travel Time= 1.9 min  
 Avg. Velocity= 1.99 fps, Avg. Travel Time= 6.5 min

Peak Storage= 3,834 cf @ 12.86 hrs  
 Average Depth at Peak Storage= 0.74' , Surface Width= 7.48'  
 Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders  
 Side Slope Z-value= 1.0 '/' Top Width= 10.00'  
 Length= 770.0' Slope= 0.1013 '/'  
 Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'



Summary for Reach 42R: stream

Inflow Area = 38.315 ac, 0.00% Impervious, Inflow Depth = 1.82" for 25-Year event
Inflow = 34.51 cfs @ 12.70 hrs, Volume= 5.805 af
Outflow = 34.11 cfs @ 12.83 hrs, Volume= 5.805 af, Atten= 1%, Lag= 8.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.38 fps, Min. Travel Time= 4.9 min
Avg. Velocity = 2.34 fps, Avg. Travel Time= 17.4 min

Peak Storage= 9,952 cf @ 12.75 hrs
Average Depth at Peak Storage= 0.71' , Surface Width= 6.43'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 2,440.0' Slope= 0.1639 '/'
Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'



Summary for Reach 102R: stream

Inflow Area = 315.675 ac, 4.58% Impervious, Inflow Depth = 1.84" for 25-Year event
Inflow = 310.06 cfs @ 12.51 hrs, Volume= 48.273 af
Outflow = 309.01 cfs @ 12.55 hrs, Volume= 48.273 af, Atten= 0%, Lag= 2.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.03 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 2.78 fps, Avg. Travel Time= 5.3 min

Peak Storage= 27,469 cf @ 12.53 hrs
Average Depth at Peak Storage= 2.18' , Surface Width= 16.35'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 890.0' Slope= 0.0562 '/'
Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 1.74" for 25-Year event
Inflow = 90.74 cfs @ 12.53 hrs, Volume= 13.561 af
Outflow = 90.60 cfs @ 12.55 hrs, Volume= 13.561 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.23 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.54 fps, Avg. Travel Time= 1.8 min

Peak Storage= 3,033 cf @ 12.54 hrs
Average Depth at Peak Storage= 1.20', Surface Width= 10.40'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 275.0' Slope= 0.0800 '/'
Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



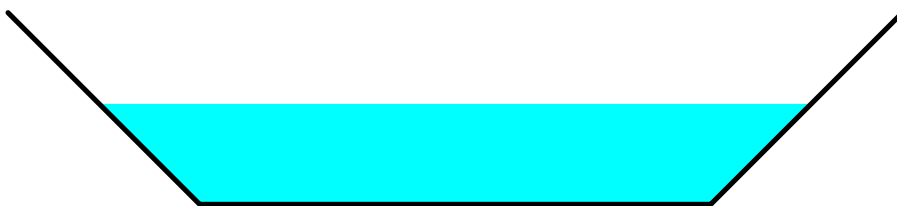
Summary for Reach 104R: stream

Inflow Area = 159.128 ac, 6.53% Impervious, Inflow Depth = 1.81" for 25-Year event
Inflow = 161.35 cfs @ 12.54 hrs, Volume= 24.047 af
Outflow = 161.00 cfs @ 12.57 hrs, Volume= 24.047 af, Atten= 0%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.72 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 3.11 fps, Avg. Travel Time= 2.7 min

Peak Storage= 7,449 cf @ 12.55 hrs
Average Depth at Peak Storage= 1.57', Surface Width= 11.14'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 495.0' Slope= 0.1010 '/'
Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



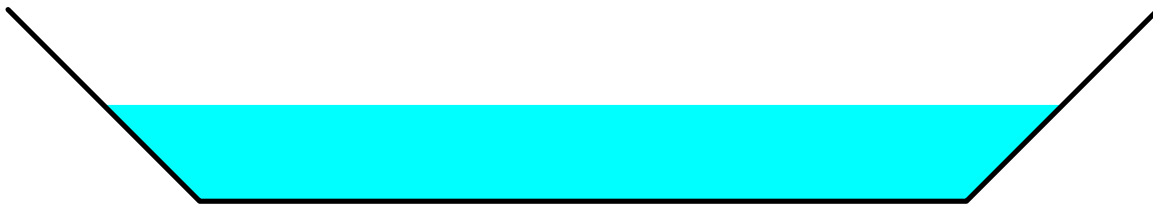
Summary for Reach 108R: stream

Inflow Area = 93.279 ac, 0.00% Impervious, Inflow Depth = 1.74" for 25-Year event
Inflow = 91.35 cfs @ 12.44 hrs, Volume= 13.561 af
Outflow = 90.74 cfs @ 12.53 hrs, Volume= 13.561 af, Atten= 1%, Lag= 5.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.01 fps, Min. Travel Time= 3.3 min
Avg. Velocity = 3.02 fps, Avg. Travel Time= 10.9 min

Peak Storage= 17,842 cf @ 12.48 hrs
Average Depth at Peak Storage= 1.01' , Surface Width= 10.01'
Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,968.0' Slope= 0.1443 '/'
Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 151.593 ac, 4.78% Impervious, Inflow Depth = 1.77" for 25-Year event
Inflow = 158.87 cfs @ 12.50 hrs, Volume= 22.334 af
Outflow = 158.28 cfs @ 12.55 hrs, Volume= 22.334 af, Atten= 0%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 12.67 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 4.19 fps, Avg. Travel Time= 4.7 min

Peak Storage= 14,714 cf @ 12.52 hrs
Average Depth at Peak Storage= 1.64' , Surface Width= 9.28'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,175.0' Slope= 0.1464 '/'
Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 40.294 ac, 0.90% Impervious, Inflow Depth = 1.74" for 25-Year event
Inflow = 42.31 cfs @ 12.49 hrs, Volume= 5.858 af
Outflow = 42.16 cfs @ 12.53 hrs, Volume= 5.858 af, Atten= 0%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.04 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 3.70 fps, Avg. Travel Time= 3.1 min

Peak Storage= 2,890 cf @ 12.51 hrs
Average Depth at Peak Storage= 1.04' , Surface Width= 5.08'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 686.0' Slope= 0.1808 ' '
Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 72.195 ac, 1.07% Impervious, Inflow Depth = 1.71" for 25-Year event
Inflow = 70.83 cfs @ 12.55 hrs, Volume= 10.304 af
Outflow = 70.58 cfs @ 12.61 hrs, Volume= 10.304 af, Atten= 0%, Lag= 3.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.87 fps, Min. Travel Time= 1.9 min
Avg. Velocity = 3.67 fps, Avg. Travel Time= 5.6 min

Peak Storage= 8,003 cf @ 12.57 hrs
Average Depth at Peak Storage= 1.07' , Surface Width= 7.14'
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 9.00'
Length= 1,230.0' Slope= 0.1772 ' '
Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



**Summary for Link SP1:**

Inflow Area = 322.567 ac, 4.49% Impervious, Inflow Depth = 1.84" for 25-Year event  
Inflow = 313.66 cfs @ 12.55 hrs, Volume= 49.404 af  
Primary = 313.66 cfs @ 12.55 hrs, Volume= 49.404 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP10:**

Inflow Area = 0.758 ac, 3.56% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 2.00 cfs @ 12.07 hrs, Volume= 0.129 af  
Primary = 2.00 cfs @ 12.07 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP11:**

Inflow Area = 16.815 ac, 1.46% Impervious, Inflow Depth = 1.82" for 25-Year event  
Inflow = 12.76 cfs @ 12.93 hrs, Volume= 2.548 af  
Primary = 12.76 cfs @ 12.93 hrs, Volume= 2.548 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP12:**

Inflow Area = 9.755 ac, 2.26% Impervious, Inflow Depth = 1.82" for 25-Year event  
Inflow = 13.63 cfs @ 12.31 hrs, Volume= 1.478 af  
Primary = 13.63 cfs @ 12.31 hrs, Volume= 1.478 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP13:**

Inflow Area = 22.285 ac, 1.05% Impervious, Inflow Depth = 1.67" for 25-Year event  
Inflow = 12.94 cfs @ 13.24 hrs, Volume= 3.106 af  
Primary = 12.94 cfs @ 13.24 hrs, Volume= 3.106 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP14:**

Inflow Area = 3.587 ac, 5.07% Impervious, Inflow Depth = 1.82" for 25-Year event  
Inflow = 5.24 cfs @ 12.28 hrs, Volume= 0.543 af  
Primary = 5.24 cfs @ 12.28 hrs, Volume= 0.543 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



**Summary for Link SP15:**

Inflow Area = 37.339 ac, 0.18% Impervious, Inflow Depth = 1.67" for 25-Year event  
Inflow = 23.10 cfs @ 13.10 hrs, Volume= 5.204 af  
Primary = 23.10 cfs @ 13.10 hrs, Volume= 5.204 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP16:**

Inflow Area = 0.416 ac, 18.75% Impervious, Inflow Depth = 2.29" for 25-Year event  
Inflow = 1.36 cfs @ 12.04 hrs, Volume= 0.079 af  
Primary = 1.36 cfs @ 12.04 hrs, Volume= 0.079 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP17:**

Inflow Area = 7.386 ac, 2.63% Impervious, Inflow Depth = 1.67" for 25-Year event  
Inflow = 8.94 cfs @ 12.35 hrs, Volume= 1.029 af  
Primary = 8.94 cfs @ 12.35 hrs, Volume= 1.029 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP18:**

Inflow Area = 1.599 ac, 1.31% Impervious, Inflow Depth = 1.60" for 25-Year event  
Inflow = 2.34 cfs @ 12.21 hrs, Volume= 0.213 af  
Primary = 2.34 cfs @ 12.21 hrs, Volume= 0.213 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP19:**

Inflow Area = 7.975 ac, 0.10% Impervious, Inflow Depth = 1.60" for 25-Year event  
Inflow = 7.75 cfs @ 12.48 hrs, Volume= 1.065 af  
Primary = 7.75 cfs @ 12.48 hrs, Volume= 1.065 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP2:**

Inflow Area = 4.825 ac, 1.45% Impervious, Inflow Depth = 1.97" for 25-Year event  
Inflow = 6.24 cfs @ 12.43 hrs, Volume= 0.792 af  
Primary = 6.24 cfs @ 12.43 hrs, Volume= 0.792 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP20:**

Inflow Area = 40.004 ac, 3.65% Impervious, Inflow Depth = 1.74" for 25-Year event  
Inflow = 38.07 cfs @ 12.59 hrs, Volume= 5.816 af  
Primary = 38.07 cfs @ 12.59 hrs, Volume= 5.816 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP21:**

Inflow Area = 6.228 ac, 0.32% Impervious, Inflow Depth = 1.67" for 25-Year event  
Inflow = 7.16 cfs @ 12.38 hrs, Volume= 0.868 af  
Primary = 7.16 cfs @ 12.38 hrs, Volume= 0.868 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP22:**

Inflow Area = 7.516 ac, 0.98% Impervious, Inflow Depth = 1.97" for 25-Year event  
Inflow = 9.25 cfs @ 12.47 hrs, Volume= 1.234 af  
Primary = 9.25 cfs @ 12.47 hrs, Volume= 1.234 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP23:**

Inflow Area = 2.642 ac, 1.48% Impervious, Inflow Depth = 1.89" for 25-Year event  
Inflow = 4.42 cfs @ 12.23 hrs, Volume= 0.417 af  
Primary = 4.42 cfs @ 12.23 hrs, Volume= 0.417 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP24:**

Inflow Area = 10.169 ac, 4.49% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 12.32 cfs @ 12.52 hrs, Volume= 1.735 af  
Primary = 12.32 cfs @ 12.52 hrs, Volume= 1.735 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP3:**

Inflow Area = 1.513 ac, 4.49% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 3.60 cfs @ 12.11 hrs, Volume= 0.258 af  
Primary = 3.60 cfs @ 12.11 hrs, Volume= 0.258 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP4:**

Inflow Area = 58.640 ac, 0.49% Impervious, Inflow Depth = 1.84" for 25-Year event  
Inflow = 47.39 cfs @ 12.11 hrs, Volume= 9.012 af  
Primary = 47.39 cfs @ 12.11 hrs, Volume= 9.012 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP5:**

Inflow Area = 3.053 ac, 0.39% Impervious, Inflow Depth = 1.97" for 25-Year event  
Inflow = 4.74 cfs @ 12.30 hrs, Volume= 0.501 af  
Primary = 4.74 cfs @ 12.30 hrs, Volume= 0.501 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP6:**

Inflow Area = 29.113 ac, 0.99% Impervious, Inflow Depth = 1.89" for 25-Year event  
Inflow = 39.48 cfs @ 12.36 hrs, Volume= 4.593 af  
Primary = 39.48 cfs @ 12.36 hrs, Volume= 4.593 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP7:**

Inflow Area = 26.547 ac, 0.94% Impervious, Inflow Depth = 1.89" for 25-Year event  
Inflow = 30.05 cfs @ 12.51 hrs, Volume= 4.188 af  
Primary = 30.05 cfs @ 12.51 hrs, Volume= 4.188 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP8:**

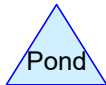
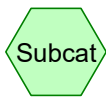
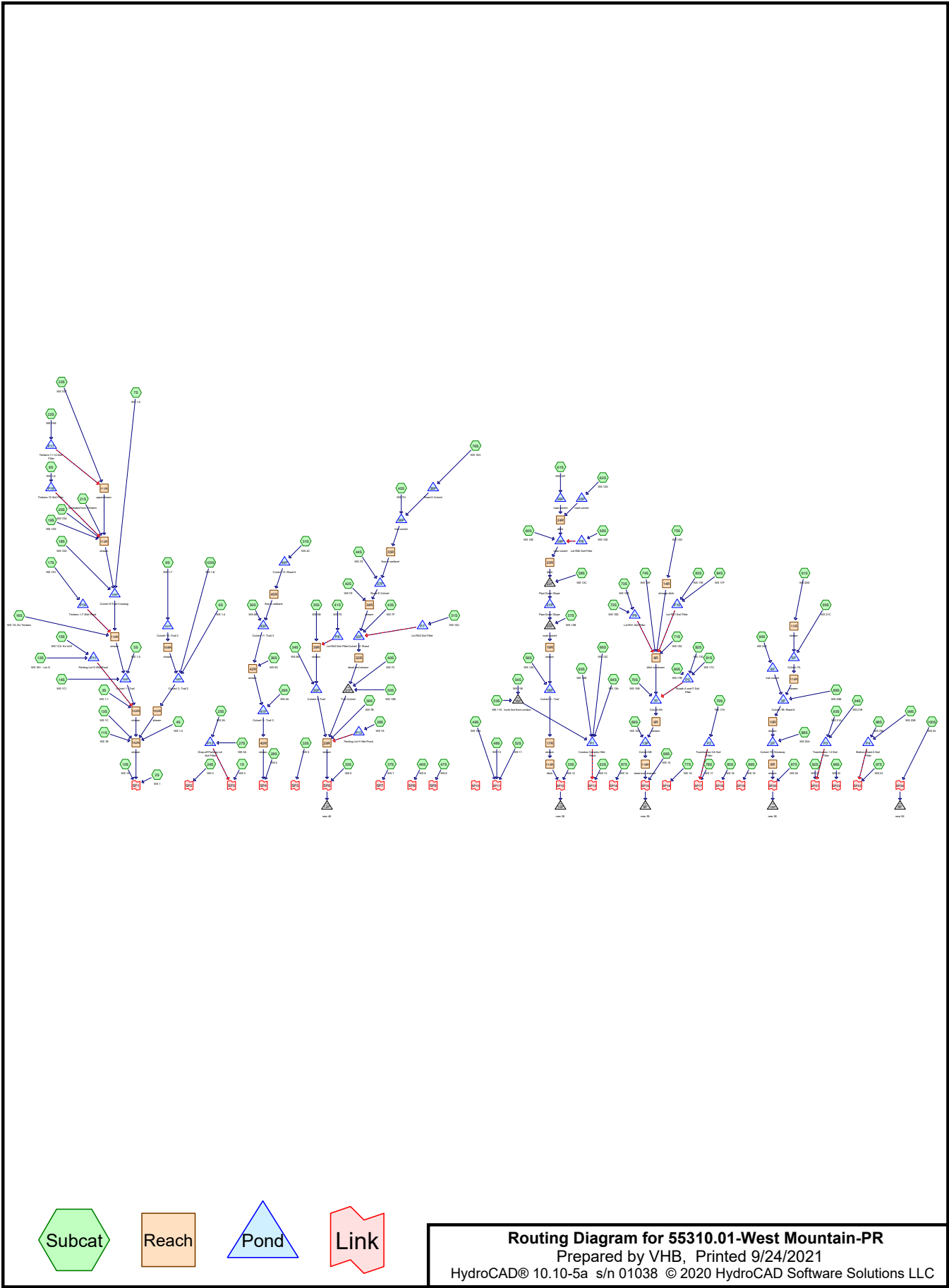
Inflow Area = 0.343 ac, 19.24% Impervious, Inflow Depth = 2.29" for 25-Year event  
Inflow = 1.52 cfs @ 11.91 hrs, Volume= 0.065 af  
Primary = 1.52 cfs @ 11.91 hrs, Volume= 0.065 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

**Summary for Link SP9:**

Inflow Area = 8.117 ac, 2.27% Impervious, Inflow Depth = 1.82" for 25-Year event  
Inflow = 8.69 cfs @ 12.52 hrs, Volume= 1.230 af  
Primary = 8.69 cfs @ 12.52 hrs, Volume= 1.230 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs



**Routing Diagram for 55310.01-West Mountain-PR**  
 Prepared by VHB, Printed 9/24/2021  
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## Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-Year	Type II 24-hr		Default	24.00	1	2.00	2
2	2-Year	Type II 24-hr		Default	24.00	1	2.40	2
3	10-Year	Type II 24-hr		Default	24.00	1	3.40	2
4	25-Year	Type II 24-hr		Default	24.00	1	4.20	2

**55310.01-West Mountain-PR**

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**Area Listing (all nodes)**

Area (acres)	CN	Description (subcatchment-numbers)
103.801	70	Existing Woods, Good, HSG C (6S, 7S, 9S, 16S, 17S, 18S, 19S, 20S, 23S, 29S, 30S, 31S, 34S, 40S, 45S, 50S, 51S, 57S, 58S, 62S, 65S, 68S, 69S, 70S, 75S, 76S, 77S, 78S, 80S, 81S, 84S, 86S, 87S, 88S, 89S, 90S, 91S, 93S, 94S, 95S, 100S, 103S)
167.309	77	Existing Woods, Good, HSG D (1S, 2S, 3S, 4S, 5S, 6S, 7S, 9S, 10S, 11S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 20S, 23S, 24S, 25S, 27S, 28S, 29S, 30S, 31S, 32S, 33S, 34S, 35S, 36S, 37S, 38S, 39S, 40S, 41S, 42S, 43S, 44S, 45S, 46S, 47S, 48S, 50S, 51S, 52S, 55S, 56S, 59S, 60S, 61S, 62S, 63S, 64S, 65S, 67S, 68S, 74S, 76S, 77S, 78S, 79S, 84S, 85S, 86S, 87S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 99S, 100S, 103S)
3.235	98	Existing impervious to be treated as offset, HSG D (15S, 38S)
33.579	71	Existing meadow, non-grazed, HSG C (7S, 16S, 17S, 19S, 20S, 23S, 31S, 76S, 91S, 95S, 100S)
39.281	78	Existing meadow, non-grazed, HSG D (7S, 11S, 14S, 15S, 16S, 17S, 20S, 23S, 31S, 91S, 95S, 100S, 103S)
16.205	70	Proposed Woods, Good, HSG C (6S, 7S, 9S, 17S, 18S, 23S, 30S, 31S, 34S, 40S, 45S, 49S, 50S, 58S, 61S, 62S, 68S, 70S, 71S, 72S, 75S, 76S, 77S, 89S, 90S, 91S, 94S, 95S, 103S)
22.202	77	Proposed Woods, Good, HSG D (3S, 4S, 5S, 6S, 7S, 9S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 23S, 27S, 28S, 29S, 30S, 31S, 32S, 33S, 34S, 35S, 36S, 39S, 40S, 44S, 45S, 48S, 49S, 52S, 55S, 61S, 62S, 64S, 67S, 68S, 74S, 75S, 76S, 83S, 103S)
12.291	71	Proposed developed meadow to be treated, HSG C (8S, 17S, 22S, 51S, 54S, 59S, 65S, 66S, 73S, 79S, 80S, 83S, 91S, 93S)
16.729	78	Proposed developed meadow to be treated, HSG D (8S, 12S, 17S, 22S, 24S, 25S, 38S, 41S, 51S, 53S, 54S, 59S, 64S, 65S, 67S, 73S, 79S, 80S, 83S, 93S, 98S)
24.157	71	Proposed developed meadow, non-grazed, HSG C (7S, 16S, 18S, 19S, 20S, 21S, 23S, 30S, 31S, 40S, 43S, 45S, 49S, 50S, 56S, 57S, 58S, 60S, 62S, 67S, 68S, 69S, 70S, 71S, 72S, 74S, 75S, 76S, 77S, 78S, 81S, 82S, 84S, 86S, 87S, 88S, 89S, 90S, 91S, 94S, 95S, 100S, 103S)
27.947	78	Proposed developed meadow, non-grazed, HSG D (1S, 2S, 4S, 11S, 13S, 14S, 16S, 20S, 21S, 23S, 24S, 27S, 29S, 30S, 31S, 33S, 34S, 35S, 36S, 37S, 39S, 40S, 42S, 43S, 44S, 45S, 46S, 47S, 48S, 49S, 50S, 52S, 55S, 56S, 60S, 61S, 62S, 63S, 68S, 72S, 74S, 75S, 76S, 77S, 78S, 82S, 84S, 86S, 87S, 88S, 91S, 92S, 94S, 95S, 96S, 97S, 99S, 100S)
6.697	98	Proposed impervious to be treated, HSG C (8S, 17S, 22S, 51S, 54S, 59S, 65S, 66S, 69S, 73S, 79S, 80S, 83S, 91S, 93S)
8.850	98	Proposed impervious to be treated, HSG D (8S, 12S, 17S, 22S, 25S, 27S, 38S, 41S, 51S, 53S, 54S, 59S, 65S, 73S, 80S, 83S, 93S, 98S, 99S)
2.571	71	Proposed meadow, ski lift, HSG C (6S, 103S)
3.182	78	Proposed meadow, ski lift, HSG D (6S, 103S)

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**Area Listing (all nodes) (continued)**

Area (acres)	CN	Description (subcatchment-numbers)
40.904	71	Proposed meadow, ski trail, HSG C (6S, 7S, 8S, 9S, 17S, 18S, 21S, 23S, 30S, 31S, 34S, 45S, 49S, 50S, 57S, 61S, 62S, 67S, 68S, 70S, 71S, 74S, 76S, 77S, 78S, 79S, 88S, 89S, 90S, 91S, 94S, 95S, 100S, 103S)
65.461	78	Proposed meadow, ski trail, HSG D (3S, 4S, 5S, 6S, 7S, 9S, 12S, 13S, 14S, 16S, 18S, 23S, 27S, 28S, 29S, 31S, 32S, 33S, 34S, 36S, 39S, 40S, 44S, 48S, 49S, 52S, 55S, 61S, 62S, 64S, 67S, 74S, 76S, 83S, 103S)
5.687	98	Untreated existing impervious, HSG C (7S, 16S, 17S, 19S, 20S, 91S, 95S)
6.947	98	Untreated existing impervious, HSG D (1S, 2S, 7S, 11S, 14S, 16S, 20S, 24S, 25S, 27S, 28S, 32S, 33S, 37S, 46S, 47S, 52S, 55S, 63S, 67S, 68S, 77S, 78S, 85S, 86S, 87S, 92S, 95S, 96S, 97S, 100S, 103S)
9.403	98	Untreated proposed impervious, HSG C (7S, 16S, 19S, 21S, 23S, 30S, 31S, 40S, 43S, 45S, 50S, 56S, 57S, 58S, 69S, 70S, 71S, 72S, 74S, 75S, 76S, 78S, 79S, 81S, 82S, 86S, 87S, 88S, 89S, 90S, 91S, 94S, 95S)
9.020	98	Untreated proposed impervious, HSG D (4S, 6S, 9S, 11S, 16S, 21S, 23S, 27S, 30S, 31S, 34S, 35S, 36S, 40S, 42S, 43S, 44S, 45S, 49S, 50S, 56S, 57S, 60S, 61S, 62S, 74S, 75S, 76S, 82S, 84S, 87S, 88S, 91S, 99S, 100S, 103S)
<b>625.458</b>	<b>76</b>	<b>TOTAL AREA</b>

**Summary for Subcatchment 1S: WS 3**

Runoff = 0.14 cfs @ 12.07 hrs, Volume= 0.009 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.032	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.103	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.172	82	Weighted Average
0.135		78.49% Pervious Area
0.037		21.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	74	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.4	115	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
14.2	189	Total			

**Summary for Subcatchment 2S: WS 1**

Runoff = 0.77 cfs @ 12.59 hrs, Volume= 0.133 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.019	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.414	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.134	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.567	77	Weighted Average
3.548		99.47% Pervious Area
0.019		0.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	37	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	102	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
36.2	150	0.0700	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	133	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	138	0.0600	10.43	458.93	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050
0.8	505	0.0600	10.43	458.93	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050
51.7	1,065	Total			

**Summary for Subcatchment 3S: WS 1-1**

Runoff = 0.84 cfs @ 12.12 hrs, Volume= 0.068 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.863	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.472	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.479	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.814	77	Weighted Average
1.814		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.9	105	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	60	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.3	328	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
17.3	593	Total			

**Summary for Subcatchment 4S: WS 1-2**

Runoff = 1.44 cfs @ 12.05 hrs, Volume= 0.092 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.685	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.351	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.002	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.130	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.114	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.282	78	Weighted Average
2.280		99.91% Pervious Area
0.002		0.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	194	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	53	0.4900	1.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	327	0.1000	13.40	563.00	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
12.0	674	Total			

**Summary for Subcatchment 5S: WS 1-3**

Runoff = 3.48 cfs @ 12.16 hrs, Volume= 0.312 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.319	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.938	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
4.092	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.349	77	Weighted Average
8.349		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.1700	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
3.4	596	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
10.1	585	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
20.5	1,281	Total			

**Summary for Subcatchment 6S: WS 1-4**

Runoff = 6.69 cfs @ 12.32 hrs, Volume= 0.838 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
2.284	70	Existing Woods, Good, HSG C
8.316	77	Existing Woods, Good, HSG D
0.588	70	Proposed Woods, Good, HSG C
1.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.088	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.085	71	Proposed meadow, ski trail, HSG C
6.341	78	Proposed meadow, ski trail, HSG D
0.360	71	Proposed meadow, ski lift, HSG C
2.079	78	Proposed meadow, ski lift, HSG D
24.316	76	Weighted Average
24.228		99.64% Pervious Area
0.088		0.36% Impervious Area

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Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	51	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.8	294	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	760	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.0	482	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.5	447	0.1800	2.97		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.1	637	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.1	138	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
31.6	2,809	Total			

**Summary for Subcatchment 7S: WS 1-5**

Runoff = 8.04 cfs @ 12.63 hrs, Volume= 1.613 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.022	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.752	71	Existing meadow, non-grazed, HSG C
6.694	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
23.036	70	Existing Woods, Good, HSG C
11.631	77	Existing Woods, Good, HSG D
2.098	70	Proposed Woods, Good, HSG C
0.523	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.186	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
7.773	71	Proposed meadow, ski trail, HSG C
4.678	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
<hr/>		
60.422	73	Weighted Average
60.371		99.92% Pervious Area
0.051		0.08% Impervious Area

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Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	396	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	367	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	394	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	361	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.3	252	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.6	459	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	334	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
51.0	6,226	Total			



**Summary for Subcatchment 8S: WS 1-6**

Runoff = 0.84 cfs @ 11.93 hrs, Volume= 0.036 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.181	98	Proposed impervious to be treated, HSG C
0.050	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.262	71	Proposed developed meadow to be treated, HSG C
0.111	78	Proposed developed meadow to be treated, HSG D
0.056	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.660	82	Weighted Average
0.429		65.00% Pervious Area
0.231		35.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.5	80	0.0300	2.60		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.2	107	0.1200	10.21	8.02	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
2.1	287	Total			

**Summary for Subcatchment 9S: WS 1-7**

Runoff = 6.43 cfs @ 12.35 hrs, Volume= 0.908 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
10.166	70	Existing Woods, Good, HSG C
8.946	77	Existing Woods, Good, HSG D
1.118	70	Proposed Woods, Good, HSG C
1.643	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.068	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.838	71	Proposed meadow, ski trail, HSG C
5.370	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
31.149	74	Weighted Average
31.081		99.78% Pervious Area
0.068		0.22% Impervious Area

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.2700	0.29		<b>Sheet Flow,</b> n= 0.240 P2= 2.40"
1.0	229	0.2700	3.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.5	216	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.1	483	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	251	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	311	0.2300	3.36		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.1	863	0.2500	3.50		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.2	956	0.2100	7.19	21.56	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
7.1	413	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	509	0.1500	10.18	91.58	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00' n= 0.050
33.2	4,331	Total			

**Summary for Subcatchment 10S: WS 1A**

Runoff = 1.02 cfs @ 12.27 hrs, Volume= 0.115 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.076	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.076	77	Weighted Average
3.076		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	31	0.0600	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.2	191	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	59	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	193	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	161	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	107	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	79	0.0500	9.26	314.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050
28.5	821	Total			

**Summary for Subcatchment 11S: WS 1B**

Runoff = 3.84 cfs @ 12.11 hrs, Volume= 0.286 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.425	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.072	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
5.568	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.084	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.429	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.578	79	Weighted Average
6.069		92.26% Pervious Area
0.509		7.74% Impervious Area

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Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.7	336	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch
0.7	339	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	336	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	278	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	283	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.3	118	0.0800	7.46	22.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.4	164	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.1	83	0.1400	9.87	29.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.3	505	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
16.6	2,480	Total			

**Summary for Subcatchment 12S: WS 1B1 - Lot G**

Runoff = 3.48 cfs @ 11.93 hrs, Volume= 0.148 af, Depth= 0.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.145	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.007	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.765	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.438	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.030	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.385	84	Weighted Average
1.620		67.92% Pervious Area
0.765		32.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.5	81	0.0200	2.87		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.3	304	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.2	485	Total			

**Summary for Subcatchment 13S: WS 1C**

Runoff = 1.12 cfs @ 12.19 hrs, Volume= 0.109 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.260	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.053	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.261	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.908	77	Weighted Average
2.908		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	100	0.0600	0.16		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.2	122	0.0600	1.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	46	0.4800	1.73		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	221	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	154	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	283	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
2.0	88	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
22.9	1,014	Total			



**Summary for Subcatchment 14S: WS 1C1**

Runoff = 10.92 cfs @ 12.13 hrs, Volume= 0.841 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
3.283	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
3.459	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
6.788	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.702	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.321	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.998	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
15.551	82	Weighted Average
12.268		78.89% Pervious Area
3.283		21.11% Impervious Area

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Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	172	0.1500	6.24		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
1.7	164	0.0500	1.57		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	77	0.3100	3.90		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	157	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.9	350	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.5	219	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.5	251	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	316	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.1	73	0.1900	11.50	34.51	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	300	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	179	0.0200	3.73	11.20	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.0	342	0.0500	5.90	17.70	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
18.9	2,648	Total			

**Summary for Subcatchment 15S: WS 1C2- Ex lot E**

Runoff = 10.19 cfs @ 11.96 hrs, Volume= 0.476 af, Depth= 0.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
3.136	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.703	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.869	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.211	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.919	88	Weighted Average
2.783		47.02% Pervious Area
3.136		52.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0500	1.72		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.4	90	0.0500	3.60		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
1.2	114	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	356	0.0300	4.57	13.71	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.2	195	0.0300	2.79		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
0.1	31	0.3900	10.05		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
5.2	886	Total			

**Summary for Subcatchment 16S: WS 1D- Ex Timbers**

Runoff = 11.55 cfs @ 12.62 hrs, Volume= 2.111 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
4.120	98	Untreated existing impervious, HSG C
1.443	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
13.418	71	Existing meadow, non-grazed, HSG C
9.815	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
16.186	70	Existing Woods, Good, HSG C
12.572	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.473	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.044	98	Untreated proposed impervious, HSG D
0.454	71	Proposed developed meadow, non-grazed, HSG C
1.984	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.717	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
61.234	76	Weighted Average
55.619		90.83% Pervious Area
5.615		9.17% Impervious Area

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	60	0.2300	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	130	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	182	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	394	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	298	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	183	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	230	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	254	0.1000	8.17	114.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.3	159	0.1300	9.31	130.40	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.3	160	0.1100	8.57	119.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
2.2	165	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	245	0.2600	1.27		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	192	0.1000	8.17	114.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.1	231	0.1300	29.21	408.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.022
4.5	280	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	134	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	334	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	168	0.0800	16.81	235.27	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
1.1	398	0.0100	5.94	83.18	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
0.5	334	0.0400	11.88	166.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
0.2	176	0.1900	15.54	217.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'

n= 0.050 Mountain streams w/large boulders

53.2 4,707 Total

**Summary for Subcatchment 17S: WS 1D1**

Runoff = 7.66 cfs @ 11.94 hrs, Volume= 0.332 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.085	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.048	71	Existing meadow, non-grazed, HSG C
0.115	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.722	70	Existing Woods, Good, HSG C
0.593	77	Existing Woods, Good, HSG D
0.001	70	Proposed Woods, Good, HSG C
0.067	77	Proposed Woods, Good, HSG D
1.711	98	Proposed impervious to be treated, HSG C
0.017	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
3.438	71	Proposed developed meadow to be treated, HSG C
0.822	78	Proposed developed meadow to be treated, HSG D
0.003	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
7.622	79	Weighted Average
5.809		76.21% Pervious Area
1.813		23.79% Impervious Area

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Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1100	2.36		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.0	19	0.1100	6.73		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.3	69	0.0600	3.67		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.5	427	0.1200	13.38	23.65	<b>Pipe Channel,</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.020 Corrugated PE, corrugated interior
0.2	316	0.1900	31.50	125.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.016 Asphalt, rough
0.1	118	0.2400	22.93	72.04	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
0.6	372	0.1500	10.92	43.69	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.041 Riprap, 2-inch
2.4	1,421	Total			

**Summary for Subcatchment 18S: WS 1D2**

Runoff = 1.37 cfs @ 12.09 hrs, Volume= 0.117 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.962	70	Existing Woods, Good, HSG C
0.049	77	Existing Woods, Good, HSG D
0.375	70	Proposed Woods, Good, HSG C
0.139	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.277	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
2.431	71	Proposed meadow, ski trail, HSG C
0.552	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.785	72	Weighted Average
4.785		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
6.2	1,123	0.1890	3.04		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.4	1,223	Total			

**Summary for Subcatchment 19S: WS 1D3**

Runoff = 1.38 cfs @ 12.01 hrs, Volume= 0.079 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.374	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.349	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.899	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.003	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.092	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.717	74	Weighted Average
2.340		86.12% Pervious Area
0.377		13.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	93	0.0500	1.69		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
4.5	259	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	220	0.1100	5.20	15.60	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.8	70	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	89	0.1100	5.20	15.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
7.2	731	Total			

**Summary for Subcatchment 20S: WS 1D4**

Runoff = 0.51 cfs @ 12.06 hrs, Volume= 0.036 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.063	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.295	71	Existing meadow, non-grazed, HSG C
0.074	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.307	70	Existing Woods, Good, HSG C
0.158	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.144	71	Proposed developed meadow, non-grazed, HSG C
0.041	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.119	75	Weighted Average
1.019		91.06% Pervious Area
0.100		8.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	59	0.2200	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	157	0.2200	3.28		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	179	0.1000	4.96	14.88	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.2	395	Total			

**Summary for Subcatchment 21S: Untreated from Timbers**

Runoff = 4.98 cfs @ 11.96 hrs, Volume= 0.228 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.234	98	Untreated proposed impervious, HSG C
0.894	98	Untreated proposed impervious, HSG D
1.026	71	Proposed developed meadow, non-grazed, HSG C
2.185	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.186	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.525	81	Weighted Average
3.397		75.07% Pervious Area
1.128		24.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	92	0.1000	2.23		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.3	105	0.1700	6.18		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
3.4	1,120	0.1100	5.56	22.23	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
4.4	1,317	Total			

**Summary for Subcatchment 22S: WS 1D6**

Runoff = 2.57 cfs @ 11.97 hrs, Volume= 0.121 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.103	98	Proposed impervious to be treated, HSG C
0.537	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.127	71	Proposed developed meadow to be treated, HSG C
1.062	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.829	85	Weighted Average
1.189		65.01% Pervious Area
0.640		34.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	66	0.2700	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	89	0.0200	2.12		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.5	310	0.0600	11.11	8.73	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
5.4	465	Total			

**Summary for Subcatchment 23S: WS 1D7**

Runoff = 2.05 cfs @ 12.48 hrs, Volume= 0.344 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
2.084	71	Existing meadow, non-grazed, HSG C
3.608	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.198	70	Existing Woods, Good, HSG C
1.644	77	Existing Woods, Good, HSG D
0.169	70	Proposed Woods, Good, HSG C
0.253	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.036	98	Untreated proposed impervious, HSG D
0.091	71	Proposed developed meadow, non-grazed, HSG C
0.164	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.288	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D

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11.787	74	Weighted Average
11.743		99.63% Pervious Area
0.044		0.37% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.5	89	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.4	228	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	185	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	217	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	273	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	293	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	264	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	251	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	300	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	194	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	138	0.2200	10.15	30.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050
42.2	2,532	Total			

**Summary for Subcatchment 24S: WS 2**

Runoff = 0.55 cfs @ 12.18 hrs, Volume= 0.051 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.070	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.145	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.048	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.012	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.275	78	Weighted Average
1.205		94.51% Pervious Area
0.070		5.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	35	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.7	242	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	176	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	129	0.0500	1.10	3.30	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.220
22.5	582	Total			

**Summary for Subcatchment 25S: WS 2A**

Runoff = 3.67 cfs @ 11.94 hrs, Volume= 0.157 af, Depth= 0.91"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.010	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.002	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.910	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.162	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.084	87	Weighted Average
1.164		55.85% Pervious Area
0.920		44.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0300	1.40		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.6	457	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.8	557	Total			

**Summary for Subcatchment 27S: WS 3A**

Runoff = 0.80 cfs @ 12.27 hrs, Volume= 0.086 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.824	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.161	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.048	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.040	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.411	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.480	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.985	79	Weighted Average
1.876		94.51% Pervious Area
0.109		5.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.1	136	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.6	241	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	18	0.4400	1.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	159	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.7	160	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	161	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
29.5	928	Total			

**Summary for Subcatchment 28S: WS 4**

Runoff = 2.36 cfs @ 12.07 hrs, Volume= 0.163 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.009	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.993	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.257	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.104	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.363	77	Weighted Average
4.354		99.79% Pervious Area
0.009		0.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.1	269	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	100	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	436	0.1100	24.47	2,741.07	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=8.00' Z= 1.0 '/' Top.W=22.00' n= 0.050 Mountain streams w/large boulders
13.2	905	Total			

**Summary for Subcatchment 29S: WS 4A**

Runoff = 10.56 cfs @ 12.06 hrs, Volume= 0.713 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.622	70	Existing Woods, Good, HSG C
10.916	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
1.944	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.218	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
3.977	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
20.677	76	Weighted Average
20.677		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.1900	0.25		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.0	180	0.1900	3.05		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	2,562	0.1550	9.80	58.80	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
12.1	2,842	Total			

**Summary for Subcatchment 30S: WS 4B**

Runoff = 3.72 cfs @ 12.20 hrs, Volume= 0.360 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.657	70	Existing Woods, Good, HSG C
4.078	77	Existing Woods, Good, HSG D
0.184	70	Proposed Woods, Good, HSG C
1.364	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.216	98	Untreated proposed impervious, HSG C
0.393	98	Untreated proposed impervious, HSG D
0.593	71	Proposed developed meadow, non-grazed, HSG C
1.416	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.006	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.907	78	Weighted Average
8.298		93.16% Pervious Area
0.609		6.84% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.6	105	0.1900	3.05		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	80	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	255	0.1400	11.64	69.85	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.040 Mountain streams
0.4	218	0.1100	10.32	61.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.040 Mountain streams
4.4	217	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	189	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	142	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
24.0	1,260	Total			

**Summary for Subcatchment 31S: WS 4C**

Runoff = 6.96 cfs @ 12.27 hrs, Volume= 0.840 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.802	71	Existing meadow, non-grazed, HSG C
2.723	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.606	70	Existing Woods, Good, HSG C
5.804	77	Existing Woods, Good, HSG D
1.389	70	Proposed Woods, Good, HSG C
2.634	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.213	98	Untreated proposed impervious, HSG C
0.215	98	Untreated proposed impervious, HSG D
0.336	71	Proposed developed meadow, non-grazed, HSG C
0.248	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.924	71	Proposed meadow, ski trail, HSG C
4.557	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
26.451	75	Weighted Average
26.023		98.38% Pervious Area
0.428		1.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	100	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	37	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.0	270	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	431	0.3200	3.96		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.7	157	0.3800	1.54		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	702	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.5	262	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	740	0.2200	7.36	22.07	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
3.5	248	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	347	0.1600	9.96	59.74	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'

n= 0.050 Mountain streams w/large boulders

28.4 3,294 Total

**Summary for Subcatchment 32S: WS 5**

Runoff = 0.82 cfs @ 12.24 hrs, Volume= 0.088 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.012	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.790	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.133	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.420	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.355	77	Weighted Average
2.343		99.49% Pervious Area
0.012		0.51% Impervious Area

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Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.0	89	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	13.49	40.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.030 Stream, clean & straight
26.8	887	Total			

**Summary for Subcatchment 33S: WS 6**

Runoff = 3.15 cfs @ 12.10 hrs, Volume= 0.234 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

Prepared by VHB

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.041	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
4.020	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.108	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.595	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.493	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.257	77	Weighted Average
6.216		99.34% Pervious Area
0.041		0.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	100	0.1100	0.20		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	93	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.3	201	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	261	0.1500	8.96	35.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050
0.5	182	0.0700	6.12	24.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050
0.8	241	0.0500	5.17	20.68	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
2.8	119	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	71	0.0600	5.30	15.90	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050
15.1	1,268	Total			

**Summary for Subcatchment 34S: WS 6A**

Runoff = 4.99 cfs @ 12.14 hrs, Volume= 0.437 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.611	70	Existing Woods, Good, HSG C
4.153	77	Existing Woods, Good, HSG D
0.560	70	Proposed Woods, Good, HSG C
0.902	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.406	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.543	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
1.571	71	Proposed meadow, ski trail, HSG C
2.925	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
12.671	76	Weighted Average
12.265		96.80% Pervious Area
0.406		3.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.0	440	0.3400	1.46		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	142	0.0800	7.46	22.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch
0.6	62	0.5500	1.85		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.1	1,603	0.1370	12.71	152.58	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=2.00' Z= 1.0 '/' Top.W=8.00' n= 0.050 Mountain streams w/large boulders
18.8	2,300	Total			

**Summary for Subcatchment 35S: WS 6B**

Runoff = 1.18 cfs @ 12.13 hrs, Volume= 0.091 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.967	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.116	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.298	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.434	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.815	81	Weighted Average
1.517		83.58% Pervious Area
0.298		16.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	62	0.2500	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.2	93	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	194	0.5500	1.85		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	97	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	234	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
18.6	680	Total			

**Summary for Subcatchment 36S: WS 6C**

Runoff = 0.99 cfs @ 12.22 hrs, Volume= 0.098 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.784	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.244	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.214	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.396	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.611	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.249	79	Weighted Average
2.035		90.48% Pervious Area
0.214		9.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		<b>Sheet Flow,</b> n= 0.240 P2= 2.40"
0.6	29	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	82	0.1500	7.25	14.50	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' n= 0.050
7.1	281	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.0	150	0.0100	0.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
25.9	642	Total			

**Summary for Subcatchment 37S: WS 7**

Runoff = 0.53 cfs @ 12.07 hrs, Volume= 0.035 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.056	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.774	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.042	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.872	78	Weighted Average
0.816		93.58% Pervious Area
0.056		6.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	43	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	92	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	253	0.0500	16.63	166.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
0.1	130	0.0800	21.03	210.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
13.0	518	Total			

**Summary for Subcatchment 38S: WS 7A**

Runoff = 4.85 cfs @ 11.93 hrs, Volume= 0.207 af, Depth= 0.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.099	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.331	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
1.071	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.420	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.921	86	Weighted Average
1.751		59.95% Pervious Area
1.170		40.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.2	33	0.0200	2.87		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	37	0.4600	4.75		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	86	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.2	190	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.4	446	Total			

**Summary for Subcatchment 39S: WS 7B**

Runoff = 0.72 cfs @ 11.98 hrs, Volume= 0.036 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.040	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.084	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.066	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.696	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.886	78	Weighted Average
0.886		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	51	0.1700	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	57	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	146	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.0	13	0.4600	4.75		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	67	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.9	334	Total			

**Summary for Subcatchment 40S: WS 7C**

Runoff = 2.56 cfs @ 12.16 hrs, Volume= 0.234 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.305	70	Existing Woods, Good, HSG C
3.064	77	Existing Woods, Good, HSG D
0.266	70	Proposed Woods, Good, HSG C
0.578	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.272	98	Untreated proposed impervious, HSG C
0.147	98	Untreated proposed impervious, HSG D
0.492	71	Proposed developed meadow, non-grazed, HSG C
0.644	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.006	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.774	76	Weighted Average
6.355		93.81% Pervious Area
0.419		6.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	65	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
7.4	508	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	107	0.0400	4.58	54.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.069 Riprap, 6-inch
0.5	407	0.1600	12.66	142.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.50' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
1.0	57	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
20.1	1,144	Total			



**Summary for Subcatchment 41S: WS 7D**

Runoff = 1.24 cfs @ 12.04 hrs, Volume= 0.072 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.030	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.405	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.649	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.084	85	Weighted Average
0.679		62.64% Pervious Area
0.405		37.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	57	0.2100	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	99	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.3	156	Total			

**Summary for Subcatchment 42S: WS 7E**

Runoff = 1.66 cfs @ 12.10 hrs, Volume= 0.119 af, Depth= 0.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.342	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.310	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.879	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.531	80	Weighted Average
2.221		87.75% Pervious Area
0.310		12.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	63	0.2600	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.9	70	0.2600	1.27		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	85	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	179	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	119	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.8	516	Total			

**Summary for Subcatchment 43S: WS 7F**

Runoff = 3.72 cfs @ 12.06 hrs, Volume= 0.236 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.397	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.003	98	Untreated proposed impervious, HSG C
0.710	98	Untreated proposed impervious, HSG D
0.001	71	Proposed developed meadow, non-grazed, HSG C
1.579	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.690	81	Weighted Average
3.977		84.80% Pervious Area
0.713		15.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	73	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.7	147	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	286	0.2400	12.55	100.38	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' n= 0.050
0.2	170	0.2900	14.15	127.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' Z= 1.0 ' / Top.W=10.00' n= 0.050
13.0	676	Total			

**Summary for Subcatchment 44S: WS 7G**

Runoff = 1.91 cfs @ 12.22 hrs, Volume= 0.183 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.232	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.201	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.550	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
1.269	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.379	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.631	81	Weighted Average
3.081		84.85% Pervious Area
0.550		15.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.3	75	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	28	0.5000	1.77		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	194	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	181	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.2	276	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	53	0.0400	4.33	12.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050 Mountain streams w/large boulders
26.1	907	Total			

**Summary for Subcatchment 45S: WS 7H**

Runoff = 1.37 cfs @ 12.01 hrs, Volume= 0.078 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.619	70	Existing Woods, Good, HSG C
0.094	77	Existing Woods, Good, HSG D
0.374	70	Proposed Woods, Good, HSG C
0.101	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.323	98	Untreated proposed impervious, HSG C
0.013	98	Untreated proposed impervious, HSG D
0.897	71	Proposed developed meadow, non-grazed, HSG C
0.045	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.002	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.468	75	Weighted Average
2.132		86.39% Pervious Area
0.336		13.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0600	1.85		<b>Sheet Flow,</b> n= 0.011 P2= 2.40"
0.5	18	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	31	0.4800	1.73		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	196	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	158	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	56	0.0900	6.49	19.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050

7.7 559 Total

**Summary for Subcatchment 46S: WS 8**

Runoff = 0.29 cfs @ 12.04 hrs, Volume= 0.017 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.066	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.277	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.001	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.344	81	Weighted Average
0.278		80.81% Pervious Area
0.066		19.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	40	0.1000	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	11	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	276	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022

11.5 327 Total

**Summary for Subcatchment 47S: WS 9**

Runoff = 0.14 cfs @ 12.04 hrs, Volume= 0.008 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.036	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.101	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.011	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.148	82	Weighted Average
0.112		75.68% Pervious Area
0.036		24.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	173	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
11.1	211	Total			

**Summary for Subcatchment 48S: WS 10**

Runoff = 0.93 cfs @ 12.00 hrs, Volume= 0.050 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.332	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.208	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.513	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.228	78	Weighted Average
1.228		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	38	0.0900	0.15		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	84	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.1	79	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	106	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.6	307	Total			



**Summary for Subcatchment 49S: WS 10A**

Runoff = 1.91 cfs @ 12.04 hrs, Volume= 0.118 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.003	70	Proposed Woods, Good, HSG C
0.037	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.184	98	Untreated proposed impervious, HSG D
0.194	71	Proposed developed meadow, non-grazed, HSG C
1.430	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.172	71	Proposed meadow, ski trail, HSG C
0.891	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.911	78	Weighted Average
2.727		93.68% Pervious Area
0.184		6.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	100	0.2200	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.9	122	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	154	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.8	204	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.0	580	Total			

**Summary for Subcatchment 50S: WS 10B**

Runoff = 2.29 cfs @ 12.12 hrs, Volume= 0.191 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.876	70	Existing Woods, Good, HSG C
0.149	77	Existing Woods, Good, HSG D
1.162	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.768	98	Untreated proposed impervious, HSG C
0.087	98	Untreated proposed impervious, HSG D
1.449	71	Proposed developed meadow, non-grazed, HSG C
0.473	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
1.043	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.007	75	Weighted Average
5.152		85.77% Pervious Area
0.855		14.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.5	355	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	533	0.1200	7.50	22.49	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050 Mountain streams w/large boulders
16.5	944	Total			

**Summary for Subcatchment 51S: WS 10C**

Runoff = 1.24 cfs @ 12.08 hrs, Volume= 0.084 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.003	70	Existing Woods, Good, HSG C
0.288	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.196	98	Proposed impervious to be treated, HSG C
0.282	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.364	71	Proposed developed meadow to be treated, HSG C
0.413	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.546	82	Weighted Average
1.068		69.08% Pervious Area
0.478		30.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	66	0.2800	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	146	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	162	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.0	374	Total			

**Summary for Subcatchment 52S: WS 11**

Runoff = 1.52 cfs @ 12.06 hrs, Volume= 0.098 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.051	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.928	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.259	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.566	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.636	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.440	78	Weighted Average
2.389		97.91% Pervious Area
0.051		2.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	100	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.0	130	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	29	0.4100	1.60		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	105	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	216	0.1000	4.96	14.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.3	580	Total			

**Summary for Subcatchment 53S: WS 11A**

Runoff = 5.77 cfs @ 11.93 hrs, Volume= 0.253 af, Depth= 1.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
1.700	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.906	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.606	91	Weighted Average
0.906		34.77% Pervious Area
1.700		65.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1000	2.27		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.2	21	0.1000	1.66		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	70	0.3700	9.12		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
1.9	249	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.9	440	Total			

**Summary for Subcatchment 54S: WS 11B**

Runoff = 2.77 cfs @ 11.98 hrs, Volume= 0.135 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.772	98	Proposed impervious to be treated, HSG C
0.167	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.233	71	Proposed developed meadow to be treated, HSG C
0.316	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.488	82	Weighted Average
1.549		62.26% Pervious Area
0.939		37.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	100	0.4400	0.35		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	36	0.4400	4.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.3	246	0.0200	3.24	38.86	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.069 Riprap, 6-inch
6.2	382	Total			

**Summary for Subcatchment 55S: WS 12**

Runoff = 1.89 cfs @ 12.06 hrs, Volume= 0.123 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.035	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.747	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.280	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.243	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.747	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.052	78	Weighted Average
3.017		98.85% Pervious Area
0.035		1.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.5	174	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	17	0.3500	4.14		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	204	0.1700	9.95	49.77	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.050
1.0	245	0.0700	4.15	12.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
12.4	740	Total			

**Summary for Subcatchment 56S: WS 12A**

Runoff = 1.29 cfs @ 11.94 hrs, Volume= 0.056 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.777	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.012	98	Untreated proposed impervious, HSG C
0.025	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
0.576	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.392	78	Weighted Average
1.355		97.34% Pervious Area
0.037		2.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0600	1.48		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.4	87	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	254	0.1800	12.62	104.09	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.50' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	374	Total			



**Summary for Subcatchment 57S: WS 12B**

Runoff = 0.56 cfs @ 12.10 hrs, Volume= 0.048 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.082	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.046	98	Untreated proposed impervious, HSG C
0.004	98	Untreated proposed impervious, HSG D
0.995	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.846	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.973	72	Weighted Average
1.923		97.47% Pervious Area
0.050		2.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	304	0.2000	3.13		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.3	307	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	90	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
13.8	801	Total			

**Summary for Subcatchment 58S: WS 12C**

Runoff = 1.68 cfs @ 12.10 hrs, Volume= 0.124 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.595	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.366	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.817	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.292	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.070	78	Weighted Average
2.253		73.39% Pervious Area
0.817		26.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.1	185	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.7	595	Total			

**Summary for Subcatchment 59S: WS 12D**

Runoff = 1.44 cfs @ 12.06 hrs, Volume= 0.092 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.208	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.233	98	Proposed impervious to be treated, HSG C
0.253	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.613	71	Proposed developed meadow to be treated, HSG C
0.516	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.823	81	Weighted Average
1.337		73.34% Pervious Area
0.486		26.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	49	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	83	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	184	0.2700	3.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.1	316	Total			

**Summary for Subcatchment 60S: WS 12E**

Runoff = 0.93 cfs @ 12.07 hrs, Volume= 0.060 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.061	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.300	98	Untreated proposed impervious, HSG D
0.053	71	Proposed developed meadow, non-grazed, HSG C
0.617	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.031	83	Weighted Average
0.731		70.90% Pervious Area
0.300		29.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	61	0.2400	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.1	81	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	101	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	165	0.2400	3.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.9	408	Total			

**Summary for Subcatchment 61S: WS 12F**

Runoff = 1.99 cfs @ 12.05 hrs, Volume= 0.125 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.236	77	Existing Woods, Good, HSG D
0.064	70	Proposed Woods, Good, HSG C
0.184	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.322	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.770	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.216	71	Proposed meadow, ski trail, HSG C
0.078	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.870	79	Weighted Average
2.548		88.78% Pervious Area
0.322		11.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.7	185	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.9	645	Total			

**Summary for Subcatchment 62S: WS 12G**

Runoff = 2.27 cfs @ 12.18 hrs, Volume= 0.216 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.090	70	Existing Woods, Good, HSG C
1.430	77	Existing Woods, Good, HSG D
0.665	70	Proposed Woods, Good, HSG C
0.340	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.505	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
1.147	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.953	71	Proposed meadow, ski trail, HSG C
0.650	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.782	77	Weighted Average
5.277		91.27% Pervious Area
0.505		8.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	142	0.1200	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.9	277	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	569	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	222	0.0800	4.74	18.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
22.3	1,210	Total			

**Summary for Subcatchment 63S: WS 13**

Runoff = 0.31 cfs @ 12.04 hrs, Volume= 0.018 af, Depth= 0.65"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.074	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.118	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.146	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.338	82	Weighted Average
0.264		78.11% Pervious Area
0.074		21.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	36	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	254	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
11.5	290	Total			

**Summary for Subcatchment 64S: WS 13A**

Runoff = 1.59 cfs @ 12.09 hrs, Volume= 0.115 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.353	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.301	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.695	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.500	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.849	78	Weighted Average
2.849		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.4	211	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	301	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.1	612	Total			



**Summary for Subcatchment 65S: WS 13B**

Runoff = 2.08 cfs @ 11.91 hrs, Volume= 0.088 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.086	70	Existing Woods, Good, HSG C
0.116	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.379	98	Proposed impervious to be treated, HSG C
0.145	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.383	71	Proposed developed meadow to be treated, HSG C
0.416	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.525	83	Weighted Average
1.001		65.64% Pervious Area
0.524		34.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	100	0.0700	1.97		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	25	0.0700	5.37		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	88	0.1600	28.80	90.49	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
0.3	118	0.2000	7.01	21.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
1.3	331	Total			

**Summary for Subcatchment 66S: WS 13C**

Runoff = 2.29 cfs @ 12.01 hrs, Volume= 0.124 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.900	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.569	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.469	81	Weighted Average
1.569		63.55% Pervious Area
0.900		36.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.1300	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	42	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	170	0.1800	6.65	19.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.4	97	0.3100	3.90		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	409	Total			

**Summary for Subcatchment 67S: WS 14**

Runoff = 0.67 cfs @ 12.10 hrs, Volume= 0.050 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.041	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.657	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.170	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.192	78	Proposed developed meadow to be treated, HSG D
0.080	71	Proposed meadow, ski trail, HSG C
0.096	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.238	78	Weighted Average
1.197		96.69% Pervious Area
0.041		3.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	81	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	28	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	44	0.5000	1.77		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	192	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	209	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	70	0.0400	4.33	12.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050

16.0 624 Total

**Summary for Subcatchment 68S: WS 15**

Runoff = 0.62 cfs @ 12.08 hrs, Volume= 0.045 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.017	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.015	70	Existing Woods, Good, HSG C
0.776	77	Existing Woods, Good, HSG D
0.110	70	Proposed Woods, Good, HSG C
0.042	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.096	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.306	76	Weighted Average
1.289		98.70% Pervious Area
0.017		1.30% Impervious Area

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	100	0.0700	0.17		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	69	0.0700	1.85		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	44	0.5000	4.95		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.2	170	0.1500	12.39	148.70	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50' n= 0.050
1.3	99	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	99	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	43	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
13.7	624	Total			

**Summary for Subcatchment 69S: WS 15A**

Runoff = 0.97 cfs @ 11.95 hrs, Volume= 0.048 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.051	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.047	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.092	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.595	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.785	73	Weighted Average
1.646		92.21% Pervious Area
0.139		7.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	72	0.0800	1.94		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
2.3	155	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	149	0.1200	11.08	133.00	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50' n= 0.050 Mountain streams w/large boulders
3.1	376	Total			

**Summary for Subcatchment 70S: WS 15B**

Runoff = 1.04 cfs @ 12.10 hrs, Volume= 0.087 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.688	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.075	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.321	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.519	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.647	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.250	73	Weighted Average
2.929		90.12% Pervious Area
0.321		9.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.1700	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
7.0	502	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	87	0.0700	4.15	12.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
14.3	689	Total			

**Summary for Subcatchment 71S: WS 15C**

Runoff = 0.30 cfs @ 12.32 hrs, Volume= 0.036 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.010	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.219	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.551	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.103	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.883	78	Weighted Average
0.664		75.20% Pervious Area
0.219		24.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	66	0.0200	0.04		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
0.1	41	0.4400	4.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	108	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.7	141	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
32.4	356	Total			

**Summary for Subcatchment 72S: WS 15D**

Runoff = 0.21 cfs @ 12.00 hrs, Volume= 0.012 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.038	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.042	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.372	71	Proposed developed meadow, non-grazed, HSG C
0.002	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.454	73	Weighted Average
0.412		90.75% Pervious Area
0.042		9.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	43	0.5100	0.12		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
0.2	68	0.5100	5.00		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.2	111	Total			

**Summary for Subcatchment 73S: WS 15E**

Runoff = 0.95 cfs @ 11.98 hrs, Volume= 0.046 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.012	98	Proposed impervious to be treated, HSG C
0.216	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.040	71	Proposed developed meadow to be treated, HSG C
0.526	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.794	83	Weighted Average
0.566		71.28% Pervious Area
0.228		28.72% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	21	0.3300	0.09		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
1.0	286	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.8	162	0.0500	3.51	10.52	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.3	68	0.0600	3.84	11.52	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
6.1	537	Total			

**Summary for Subcatchment 74S: WS 15F**

Runoff = 2.79 cfs @ 12.02 hrs, Volume= 0.154 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.227	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.418	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.001	98	Untreated proposed impervious, HSG C
0.508	98	Untreated proposed impervious, HSG D
0.014	71	Proposed developed meadow, non-grazed, HSG C
1.020	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.011	71	Proposed meadow, ski trail, HSG C
0.852	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.051	81	Weighted Average
2.542		83.32% Pervious Area
0.509		16.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.1400	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.5	83	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.1	401	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
9.2	584	Total			

**Summary for Subcatchment 75S: WS 15G**

Runoff = 2.08 cfs @ 12.06 hrs, Volume= 0.136 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.422	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.485	70	Proposed Woods, Good, HSG C
0.098	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.784	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
1.239	71	Proposed developed meadow, non-grazed, HSG C
0.296	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.366	78	Weighted Average
2.540		75.46% Pervious Area
0.826		24.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.3	21	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	544	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.5	619	Total			

**Summary for Subcatchment 76S: WS 15H**

Runoff = 3.27 cfs @ 12.50 hrs, Volume= 0.581 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
5.165	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
4.977	70	Existing Woods, Good, HSG C
2.248	77	Existing Woods, Good, HSG D
2.513	70	Proposed Woods, Good, HSG C
0.330	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.827	98	Untreated proposed impervious, HSG C
0.001	98	Untreated proposed impervious, HSG D
1.952	71	Proposed developed meadow, non-grazed, HSG C
0.163	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.193	71	Proposed meadow, ski trail, HSG C
0.407	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
21.776	73	Weighted Average
20.948		96.20% Pervious Area
0.828		3.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.1300	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	358	0.2800	3.70		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
17.3	1,352	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	765	0.2000	3.13		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.8	793	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
42.6	3,368	Total			

**Summary for Subcatchment 77S: WS 16**

Runoff = 0.45 cfs @ 12.12 hrs, Volume= 0.037 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.083	70	Existing Woods, Good, HSG C
0.657	77	Existing Woods, Good, HSG D
0.054	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.147	71	Proposed developed meadow, non-grazed, HSG C
0.041	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.154	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.173	75	Weighted Average
1.136		96.85% Pervious Area
0.037		3.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.2	30	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	25	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	119	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	139	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	161	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	70	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
16.4	644	Total			

**Summary for Subcatchment 78S: WS 17**

Runoff = 1.12 cfs @ 11.95 hrs, Volume= 0.050 af, Depth= 0.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.047	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.011	70	Existing Woods, Good, HSG C
0.793	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.047	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.275	71	Proposed developed meadow, non-grazed, HSG C
0.044	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.119	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.336	77	Weighted Average
1.242		92.96% Pervious Area
0.094		7.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	23	0.1700	2.09		<b>Sheet Flow,</b> n= 0.011 P2= 2.40"
0.4	53	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.1	126	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	202	0.1400	15.06	75.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.030
2.9	404	Total			

**Summary for Subcatchment 79S: WS 17A**

Runoff = 2.14 cfs @ 12.04 hrs, Volume= 0.130 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.035	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.780	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.039	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.761	71	Proposed developed meadow to be treated, HSG C
0.248	78	Proposed developed meadow to be treated, HSG D
0.349	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.212	78	Weighted Average
2.393		74.50% Pervious Area
0.819		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	73	0.1200	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.8	94	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	268	0.0700	1.85		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
10.5	435	Total			



**Summary for Subcatchment 80S: WS 17B**

Runoff = 2.60 cfs @ 11.96 hrs, Volume= 0.118 af, Depth= 0.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.001	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.843	98	Proposed impervious to be treated, HSG C
0.055	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.441	71	Proposed developed meadow to be treated, HSG C
0.006	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.346	81	Weighted Average
1.448		61.72% Pervious Area
0.898		38.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1200	2.44		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	46	0.1200	7.03		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
3.5	1,127	0.1200	5.43	16.30	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
4.3	1,273	Total			

**Summary for Subcatchment 81S: WS 17C**

Runoff = 0.57 cfs @ 12.11 hrs, Volume= 0.045 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.298	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.264	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.746	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.308	76	Weighted Average
1.044		79.82% Pervious Area
0.264		20.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	316	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	76	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
16.0	448	Total			

**Summary for Subcatchment 82S: WS 17D**

Runoff = 0.74 cfs @ 12.09 hrs, Volume= 0.054 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.346	98	Untreated proposed impervious, HSG C
0.003	98	Untreated proposed impervious, HSG D
0.974	71	Proposed developed meadow, non-grazed, HSG C
0.005	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.328	78	Weighted Average
0.979		73.72% Pervious Area
0.349		26.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	49	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.6	95	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	155	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
14.9	299	Total			

**Summary for Subcatchment 83S: WS 17E**

Runoff = 4.75 cfs @ 11.98 hrs, Volume= 0.229 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.036	77	Proposed Woods, Good, HSG D
0.414	98	Proposed impervious to be treated, HSG C
0.842	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.340	71	Proposed developed meadow to be treated, HSG C
1.819	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.004	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.455	85	Weighted Average
2.199		63.65% Pervious Area
1.256		36.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0300	1.40		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
5.1	1,621	0.1000	5.30	21.20	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
6.3	1,721	Total			

**Summary for Subcatchment 84S: WS 17F**

Runoff = 3.06 cfs @ 12.18 hrs, Volume= 0.266 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.019	70	Existing Woods, Good, HSG C
1.100	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
1.217	98	Untreated proposed impervious, HSG D
0.007	71	Proposed developed meadow, non-grazed, HSG C
2.244	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.587	83	Weighted Average
3.370		73.47% Pervious Area
1.217		26.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	44	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
12.6	683	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
23.5	727	Total			

**Summary for Subcatchment 85S: WS 18**

Runoff = 0.18 cfs @ 11.96 hrs, Volume= 0.008 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.165	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.186	79	Weighted Average
0.165		88.71% Pervious Area
0.021		11.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	65	0.2700	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	92	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
4.2	157	Total			

**Summary for Subcatchment 86S: WS 19**

Runoff = 0.34 cfs @ 12.05 hrs, Volume= 0.022 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.008	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.060	70	Existing Woods, Good, HSG C
0.313	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.016	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.116	71	Proposed developed meadow, non-grazed, HSG C
0.135	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.648	76	Weighted Average
0.624		96.30% Pervious Area
0.024		3.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
4.2	253	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' /' Top.W=4.00' n= 0.022
11.5	455	Total			

**Summary for Subcatchment 87S: WS 20**

Runoff = 1.09 cfs @ 11.99 hrs, Volume= 0.055 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.007	70	Existing Woods, Good, HSG C
0.881	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.013	98	Untreated proposed impervious, HSG C
0.027	98	Untreated proposed impervious, HSG D
0.030	71	Proposed developed meadow, non-grazed, HSG C
0.363	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.358	78	Weighted Average
1.281		94.33% Pervious Area
0.077		5.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	34	0.0600	1.49		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	18	0.3900	4.37		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.8	166	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	144	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	64	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' /' Top.W=4.00' n= 0.022
6.0	426	Total			

**Summary for Subcatchment 88S: WS 20A**

Runoff = 0.70 cfs @ 11.95 hrs, Volume= 0.034 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.287	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.141	98	Untreated proposed impervious, HSG C
0.006	98	Untreated proposed impervious, HSG D
0.600	71	Proposed developed meadow, non-grazed, HSG C
0.008	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.118	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.160	74	Weighted Average
1.013		87.33% Pervious Area
0.147		12.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1000	2.27		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	47	0.1000	6.42		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	35	0.4300	4.59		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.9	116	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	32	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	330	Total			

**Summary for Subcatchment 89S: WS 20B**

Runoff = 0.35 cfs @ 11.99 hrs, Volume= 0.019 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.026	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.098	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.054	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.182	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.370	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.730	73	Weighted Average
0.676		92.60% Pervious Area
0.054		7.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	76	0.2000	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.2	140	0.1300	13.74	228.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=3.50' Z= 1.0 & 0.0 '/' Top.W=6.50' n= 0.050 Mountain streams w/large boulders
5.5	216	Total			

**Summary for Subcatchment 90S: WS 20C**

Runoff = 2.48 cfs @ 12.15 hrs, Volume= 0.211 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.487	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.117	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
1.368	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
2.264	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.237	78	Weighted Average
3.869		73.88% Pervious Area
1.368		26.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.7	582	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	116	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
19.8	754	Total			

**Summary for Subcatchment 91S: WS 20D**

Runoff = 4.58 cfs @ 12.34 hrs, Volume= 0.595 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.002	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.585	71	Existing meadow, non-grazed, HSG C
2.389	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.483	70	Existing Woods, Good, HSG C
3.526	77	Existing Woods, Good, HSG D
0.350	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.064	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
1.079	98	Untreated proposed impervious, HSG C
0.643	98	Untreated proposed impervious, HSG D
1.762	71	Proposed developed meadow, non-grazed, HSG C
1.316	78	Proposed developed meadow, non-grazed, HSG D
0.571	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.496	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
17.266	76	Weighted Average
15.478		89.64% Pervious Area
1.788		10.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.8	470	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	408	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	282	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.0	593	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	511	0.0600	3.84	11.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
33.2	2,364	Total			

Summary for Subcatchment 92S: WS 21

Runoff = 0.28 cfs @ 12.06 hrs, Volume= 0.018 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.020	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.341	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.092	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.453	78	Weighted Average
0.433		95.58% Pervious Area
0.020		4.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	46	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	82	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	138	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
12.8	266	Total			

**Summary for Subcatchment 93S: WS 21A**

Runoff = 5.20 cfs @ 11.96 hrs, Volume= 0.244 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 1-Year Rainfall=2.00"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.030	70	Existing Woods, Good, HSG C
0.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.062	98	Proposed impervious to be treated, HSG C
1.172	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.149	71	Proposed developed meadow to be treated, HSG C
2.457	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.204	83	Weighted Average
2.970		70.65% Pervious Area
1.234		29.35% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	47	0.0200	1.02		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.4	366	0.0800	4.44	13.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.1	62	0.0100	7.20	22.62	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
1.5	105	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.9	170	0.0400	3.14	9.41	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.1	50	0.0500	16.10	50.59	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
0.3	110	0.1300	5.65	16.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
5.1	910	Total			

**Summary for Subcatchment 94S: WS 21B**

Runoff = 1.78 cfs @ 12.10 hrs, Volume= 0.130 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.413	70	Existing Woods, Good, HSG C
0.012	77	Existing Woods, Good, HSG D
0.242	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.792	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.049	71	Proposed developed meadow, non-grazed, HSG C
0.118	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.591	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.217	78	Weighted Average
2.425		75.38% Pervious Area
0.792		24.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	100	0.1100	0.20		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.2	161	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	370	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.3	631	Total			

**Summary for Subcatchment 95S: WS 21C**

Runoff = 3.34 cfs @ 12.75 hrs, Volume= 0.715 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
1.021	98	Untreated existing impervious, HSG C
0.399	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.513	71	Existing meadow, non-grazed, HSG C
3.194	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
11.552	70	Existing Woods, Good, HSG C
4.190	77	Existing Woods, Good, HSG D
0.457	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.027	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.156	71	Proposed developed meadow, non-grazed, HSG C
0.003	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D

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24.513	74	Weighted Average
23.066		94.10% Pervious Area
1.447		5.90% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	17	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.2	146	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	259	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	218	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	279	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	186	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	90	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	173	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	201	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	256	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	195	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	80	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	334	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	187	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	139	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.1	133	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	317	0.1600	19.24	692.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=9.00' D=3.00' Z= 1.0 '/' Top.W=15.00' n= 0.050 Mountain streams w/large boulders
59.5	3,310	Total			

**Summary for Subcatchment 96S: WS 22**

Runoff = 0.23 cfs @ 12.05 hrs, Volume= 0.014 af, Depth= 0.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.025	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.284	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.019	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.328	79	Weighted Average
0.303		92.38% Pervious Area
0.025		7.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	50	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	125	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
11.8	225	Total			

**Summary for Subcatchment 97S: WS 23**

Runoff = 0.33 cfs @ 12.01 hrs, Volume= 0.017 af, Depth= 0.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.039	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.174	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.157	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.370	80	Weighted Average
0.331		89.46% Pervious Area
0.039		10.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.1400	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	102	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.2	202	Total			

**Summary for Subcatchment 98S: WS 23A**

Runoff = 0.95 cfs @ 11.94 hrs, Volume= 0.041 af, Depth= 0.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.159	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.543	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.702	83	Weighted Average
0.543		77.35% Pervious Area
0.159		22.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	19	0.4200	0.25		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.8	217	0.0800	4.44	13.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.7	89	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.8	325	Total			

**Summary for Subcatchment 99S: WS 23B**

Runoff = 1.74 cfs @ 12.06 hrs, Volume= 0.110 af, Depth= 0.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.142	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.056	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.554	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.903	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.655	85	Weighted Average
1.045		63.14% Pervious Area
0.610		36.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.4	22	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	173	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	166	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
13.8	461	Total			

**Summary for Subcatchment 100S: WS 24**

Runoff = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"

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Type II 24-hr 1-Year Rainfall=2.00"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.506	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.568	71	Existing meadow, non-grazed, HSG C
6.423	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.073	70	Existing Woods, Good, HSG C
5.770	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.038	98	Untreated proposed impervious, HSG D
0.017	71	Proposed developed meadow, non-grazed, HSG C
0.357	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.027	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D

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13.779	78	Weighted Average
13.235		96.05% Pervious Area
0.544		3.95% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	10	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	210	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	333	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	221	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.3	317	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.3	305	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	241	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.1	138	0.2000	21.99	65.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	224	0.1500	19.05	57.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.1	118	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	167	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	89	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.1	105	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
19.4	2,578	Total			

**Summary for Subcatchment 103S: WS 1-8**

Runoff = 12.53 cfs @ 12.47 hrs, Volume= 2.013 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 1-Year Rainfall=2.00"



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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.004	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.012	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
9.906	70	Existing Woods, Good, HSG C
17.781	77	Existing Woods, Good, HSG D
2.274	70	Proposed Woods, Good, HSG C
3.491	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
8.051	71	Proposed meadow, ski trail, HSG C
18.519	78	Proposed meadow, ski trail, HSG D
2.211	71	Proposed meadow, ski lift, HSG C
1.103	78	Proposed meadow, ski lift, HSG D
<hr/>		
63.400	75	Weighted Average
63.354		99.93% Pervious Area
0.046		0.07% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.2900	0.29		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.1	249	0.2900	3.77		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.9	274	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	353	0.3300	4.02		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	277	0.2500	7.84	23.52	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
5.7	374	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	462	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	579	0.3500	4.14		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	294	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.3	639	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	363	0.1600	10.18	71.29	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00' n= 0.050
1.3	806	0.1600	10.18	71.29	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00' n= 0.050
42.2	4,770	Total			

**Summary for Reach 6R: stream**

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 0.57" for 1-Year event  
 Inflow = 5.13 cfs @ 12.11 hrs, Volume= 1.182 af  
 Outflow = 5.01 cfs @ 12.14 hrs, Volume= 1.182 af, Atten= 2%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 4.96 fps, Min. Travel Time= 0.9 min  
 Avg. Velocity = 1.38 fps, Avg. Travel Time= 3.4 min

Peak Storage= 288 cf @ 12.12 hrs  
 Average Depth at Peak Storage= 0.31' , Surface Width= 3.62'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 132.62 cfs

3.00' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
 Length= 280.0' Slope= 0.1643 '/'  
 Inlet Invert= 1,815.00', Outlet Invert= 1,769.00'



**Summary for Reach 8R: ditch to stream**

Inflow Area = 16.590 ac, 25.90% Impervious, Inflow Depth = 0.64" for 1-Year event  
 Inflow = 4.11 cfs @ 12.06 hrs, Volume= 0.878 af  
 Outflow = 4.01 cfs @ 12.11 hrs, Volume= 0.878 af, Atten= 2%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 4.82 fps, Min. Travel Time= 1.6 min  
 Avg. Velocity = 1.39 fps, Avg. Travel Time= 5.7 min

Peak Storage= 397 cf @ 12.08 hrs  
 Average Depth at Peak Storage= 0.26' , Surface Width= 3.51'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 144.00 cfs

3.00' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
 Length= 475.0' Slope= 0.1937 '/'  
 Inlet Invert= 1,910.00', Outlet Invert= 1,818.00'



**Summary for Reach 9R: stream**

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 0.39" for 1-Year event  
 Inflow = 7.84 cfs @ 12.44 hrs, Volume= 1.575 af  
 Outflow = 7.82 cfs @ 12.47 hrs, Volume= 1.575 af, Atten= 0%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 5.29 fps, Min. Travel Time= 1.0 min  
 Avg. Velocity = 2.31 fps, Avg. Travel Time= 2.4 min

Peak Storage= 489 cf @ 12.45 hrs  
 Average Depth at Peak Storage= 0.38' , Surface Width= 4.26'  
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 139.42 cfs

3.50' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.50'  
 Length= 330.0' Slope= 0.1424 '/'  
 Inlet Invert= 1,787.00', Outlet Invert= 1,740.00'



**Summary for Reach 10R: stream**

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 0.39" for 1-Year event  
 Inflow = 7.76 cfs @ 12.43 hrs, Volume= 1.541 af  
 Outflow = 7.75 cfs @ 12.44 hrs, Volume= 1.541 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 5.60 fps, Min. Travel Time= 0.4 min  
 Avg. Velocity = 2.44 fps, Avg. Travel Time= 1.0 min

Peak Storage= 194 cf @ 12.43 hrs  
 Average Depth at Peak Storage= 0.36' , Surface Width= 4.22'  
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 152.96 cfs

3.50' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 ' ' Top Width= 7.50'  
 Length= 140.0' Slope= 0.1714 ' '  
 Inlet Invert= 1,814.00', Outlet Invert= 1,790.00'



**Summary for Reach 11R: stream**

Inflow Area = 17.266 ac, 10.36% Impervious, Inflow Depth = 0.41" for 1-Year event  
 Inflow = 4.58 cfs @ 12.34 hrs, Volume= 0.595 af  
 Outflow = 4.56 cfs @ 12.37 hrs, Volume= 0.595 af, Atten= 1%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 5.08 fps, Min. Travel Time= 1.0 min  
 Avg. Velocity = 1.98 fps, Avg. Travel Time= 2.5 min

Peak Storage= 271 cf @ 12.35 hrs  
 Average Depth at Peak Storage= 0.28' , Surface Width= 3.55'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 145.10 cfs

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3.00' x 2.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
Length= 300.0' Slope= 0.1967 '/'  
Inlet Invert= 1,910.00', Outlet Invert= 1,851.00'



**Summary for Reach 14R: drainage ditch**

Inflow Area = 3.366 ac, 24.54% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 2.08 cfs @ 12.06 hrs, Volume= 0.136 af  
Outflow = 1.90 cfs @ 12.16 hrs, Volume= 0.136 af, Atten= 8%, Lag= 5.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 2.93 fps, Min. Travel Time= 3.4 min  
Avg. Velocity = 0.96 fps, Avg. Travel Time= 10.4 min

Peak Storage= 395 cf @ 12.10 hrs  
Average Depth at Peak Storage= 0.26' , Surface Width= 3.04'  
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 106.43 cfs

2.00' x 2.00' deep channel, n= 0.069  
Side Slope Z-value= 2.0 '/' Top Width= 10.00'  
Length= 600.0' Slope= 0.1500 '/'  
Inlet Invert= 2,060.00', Outlet Invert= 1,970.00'



**Summary for Reach 17R: stream**

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 6.20 cfs @ 12.18 hrs, Volume= 0.721 af  
Outflow = 6.15 cfs @ 12.20 hrs, Volume= 0.721 af, Atten= 1%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 5.76 fps, Min. Travel Time= 0.6 min  
Avg. Velocity = 1.02 fps, Avg. Travel Time= 3.3 min

Peak Storage= 219 cf @ 12.19 hrs  
Average Depth at Peak Storage= 0.25' , Surface Width= 4.51'  
Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 62.68 cfs

4.00' x 1.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 6.00'  
Length= 204.0' Slope= 0.2696 '/'  
Inlet Invert= 1,711.00', Outlet Invert= 1,656.00'



**Summary for Reach 19R: stream**

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 6.11 cfs @ 12.16 hrs, Volume= 0.664 af  
Outflow = 6.01 cfs @ 12.18 hrs, Volume= 0.664 af, Atten= 2%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 6.21 fps, Min. Travel Time= 0.7 min  
Avg. Velocity = 1.18 fps, Avg. Travel Time= 3.6 min

Peak Storage= 249 cf @ 12.17 hrs  
Average Depth at Peak Storage= 0.41' , Surface Width= 2.81'  
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 63.50 cfs

2.00' x 1.50' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 5.00'  
Length= 254.0' Slope= 0.2087 '/'  
Inlet Invert= 1,770.00', Outlet Invert= 1,717.00'



**Summary for Reach 23R: ditch**

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 0.51" for 1-Year event  
Inflow = 4.38 cfs @ 12.14 hrs, Volume= 0.492 af  
Outflow = 4.29 cfs @ 12.20 hrs, Volume= 0.492 af, Atten= 2%, Lag= 3.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 4.77 fps, Min. Travel Time= 1.9 min  
Avg. Velocity = 0.85 fps, Avg. Travel Time= 10.8 min

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Peak Storage= 501 cf @ 12.16 hrs  
Average Depth at Peak Storage= 0.28' , Surface Width= 3.56'  
Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 38.44 cfs

3.00' x 1.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 5.00'  
Length= 550.0' Slope= 0.1727 '/'  
Inlet Invert= 1,945.00', Outlet Invert= 1,850.00'



**Summary for Reach 24R: ditch**

Inflow Area = 8.652 ac, 9.56% Impervious, Inflow Depth = 0.47" for 1-Year event  
Inflow = 3.70 cfs @ 12.11 hrs, Volume= 0.341 af  
Outflow = 3.62 cfs @ 12.16 hrs, Volume= 0.341 af, Atten= 2%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 3.87 fps, Min. Travel Time= 1.7 min  
Avg. Velocity = 1.38 fps, Avg. Travel Time= 4.8 min

Peak Storage= 378 cf @ 12.12 hrs  
Average Depth at Peak Storage= 0.27' , Surface Width= 4.07'  
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 163.35 cfs

3.00' x 2.00' deep channel, n= 0.069 Riprap, 6-inch  
Side Slope Z-value= 2.0 '/' Top Width= 11.00'  
Length= 400.0' Slope= 0.2375 '/'  
Inlet Invert= 2,015.00', Outlet Invert= 1,920.00'



**Summary for Reach 29R: stream**

Inflow Area = 68.800 ac, 9.84% Impervious, Inflow Depth = 0.44" for 1-Year event  
Inflow = 16.60 cfs @ 12.16 hrs, Volume= 2.547 af  
Outflow = 16.26 cfs @ 12.22 hrs, Volume= 2.547 af, Atten= 2%, Lag= 3.3 min

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

Prepared by VHB

Printed 9/24/2021

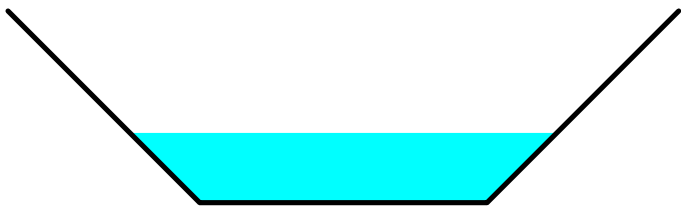
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Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 6.03 fps, Min. Travel Time= 1.8 min  
Avg. Velocity = 0.97 fps, Avg. Travel Time= 11.1 min

Peak Storage= 1,751 cf @ 12.19 hrs  
Average Depth at Peak Storage= 0.73' , Surface Width= 4.46'  
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 100.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders  
Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
Length= 645.0' Slope= 0.0946 '/'  
Inlet Invert= 1,596.00', Outlet Invert= 1,535.00'



**Summary for Reach 32R: dead end stream**

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 0.42" for 1-Year event  
Inflow = 6.47 cfs @ 12.12 hrs, Volume= 1.281 af  
Outflow = 6.33 cfs @ 12.20 hrs, Volume= 1.281 af, Atten= 2%, Lag= 4.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 5.33 fps, Min. Travel Time= 2.4 min  
Avg. Velocity = 1.30 fps, Avg. Travel Time= 9.9 min

Peak Storage= 921 cf @ 12.15 hrs  
Average Depth at Peak Storage= 0.36' , Surface Width= 3.71'  
Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 76.81 cfs

3.00' x 1.50' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 6.00'  
Length= 770.0' Slope= 0.1610 '/'  
Inlet Invert= 1,760.00', Outlet Invert= 1,636.00'





Summary for Reach 34R: stream

Inflow Area = 30.406 ac, 6.66% Impervious, Inflow Depth = 0.38" for 1-Year event
Inflow = 4.32 cfs @ 12.62 hrs, Volume= 0.961 af
Outflow = 4.30 cfs @ 12.66 hrs, Volume= 0.961 af, Atten= 0%, Lag= 2.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.54 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 1.81 fps, Avg. Travel Time= 3.4 min

Peak Storage= 352 cf @ 12.63 hrs
Average Depth at Peak Storage= 0.29' , Surface Width= 3.58'
Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 73.80 cfs

3.00' x 1.50' deep channel, n= 0.050
Side Slope Z-value= 1.0 ' ' Top Width= 6.00'
Length= 370.0' Slope= 0.1486 ' '
Inlet Invert= 1,815.00', Outlet Invert= 1,760.00'



Summary for Reach 35R: flow in wetland

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 0.33" for 1-Year event
Inflow = 3.47 cfs @ 12.49 hrs, Volume= 0.660 af
Outflow = 3.37 cfs @ 12.69 hrs, Volume= 0.660 af, Atten= 3%, Lag= 11.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.46 fps, Min. Travel Time= 6.9 min
Avg. Velocity = 0.53 fps, Avg. Travel Time= 18.9 min

Peak Storage= 1,390 cf @ 12.57 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 12.38'
Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 53.58 cfs

12.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 1.0 ' ' Top Width= 14.00'
Length= 600.0' Slope= 0.0917 ' '
Inlet Invert= 2,080.00', Outlet Invert= 2,025.00'



Summary for Reach 39R: stream

Inflow Area = 2.899 ac, 24.25% Impervious, Inflow Depth = 0.68" for 1-Year event
Inflow = 1.21 cfs @ 12.13 hrs, Volume= 0.163 af
Outflow = 1.03 cfs @ 12.33 hrs, Volume= 0.163 af, Atten= 15%, Lag= 12.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.48 fps, Min. Travel Time= 7.4 min
Avg. Velocity = 0.89 fps, Avg. Travel Time= 20.7 min

Peak Storage= 465 cf @ 12.21 hrs
Average Depth at Peak Storage= 0.10' , Surface Width= 4.21'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 161.10 cfs

4.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 8.00'
Length= 1,100.0' Slope= 0.1527 '/'
Inlet Invert= 1,780.00', Outlet Invert= 1,612.00'



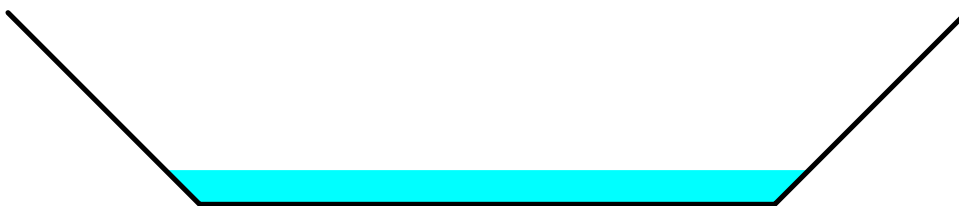
Summary for Reach 40R: stream

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 0.41" for 1-Year event
Inflow = 10.63 cfs @ 12.06 hrs, Volume= 2.010 af
Outflow = 10.03 cfs @ 12.15 hrs, Volume= 2.010 af, Atten= 6%, Lag= 5.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.45 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 1.48 fps, Avg. Travel Time= 8.7 min

Peak Storage= 1,742 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.36' , Surface Width= 6.71'
Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 10.00'
Length= 770.0' Slope= 0.1013 '/'
Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'



Summary for Reach 42R: stream

Inflow Area = 37.607 ac, 3.33% Impervious, Inflow Depth = 0.41" for 1-Year event
Inflow = 8.63 cfs @ 12.46 hrs, Volume= 1.297 af
Outflow = 8.15 cfs @ 12.68 hrs, Volume= 1.297 af, Atten= 6%, Lag= 13.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.08 fps, Min. Travel Time= 8.0 min
Avg. Velocity = 1.47 fps, Avg. Travel Time= 27.7 min

Peak Storage= 3,926 cf @ 12.54 hrs
Average Depth at Peak Storage= 0.30', Surface Width= 5.61'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 2,440.0' Slope= 0.1639 '/'
Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'



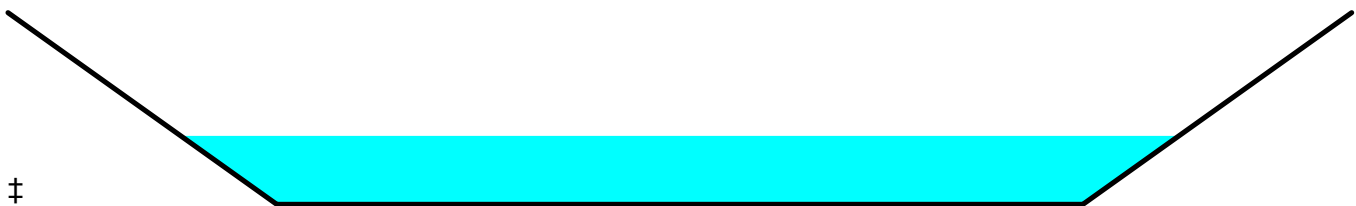
Summary for Reach 45R: flow in wetland

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 0.38" for 1-Year event
Inflow = 6.96 cfs @ 12.27 hrs, Volume= 0.840 af
Outflow = 6.25 cfs @ 12.51 hrs, Volume= 0.840 af, Atten= 10%, Lag= 13.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.61 fps, Min. Travel Time= 7.7 min
Avg. Velocity = 0.75 fps, Avg. Travel Time= 26.7 min

Peak Storage= 2,884 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.36', Surface Width= 7.43'
Bank-Full Depth= 1.00' Flow Area= 8.0 sf, Capacity= 37.72 cfs

6.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 1,200.0' Slope= 0.1442 '/'
Inlet Invert= 2,160.00', Outlet Invert= 1,987.00'



‡

Summary for Reach 102R: stream

Inflow Area = 321.351 ac, 5.57% Impervious, Inflow Depth > 0.41" for 1-Year event
Inflow = 48.27 cfs @ 12.59 hrs, Volume= 11.085 af
Outflow = 48.11 cfs @ 12.67 hrs, Volume= 11.085 af, Atten= 0%, Lag= 4.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.28 fps, Min. Travel Time= 2.8 min
Avg. Velocity = 1.03 fps, Avg. Travel Time= 14.4 min

Peak Storage= 8,107 cf @ 12.62 hrs
Average Depth at Peak Storage= 0.72', Surface Width= 13.43'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 890.0' Slope= 0.0562 '/'
Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



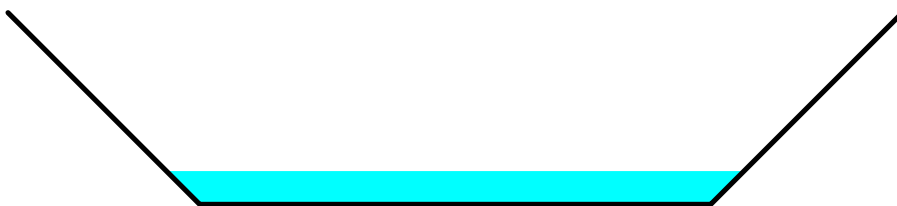
Summary for Reach 103R: stream

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 0.38" for 1-Year event
Inflow = 22.69 cfs @ 12.50 hrs, Volume= 3.759 af
Outflow = 22.63 cfs @ 12.52 hrs, Volume= 3.759 af, Atten= 0%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.09 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.85 fps, Avg. Travel Time= 2.5 min

Peak Storage= 1,227 cf @ 12.51 hrs
Average Depth at Peak Storage= 0.52', Surface Width= 9.05'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 275.0' Slope= 0.0800 '/'
Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 190.718 ac, 9.01% Impervious, Inflow Depth > 0.43" for 1-Year event
Inflow = 25.89 cfs @ 12.67 hrs, Volume= 6.839 af
Outflow = 25.83 cfs @ 12.71 hrs, Volume= 6.839 af, Atten= 0%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.75 fps, Min. Travel Time= 1.4 min
Avg. Velocity = 1.16 fps, Avg. Travel Time= 7.1 min

Peak Storage= 2,229 cf @ 12.69 hrs
Average Depth at Peak Storage= 0.53' , Surface Width= 9.06'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 14.00'
Length= 495.0' Slope= 0.1010 ' '
Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 0.35" for 1-Year event
Inflow = 6.43 cfs @ 12.35 hrs, Volume= 0.908 af
Outflow = 5.84 cfs @ 12.62 hrs, Volume= 0.908 af, Atten= 9%, Lag= 15.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.68 fps, Min. Travel Time= 8.9 min
Avg. Velocity = 1.37 fps, Avg. Travel Time= 23.9 min

Peak Storage= 3,125 cf @ 12.47 hrs
Average Depth at Peak Storage= 0.19' , Surface Width= 8.39'
Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 12.00'
Length= 1,968.0' Slope= 0.1443 ' '
Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 156.700 ac, 6.38% Impervious, Inflow Depth = 0.38" for 1-Year event
Inflow = 22.84 cfs @ 12.63 hrs, Volume= 5.015 af
Outflow = 22.77 cfs @ 12.71 hrs, Volume= 5.015 af, Atten= 0%, Lag= 5.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.72 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 1.36 fps, Avg. Travel Time= 14.4 min

Peak Storage= 3,983 cf @ 12.66 hrs
Average Depth at Peak Storage= 0.52', Surface Width= 7.04'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,175.0' Slope= 0.1464 '/'
Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 13.616 ac, 5.02% Impervious, Inflow Depth = 0.41" for 1-Year event
Inflow = 2.14 cfs @ 12.49 hrs, Volume= 0.465 af
Outflow = 2.13 cfs @ 12.57 hrs, Volume= 0.465 af, Atten= 1%, Lag= 5.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.75 fps, Min. Travel Time= 3.0 min
Avg. Velocity = 1.22 fps, Avg. Travel Time= 9.4 min

Peak Storage= 389 cf @ 12.52 hrs
Average Depth at Peak Storage= 0.18', Surface Width= 3.36'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 686.0' Slope= 0.1808 '/'
Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 22.637 ac, 11.13% Impervious, Inflow Depth = 0.45" for 1-Year event
Inflow = 6.53 cfs @ 11.97 hrs, Volume= 0.846 af
Outflow = 5.39 cfs @ 12.10 hrs, Volume= 0.846 af, Atten= 17%, Lag= 7.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.52 fps, Min. Travel Time= 4.5 min
Avg. Velocity = 1.21 fps, Avg. Travel Time= 16.9 min

Peak Storage= 1,526 cf @ 12.02 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 5.47'
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 9.00'
Length= 1,230.0' Slope= 0.1772 ' '
Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



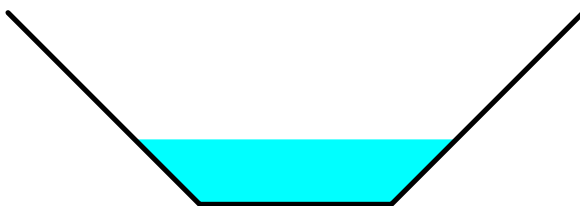
Summary for Reach 113R: ditch

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.48" for 1-Year event
Inflow = 6.15 cfs @ 12.20 hrs, Volume= 0.721 af
Outflow = 6.04 cfs @ 12.24 hrs, Volume= 0.721 af, Atten= 2%, Lag= 2.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.39 fps, Min. Travel Time= 1.2 min
Avg. Velocity = 0.64 fps, Avg. Travel Time= 6.4 min

Peak Storage= 444 cf @ 12.22 hrs
Average Depth at Peak Storage= 0.68' , Surface Width= 3.35'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 46.73 cfs

2.00' x 2.00' deep channel, n= 0.069
Side Slope Z-value= 1.0 ' ' Top Width= 6.00'
Length= 245.0' Slope= 0.0694 ' '
Inlet Invert= 1,656.00', Outlet Invert= 1,639.00'



Summary for Reach 114R: dead end channel

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 0.55" for 1-Year event
Inflow = 5.19 cfs @ 12.14 hrs, Volume= 1.229 af
Outflow = 5.12 cfs @ 12.17 hrs, Volume= 1.229 af, Atten= 1%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.54 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 1.94 fps, Avg. Travel Time= 3.4 min

Peak Storage= 318 cf @ 12.15 hrs
Average Depth at Peak Storage= 0.24' , Surface Width= 3.49'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 200.37 cfs

3.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 400.0' Slope= 0.3750 '/'
Inlet Invert= 1,750.00', Outlet Invert= 1,600.00'



Summary for Reach 115R: stream

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 0.38" for 1-Year event
Inflow = 6.76 cfs @ 12.47 hrs, Volume= 1.310 af
Outflow = 6.75 cfs @ 12.48 hrs, Volume= 1.310 af, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.35 fps, Min. Travel Time= 0.4 min
Avg. Velocity = 2.36 fps, Avg. Travel Time= 0.9 min

Peak Storage= 164 cf @ 12.47 hrs
Average Depth at Peak Storage= 0.37' , Surface Width= 3.75'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 128.34 cfs

3.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 130.0' Slope= 0.1538 '/'
Inlet Invert= 1,844.00', Outlet Invert= 1,824.00'





**Summary for Pond 2P: Culvert 7C Driveway**

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 0.39" for 1-Year event  
Inflow = 7.84 cfs @ 12.44 hrs, Volume= 1.575 af  
Primary = 7.84 cfs @ 12.44 hrs, Volume= 1.575 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 3P: Culvert 7B -Road A**

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 0.39" for 1-Year event  
Inflow = 7.76 cfs @ 12.43 hrs, Volume= 1.541 af  
Primary = 7.76 cfs @ 12.43 hrs, Volume= 1.541 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 4P: trail culvert**

Inflow Area = 5.237 ac, 26.12% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 2.48 cfs @ 12.15 hrs, Volume= 0.211 af  
Primary = 2.48 cfs @ 12.15 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 5P: Culvert 7A**

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 0.38" for 1-Year event  
Inflow = 6.76 cfs @ 12.47 hrs, Volume= 1.310 af  
Primary = 6.76 cfs @ 12.47 hrs, Volume= 1.310 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 7P: Culvert 6A**

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 0.57" for 1-Year event  
Inflow = 5.13 cfs @ 12.11 hrs, Volume= 1.182 af  
Primary = 5.13 cfs @ 12.11 hrs, Volume= 1.182 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 8P: new 36**

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af  
Outflow = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af, Atten= 0%, Lag= 0.0 min  
Primary = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

Prepared by VHB

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Peak Elev= 0.97' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0400 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=6.58 cfs @ 12.15 hrs HW=0.97' (Free Discharge)↑**1=Culvert** (Inlet Controls 6.58 cfs @ 3.35 fps)**Summary for Pond 9P: new 36**

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 0.55" for 1-Year event  
 Inflow = 5.59 cfs @ 12.16 hrs, Volume= 1.274 af  
 Outflow = 5.59 cfs @ 12.16 hrs, Volume= 1.274 af, Atten= 0%, Lag= 0.0 min  
 Primary = 5.59 cfs @ 12.16 hrs, Volume= 1.274 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 0.89' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -1.05' S= 0.0150 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=5.55 cfs @ 12.16 hrs HW=0.88' (Free Discharge)↑**1=Culvert** (Inlet Controls 5.55 cfs @ 3.20 fps)**Summary for Pond 10P: new 36**

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 0.48" for 1-Year event  
 Inflow = 6.86 cfs @ 12.22 hrs, Volume= 0.844 af  
 Outflow = 6.86 cfs @ 12.22 hrs, Volume= 0.844 af, Atten= 0%, Lag= 0.0 min  
 Primary = 6.86 cfs @ 12.22 hrs, Volume= 0.844 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 0.99' @ 12.22 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.10' S= 0.0300 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=6.79 cfs @ 12.22 hrs HW=0.98' (Free Discharge)↑**1=Culvert** (Inlet Controls 6.79 cfs @ 3.37 fps)

**Summary for Pond 12P: new 48**

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 0.44" for 1-Year event  
 Inflow = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af  
 Outflow = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af, Atten= 0%, Lag= 0.0 min  
 Primary = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1.52' @ 12.20 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>48.0" Round Culvert</b> L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0560 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

**Primary OutFlow** Max=18.31 cfs @ 12.20 hrs HW=1.52' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 18.31 cfs @ 4.19 fps)

**Summary for Pond 13P: Culvert 6B**

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 0.55" for 1-Year event  
 Inflow = 5.19 cfs @ 12.14 hrs, Volume= 1.229 af  
 Primary = 5.19 cfs @ 12.14 hrs, Volume= 1.229 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 16P: trunk line from condos**

Inflow Area = 5.094 ac, 51.81% Impervious, Inflow Depth = 0.91" for 1-Year event  
 Inflow = 8.21 cfs @ 11.94 hrs, Volume= 0.387 af  
 Outflow = 8.21 cfs @ 11.94 hrs, Volume= 0.387 af, Atten= 0%, Lag= 0.0 min  
 Primary = 8.21 cfs @ 11.94 hrs, Volume= 0.387 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,713.33' @ 11.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,712.00'	<b>30.0" Round Culvert</b> L= 700.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,712.00' / 1,694.00' S= 0.0257 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

**Primary OutFlow** Max=8.04 cfs @ 11.94 hrs HW=1,713.31' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 8.04 cfs @ 3.08 fps)

**Summary for Pond 18P: Culvert 5 - Trail**

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.48" for 1-Year event  
 Inflow = 6.20 cfs @ 12.18 hrs, Volume= 0.721 af  
 Primary = 6.20 cfs @ 12.18 hrs, Volume= 0.721 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 20P: road culvert**

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 0.48" for 1-Year event  
 Inflow = 6.11 cfs @ 12.16 hrs, Volume= 0.664 af  
 Outflow = 6.11 cfs @ 12.16 hrs, Volume= 0.664 af, Atten= 0%, Lag= 0.0 min  
 Primary = 6.11 cfs @ 12.16 hrs, Volume= 0.664 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,774.56' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,774.00'	<b>72.0" Round Culvert w/ 24.0" inside fill</b> L= 50.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,772.00' / 1,771.00' S= 0.0200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 20.02 sf

**Primary OutFlow** Max=6.04 cfs @ 12.16 hrs HW=1,774.55' (Free Discharge)

↑1=Culvert (Inlet Controls 6.04 cfs @ 1.88 fps)

**Summary for Pond 21P: Pipe Down Slope**

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 0.51" for 1-Year event  
 Inflow = 5.65 cfs @ 12.17 hrs, Volume= 0.616 af  
 Outflow = 5.66 cfs @ 12.17 hrs, Volume= 0.616 af, Atten= 0%, Lag= 0.0 min  
 Primary = 5.66 cfs @ 12.17 hrs, Volume= 0.616 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,812.92' @ 12.17 hrs Surf.Area= 0.001 ac Storage= 0.001 af

Plug-Flow detention time= 0.4 min calculated for 0.616 af (100% of inflow)

Center-of-Mass det. time= 0.4 min ( 1,003.6 - 1,003.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,812.00'	0.016 af	<b>8.00'D x 14.00'H Vertical Cone/Cylinder</b>

Device	Routing	Invert	Outlet Devices
#1	Primary	1,812.00'	<b>48.0" Round Culvert</b> L= 100.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,812.00' / 1,780.00' S= 0.3200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

**Primary OutFlow** Max=5.54 cfs @ 12.17 hrs HW=1,812.91' (Free Discharge)

↑1=Culvert (Inlet Controls 5.54 cfs @ 2.57 fps)

**Summary for Pond 22P: Pipe Down Slope**

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 0.51" for 1-Year event  
 Inflow = 5.65 cfs @ 12.17 hrs, Volume= 0.616 af  
 Outflow = 5.65 cfs @ 12.17 hrs, Volume= 0.616 af, Atten= 0%, Lag= 0.0 min  
 Primary = 5.65 cfs @ 12.17 hrs, Volume= 0.616 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,822.82' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,822.00'	<b>48.0" Round Culvert</b> L= 100.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,822.00' / 1,818.00' S= 0.0400 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

**Primary OutFlow** Max=5.57 cfs @ 12.17 hrs HW=1,822.81' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 5.57 cfs @ 3.06 fps)

**Summary for Pond 25P: road culvert**

Inflow Area = 5.782 ac, 8.73% Impervious, Inflow Depth = 0.45" for 1-Year event  
 Inflow = 2.27 cfs @ 12.18 hrs, Volume= 0.216 af  
 Primary = 2.27 cfs @ 12.18 hrs, Volume= 0.216 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 26P: road culvert**

Inflow Area = 2.870 ac, 11.22% Impervious, Inflow Depth = 0.52" for 1-Year event  
 Inflow = 1.99 cfs @ 12.05 hrs, Volume= 0.125 af  
 Primary = 1.99 cfs @ 12.05 hrs, Volume= 0.125 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 28P: road culvert**

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 0.51" for 1-Year event  
 Inflow = 4.38 cfs @ 12.14 hrs, Volume= 0.492 af  
 Primary = 4.38 cfs @ 12.14 hrs, Volume= 0.492 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 30P: Culvert 4 -Trail**

Inflow Area = 15.570 ac, 7.12% Impervious, Inflow Depth = 0.46" for 1-Year event  
 Inflow = 5.42 cfs @ 12.16 hrs, Volume= 0.600 af  
 Primary = 5.42 cfs @ 12.16 hrs, Volume= 0.600 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 31P: Trail Culvert**

Inflow Area = 49.423 ac, 9.08% Impervious, Inflow Depth = 0.41" for 1-Year event  
 Inflow = 10.95 cfs @ 12.17 hrs, Volume= 1.705 af  
 Outflow = 10.95 cfs @ 12.17 hrs, Volume= 1.705 af, Atten= 0%, Lag= 0.0 min  
 Primary = 10.95 cfs @ 12.17 hrs, Volume= 1.705 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,627.15' @ 12.17 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,626.00'	<b>72.0" Round Culvert</b> L= 300.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,626.00' / 1,610.00' S= 0.0533 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

**Primary OutFlow** Max=10.81 cfs @ 12.17 hrs HW=1,627.14' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 10.81 cfs @ 2.88 fps)

**Summary for Pond 33P: Culvert 12 -Road**

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 0.42" for 1-Year event  
 Inflow = 6.47 cfs @ 12.12 hrs, Volume= 1.281 af  
 Primary = 6.47 cfs @ 12.12 hrs, Volume= 1.281 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 36P: trail culvert**

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 0.33" for 1-Year event  
 Inflow = 3.47 cfs @ 12.49 hrs, Volume= 0.660 af  
 Primary = 3.47 cfs @ 12.49 hrs, Volume= 0.660 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 37P: Road E Culvert**

Inflow Area = 27.875 ac, 6.15% Impervious, Inflow Depth = 0.36" for 1-Year event  
 Inflow = 4.03 cfs @ 12.64 hrs, Volume= 0.842 af  
 Primary = 4.03 cfs @ 12.64 hrs, Volume= 0.842 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 38P: Road A Culvert**

Inflow Area = 21.776 ac, 3.80% Impervious, Inflow Depth = 0.32" for 1-Year event  
 Inflow = 3.27 cfs @ 12.50 hrs, Volume= 0.581 af  
 Primary = 3.27 cfs @ 12.50 hrs, Volume= 0.581 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 41P: Culvert 3 - Trail 3**

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 0.41" for 1-Year event  
Inflow = 10.63 cfs @ 12.06 hrs, Volume= 2.010 af  
Primary = 10.63 cfs @ 12.06 hrs, Volume= 2.010 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 43P: Culvert 11 -Trail 3**

Inflow Area = 35.358 ac, 2.93% Impervious, Inflow Depth = 0.41" for 1-Year event  
Inflow = 8.06 cfs @ 12.47 hrs, Volume= 1.199 af  
Primary = 8.06 cfs @ 12.47 hrs, Volume= 1.199 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 44P: Culvert 13 -Road A**

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 0.38" for 1-Year event  
Inflow = 6.96 cfs @ 12.27 hrs, Volume= 0.840 af  
Primary = 6.96 cfs @ 12.27 hrs, Volume= 0.840 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 105P: Culvert 1 - Trail**

Inflow Area = 180.600 ac, 7.35% Impervious, Inflow Depth = 0.41" for 1-Year event  
Inflow = 25.63 cfs @ 12.67 hrs, Volume= 6.168 af  
Primary = 25.63 cfs @ 12.67 hrs, Volume= 6.168 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 106P: Culvert 2- Trail 2**

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 0.38" for 1-Year event  
Inflow = 22.69 cfs @ 12.50 hrs, Volume= 3.759 af  
Primary = 22.69 cfs @ 12.50 hrs, Volume= 3.759 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 107P: Culvert 10 -Trail 2**

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 0.35" for 1-Year event  
Inflow = 6.43 cfs @ 12.35 hrs, Volume= 0.908 af  
Primary = 6.43 cfs @ 12.35 hrs, Volume= 0.908 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 108P: new 36**

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 0.39" for 1-Year event  
 Inflow = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af  
 Outflow = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af, Atten= 0%, Lag= 0.0 min  
 Primary = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,741.07' @ 12.46 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,740.00'	<b>36.0" Round Culvert</b> L= 70.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,740.00' / 1,738.00' S= 0.0286 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 7.07 sf

**Primary OutFlow** Max=7.94 cfs @ 12.46 hrs HW=1,741.07' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 7.94 cfs @ 3.52 fps)

**Summary for Pond 109P: Culvert 9-Trail Crossing**

Inflow Area = 87.844 ac, 2.93% Impervious, Inflow Depth = 0.35" for 1-Year event  
 Inflow = 11.20 cfs @ 12.63 hrs, Volume= 2.575 af  
 Primary = 11.20 cfs @ 12.63 hrs, Volume= 2.575 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond P1: Condos Complex Wet Pond**

Inflow Area = 11.937 ac, 34.04% Impervious, Inflow Depth = 0.72" for 1-Year event  
 Inflow = 12.49 cfs @ 11.95 hrs, Volume= 0.715 af  
 Outflow = 0.31 cfs @ 17.33 hrs, Volume= 0.709 af, Atten= 98%, Lag= 323.1 min  
 Primary = 0.31 cfs @ 17.33 hrs, Volume= 0.709 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,684.00' Surf.Area= 29,057 sf Storage= 54,189 cf  
 Peak Elev= 1,685.07' @ 17.33 hrs Surf.Area= 35,936 sf Storage= 74,071 cf (19,883 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= 889.0 min ( 1,736.8 - 847.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,678.00'	54,189 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,684.00'	66,450 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		120,639 cf	Total Available Storage



**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

Prepared by VHB

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,678.00	4,365	481.7	0	0	4,365
1,679.00	5,839	500.5	5,084	5,084	5,914
1,680.00	7,369	519.4	6,589	11,673	7,531
1,681.00	8,954	538.2	8,149	19,822	9,199
1,682.00	10,598	557.1	9,764	29,586	10,935
1,683.00	12,297	575.9	11,437	41,023	12,722
1,684.00	14,053	594.8	13,165	54,189	14,578

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,684.00	15,004	752.2	0	0	15,004
1,685.00	21,703	791.7	18,251	18,251	19,918
1,686.00	24,167	734.9	22,924	41,175	26,860
1,687.00	26,400	753.8	25,275	66,450	29,220

Device	Routing	Invert	Outlet Devices
#1	Primary	1,681.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,681.00' / 1,680.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,684.00'	<b>3.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,686.00'	<b>36.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,686.00'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.31 cfs @ 17.33 hrs HW=1,685.07' (Free Discharge)

- ↑ 1=Culvert (Passes 0.31 cfs of 20.94 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.31 cfs @ 4.64 fps)
- ↑ 3=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,684.00' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P10: Lot R31 Soil Filter**

Inflow Area = 8.042 ac, 30.75% Impervious, Inflow Depth = 0.74" for 1-Year event  
 Inflow = 6.15 cfs @ 12.00 hrs, Volume= 0.495 af  
 Outflow = 0.32 cfs @ 15.13 hrs, Volume= 0.495 af, Atten= 95%, Lag= 188.1 min  
 Primary = 0.32 cfs @ 15.13 hrs, Volume= 0.495 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,975.33' Surf.Area= 4,651 sf Storage= 614 cf  
 Peak Elev= 1,979.31' @ 15.13 hrs Surf.Area= 5,963 sf Storage= 12,494 cf (11,880 cf above start)

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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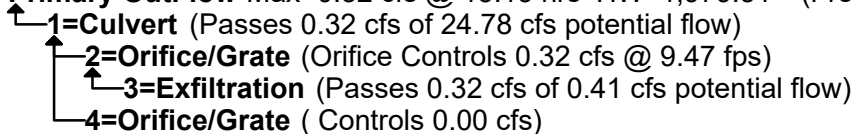
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Plug-Flow detention time= 486.2 min calculated for 0.481 af (97% of inflow)  
Center-of-Mass det. time= 452.0 min ( 1,311.3 - 859.3 )

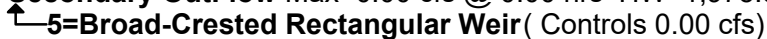
Volume	Invert	Avail.Storage	Storage Description			
#1	1,975.00'	53,120 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,975.00	4,651	326.9	0.0	0	0	4,651
1,976.50	4,651	326.9	40.0	2,791	2,791	5,141
1,978.00	4,651	326.9	40.0	2,791	5,581	5,632
1,980.00	6,726	364.6	100.0	11,313	16,895	7,818
1,982.00	9,027	402.3	100.0	15,697	32,591	10,244
1,984.00	11,554	440.0	100.0	20,529	53,120	12,907

Device	Routing	Invert	Outlet Devices
#1	Primary	1,974.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,974.00' / 1,972.00' S= 0.0200 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,975.33'	<b>2.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,975.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,982.00'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,982.70'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.32 cfs @ 15.13 hrs HW=1,979.31' (Free Discharge)



**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,975.33' (Free Discharge)



**Summary for Pond P11: Parking Lot G Wet Pond**

Inflow Area =	8.304 ac, 46.98% Impervious, Inflow Depth = 0.90" for 1-Year event
Inflow =	13.46 cfs @ 11.95 hrs, Volume= 0.624 af
Outflow =	0.12 cfs @ 24.02 hrs, Volume= 0.604 af, Atten= 99%, Lag= 724.2 min
Primary =	0.12 cfs @ 24.02 hrs, Volume= 0.604 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,534.10' Surf.Area= 24,527 sf Storage= 51,257 cf

Peak Elev= 1,535.45' @ 24.02 hrs Surf.Area= 30,166 sf Storage= 73,444 cf (22,187 cf above start)

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

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Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= 2,130.5 min ( 2,966.0 - 835.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,527.00'	49,963 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,534.00'	77,661 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		127,624 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,527.00	3,398	312.2	0	0	3,398
1,528.00	4,364	331.3	3,871	3,871	4,428
1,529.00	5,386	350.1	4,866	8,737	5,502
1,530.00	6,465	369.0	5,917	14,654	6,642
1,531.00	7,600	387.8	7,025	21,679	7,836
1,532.00	8,792	406.7	8,189	29,868	9,095
1,533.00	10,040	425.5	9,409	39,277	10,408
1,534.00	11,345	444.4	10,686	49,963	11,787

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,534.00	12,700	621.7	0	0	12,700
1,535.00	17,927	661.0	15,239	15,239	16,762
1,536.00	19,949	587.1	18,929	34,168	24,129
1,537.00	21,739	606.0	20,838	55,005	26,020
1,538.00	23,585	624.8	22,656	77,661	27,961

Device	Routing	Invert	Outlet Devices
#1	Primary	1,530.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,530.00' / 1,528.00' S= 0.0200 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf
#2	Device 1	1,534.10'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,536.60'	<b>36.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,536.90'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.12 cfs @ 24.02 hrs HW=1,535.45' (Free Discharge)

- ↑1=Culvert (Passes 0.12 cfs of 53.39 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.12 cfs @ 5.42 fps)
- ↑3=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,534.10' (Free Discharge)

- ↑4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P12: Drop-off Parking Lot Soil Filter**

Inflow Area = 4.069 ac, 25.29% Impervious, Inflow Depth = 0.72" for 1-Year event  
 Inflow = 3.79 cfs @ 11.94 hrs, Volume= 0.244 af  
 Outflow = 0.11 cfs @ 17.10 hrs, Volume= 0.244 af, Atten= 97%, Lag= 309.7 min  
 Primary = 0.11 cfs @ 17.10 hrs, Volume= 0.244 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,466.33' Surf.Area= 3,179 sf Storage= 420 cf  
 Peak Elev= 1,469.89' @ 17.10 hrs Surf.Area= 3,861 sf Storage= 6,949 cf (6,529 cf above start)

Plug-Flow detention time= 776.3 min calculated for 0.234 af (96% of inflow)  
 Center-of-Mass det. time= 718.4 min ( 1,573.8 - 855.4 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,466.00'	30,846 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,466.00	3,179	247.1	0.0	0	0	3,179
1,467.50	3,179	247.1	40.0	1,907	1,907	3,550
1,469.00	3,179	247.1	40.0	1,907	3,815	3,920
1,470.00	3,948	265.9	100.0	3,557	7,371	4,730
1,472.00	5,657	303.6	100.0	9,554	16,925	6,530
1,473.00	7,016	329.2	100.0	6,324	23,250	7,858
1,474.00	8,192	360.5	100.0	7,596	30,846	9,610

Device	Routing	Invert	Outlet Devices
#1	Primary	1,466.00'	<b>18.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,466.00' / 1,464.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	1,466.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,466.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,472.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,473.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.11 cfs @ 17.10 hrs HW=1,469.89' (Free Discharge)  
 1=Outlet Culvert (Passes 0.11 cfs of 11.91 cfs potential flow)  
 2=Orifice/Grate (Orifice Controls 0.11 cfs @ 9.01 fps)  
 3=Exfiltration (Passes 0.11 cfs of 0.27 cfs potential flow)  
 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,466.33' (Free Discharge)  
 5=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P13: Parking Lot H Wet Pond**

Inflow Area = 2.921 ac, 40.05% Impervious, Inflow Depth = 0.85" for 1-Year event  
 Inflow = 4.85 cfs @ 11.93 hrs, Volume= 0.207 af  
 Outflow = 0.09 cfs @ 16.95 hrs, Volume= 0.206 af, Atten= 98%, Lag= 300.9 min  
 Primary = 0.09 cfs @ 16.95 hrs, Volume= 0.206 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,567.00' Surf.Area= 11,858 sf Storage= 14,847 cf  
 Peak Elev= 1,567.79' @ 16.95 hrs Surf.Area= 14,824 sf Storage= 20,688 cf (5,841 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= 900.7 min ( 1,739.0 - 838.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,561.00'	14,847 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,567.00'	30,200 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		45,047 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,561.00	495	188.6	0	0	495
1,566.00	4,031	282.9	9,898	9,898	4,224
1,567.00	5,929	467.9	4,950	14,847	15,284

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,567.00	5,929	467.9	0	0	5,929
1,568.00	9,766	479.1	7,768	7,768	6,897
1,569.00	11,246	454.1	10,497	18,265	8,811
1,570.00	12,637	473.0	11,935	30,200	10,280

Device	Routing	Invert	Outlet Devices
#1	Primary	1,560.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,560.00' / 1,559.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf
#2	Device 1	1,567.00'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,568.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,569.00'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.09 cfs @ 16.95 hrs HW=1,567.79' (Free Discharge)

- ↑ 1=Culvert (Passes 0.09 cfs of 67.41 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.09 cfs @ 4.06 fps)
- ↑ 3=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,567.00' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P14: Timbers 1-7 Wet Pond**

Inflow Area = 7.622 ac, 23.79% Impervious, Inflow Depth = 0.52" for 1-Year event  
 Inflow = 7.66 cfs @ 11.94 hrs, Volume= 0.332 af  
 Outflow = 0.13 cfs @ 18.96 hrs, Volume= 0.329 af, Atten= 98%, Lag= 421.5 min  
 Primary = 0.13 cfs @ 18.96 hrs, Volume= 0.329 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,721.00' Surf.Area= 19,738 sf Storage= 31,523 cf  
 Peak Elev= 1,721.78' @ 18.96 hrs Surf.Area= 23,794 sf Storage= 40,725 cf (9,202 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= 947.1 min ( 1,815.8 - 868.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,715.00'	31,523 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,721.00'	46,722 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		78,245 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,715.00	1,909	325.0	0	0	1,909
1,716.00	2,912	343.8	2,393	2,393	2,964
1,717.00	3,972	362.7	3,428	5,821	4,084
1,718.00	5,088	381.6	4,519	10,340	5,263
1,719.00	6,261	400.4	5,664	16,004	6,497
1,720.00	7,490	419.3	6,866	22,870	7,796
1,721.00	9,869	603.5	8,652	31,523	22,797

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,721.00	9,869	603.5	0	0	9,869
1,722.00	15,216	645.8	12,446	12,446	14,120
1,723.00	17,184	596.9	16,190	28,636	18,996
1,724.00	19,003	615.8	18,086	46,722	20,918

Device	Routing	Invert	Outlet Devices
#1	Primary	1,714.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,714.00' / 1,713.00' S= 0.0100 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf

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#2	Device 1	1,721.00'	<b>2.5" Vert. Orifice/Grate - Gravel Bench Underdrain</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,722.40'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,722.80'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.13 cfs @ 18.96 hrs HW=1,721.78' (Free Discharge)

- ↑ 1=Culvert (Passes 0.13 cfs of 67.32 cfs potential flow)
- ↑ 2=Orifice/Grate - Gravel Bench Underdrain(Orifice Controls 0.13 cfs @ 3.95 fps)
- ↑ 3=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,721.00' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P16: Timbers 10 Soil Filter**

Inflow Area =	0.660 ac, 35.00% Impervious, Inflow Depth = 0.65" for 1-Year event
Inflow =	0.84 cfs @ 11.93 hrs, Volume= 0.036 af
Outflow =	0.09 cfs @ 12.36 hrs, Volume= 0.038 af, Atten= 89%, Lag= 25.5 min
Primary =	0.09 cfs @ 12.36 hrs, Volume= 0.038 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 2,085.33' Surf.Area= 877 sf Storage= 116 cf

Peak Elev= 2,086.52' @ 12.36 hrs Surf.Area= 877 sf Storage= 534 cf (418 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= (not calculated: outflow precedes inflow)

Volume	Invert	Avail.Storage	Storage Description			
#1	2,085.00'	9,992 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,085.00	877	192.0	0.0	0	0	877
2,086.50	877	192.0	40.0	526	526	1,165
2,088.00	877	192.0	40.0	526	1,052	1,453
2,090.00	2,142	229.7	100.0	2,926	3,979	2,787
2,092.00	3,964	290.6	100.0	6,013	9,992	5,361

Device	Routing	Invert	Outlet Devices
#1	Primary	2,085.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,085.00' / 2,084.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	2,085.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	2,085.00'	<b>3.000 in/hr Exfiltration over Surface area</b>

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#4	Device 1	2,091.40'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	2,091.50'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.09 cfs @ 12.36 hrs HW=2,086.52' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.09 cfs of 8.50 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.03 cfs @ 5.16 fps)
- ↑ 3=Exfiltration (Exfiltration Controls 0.06 cfs)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=2,085.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P17: Timbers 11-14 Soil Filter**

Inflow Area =	1.829 ac, 34.99% Impervious, Inflow Depth = 0.80" for 1-Year event
Inflow =	2.57 cfs @ 11.97 hrs, Volume= 0.121 af
Outflow =	0.10 cfs @ 13.95 hrs, Volume= 0.121 af, Atten= 96%, Lag= 119.0 min
Primary =	0.10 cfs @ 13.95 hrs, Volume= 0.121 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 2,119.33' Surf.Area= 2,430 sf Storage= 321 cf

Peak Elev= 2,122.09' @ 13.95 hrs Surf.Area= 2,491 sf Storage= 3,136 cf (2,815 cf above start)

Plug-Flow detention time= 441.0 min calculated for 0.114 af (94% of inflow)

Center-of-Mass det. time= 376.8 min ( 1,222.2 - 845.3 )

Volume	Invert	Avail.Storage	Storage Description			
#1	2,119.00'	13,840 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,119.00	2,430	238.8	0.0	0	0	2,430
2,120.50	2,430	238.8	40.0	1,458	1,458	2,788
2,122.00	2,430	238.8	40.0	1,458	2,916	3,146
2,124.00	3,989	280.8	100.0	6,355	9,271	4,959
2,125.00	5,174	303.4	100.0	4,569	13,840	6,050

Device	Routing	Invert	Outlet Devices
#1	Primary	2,119.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,119.00' / 2,117.00' S= 0.0200 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	2,119.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	2,119.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	2,123.70'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600



#5 Secondary 2,124.00' Limited to weir flow at low heads  
**6.0' long x 8.0' breadth Broad-Crested Rectangular Weir**  
 Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00  
 2.50 3.00 3.50 4.00 4.50 5.00 5.50  
 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64  
 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.10 cfs @ 13.95 hrs HW=2,122.09' (Free Discharge)

- 1=Outlet Culvert (Passes 0.10 cfs of 17.26 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.10 cfs @ 7.91 fps)
- 3=Exfiltration (Passes 0.10 cfs of 0.17 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,119.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P2: Townhomes 3-6 Soil Filter**

Inflow Area = 3.212 ac, 25.50% Impervious, Inflow Depth = 0.48" for 1-Year event  
 Inflow = 2.14 cfs @ 12.04 hrs, Volume= 0.130 af  
 Outflow = 0.08 cfs @ 15.92 hrs, Volume= 0.130 af, Atten= 96%, Lag= 233.0 min  
 Primary = 0.08 cfs @ 15.92 hrs, Volume= 0.130 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,739.33' Surf.Area= 3,904 sf Storage= 515 cf  
 Peak Elev= 1,741.25' @ 15.92 hrs Surf.Area= 3,904 sf Storage= 3,517 cf (3,002 cf above start)

Plug-Flow detention time= 619.2 min calculated for 0.118 af (91% of inflow)  
 Center-of-Mass det. time= 512.4 min ( 1,393.2 - 880.9 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,739.00'	28,913 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,739.00	3,904	312.1	0.0	0	0	3,904
1,740.50	3,904	312.1	40.0	2,342	2,342	4,372
1,742.00	3,904	312.1	40.0	2,342	4,685	4,840
1,744.00	5,890	349.8	100.0	9,726	14,411	6,933
1,746.00	8,703	412.7	100.0	14,502	28,913	10,826

Device	Routing	Invert	Outlet Devices
#1	Primary	1,738.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,738.00' / 1,736.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,739.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,739.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,743.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**55310.01-West Mountain-PR**

Type II 24-hr 1-Year Rainfall=2.00"

Prepared by VHB

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#5 Secondary 1,744.00' **4.0' long x 8.0' breadth Broad-Crested Rectangular Weir**  
 Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00  
 2.50 3.00 3.50 4.00 4.50 5.00 5.50  
 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64  
 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.08 cfs @ 15.92 hrs HW=1,741.25' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.08 cfs of 17.92 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.08 cfs @ 6.57 fps)
- ↑ 3=Exfiltration (Passes 0.08 cfs of 0.27 cfs potential flow)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,739.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P3: Townhomes 1-2 Soil Filter**

Inflow Area = 7.421 ac, 27.30% Impervious, Inflow Depth = 0.60" for 1-Year event  
 Inflow = 6.16 cfs @ 11.98 hrs, Volume= 0.373 af  
 Outflow = 0.19 cfs @ 16.65 hrs, Volume= 0.373 af, Atten= 97%, Lag= 280.1 min  
 Primary = 0.19 cfs @ 16.65 hrs, Volume= 0.373 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,751.33' Surf.Area= 5,240 sf Storage= 692 cf

Peak Elev= 1,754.70' @ 16.65 hrs Surf.Area= 5,944 sf Storage= 10,193 cf (9,501 cf above start)

Plug-Flow detention time= 682.4 min calculated for 0.357 af (96% of inflow)

Center-of-Mass det. time= 626.8 min ( 1,491.4 - 864.6 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,751.00'	57,886 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,751.00	5,240	336.6	0.0	0	0	5,240
1,752.50	5,240	336.6	40.0	3,144	3,144	5,745
1,754.00	5,240	336.6	40.0	3,144	6,288	6,250
1,756.00	7,373	374.3	100.0	12,552	18,840	8,498
1,758.00	9,731	412.0	100.0	17,050	35,890	10,984
1,760.00	12,316	449.7	100.0	21,996	57,886	13,709

Device	Routing	Invert	Outlet Devices
#1	Primary	1,750.00'	<b>18.0" Round Outlet Culvert</b> L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,750.00' / 1,748.00' S= 0.0400 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	1,751.33'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,751.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,757.50'	<b>24.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,758.00'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>

Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

Primary OutFlow Max=0.19 cfs @ 16.65 hrs HW=1,754.70' (Free Discharge)

- 1=Outlet Culvert (Passes 0.19 cfs of 13.35 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.19 cfs @ 8.73 fps)
- 3=Exfiltration (Passes 0.19 cfs of 0.41 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,751.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P4: Bottom Road A Soil Filter**

Inflow Area =	2.357 ac, 32.63% Impervious, Inflow Depth = 0.77" for 1-Year event
Inflow =	2.06 cfs @ 11.99 hrs, Volume= 0.150 af
Outflow =	0.13 cfs @ 13.96 hrs, Volume= 0.150 af, Atten= 94%, Lag= 117.7 min
Primary =	0.13 cfs @ 13.96 hrs, Volume= 0.150 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,761.33' Surf.Area= 802 sf Storage= 106 cf

Peak Elev= 1,765.97' @ 13.96 hrs Surf.Area= 1,843 sf Storage= 3,494 cf (3,388 cf above start)

Plug-Flow detention time= 371.2 min calculated for 0.148 af (98% of inflow)

Center-of-Mass det. time= 353.4 min ( 1,206.1 - 852.7 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,761.00'	16,287 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,761.00	802	158.2	0.0	0	0	802
1,762.50	802	158.2	40.0	481	481	1,039
1,764.00	802	158.2	40.0	481	962	1,277
1,766.00	1,864	195.9	100.0	2,592	3,555	2,396
1,768.00	3,153	233.6	100.0	4,961	8,516	3,755
1,770.00	4,668	271.3	100.0	7,772	16,287	5,351

Device	Routing	Invert	Outlet Devices
#1	Primary	1,760.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,760.00' / 1,758.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,761.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,761.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,768.70'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,768.80'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>

Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

Primary OutFlow Max=0.13 cfs @ 13.96 hrs HW=1,765.97' (Free Discharge)

- 1=Outlet Culvert (Passes 0.13 cfs of 26.62 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 10.30 fps)
- 3=Exfiltration (Passes 0.13 cfs of 0.13 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,761.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

### Summary for Pond P5: Roads A and F Soil Filter

Inflow Area = 4.982 ac, 30.33% Impervious, Inflow Depth = 0.52" for 1-Year event  
 Inflow = 3.22 cfs @ 11.97 hrs, Volume= 0.217 af  
 Outflow = 0.11 cfs @ 17.61 hrs, Volume= 0.217 af, Atten= 97%, Lag= 338.3 min  
 Primary = 0.11 cfs @ 17.61 hrs, Volume= 0.217 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,831.33' Surf.Area= 3,217 sf Storage= 425 cf  
 Peak Elev= 1,834.60' @ 17.61 hrs Surf.Area= 3,701 sf Storage= 5,935 cf (5,510 cf above start)

Plug-Flow detention time= 714.8 min calculated for 0.207 af (96% of inflow)  
 Center-of-Mass det. time= 652.9 min ( 1,527.4 - 874.4 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,831.00'	31,588 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,831.00	3,217	222.2	0.0	0	0	3,217
1,832.50	3,217	222.2	40.0	1,930	1,930	3,550
1,834.00	3,217	222.2	40.0	1,930	3,860	3,884
1,838.00	7,083	359.0	100.0	20,098	23,958	10,317
1,839.00	8,190	378.0	100.0	7,630	31,588	11,490

Device	Routing	Invert	Outlet Devices
#1	Primary	1,830.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,830.00' / 1,828.00' S= 0.0200 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,831.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,831.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,836.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,836.80'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

	2.50	3.00	3.50	4.00	4.50	5.00	5.50
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66
	2.64	2.65	2.65	2.66	2.66	2.68	2.70

Primary OutFlow Max=0.11 cfs @ 17.61 hrs HW=1,834.60' (Free Discharge)

- 1=Culvert (Passes 0.11 cfs of 22.66 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.11 cfs @ 8.62 fps)
- 3=Exfiltration (Passes 0.11 cfs of 0.26 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,831.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P6: Lot R43 Soil Filter**

Inflow Area = 1.084 ac, 37.36% Impervious, Inflow Depth = 0.80" for 1-Year event  
 Inflow = 1.24 cfs @ 12.04 hrs, Volume= 0.072 af  
 Outflow = 0.04 cfs @ 15.86 hrs, Volume= 0.072 af, Atten= 97%, Lag= 229.6 min  
 Primary = 0.04 cfs @ 15.86 hrs, Volume= 0.072 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,823.33' Surf.Area= 2,234 sf Storage= 295 cf  
 Peak Elev= 1,825.45' @ 15.86 hrs Surf.Area= 2,234 sf Storage= 2,187 cf (1,892 cf above start)

Plug-Flow detention time= 787.1 min calculated for 0.065 af (91% of inflow)  
 Center-of-Mass det. time= 662.0 min ( 1,512.8 - 850.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,823.00'	8,962 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,823.00	2,234	252.5	0.0	0	0	2,234
1,824.50	2,234	252.5	40.0	1,340	1,340	2,613
1,826.00	2,234	252.5	40.0	1,340	2,681	2,992
1,828.00	4,145	312.6	100.0	6,281	8,962	5,753

Device	Routing	Invert	Outlet Devices
#1	Primary	1,823.00'	<b>15.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,823.00' / 1,822.00' S= 0.0100 '/ Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#2	Device 1	1,823.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,823.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,827.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.04 cfs @ 15.86 hrs HW=1,825.45' (Free Discharge)

- 1=Outlet Culvert (Passes 0.04 cfs of 6.30 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.04 cfs @ 6.94 fps)
- 3=Exfiltration (Passes 0.04 cfs of 0.16 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

**Summary for Pond P7: Lot R42 Soil Filter**

Inflow Area = 1.546 ac, 30.92% Impervious, Inflow Depth = 0.65" for 1-Year event  
 Inflow = 1.24 cfs @ 12.08 hrs, Volume= 0.084 af  
 Outflow = 0.06 cfs @ 14.99 hrs, Volume= 0.084 af, Atten= 95%, Lag= 174.3 min  
 Primary = 0.06 cfs @ 14.99 hrs, Volume= 0.084 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,878.33' Surf.Area= 1,972 sf Storage= 260 cf  
 Peak Elev= 1,880.80' @ 14.99 hrs Surf.Area= 1,972 sf Storage= 2,205 cf (1,945 cf above start)

Plug-Flow detention time= 525.4 min calculated for 0.078 af (93% of inflow)  
 Center-of-Mass det. time= 444.1 min ( 1,311.1 - 867.1 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,878.00'	26,005 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,878.00	1,972	181.3	0.0	0	0	1,972
1,879.50	1,972	181.3	40.0	1,183	1,183	2,244
1,881.00	1,972	181.3	40.0	1,183	2,366	2,516
1,883.00	3,173	219.0	100.0	5,098	7,464	3,782
1,885.00	4,600	256.7	100.0	7,729	15,193	5,286
1,887.00	6,254	294.4	100.0	10,812	26,005	7,029

Device	Routing	Invert	Outlet Devices
#1	Primary	1,878.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,878.00' / 1,876.00' S= 0.0200 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,878.33'	<b>1.2" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,878.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,882.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,883.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.06 cfs @ 14.99 hrs HW=1,880.80' (Free Discharge)

- 1=Outlet Culvert (Passes 0.06 cfs of 16.00 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.06 cfs @ 7.48 fps)
- 3=Exfiltration (Passes 0.06 cfs of 0.14 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,878.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P8: Lot R40 Soil Filter**

Inflow Area = 1.823 ac, 26.66% Impervious, Inflow Depth = 0.60" for 1-Year event  
 Inflow = 1.44 cfs @ 12.06 hrs, Volume= 0.092 af  
 Outflow = 0.04 cfs @ 17.62 hrs, Volume= 0.092 af, Atten= 97%, Lag= 333.2 min  
 Primary = 0.04 cfs @ 17.62 hrs, Volume= 0.092 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,924.33' Surf.Area= 2,235 sf Storage= 295 cf  
 Peak Elev= 1,927.02' @ 17.62 hrs Surf.Area= 2,248 sf Storage= 2,730 cf (2,435 cf above start)

Plug-Flow detention time= 853.0 min calculated for 0.085 af (93% of inflow)  
 Center-of-Mass det. time= 748.6 min ( 1,618.2 - 869.6 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,924.00'	12,739 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,924.00	2,235	198.8	0.0	0	0	2,235
1,925.50	2,235	198.8	40.0	1,341	1,341	2,533
1,927.00	2,235	198.8	40.0	1,341	2,682	2,831
1,928.00	2,859	217.6	100.0	2,541	5,223	3,488
1,929.00	3,828	326.8	100.0	3,332	8,554	8,227
1,930.00	4,552	295.9	100.0	4,185	12,739	9,789

Device	Routing	Invert	Outlet Devices
#1	Primary	1,924.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,924.00' / 1,922.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,924.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,924.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,928.60'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,929.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.04 cfs @ 17.62 hrs HW=1,927.02' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.04 cfs of 16.98 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.04 cfs @ 7.84 fps)
- ↑ 3=Exfiltration (Passes 0.04 cfs of 0.16 cfs potential flow)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,924.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P9: Lot R51 Soil Filter**

Inflow Area = 1.248 ac, 21.63% Impervious, Inflow Depth = 0.56" for 1-Year event  
 Inflow = 1.16 cfs @ 11.98 hrs, Volume= 0.058 af  
 Outflow = 0.04 cfs @ 15.16 hrs, Volume= 0.058 af, Atten= 97%, Lag= 190.8 min  
 Primary = 0.04 cfs @ 15.16 hrs, Volume= 0.058 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,941.33' Surf.Area= 1,440 sf Storage= 190 cf  
 Peak Elev= 1,943.65' @ 15.16 hrs Surf.Area= 1,440 sf Storage= 1,528 cf (1,338 cf above start)

Plug-Flow detention time= 539.8 min calculated for 0.054 af (92% of inflow)  
 Center-of-Mass det. time= 453.6 min ( 1,318.4 - 864.8 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,941.00'	22,064 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,941.00	1,440	179.7	0.0	0	0	1,440
1,942.50	1,440	179.7	40.0	864	864	1,710
1,944.00	1,440	179.7	40.0	864	1,728	1,979
1,946.00	2,631	217.4	100.0	4,012	5,740	3,235
1,948.00	4,049	255.1	100.0	6,629	12,369	4,729
1,950.00	5,693	292.8	100.0	9,695	22,064	6,462

Device	Routing	Invert	Outlet Devices
#1	Primary	1,940.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,940.00' / 1,938.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,941.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,941.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,945.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,945.80'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74



Primary OutFlow Max=0.04 cfs @ 15.16 hrs HW=1,943.65' (Free Discharge)

- 1=Outlet Culvert (Passes 0.04 cfs of 19.45 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.04 cfs @ 7.27 fps)
- 3=Exfiltration (Passes 0.04 cfs of 0.10 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,941.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Link SP1:**

Inflow Area = 327.994 ac, 5.46% Impervious, Inflow Depth > 0.41" for 1-Year event  
 Inflow = 49.31 cfs @ 12.66 hrs, Volume= 11.333 af  
 Primary = 49.31 cfs @ 12.66 hrs, Volume= 11.333 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP10:**

Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP11:**

Inflow Area = 6.579 ac, 3.57% Impervious, Inflow Depth = 0.48" for 1-Year event  
 Inflow = 4.22 cfs @ 12.04 hrs, Volume= 0.266 af  
 Primary = 4.22 cfs @ 12.04 hrs, Volume= 0.266 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP12:**

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 0.48" for 1-Year event  
 Inflow = 6.86 cfs @ 12.22 hrs, Volume= 0.844 af  
 Primary = 6.86 cfs @ 12.22 hrs, Volume= 0.844 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP13:**

Inflow Area = 12.275 ac, 33.70% Impervious, Inflow Depth > 0.71" for 1-Year event  
 Inflow = 0.54 cfs @ 12.05 hrs, Volume= 0.727 af  
 Primary = 0.54 cfs @ 12.05 hrs, Volume= 0.727 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP14:**

Inflow Area = 1.238 ac, 3.31% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 0.67 cfs @ 12.10 hrs, Volume= 0.050 af  
Primary = 0.67 cfs @ 12.10 hrs, Volume= 0.050 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP15:**

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 0.55" for 1-Year event  
Inflow = 5.59 cfs @ 12.16 hrs, Volume= 1.274 af  
Primary = 5.59 cfs @ 12.16 hrs, Volume= 1.274 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP16:**

Inflow Area = 1.173 ac, 3.15% Impervious, Inflow Depth = 0.38" for 1-Year event  
Inflow = 0.45 cfs @ 12.12 hrs, Volume= 0.037 af  
Primary = 0.45 cfs @ 12.12 hrs, Volume= 0.037 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP17:**

Inflow Area = 4.548 ac, 20.07% Impervious, Inflow Depth = 0.47" for 1-Year event  
Inflow = 1.14 cfs @ 11.95 hrs, Volume= 0.180 af  
Primary = 1.14 cfs @ 11.95 hrs, Volume= 0.180 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP18:**

Inflow Area = 0.186 ac, 11.29% Impervious, Inflow Depth = 0.52" for 1-Year event  
Inflow = 0.18 cfs @ 11.96 hrs, Volume= 0.008 af  
Primary = 0.18 cfs @ 11.96 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP19:**

Inflow Area = 0.648 ac, 3.70% Impervious, Inflow Depth = 0.41" for 1-Year event  
Inflow = 0.34 cfs @ 12.05 hrs, Volume= 0.022 af  
Primary = 0.34 cfs @ 12.05 hrs, Volume= 0.022 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP2:**

Inflow Area = 1.275 ac, 5.49% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 0.55 cfs @ 12.18 hrs, Volume= 0.051 af  
Primary = 0.55 cfs @ 12.18 hrs, Volume= 0.051 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP20:**

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 0.39" for 1-Year event  
Inflow = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af  
Primary = 7.95 cfs @ 12.46 hrs, Volume= 1.629 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP21:**

Inflow Area = 7.874 ac, 25.98% Impervious, Inflow Depth = 0.60" for 1-Year event  
Inflow = 0.43 cfs @ 12.07 hrs, Volume= 0.392 af  
Primary = 0.43 cfs @ 12.07 hrs, Volume= 0.392 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP22:**

Inflow Area = 0.328 ac, 7.62% Impervious, Inflow Depth = 0.52" for 1-Year event  
Inflow = 0.23 cfs @ 12.05 hrs, Volume= 0.014 af  
Primary = 0.23 cfs @ 12.05 hrs, Volume= 0.014 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP23:**

Inflow Area = 2.727 ac, 29.63% Impervious, Inflow Depth = 0.74" for 1-Year event  
Inflow = 0.40 cfs @ 12.01 hrs, Volume= 0.168 af  
Primary = 0.40 cfs @ 12.01 hrs, Volume= 0.168 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP24:**

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af  
Primary = 6.61 cfs @ 12.15 hrs, Volume= 0.556 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP3:**

Inflow Area = 4.241 ac, 25.14% Impervious, Inflow Depth = 0.72" for 1-Year event  
Inflow = 0.23 cfs @ 12.08 hrs, Volume= 0.253 af  
Primary = 0.23 cfs @ 12.08 hrs, Volume= 0.253 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP4:**

Inflow Area = 62.647 ac, 2.01% Impervious, Inflow Depth = 0.42" for 1-Year event  
Inflow = 11.93 cfs @ 12.14 hrs, Volume= 2.173 af  
Primary = 11.93 cfs @ 12.14 hrs, Volume= 2.173 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP5:**

Inflow Area = 2.355 ac, 0.51% Impervious, Inflow Depth = 0.45" for 1-Year event  
Inflow = 0.82 cfs @ 12.24 hrs, Volume= 0.088 af  
Primary = 0.82 cfs @ 12.24 hrs, Volume= 0.088 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP6:**

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 0.44" for 1-Year event  
Inflow = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af  
Primary = 18.35 cfs @ 12.20 hrs, Volume= 2.781 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP7:**

Inflow Area = 0.872 ac, 6.42% Impervious, Inflow Depth = 0.48" for 1-Year event  
Inflow = 0.53 cfs @ 12.07 hrs, Volume= 0.035 af  
Primary = 0.53 cfs @ 12.07 hrs, Volume= 0.035 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP8:**

Inflow Area = 0.344 ac, 19.19% Impervious, Inflow Depth = 0.60" for 1-Year event  
Inflow = 0.29 cfs @ 12.04 hrs, Volume= 0.017 af  
Primary = 0.29 cfs @ 12.04 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP9:**

Inflow Area = 0.148 ac, 24.32% Impervious, Inflow Depth = 0.65" for 1-Year event  
Inflow = 0.14 cfs @ 12.04 hrs, Volume= 0.008 af  
Primary = 0.14 cfs @ 12.04 hrs, Volume= 0.008 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Subcatchment 1S: WS 3**

Runoff = 0.21 cfs @ 12.07 hrs, Volume= 0.013 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.032	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.103	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.172	82	Weighted Average
0.135		78.49% Pervious Area
0.037		21.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	74	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.4	115	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
14.2	189	Total			

**Summary for Subcatchment 2S: WS 1**

Runoff = 1.27 cfs @ 12.57 hrs, Volume= 0.202 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

Prepared by VHB

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.019	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.414	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.134	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.567	77	Weighted Average
3.548		99.47% Pervious Area
0.019		0.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	37	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	102	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
36.2	150	0.0700	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	133	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	138	0.0600	10.43	458.93	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050
0.8	505	0.0600	10.43	458.93	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050
51.7	1,065	Total			

**Summary for Subcatchment 3S: WS 1-1**

Runoff = 1.37 cfs @ 12.11 hrs, Volume= 0.103 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.863	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.472	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.479	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.814	77	Weighted Average
1.814		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.9	105	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	60	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.3	328	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
17.3	593	Total			



**Summary for Subcatchment 4S: WS 1-2**

Runoff = 2.25 cfs @ 12.05 hrs, Volume= 0.138 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.685	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.351	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.002	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.130	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.114	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.282	78	Weighted Average
2.280		99.91% Pervious Area
0.002		0.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	194	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	53	0.4900	1.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	327	0.1000	13.40	563.00	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
12.0	674	Total			

**Summary for Subcatchment 5S: WS 1-3**

Runoff = 5.68 cfs @ 12.15 hrs, Volume= 0.472 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.319	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.938	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
4.092	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.349	77	Weighted Average
8.349		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.1700	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
3.4	596	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
10.1	585	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
20.5	1,281	Total			

**Summary for Subcatchment 6S: WS 1-4**

Runoff = 11.32 cfs @ 12.30 hrs, Volume= 1.286 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
2.284	70	Existing Woods, Good, HSG C
8.316	77	Existing Woods, Good, HSG D
0.588	70	Proposed Woods, Good, HSG C
1.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.088	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.085	71	Proposed meadow, ski trail, HSG C
6.341	78	Proposed meadow, ski trail, HSG D
0.360	71	Proposed meadow, ski lift, HSG C
2.079	78	Proposed meadow, ski lift, HSG D
24.316	76	Weighted Average
24.228		99.64% Pervious Area
0.088		0.36% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	51	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.8	294	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	760	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.0	482	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.5	447	0.1800	2.97		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.1	637	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.1	138	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
31.6	2,809	Total			

**Summary for Subcatchment 7S: WS 1-5**

Runoff = 14.82 cfs @ 12.59 hrs, Volume= 2.590 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

**55310.01-West Mountain-PR***Type II 24-hr 2-Year Rainfall=2.40"*

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.022	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.752	71	Existing meadow, non-grazed, HSG C
6.694	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
23.036	70	Existing Woods, Good, HSG C
11.631	77	Existing Woods, Good, HSG D
2.098	70	Proposed Woods, Good, HSG C
0.523	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.186	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
7.773	71	Proposed meadow, ski trail, HSG C
4.678	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
<hr/>		
60.422	73	Weighted Average
60.371		99.92% Pervious Area
0.051		0.08% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	396	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	367	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	394	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	361	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.3	252	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.6	459	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	334	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
51.0	6,226	Total			

**Summary for Subcatchment 8S: WS 1-6**

Runoff = 1.20 cfs @ 11.93 hrs, Volume= 0.051 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.181	98	Proposed impervious to be treated, HSG C
0.050	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.262	71	Proposed developed meadow to be treated, HSG C
0.111	78	Proposed developed meadow to be treated, HSG D
0.056	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.660	82	Weighted Average
0.429		65.00% Pervious Area
0.231		35.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.5	80	0.0300	2.60		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.2	107	0.1200	10.21	8.02	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
2.1	287	Total			

**Summary for Subcatchment 9S: WS 1-7**

Runoff = 11.58 cfs @ 12.33 hrs, Volume= 1.435 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
10.166	70	Existing Woods, Good, HSG C
8.946	77	Existing Woods, Good, HSG D
1.118	70	Proposed Woods, Good, HSG C
1.643	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.068	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.838	71	Proposed meadow, ski trail, HSG C
5.370	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
31.149	74	Weighted Average
31.081		99.78% Pervious Area
0.068		0.22% Impervious Area



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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.2700	0.29		<b>Sheet Flow,</b> n= 0.240 P2= 2.40"
1.0	229	0.2700	3.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.5	216	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.1	483	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	251	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	311	0.2300	3.36		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.1	863	0.2500	3.50		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.2	956	0.2100	7.19	21.56	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
7.1	413	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	509	0.1500	10.18	91.58	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00' n= 0.050
33.2	4,331	Total			

**Summary for Subcatchment 10S: WS 1A**

Runoff = 1.68 cfs @ 12.25 hrs, Volume= 0.174 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.076	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.076	77	Weighted Average
3.076		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	31	0.0600	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.2	191	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	59	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	193	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	161	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	107	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	79	0.0500	9.26	314.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050
28.5	821	Total			

**Summary for Subcatchment 11S: WS 1B**

Runoff = 5.93 cfs @ 12.10 hrs, Volume= 0.423 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.425	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.072	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
5.568	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.084	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.429	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.578	79	Weighted Average
6.069		92.26% Pervious Area
0.509		7.74% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.7	336	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch
0.7	339	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	336	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	278	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	283	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.3	118	0.0800	7.46	22.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.4	164	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.1	83	0.1400	9.87	29.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.3	505	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
16.6	2,480	Total			

**Summary for Subcatchment 12S: WS 1B1 - Lot G**

Runoff = 4.85 cfs @ 11.93 hrs, Volume= 0.206 af, Depth= 1.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.145	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.007	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.765	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.438	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.030	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.385	84	Weighted Average
1.620		67.92% Pervious Area
0.765		32.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.5	81	0.0200	2.87		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.3	304	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.2	485	Total			

**Summary for Subcatchment 13S: WS 1C**

Runoff = 1.84 cfs @ 12.18 hrs, Volume= 0.164 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.260	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.053	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.261	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.908	77	Weighted Average
2.908		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	100	0.0600	0.16		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.2	122	0.0600	1.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	46	0.4800	1.73		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	221	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	154	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	283	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
2.0	88	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
22.9	1,014	Total			

**Summary for Subcatchment 14S: WS 1C1**

Runoff = 16.06 cfs @ 12.12 hrs, Volume= 1.199 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
3.283	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
3.459	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
6.788	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.702	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.321	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.998	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
15.551	82	Weighted Average
12.268		78.89% Pervious Area
3.283		21.11% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	172	0.1500	6.24		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
1.7	164	0.0500	1.57		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	77	0.3100	3.90		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	157	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.9	350	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.5	219	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.5	251	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	316	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.1	73	0.1900	11.50	34.51	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	300	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	179	0.0200	3.73	11.20	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.0	342	0.0500	5.90	17.70	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
18.9	2,648	Total			

**Summary for Subcatchment 15S: WS 1C2- Ex lot E**

Runoff = 13.62 cfs @ 11.96 hrs, Volume= 0.639 af, Depth= 1.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"



**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
3.136	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.703	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.869	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.211	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.919	88	Weighted Average
2.783		47.02% Pervious Area
3.136		52.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0500	1.72		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.4	90	0.0500	3.60		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
1.2	114	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	356	0.0300	4.57	13.71	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.2	195	0.0300	2.79		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
0.1	31	0.3900	10.05		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
5.2	886	Total			

**Summary for Subcatchment 16S: WS 1D- Ex Timbers**

Runoff = 19.55 cfs @ 12.60 hrs, Volume= 3.239 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
4.120	98	Untreated existing impervious, HSG C
1.443	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
13.418	71	Existing meadow, non-grazed, HSG C
9.815	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
16.186	70	Existing Woods, Good, HSG C
12.572	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.473	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.044	98	Untreated proposed impervious, HSG D
0.454	71	Proposed developed meadow, non-grazed, HSG C
1.984	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.717	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
61.234	76	Weighted Average
55.619		90.83% Pervious Area
5.615		9.17% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	60	0.2300	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	130	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	182	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	394	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	298	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	183	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	230	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	254	0.1000	8.17	114.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.3	159	0.1300	9.31	130.40	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.3	160	0.1100	8.57	119.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
2.2	165	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	245	0.2600	1.27		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	192	0.1000	8.17	114.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.1	231	0.1300	29.21	408.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.022
4.5	280	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	134	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	334	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	168	0.0800	16.81	235.27	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
1.1	398	0.0100	5.94	83.18	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
0.5	334	0.0400	11.88	166.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
0.2	176	0.1900	15.54	217.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'

n= 0.050 Mountain streams w/large boulders

53.2 4,707 Total

**Summary for Subcatchment 17S: WS 1D1**

Runoff = 11.48 cfs @ 11.94 hrs, Volume= 0.490 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.085	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.048	71	Existing meadow, non-grazed, HSG C
0.115	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.722	70	Existing Woods, Good, HSG C
0.593	77	Existing Woods, Good, HSG D
0.001	70	Proposed Woods, Good, HSG C
0.067	77	Proposed Woods, Good, HSG D
1.711	98	Proposed impervious to be treated, HSG C
0.017	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
3.438	71	Proposed developed meadow to be treated, HSG C
0.822	78	Proposed developed meadow to be treated, HSG D
0.003	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
7.622	79	Weighted Average
5.809		76.21% Pervious Area
1.813		23.79% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1100	2.36		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.0	19	0.1100	6.73		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.3	69	0.0600	3.67		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.5	427	0.1200	13.38	23.65	<b>Pipe Channel,</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.020 Corrugated PE, corrugated interior
0.2	316	0.1900	31.50	125.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.016 Asphalt, rough
0.1	118	0.2400	22.93	72.04	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
0.6	372	0.1500	10.92	43.69	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.041 Riprap, 2-inch
2.4	1,421	Total			

**Summary for Subcatchment 18S: WS 1D2**

Runoff = 2.61 cfs @ 12.08 hrs, Volume= 0.190 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.962	70	Existing Woods, Good, HSG C
0.049	77	Existing Woods, Good, HSG D
0.375	70	Proposed Woods, Good, HSG C
0.139	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.277	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
2.431	71	Proposed meadow, ski trail, HSG C
0.552	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.785	72	Weighted Average
4.785		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
6.2	1,123	0.1890	3.04		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.4	1,223	Total			

**Summary for Subcatchment 19S: WS 1D3**

Runoff = 2.37 cfs @ 12.00 hrs, Volume= 0.125 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.374	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.349	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.899	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.003	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.092	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.717	74	Weighted Average
2.340		86.12% Pervious Area
0.377		13.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	93	0.0500	1.69		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
4.5	259	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	220	0.1100	5.20	15.60	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.8	70	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	89	0.1100	5.20	15.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
7.2	731	Total			

**Summary for Subcatchment 20S: WS 1D4**

Runoff = 0.86 cfs @ 12.06 hrs, Volume= 0.055 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.063	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.295	71	Existing meadow, non-grazed, HSG C
0.074	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.307	70	Existing Woods, Good, HSG C
0.158	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.144	71	Proposed developed meadow, non-grazed, HSG C
0.041	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.119	75	Weighted Average
1.019		91.06% Pervious Area
0.100		8.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	59	0.2200	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	157	0.2200	3.28		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	179	0.1000	4.96	14.88	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.2	395	Total			

**Summary for Subcatchment 21S: Untreated from Timbers**

Runoff = 7.28 cfs @ 11.96 hrs, Volume= 0.329 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"



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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.234	98	Untreated proposed impervious, HSG C
0.894	98	Untreated proposed impervious, HSG D
1.026	71	Proposed developed meadow, non-grazed, HSG C
2.185	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.186	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.525	81	Weighted Average
3.397		75.07% Pervious Area
1.128		24.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	92	0.1000	2.23		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.3	105	0.1700	6.18		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
3.4	1,120	0.1100	5.56	22.23	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
4.4	1,317	Total			

**Summary for Subcatchment 22S: WS 1D6**

Runoff = 3.56 cfs @ 11.96 hrs, Volume= 0.168 af, Depth= 1.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.103	98	Proposed impervious to be treated, HSG C
0.537	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.127	71	Proposed developed meadow to be treated, HSG C
1.062	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.829	85	Weighted Average
1.189		65.01% Pervious Area
0.640		34.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	66	0.2700	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	89	0.0200	2.12		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.5	310	0.0600	11.11	8.73	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
5.4	465	Total			

**Summary for Subcatchment 23S: WS 1D7**

Runoff = 3.68 cfs @ 12.46 hrs, Volume= 0.543 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
2.084	71	Existing meadow, non-grazed, HSG C
3.608	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.198	70	Existing Woods, Good, HSG C
1.644	77	Existing Woods, Good, HSG D
0.169	70	Proposed Woods, Good, HSG C
0.253	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.036	98	Untreated proposed impervious, HSG D
0.091	71	Proposed developed meadow, non-grazed, HSG C
0.164	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.288	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
<hr/>		
11.787	74	Weighted Average
11.743		99.63% Pervious Area
0.044		0.37% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.5	89	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.4	228	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	185	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	217	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	273	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	293	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	264	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	251	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	300	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	194	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	138	0.2200	10.15	30.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050
42.2	2,532	Total			

**Summary for Subcatchment 24S: WS 2**

Runoff = 0.89 cfs @ 12.17 hrs, Volume= 0.077 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.070	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.145	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.048	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.012	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.275	78	Weighted Average
1.205		94.51% Pervious Area
0.070		5.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	35	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.7	242	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	176	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	129	0.0500	1.10	3.30	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.220
22.5	582	Total			

**Summary for Subcatchment 25S: WS 2A**

Runoff = 4.94 cfs @ 11.93 hrs, Volume= 0.213 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.010	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.002	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.910	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.162	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.084	87	Weighted Average
1.164		55.85% Pervious Area
0.920		44.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0300	1.40		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.6	457	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.8	557	Total			

**Summary for Subcatchment 27S: WS 3A**

Runoff = 1.25 cfs @ 12.26 hrs, Volume= 0.128 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.824	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.161	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.048	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.040	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.411	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.480	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.985	79	Weighted Average
1.876		94.51% Pervious Area
0.109		5.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.1	136	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.6	241	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	18	0.4400	1.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	159	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.7	160	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	161	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
29.5	928	Total			

**Summary for Subcatchment 28S: WS 4**

Runoff = 3.81 cfs @ 12.06 hrs, Volume= 0.247 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.009	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.993	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.257	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.104	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.363	77	Weighted Average
4.354		99.79% Pervious Area
0.009		0.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.1	269	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	100	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	436	0.1100	24.47	2,741.07	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=8.00' Z= 1.0 '/' Top.W=22.00' n= 0.050 Mountain streams w/large boulders
13.2	905	Total			



**Summary for Subcatchment 29S: WS 4A**

Runoff = 17.38 cfs @ 12.05 hrs, Volume= 1.094 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.622	70	Existing Woods, Good, HSG C
10.916	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
1.944	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.218	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
3.977	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
20.677	76	Weighted Average
20.677		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.1900	0.25		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.0	180	0.1900	3.05		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	2,562	0.1550	9.80	58.80	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
12.1	2,842	Total			

**Summary for Subcatchment 30S: WS 4B**

Runoff = 5.93 cfs @ 12.19 hrs, Volume= 0.537 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.657	70	Existing Woods, Good, HSG C
4.078	77	Existing Woods, Good, HSG D
0.184	70	Proposed Woods, Good, HSG C
1.364	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.216	98	Untreated proposed impervious, HSG C
0.393	98	Untreated proposed impervious, HSG D
0.593	71	Proposed developed meadow, non-grazed, HSG C
1.416	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.006	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.907	78	Weighted Average
8.298		93.16% Pervious Area
0.609		6.84% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.6	105	0.1900	3.05		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	80	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	255	0.1400	11.64	69.85	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.040 Mountain streams
0.4	218	0.1100	10.32	61.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.040 Mountain streams
4.4	217	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	189	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	142	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
24.0	1,260	Total			

**Summary for Subcatchment 31S: WS 4C**

Runoff = 12.12 cfs @ 12.26 hrs, Volume= 1.307 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.802	71	Existing meadow, non-grazed, HSG C
2.723	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.606	70	Existing Woods, Good, HSG C
5.804	77	Existing Woods, Good, HSG D
1.389	70	Proposed Woods, Good, HSG C
2.634	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.213	98	Untreated proposed impervious, HSG C
0.215	98	Untreated proposed impervious, HSG D
0.336	71	Proposed developed meadow, non-grazed, HSG C
0.248	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.924	71	Proposed meadow, ski trail, HSG C
4.557	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
26.451	75	Weighted Average
26.023		98.38% Pervious Area
0.428		1.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	100	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	37	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.0	270	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	431	0.3200	3.96		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.7	157	0.3800	1.54		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	702	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.5	262	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	740	0.2200	7.36	22.07	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
3.5	248	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	347	0.1600	9.96	59.74	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'

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Type II 24-hr 2-Year Rainfall=2.40"

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n= 0.050 Mountain streams w/large boulders

28.4 3,294 Total

**Summary for Subcatchment 32S: WS 5**

Runoff = 1.34 cfs @ 12.23 hrs, Volume= 0.133 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.012	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.790	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.133	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.420	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.355	77	Weighted Average
2.343		99.49% Pervious Area
0.012		0.51% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.0	89	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	13.49	40.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.030 Stream, clean & straight
26.8	887	Total			

**Summary for Subcatchment 33S: WS 6**

Runoff = 5.08 cfs @ 12.09 hrs, Volume= 0.354 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.041	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
4.020	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.108	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.595	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.493	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.257	77	Weighted Average
6.216		99.34% Pervious Area
0.041		0.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	100	0.1100	0.20		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	93	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.3	201	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	261	0.1500	8.96	35.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050
0.5	182	0.0700	6.12	24.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050
0.8	241	0.0500	5.17	20.68	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
2.8	119	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	71	0.0600	5.30	15.90	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050
15.1	1,268	Total			

**Summary for Subcatchment 34S: WS 6A**

Runoff = 8.33 cfs @ 12.13 hrs, Volume= 0.670 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.611	70	Existing Woods, Good, HSG C
4.153	77	Existing Woods, Good, HSG D
0.560	70	Proposed Woods, Good, HSG C
0.902	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.406	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.543	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
1.571	71	Proposed meadow, ski trail, HSG C
2.925	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
12.671	76	Weighted Average
12.265		96.80% Pervious Area
0.406		3.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.0	440	0.3400	1.46		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	142	0.0800	7.46	22.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch
0.6	62	0.5500	1.85		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.1	1,603	0.1370	12.71	152.58	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=2.00' Z= 1.0 '/' Top.W=8.00' n= 0.050 Mountain streams w/large boulders
18.8	2,300	Total			



**Summary for Subcatchment 35S: WS 6B**

Runoff = 1.77 cfs @ 12.12 hrs, Volume= 0.132 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.967	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.116	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.298	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.434	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.815	81	Weighted Average
1.517		83.58% Pervious Area
0.298		16.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	62	0.2500	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.2	93	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	194	0.5500	1.85		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	97	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	234	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
18.6	680	Total			

**Summary for Subcatchment 36S: WS 6C**

Runoff = 1.54 cfs @ 12.21 hrs, Volume= 0.145 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.784	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.244	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.214	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.396	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.611	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.249	79	Weighted Average
2.035		90.48% Pervious Area
0.214		9.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		<b>Sheet Flow,</b> n= 0.240 P2= 2.40"
0.6	29	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	82	0.1500	7.25	14.50	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' n= 0.050
7.1	281	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.0	150	0.0100	0.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
25.9	642	Total			

**Summary for Subcatchment 37S: WS 7**

Runoff = 0.83 cfs @ 12.06 hrs, Volume= 0.053 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.056	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.774	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.042	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.872	78	Weighted Average
0.816		93.58% Pervious Area
0.056		6.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	43	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	92	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	253	0.0500	16.63	166.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
0.1	130	0.0800	21.03	210.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
13.0	518	Total			

**Summary for Subcatchment 38S: WS 7A**

Runoff = 6.60 cfs @ 11.93 hrs, Volume= 0.283 af, Depth= 1.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.099	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.331	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
1.071	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.420	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.921	86	Weighted Average
1.751		59.95% Pervious Area
1.170		40.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.2	33	0.0200	2.87		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	37	0.4600	4.75		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	86	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.2	190	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.4	446	Total			

**Summary for Subcatchment 39S: WS 7B**

Runoff = 1.10 cfs @ 11.98 hrs, Volume= 0.053 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.040	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.084	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.066	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.696	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.886	78	Weighted Average
0.886		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	51	0.1700	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	57	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	146	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.0	13	0.4600	4.75		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	67	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.9	334	Total			

**Summary for Subcatchment 40S: WS 7C**

Runoff = 4.28 cfs @ 12.15 hrs, Volume= 0.358 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.305	70	Existing Woods, Good, HSG C
3.064	77	Existing Woods, Good, HSG D
0.266	70	Proposed Woods, Good, HSG C
0.578	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.272	98	Untreated proposed impervious, HSG C
0.147	98	Untreated proposed impervious, HSG D
0.492	71	Proposed developed meadow, non-grazed, HSG C
0.644	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.006	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.774	76	Weighted Average
6.355		93.81% Pervious Area
0.419		6.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	65	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
7.4	508	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	107	0.0400	4.58	54.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.069 Riprap, 6-inch
0.5	407	0.1600	12.66	142.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.50' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
1.0	57	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
20.1	1,144	Total			

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Type II 24-hr 2-Year Rainfall=2.40"

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**Summary for Subcatchment 41S: WS 7D**

Runoff = 1.73 cfs @ 12.03 hrs, Volume= 0.099 af, Depth= 1.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.030	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.405	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.649	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.084	85	Weighted Average
0.679		62.64% Pervious Area
0.405		37.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	57	0.2100	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	99	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.3	156	Total			

**Summary for Subcatchment 42S: WS 7E**

Runoff = 2.51 cfs @ 12.09 hrs, Volume= 0.173 af, Depth= 0.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.342	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.310	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.879	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.531	80	Weighted Average
2.221		87.75% Pervious Area
0.310		12.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	63	0.2600	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.9	70	0.2600	1.27		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	85	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	179	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	119	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.8	516	Total			

**Summary for Subcatchment 43S: WS 7F**

Runoff = 5.51 cfs @ 12.06 hrs, Volume= 0.341 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"



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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.397	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.003	98	Untreated proposed impervious, HSG C
0.710	98	Untreated proposed impervious, HSG D
0.001	71	Proposed developed meadow, non-grazed, HSG C
1.579	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.690	81	Weighted Average
3.977		84.80% Pervious Area
0.713		15.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	73	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.7	147	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	286	0.2400	12.55	100.38	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' n= 0.050
0.2	170	0.2900	14.15	127.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' Z= 1.0 ' / Top.W=10.00' n= 0.050
13.0	676	Total			

**Summary for Subcatchment 44S: WS 7G**

Runoff = 2.87 cfs @ 12.21 hrs, Volume= 0.264 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.232	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.201	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.550	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
1.269	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.379	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.631	81	Weighted Average
3.081		84.85% Pervious Area
0.550		15.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.3	75	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	28	0.5000	1.77		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	194	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	181	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.2	276	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	53	0.0400	4.33	12.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050 Mountain streams w/large boulders
26.1	907	Total			

**Summary for Subcatchment 45S: WS 7H**

Runoff = 2.29 cfs @ 12.00 hrs, Volume= 0.122 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.619	70	Existing Woods, Good, HSG C
0.094	77	Existing Woods, Good, HSG D
0.374	70	Proposed Woods, Good, HSG C
0.101	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.323	98	Untreated proposed impervious, HSG C
0.013	98	Untreated proposed impervious, HSG D
0.897	71	Proposed developed meadow, non-grazed, HSG C
0.045	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.002	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.468	75	Weighted Average
2.132		86.39% Pervious Area
0.336		13.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0600	1.85		<b>Sheet Flow,</b> n= 0.011 P2= 2.40"
0.5	18	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	31	0.4800	1.73		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	196	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	158	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	56	0.0900	6.49	19.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050

7.7 559 Total

**Summary for Subcatchment 46S: WS 8**

Runoff = 0.43 cfs @ 12.04 hrs, Volume= 0.025 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.066	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.277	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.001	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.344	81	Weighted Average
0.278		80.81% Pervious Area
0.066		19.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	40	0.1000	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	11	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	276	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022

11.5 327 Total

**Summary for Subcatchment 47S: WS 9**

Runoff = 0.20 cfs @ 12.04 hrs, Volume= 0.011 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.036	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.101	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.011	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.148	82	Weighted Average
0.112		75.68% Pervious Area
0.036		24.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	173	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
11.1	211	Total			

**Summary for Subcatchment 48S: WS 10**

Runoff = 1.44 cfs @ 12.00 hrs, Volume= 0.074 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.332	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.208	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.513	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.228	78	Weighted Average
1.228		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	38	0.0900	0.15		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	84	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.1	79	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	106	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.6	307	Total			

**Summary for Subcatchment 49S: WS 10A**

Runoff = 2.98 cfs @ 12.04 hrs, Volume= 0.176 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.003	70	Proposed Woods, Good, HSG C
0.037	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.184	98	Untreated proposed impervious, HSG D
0.194	71	Proposed developed meadow, non-grazed, HSG C
1.430	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.172	71	Proposed meadow, ski trail, HSG C
0.891	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.911	78	Weighted Average
2.727		93.68% Pervious Area
0.184		6.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	100	0.2200	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.9	122	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	154	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.8	204	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.0	580	Total			

**Summary for Subcatchment 50S: WS 10B**

Runoff = 3.93 cfs @ 12.11 hrs, Volume= 0.297 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.876	70	Existing Woods, Good, HSG C
0.149	77	Existing Woods, Good, HSG D
1.162	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.768	98	Untreated proposed impervious, HSG C
0.087	98	Untreated proposed impervious, HSG D
1.449	71	Proposed developed meadow, non-grazed, HSG C
0.473	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
1.043	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.007	75	Weighted Average
5.152		85.77% Pervious Area
0.855		14.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.5	355	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	533	0.1200	7.50	22.49	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050 Mountain streams w/large boulders
16.5	944	Total			



**Summary for Subcatchment 51S: WS 10C**

Runoff = 1.80 cfs @ 12.08 hrs, Volume= 0.119 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.003	70	Existing Woods, Good, HSG C
0.288	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.196	98	Proposed impervious to be treated, HSG C
0.282	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.364	71	Proposed developed meadow to be treated, HSG C
0.413	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.546	82	Weighted Average
1.068		69.08% Pervious Area
0.478		30.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	66	0.2800	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	146	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	162	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.0	374	Total			

**Summary for Subcatchment 52S: WS 11**

Runoff = 2.38 cfs @ 12.05 hrs, Volume= 0.147 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.051	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.928	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.259	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.566	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.636	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.440	78	Weighted Average
2.389		97.91% Pervious Area
0.051		2.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	100	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.0	130	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	29	0.4100	1.60		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	105	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	216	0.1000	4.96	14.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.3	580	Total			

**Summary for Subcatchment 53S: WS 11A**

Runoff = 7.43 cfs @ 11.93 hrs, Volume= 0.330 af, Depth= 1.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
1.700	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.906	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.606	91	Weighted Average
0.906		34.77% Pervious Area
1.700		65.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1000	2.27		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.2	21	0.1000	1.66		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	70	0.3700	9.12		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
1.9	249	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.9	440	Total			

**Summary for Subcatchment 54S: WS 11B**

Runoff = 3.98 cfs @ 11.98 hrs, Volume= 0.192 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.772	98	Proposed impervious to be treated, HSG C
0.167	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.233	71	Proposed developed meadow to be treated, HSG C
0.316	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.488	82	Weighted Average
1.549		62.26% Pervious Area
0.939		37.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	100	0.4400	0.35		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	36	0.4400	4.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.3	246	0.0200	3.24	38.86	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.069 Riprap, 6-inch
6.2	382	Total			

**Summary for Subcatchment 55S: WS 12**

Runoff = 2.97 cfs @ 12.05 hrs, Volume= 0.184 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.035	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.747	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.280	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.243	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.747	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.052	78	Weighted Average
3.017		98.85% Pervious Area
0.035		1.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.5	174	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	17	0.3500	4.14		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	204	0.1700	9.95	49.77	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.050
1.0	245	0.0700	4.15	12.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
12.4	740	Total			

**Summary for Subcatchment 56S: WS 12A**

Runoff = 1.96 cfs @ 11.93 hrs, Volume= 0.084 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.777	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.012	98	Untreated proposed impervious, HSG C
0.025	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
0.576	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.392	78	Weighted Average
1.355		97.34% Pervious Area
0.037		2.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0600	1.48		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.4	87	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	254	0.1800	12.62	104.09	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.50' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	374	Total			

**Summary for Subcatchment 57S: WS 12B**

Runoff = 1.06 cfs @ 12.08 hrs, Volume= 0.079 af, Depth= 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.082	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.046	98	Untreated proposed impervious, HSG C
0.004	98	Untreated proposed impervious, HSG D
0.995	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.846	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.973	72	Weighted Average
1.923		97.47% Pervious Area
0.050		2.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	304	0.2000	3.13		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.3	307	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	90	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
13.8	801	Total			

**Summary for Subcatchment 58S: WS 12C**

Runoff = 2.64 cfs @ 12.09 hrs, Volume= 0.185 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.595	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.366	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.817	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.292	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.070	78	Weighted Average
2.253		73.39% Pervious Area
0.817		26.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.1	185	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.7	595	Total			



**Summary for Subcatchment 59S: WS 12D**

Runoff = 2.14 cfs @ 12.06 hrs, Volume= 0.132 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.208	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.233	98	Proposed impervious to be treated, HSG C
0.253	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.613	71	Proposed developed meadow to be treated, HSG C
0.516	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.823	81	Weighted Average
1.337		73.34% Pervious Area
0.486		26.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	49	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	83	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	184	0.2700	3.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.1	316	Total			

**Summary for Subcatchment 60S: WS 12E**

Runoff = 1.33 cfs @ 12.06 hrs, Volume= 0.084 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.061	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.300	98	Untreated proposed impervious, HSG D
0.053	71	Proposed developed meadow, non-grazed, HSG C
0.617	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.031	83	Weighted Average
0.731		70.90% Pervious Area
0.300		29.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	61	0.2400	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.1	81	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	101	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	165	0.2400	3.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.9	408	Total			

**Summary for Subcatchment 61S: WS 12F**

Runoff = 3.06 cfs @ 12.05 hrs, Volume= 0.184 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.236	77	Existing Woods, Good, HSG D
0.064	70	Proposed Woods, Good, HSG C
0.184	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.322	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.770	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.216	71	Proposed meadow, ski trail, HSG C
0.078	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.870	79	Weighted Average
2.548		88.78% Pervious Area
0.322		11.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.7	185	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.9	645	Total			

**Summary for Subcatchment 62S: WS 12G**

Runoff = 3.73 cfs @ 12.17 hrs, Volume= 0.327 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.090	70	Existing Woods, Good, HSG C
1.430	77	Existing Woods, Good, HSG D
0.665	70	Proposed Woods, Good, HSG C
0.340	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.505	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
1.147	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.953	71	Proposed meadow, ski trail, HSG C
0.650	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.782	77	Weighted Average
5.277		91.27% Pervious Area
0.505		8.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	142	0.1200	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.9	277	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	569	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	222	0.0800	4.74	18.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
22.3	1,210	Total			

**Summary for Subcatchment 63S: WS 13**

Runoff = 0.45 cfs @ 12.04 hrs, Volume= 0.026 af, Depth= 0.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.074	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.118	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.146	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.338	82	Weighted Average
0.264		78.11% Pervious Area
0.074		21.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	36	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	254	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
11.5	290	Total			

**Summary for Subcatchment 64S: WS 13A**

Runoff = 2.50 cfs @ 12.09 hrs, Volume= 0.172 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.353	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.301	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.695	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.500	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.849	78	Weighted Average
2.849		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.4	211	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	301	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.1	612	Total			

**Summary for Subcatchment 65S: WS 13B**

Runoff = 2.95 cfs @ 11.91 hrs, Volume= 0.125 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.086	70	Existing Woods, Good, HSG C
0.116	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.379	98	Proposed impervious to be treated, HSG C
0.145	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.383	71	Proposed developed meadow to be treated, HSG C
0.416	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.525	83	Weighted Average
1.001		65.64% Pervious Area
0.524		34.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	100	0.0700	1.97		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	25	0.0700	5.37		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	88	0.1600	28.80	90.49	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
0.3	118	0.2000	7.01	21.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
1.3	331	Total			

**Summary for Subcatchment 66S: WS 13C**

Runoff = 3.37 cfs @ 12.01 hrs, Volume= 0.179 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.900	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.569	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.469	81	Weighted Average
1.569		63.55% Pervious Area
0.900		36.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.1300	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	42	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	170	0.1800	6.65	19.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.4	97	0.3100	3.90		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	409	Total			



**Summary for Subcatchment 67S: WS 14**

Runoff = 1.06 cfs @ 12.10 hrs, Volume= 0.075 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.041	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.657	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.170	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.192	78	Proposed developed meadow to be treated, HSG D
0.080	71	Proposed meadow, ski trail, HSG C
0.096	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.238	78	Weighted Average
1.197		96.69% Pervious Area
0.041		3.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	81	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	28	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	44	0.5000	1.77		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	192	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	209	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	70	0.0400	4.33	12.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050

16.0 624 Total

**Summary for Subcatchment 68S: WS 15**

Runoff = 1.03 cfs @ 12.07 hrs, Volume= 0.069 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.017	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.015	70	Existing Woods, Good, HSG C
0.776	77	Existing Woods, Good, HSG D
0.110	70	Proposed Woods, Good, HSG C
0.042	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.096	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.306	76	Weighted Average
1.289		98.70% Pervious Area
0.017		1.30% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	100	0.0700	0.17		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	69	0.0700	1.85		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	44	0.5000	4.95		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.2	170	0.1500	12.39	148.70	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50' n= 0.050
1.3	99	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	99	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	43	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
13.7	624	Total			

**Summary for Subcatchment 69S: WS 15A**

Runoff = 1.69 cfs @ 11.95 hrs, Volume= 0.077 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.051	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.047	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.092	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.595	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.785	73	Weighted Average
1.646		92.21% Pervious Area
0.139		7.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	72	0.0800	1.94		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
2.3	155	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	149	0.1200	11.08	133.00	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50' n= 0.050 Mountain streams w/large boulders
3.1	376	Total			

**Summary for Subcatchment 70S: WS 15B**

Runoff = 1.90 cfs @ 12.09 hrs, Volume= 0.139 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.688	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.075	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.321	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.519	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.647	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.250	73	Weighted Average
2.929		90.12% Pervious Area
0.321		9.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.1700	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
7.0	502	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	87	0.0700	4.15	12.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
14.3	689	Total			

**Summary for Subcatchment 71S: WS 15C**

Runoff = 0.48 cfs @ 12.30 hrs, Volume= 0.053 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.010	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.219	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.551	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.103	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.883	78	Weighted Average
0.664		75.20% Pervious Area
0.219		24.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	66	0.0200	0.04		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
0.1	41	0.4400	4.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	108	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.7	141	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
32.4	356	Total			

**Summary for Subcatchment 72S: WS 15D**

Runoff = 0.38 cfs @ 11.99 hrs, Volume= 0.019 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.038	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.042	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.372	71	Proposed developed meadow, non-grazed, HSG C
0.002	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.454	73	Weighted Average
0.412		90.75% Pervious Area
0.042		9.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	43	0.5100	0.12		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
0.2	68	0.5100	5.00		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.2	111	Total			

**Summary for Subcatchment 73S: WS 15E**

Runoff = 1.35 cfs @ 11.98 hrs, Volume= 0.065 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.012	98	Proposed impervious to be treated, HSG C
0.216	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.040	71	Proposed developed meadow to be treated, HSG C
0.526	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.794	83	Weighted Average
0.566		71.28% Pervious Area
0.228		28.72% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	21	0.3300	0.09		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
1.0	286	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.8	162	0.0500	3.51	10.52	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.3	68	0.0600	3.84	11.52	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
6.1	537	Total			

**Summary for Subcatchment 74S: WS 15F**

Runoff = 4.11 cfs @ 12.01 hrs, Volume= 0.222 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"



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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.227	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.418	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.001	98	Untreated proposed impervious, HSG C
0.508	98	Untreated proposed impervious, HSG D
0.014	71	Proposed developed meadow, non-grazed, HSG C
1.020	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.011	71	Proposed meadow, ski trail, HSG C
0.852	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.051	81	Weighted Average
2.542		83.32% Pervious Area
0.509		16.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.1400	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.5	83	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.1	401	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
9.2	584	Total			

**Summary for Subcatchment 75S: WS 15G**

Runoff = 3.26 cfs @ 12.06 hrs, Volume= 0.203 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.422	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.485	70	Proposed Woods, Good, HSG C
0.098	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.784	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
1.239	71	Proposed developed meadow, non-grazed, HSG C
0.296	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.366	78	Weighted Average
2.540		75.46% Pervious Area
0.826		24.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.3	21	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	544	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.5	619	Total			

**Summary for Subcatchment 76S: WS 15H**

Runoff = 6.10 cfs @ 12.47 hrs, Volume= 0.933 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
5.165	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
4.977	70	Existing Woods, Good, HSG C
2.248	77	Existing Woods, Good, HSG D
2.513	70	Proposed Woods, Good, HSG C
0.330	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.827	98	Untreated proposed impervious, HSG C
0.001	98	Untreated proposed impervious, HSG D
1.952	71	Proposed developed meadow, non-grazed, HSG C
0.163	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.193	71	Proposed meadow, ski trail, HSG C
0.407	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
21.776	73	Weighted Average
20.948		96.20% Pervious Area
0.828		3.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.1300	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	358	0.2800	3.70		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
17.3	1,352	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	765	0.2000	3.13		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.8	793	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
42.6	3,368	Total			

**Summary for Subcatchment 77S: WS 16**

Runoff = 0.77 cfs @ 12.11 hrs, Volume= 0.058 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.083	70	Existing Woods, Good, HSG C
0.657	77	Existing Woods, Good, HSG D
0.054	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.147	71	Proposed developed meadow, non-grazed, HSG C
0.041	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.154	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.173	75	Weighted Average
1.136		96.85% Pervious Area
0.037		3.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.2	30	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	25	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	119	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	139	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	161	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	70	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
16.4	644	Total			

**Summary for Subcatchment 78S: WS 17**

Runoff = 1.74 cfs @ 11.94 hrs, Volume= 0.076 af, Depth= 0.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.047	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.011	70	Existing Woods, Good, HSG C
0.793	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.047	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.275	71	Proposed developed meadow, non-grazed, HSG C
0.044	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.119	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.336	77	Weighted Average
1.242		92.96% Pervious Area
0.094		7.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	23	0.1700	2.09		<b>Sheet Flow,</b> n= 0.011 P2= 2.40"
0.4	53	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.1	126	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	202	0.1400	15.06	75.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.030
2.9	404	Total			

**Summary for Subcatchment 79S: WS 17A**

Runoff = 3.34 cfs @ 12.03 hrs, Volume= 0.194 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.035	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.780	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.039	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.761	71	Proposed developed meadow to be treated, HSG C
0.248	78	Proposed developed meadow to be treated, HSG D
0.349	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.212	78	Weighted Average
2.393		74.50% Pervious Area
0.819		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	73	0.1200	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.8	94	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	268	0.0700	1.85		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
10.5	435	Total			

**Summary for Subcatchment 80S: WS 17B**

Runoff = 3.79 cfs @ 11.95 hrs, Volume= 0.170 af, Depth= 0.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.001	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.843	98	Proposed impervious to be treated, HSG C
0.055	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.441	71	Proposed developed meadow to be treated, HSG C
0.006	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.346	81	Weighted Average
1.448		61.72% Pervious Area
0.898		38.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1200	2.44		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	46	0.1200	7.03		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
3.5	1,127	0.1200	5.43	16.30	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
4.3	1,273	Total			

**Summary for Subcatchment 81S: WS 17C**

Runoff = 0.95 cfs @ 12.10 hrs, Volume= 0.069 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.298	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.264	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.746	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.308	76	Weighted Average
1.044		79.82% Pervious Area
0.264		20.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	316	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	76	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
16.0	448	Total			



**Summary for Subcatchment 82S: WS 17D**

Runoff = 1.17 cfs @ 12.08 hrs, Volume= 0.080 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.346	98	Untreated proposed impervious, HSG C
0.003	98	Untreated proposed impervious, HSG D
0.974	71	Proposed developed meadow, non-grazed, HSG C
0.005	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.328	78	Weighted Average
0.979		73.72% Pervious Area
0.349		26.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	49	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.6	95	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	155	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
14.9	299	Total			

**Summary for Subcatchment 83S: WS 17E**

Runoff = 6.56 cfs @ 11.98 hrs, Volume= 0.317 af, Depth= 1.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.036	77	Proposed Woods, Good, HSG D
0.414	98	Proposed impervious to be treated, HSG C
0.842	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.340	71	Proposed developed meadow to be treated, HSG C
1.819	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.004	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.455	85	Weighted Average
2.199		63.65% Pervious Area
1.256		36.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0300	1.40		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
5.1	1,621	0.1000	5.30	21.20	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
6.3	1,721	Total			

**Summary for Subcatchment 84S: WS 17F**

Runoff = 4.43 cfs @ 12.18 hrs, Volume= 0.375 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.019	70	Existing Woods, Good, HSG C
1.100	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
1.217	98	Untreated proposed impervious, HSG D
0.007	71	Proposed developed meadow, non-grazed, HSG C
2.244	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.587	83	Weighted Average
3.370		73.47% Pervious Area
1.217		26.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	44	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
12.6	683	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
23.5	727	Total			

**Summary for Subcatchment 85S: WS 18**

Runoff = 0.27 cfs @ 11.95 hrs, Volume= 0.012 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.165	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.186	79	Weighted Average
0.165		88.71% Pervious Area
0.021		11.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	65	0.2700	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	92	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' /' Top.W=4.00' n= 0.022
4.2	157	Total			

**Summary for Subcatchment 86S: WS 19**

Runoff = 0.56 cfs @ 12.05 hrs, Volume= 0.034 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.008	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.060	70	Existing Woods, Good, HSG C
0.313	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.016	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.116	71	Proposed developed meadow, non-grazed, HSG C
0.135	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.648	76	Weighted Average
0.624		96.30% Pervious Area
0.024		3.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
4.2	253	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
11.5	455	Total			

**Summary for Subcatchment 87S: WS 20**

Runoff = 1.68 cfs @ 11.98 hrs, Volume= 0.082 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.007	70	Existing Woods, Good, HSG C
0.881	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.013	98	Untreated proposed impervious, HSG C
0.027	98	Untreated proposed impervious, HSG D
0.030	71	Proposed developed meadow, non-grazed, HSG C
0.363	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.358	78	Weighted Average
1.281		94.33% Pervious Area
0.077		5.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	34	0.0600	1.49		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	18	0.3900	4.37		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.8	166	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	144	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	64	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' /' Top.W=4.00' n= 0.022
6.0	426	Total			

**Summary for Subcatchment 88S: WS 20A**

Runoff = 1.18 cfs @ 11.95 hrs, Volume= 0.053 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.287	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.141	98	Untreated proposed impervious, HSG C
0.006	98	Untreated proposed impervious, HSG D
0.600	71	Proposed developed meadow, non-grazed, HSG C
0.008	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.118	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.160	74	Weighted Average
1.013		87.33% Pervious Area
0.147		12.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1000	2.27		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	47	0.1000	6.42		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	35	0.4300	4.59		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.9	116	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	32	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	330	Total			

**Summary for Subcatchment 89S: WS 20B**

Runoff = 0.62 cfs @ 11.98 hrs, Volume= 0.031 af, Depth= 0.51"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.026	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.098	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.054	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.182	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.370	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.730	73	Weighted Average
0.676		92.60% Pervious Area
0.054		7.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	76	0.2000	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.2	140	0.1300	13.74	228.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=3.50' Z= 1.0 & 0.0 '/' Top.W=6.50' n= 0.050 Mountain streams w/large boulders
5.5	216	Total			

**Summary for Subcatchment 90S: WS 20C**

Runoff = 3.94 cfs @ 12.14 hrs, Volume= 0.316 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"



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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.487	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.117	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
1.368	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
2.264	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.237	78	Weighted Average
3.869		73.88% Pervious Area
1.368		26.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.7	582	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	116	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
19.8	754	Total			

**Summary for Subcatchment 91S: WS 20D**

Runoff = 7.77 cfs @ 12.32 hrs, Volume= 0.913 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.002	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.585	71	Existing meadow, non-grazed, HSG C
2.389	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.483	70	Existing Woods, Good, HSG C
3.526	77	Existing Woods, Good, HSG D
0.350	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.064	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
1.079	98	Untreated proposed impervious, HSG C
0.643	98	Untreated proposed impervious, HSG D
1.762	71	Proposed developed meadow, non-grazed, HSG C
1.316	78	Proposed developed meadow, non-grazed, HSG D
0.571	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.496	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
17.266	76	Weighted Average
15.478		89.64% Pervious Area
1.788		10.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.8	470	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	408	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	282	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.0	593	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	511	0.0600	3.84	11.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
33.2	2,364	Total			

**Summary for Subcatchment 92S: WS 21**

Runoff = 0.43 cfs @ 12.06 hrs, Volume= 0.027 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.020	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.341	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.092	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.453	78	Weighted Average
0.433		95.58% Pervious Area
0.020		4.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	46	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	82	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	138	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
12.8	266	Total			

**Summary for Subcatchment 93S: WS 21A**

Runoff = 7.39 cfs @ 11.96 hrs, Volume= 0.344 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 2-Year Rainfall=2.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.030	70	Existing Woods, Good, HSG C
0.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.062	98	Proposed impervious to be treated, HSG C
1.172	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.149	71	Proposed developed meadow to be treated, HSG C
2.457	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.204	83	Weighted Average
2.970		70.65% Pervious Area
1.234		29.35% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	47	0.0200	1.02		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.4	366	0.0800	4.44	13.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.1	62	0.0100	7.20	22.62	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
1.5	105	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.9	170	0.0400	3.14	9.41	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.1	50	0.0500	16.10	50.59	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
0.3	110	0.1300	5.65	16.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
5.1	910	Total			

**Summary for Subcatchment 94S: WS 21B**

Runoff = 2.80 cfs @ 12.09 hrs, Volume= 0.194 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.413	70	Existing Woods, Good, HSG C
0.012	77	Existing Woods, Good, HSG D
0.242	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.792	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.049	71	Proposed developed meadow, non-grazed, HSG C
0.118	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.591	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.217	78	Weighted Average
2.425		75.38% Pervious Area
0.792		24.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	100	0.1100	0.20		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.2	161	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	370	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.3	631	Total			

**Summary for Subcatchment 95S: WS 21C**

Runoff = 5.94 cfs @ 12.71 hrs, Volume= 1.129 af, Depth= 0.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

**55310.01-West Mountain-PR***Type II 24-hr 2-Year Rainfall=2.40"*

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
1.021	98	Untreated existing impervious, HSG C
0.399	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.513	71	Existing meadow, non-grazed, HSG C
3.194	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
11.552	70	Existing Woods, Good, HSG C
4.190	77	Existing Woods, Good, HSG D
0.457	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.027	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.156	71	Proposed developed meadow, non-grazed, HSG C
0.003	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
24.513	74	Weighted Average
23.066		94.10% Pervious Area
1.447		5.90% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	17	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.2	146	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	259	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	218	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	279	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	186	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	90	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	173	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	201	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	256	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	195	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	80	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	334	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	187	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	139	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.1	133	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	317	0.1600	19.24	692.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=9.00' D=3.00' Z= 1.0 '/' Top.W=15.00' n= 0.050 Mountain streams w/large boulders
59.5	3,310	Total			

**Summary for Subcatchment 96S: WS 22**

Runoff = 0.35 cfs @ 12.05 hrs, Volume= 0.021 af, Depth= 0.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"



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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.025	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.284	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.019	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.328	79	Weighted Average
0.303		92.38% Pervious Area
0.025		7.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	50	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	125	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
11.8	225	Total			

**Summary for Subcatchment 97S: WS 23**

Runoff = 0.49 cfs @ 12.00 hrs, Volume= 0.025 af, Depth= 0.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.039	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.174	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.157	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.370	80	Weighted Average
0.331		89.46% Pervious Area
0.039		10.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.1400	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	102	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.2	202	Total			

**Summary for Subcatchment 98S: WS 23A**

Runoff = 1.34 cfs @ 11.94 hrs, Volume= 0.057 af, Depth= 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.159	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.543	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.702	83	Weighted Average
0.543		77.35% Pervious Area
0.159		22.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	19	0.4200	0.25		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.8	217	0.0800	4.44	13.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.7	89	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.8	325	Total			

**Summary for Subcatchment 99S: WS 23B**

Runoff = 2.43 cfs @ 12.06 hrs, Volume= 0.152 af, Depth= 1.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.142	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.056	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.554	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.903	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.655	85	Weighted Average
1.045		63.14% Pervious Area
0.610		36.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.4	22	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	173	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	166	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
13.8	461	Total			

**Summary for Subcatchment 100S: WS 24**

Runoff = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af, Depth= 0.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

**55310.01-West Mountain-PR***Type II 24-hr 2-Year Rainfall=2.40"*

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.506	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.568	71	Existing meadow, non-grazed, HSG C
6.423	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.073	70	Existing Woods, Good, HSG C
5.770	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.038	98	Untreated proposed impervious, HSG D
0.017	71	Proposed developed meadow, non-grazed, HSG C
0.357	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.027	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
<hr/>		
13.779	78	Weighted Average
13.235		96.05% Pervious Area
0.544		3.95% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	10	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	210	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	333	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	221	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.3	317	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.3	305	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	241	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.1	138	0.2000	21.99	65.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	224	0.1500	19.05	57.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.1	118	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	167	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	89	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.1	105	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
19.4	2,578	Total			

**Summary for Subcatchment 103S: WS 1-8**

Runoff = 21.84 cfs @ 12.45 hrs, Volume= 3.133 af, Depth= 0.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 2-Year Rainfall=2.40"

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Type II 24-hr 2-Year Rainfall=2.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.004	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.012	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
9.906	70	Existing Woods, Good, HSG C
17.781	77	Existing Woods, Good, HSG D
2.274	70	Proposed Woods, Good, HSG C
3.491	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
8.051	71	Proposed meadow, ski trail, HSG C
18.519	78	Proposed meadow, ski trail, HSG D
2.211	71	Proposed meadow, ski lift, HSG C
1.103	78	Proposed meadow, ski lift, HSG D

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63.400	75	Weighted Average
63.354		99.93% Pervious Area
0.046		0.07% Impervious Area

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Type II 24-hr 2-Year Rainfall=2.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.2900	0.29		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.1	249	0.2900	3.77		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.9	274	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	353	0.3300	4.02		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	277	0.2500	7.84	23.52	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
5.7	374	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	462	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	579	0.3500	4.14		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	294	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.3	639	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	363	0.1600	10.18	71.29	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00' n= 0.050
1.3	806	0.1600	10.18	71.29	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00' n= 0.050
42.2	4,770	Total			

**Summary for Reach 6R: stream**

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 0.83" for 2-Year event  
 Inflow = 8.31 cfs @ 12.10 hrs, Volume= 1.713 af  
 Outflow = 8.19 cfs @ 12.12 hrs, Volume= 1.713 af, Atten= 1%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 5.86 fps, Min. Travel Time= 0.8 min  
 Avg. Velocity = 1.48 fps, Avg. Travel Time= 3.2 min

Peak Storage= 397 cf @ 12.11 hrs  
 Average Depth at Peak Storage= 0.41' , Surface Width= 3.83'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 132.62 cfs

3.00' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
 Length= 280.0' Slope= 0.1643 '/'  
 Inlet Invert= 1,815.00', Outlet Invert= 1,769.00'





**Summary for Reach 8R: ditch to stream**

Inflow Area = 16.590 ac, 25.90% Impervious, Inflow Depth = 0.91" for 2-Year event  
 Inflow = 6.48 cfs @ 12.06 hrs, Volume= 1.254 af  
 Outflow = 6.32 cfs @ 12.10 hrs, Volume= 1.254 af, Atten= 2%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 5.65 fps, Min. Travel Time= 1.4 min  
 Avg. Velocity = 1.48 fps, Avg. Travel Time= 5.4 min

Peak Storage= 539 cf @ 12.07 hrs  
 Average Depth at Peak Storage= 0.34' , Surface Width= 3.68'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 144.00 cfs

3.00' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
 Length= 475.0' Slope= 0.1937 '/'  
 Inlet Invert= 1,910.00', Outlet Invert= 1,818.00'



**Summary for Reach 9R: stream**

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 0.60" for 2-Year event  
 Inflow = 13.47 cfs @ 12.41 hrs, Volume= 2.443 af  
 Outflow = 13.44 cfs @ 12.44 hrs, Volume= 2.443 af, Atten= 0%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 6.34 fps, Min. Travel Time= 0.9 min  
 Avg. Velocity = 2.60 fps, Avg. Travel Time= 2.1 min

Peak Storage= 700 cf @ 12.42 hrs  
 Average Depth at Peak Storage= 0.53' , Surface Width= 4.55'  
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 139.42 cfs

3.50' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.50'  
 Length= 330.0' Slope= 0.1424 '/'  
 Inlet Invert= 1,787.00', Outlet Invert= 1,740.00'



**Summary for Reach 10R: stream**

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 0.60" for 2-Year event  
 Inflow = 13.35 cfs @ 12.40 hrs, Volume= 2.390 af  
 Outflow = 13.34 cfs @ 12.41 hrs, Volume= 2.390 af, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 6.73 fps, Min. Travel Time= 0.3 min  
 Avg. Velocity = 2.75 fps, Avg. Travel Time= 0.8 min

Peak Storage= 278 cf @ 12.41 hrs  
 Average Depth at Peak Storage= 0.50' , Surface Width= 4.49'  
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 152.96 cfs

3.50' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 ' / ' Top Width= 7.50'  
 Length= 140.0' Slope= 0.1714 ' / '  
 Inlet Invert= 1,814.00', Outlet Invert= 1,790.00'



**Summary for Reach 11R: stream**

Inflow Area = 17.266 ac, 10.36% Impervious, Inflow Depth = 0.63" for 2-Year event  
 Inflow = 7.77 cfs @ 12.32 hrs, Volume= 0.913 af  
 Outflow = 7.72 cfs @ 12.34 hrs, Volume= 0.913 af, Atten= 1%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 6.07 fps, Min. Travel Time= 0.8 min  
 Avg. Velocity = 2.26 fps, Avg. Travel Time= 2.2 min

Peak Storage= 382 cf @ 12.33 hrs  
 Average Depth at Peak Storage= 0.38' , Surface Width= 3.75'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 145.10 cfs

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3.00' x 2.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
Length= 300.0' Slope= 0.1967 '/'  
Inlet Invert= 1,910.00', Outlet Invert= 1,851.00'



**Summary for Reach 14R: drainage ditch**

Inflow Area = 3.366 ac, 24.54% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 3.26 cfs @ 12.06 hrs, Volume= 0.203 af  
Outflow = 3.07 cfs @ 12.14 hrs, Volume= 0.203 af, Atten= 6%, Lag= 5.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 3.38 fps, Min. Travel Time= 3.0 min  
Avg. Velocity = 1.07 fps, Avg. Travel Time= 9.4 min

Peak Storage= 545 cf @ 12.09 hrs  
Average Depth at Peak Storage= 0.34' , Surface Width= 3.36'  
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 106.43 cfs

2.00' x 2.00' deep channel, n= 0.069  
Side Slope Z-value= 2.0 '/' Top Width= 10.00'  
Length= 600.0' Slope= 0.1500 '/'  
Inlet Invert= 2,060.00', Outlet Invert= 1,970.00'



**Summary for Reach 17R: stream**

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 10.19 cfs @ 12.16 hrs, Volume= 1.076 af  
Outflow = 10.10 cfs @ 12.17 hrs, Volume= 1.076 af, Atten= 1%, Lag= 0.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 6.87 fps, Min. Travel Time= 0.5 min  
Avg. Velocity = 1.05 fps, Avg. Travel Time= 3.2 min

Peak Storage= 302 cf @ 12.17 hrs  
Average Depth at Peak Storage= 0.34' , Surface Width= 4.68'  
Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 62.68 cfs

4.00' x 1.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 6.00'  
Length= 204.0' Slope= 0.2696 '/'  
Inlet Invert= 1,711.00', Outlet Invert= 1,656.00'



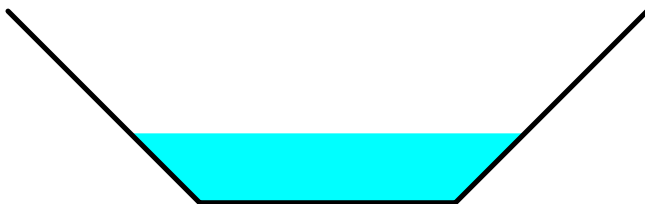
**Summary for Reach 19R: stream**

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 10.00 cfs @ 12.14 hrs, Volume= 0.992 af  
Outflow = 9.91 cfs @ 12.16 hrs, Volume= 0.992 af, Atten= 1%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 7.25 fps, Min. Travel Time= 0.6 min  
Avg. Velocity = 1.22 fps, Avg. Travel Time= 3.5 min

Peak Storage= 350 cf @ 12.15 hrs  
Average Depth at Peak Storage= 0.54' , Surface Width= 3.09'  
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 63.50 cfs

2.00' x 1.50' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 5.00'  
Length= 254.0' Slope= 0.2087 '/'  
Inlet Invert= 1,770.00', Outlet Invert= 1,717.00'



**Summary for Reach 23R: ditch**

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 0.76" for 2-Year event  
Inflow = 6.97 cfs @ 12.13 hrs, Volume= 0.728 af  
Outflow = 6.82 cfs @ 12.18 hrs, Volume= 0.728 af, Atten= 2%, Lag= 3.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 5.61 fps, Min. Travel Time= 1.6 min  
Avg. Velocity = 0.89 fps, Avg. Travel Time= 10.3 min

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Peak Storage= 680 cf @ 12.15 hrs  
Average Depth at Peak Storage= 0.37' , Surface Width= 3.73'  
Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 38.44 cfs

3.00' x 1.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 5.00'  
Length= 550.0' Slope= 0.1727 '/'  
Inlet Invert= 1,945.00', Outlet Invert= 1,850.00'



**Summary for Reach 24R: ditch**

Inflow Area = 8.652 ac, 9.56% Impervious, Inflow Depth = 0.71" for 2-Year event  
Inflow = 5.95 cfs @ 12.10 hrs, Volume= 0.511 af  
Outflow = 5.83 cfs @ 12.15 hrs, Volume= 0.511 af, Atten= 2%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 4.54 fps, Min. Travel Time= 1.5 min  
Avg. Velocity = 1.53 fps, Avg. Travel Time= 4.4 min

Peak Storage= 522 cf @ 12.12 hrs  
Average Depth at Peak Storage= 0.35' , Surface Width= 4.41'  
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 163.35 cfs

3.00' x 2.00' deep channel, n= 0.069 Riprap, 6-inch  
Side Slope Z-value= 2.0 '/' Top Width= 11.00'  
Length= 400.0' Slope= 0.2375 '/'  
Inlet Invert= 2,015.00', Outlet Invert= 1,920.00'



**Summary for Reach 29R: stream**

Inflow Area = 68.800 ac, 9.84% Impervious, Inflow Depth = 0.67" for 2-Year event  
Inflow = 27.74 cfs @ 12.15 hrs, Volume= 3.844 af  
Outflow = 27.21 cfs @ 12.20 hrs, Volume= 3.844 af, Atten= 2%, Lag= 2.9 min

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Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 7.03 fps, Min. Travel Time= 1.5 min  
Avg. Velocity = 1.05 fps, Avg. Travel Time= 10.2 min

Peak Storage= 2,525 cf @ 12.17 hrs  
Average Depth at Peak Storage= 0.98' , Surface Width= 4.97'  
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 100.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders  
Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
Length= 645.0' Slope= 0.0946 '/'  
Inlet Invert= 1,596.00', Outlet Invert= 1,535.00'



**Summary for Reach 32R: dead end stream**

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 0.64" for 2-Year event  
Inflow = 10.65 cfs @ 12.12 hrs, Volume= 1.952 af  
Outflow = 10.43 cfs @ 12.19 hrs, Volume= 1.952 af, Atten= 2%, Lag= 4.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 6.30 fps, Min. Travel Time= 2.0 min  
Avg. Velocity = 1.35 fps, Avg. Travel Time= 9.5 min

Peak Storage= 1,288 cf @ 12.15 hrs  
Average Depth at Peak Storage= 0.48' , Surface Width= 3.96'  
Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 76.81 cfs

3.00' x 1.50' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 6.00'  
Length= 770.0' Slope= 0.1610 '/'  
Inlet Invert= 1,760.00', Outlet Invert= 1,636.00'



Summary for Reach 34R: stream

Inflow Area = 30.406 ac, 6.66% Impervious, Inflow Depth = 0.59" for 2-Year event
Inflow = 7.86 cfs @ 12.55 hrs, Volume= 1.492 af
Outflow = 7.83 cfs @ 12.58 hrs, Volume= 1.492 af, Atten= 0%, Lag= 1.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.56 fps, Min. Travel Time= 1.1 min
Avg. Velocity = 2.01 fps, Avg. Travel Time= 3.1 min

Peak Storage= 522 cf @ 12.56 hrs
Average Depth at Peak Storage= 0.41' , Surface Width= 3.83'
Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 73.80 cfs

3.00' x 1.50' deep channel, n= 0.050
Side Slope Z-value= 1.0 ' ' Top Width= 6.00'
Length= 370.0' Slope= 0.1486 ' '
Inlet Invert= 1,815.00', Outlet Invert= 1,760.00'



Summary for Reach 35R: flow in wetland

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 0.52" for 2-Year event
Inflow = 6.41 cfs @ 12.46 hrs, Volume= 1.055 af
Outflow = 6.28 cfs @ 12.61 hrs, Volume= 1.055 af, Atten= 2%, Lag= 9.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.85 fps, Min. Travel Time= 5.4 min
Avg. Velocity = 0.61 fps, Avg. Travel Time= 16.5 min

Peak Storage= 2,032 cf @ 12.52 hrs
Average Depth at Peak Storage= 0.28' , Surface Width= 12.55'
Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 53.58 cfs

12.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 1.0 ' ' Top Width= 14.00'
Length= 600.0' Slope= 0.0917 ' '
Inlet Invert= 2,080.00', Outlet Invert= 2,025.00'



Summary for Reach 39R: stream

Inflow Area = 2.899 ac, 24.25% Impervious, Inflow Depth = 0.96" for 2-Year event
Inflow = 1.80 cfs @ 12.12 hrs, Volume= 0.231 af
Outflow = 1.61 cfs @ 12.30 hrs, Volume= 0.231 af, Atten= 10%, Lag= 10.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.93 fps, Min. Travel Time= 6.3 min
Avg. Velocity = 0.90 fps, Avg. Travel Time= 20.3 min

Peak Storage= 608 cf @ 12.19 hrs
Average Depth at Peak Storage= 0.13' , Surface Width= 4.27'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 161.10 cfs

4.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 8.00'
Length= 1,100.0' Slope= 0.1527 '/'
Inlet Invert= 1,780.00', Outlet Invert= 1,612.00'



Summary for Reach 40R: stream

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 0.63" for 2-Year event
Inflow = 17.91 cfs @ 12.06 hrs, Volume= 3.083 af
Outflow = 17.49 cfs @ 12.62 hrs, Volume= 3.083 af, Atten= 2%, Lag= 33.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.43 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 1.64 fps, Avg. Travel Time= 7.8 min

Peak Storage= 2,483 cf @ 12.58 hrs
Average Depth at Peak Storage= 0.50' , Surface Width= 6.99'
Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 10.00'
Length= 770.0' Slope= 0.1013 '/'
Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'





Summary for Reach 42R: stream

Inflow Area = 37.607 ac, 3.33% Impervious, Inflow Depth = 0.63" for 2-Year event
Inflow = 15.68 cfs @ 12.39 hrs, Volume= 1.989 af
Outflow = 14.98 cfs @ 12.57 hrs, Volume= 1.989 af, Atten= 4%, Lag= 11.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.32 fps, Min. Travel Time= 6.4 min
Avg. Velocity = 1.63 fps, Avg. Travel Time= 24.9 min

Peak Storage= 5,796 cf @ 12.46 hrs
Average Depth at Peak Storage= 0.44' , Surface Width= 5.87'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 2,440.0' Slope= 0.1639 ' '
Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'



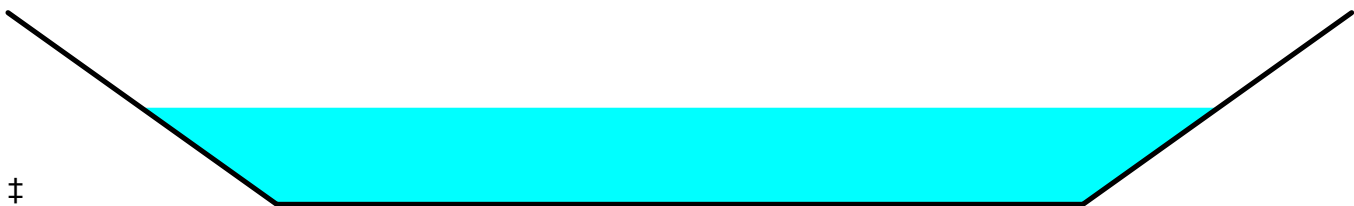
Summary for Reach 45R: flow in wetland

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 0.59" for 2-Year event
Inflow = 12.12 cfs @ 12.26 hrs, Volume= 1.307 af
Outflow = 11.28 cfs @ 12.44 hrs, Volume= 1.307 af, Atten= 7%, Lag= 11.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.20 fps, Min. Travel Time= 6.2 min
Avg. Velocity = 0.84 fps, Avg. Travel Time= 23.7 min

Peak Storage= 4,235 cf @ 12.34 hrs
Average Depth at Peak Storage= 0.50' , Surface Width= 8.01'
Bank-Full Depth= 1.00' Flow Area= 8.0 sf, Capacity= 37.72 cfs

6.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 2.0 ' ' Top Width= 10.00'
Length= 1,200.0' Slope= 0.1442 ' '
Inlet Invert= 2,160.00', Outlet Invert= 1,987.00'



‡

Summary for Reach 102R: stream

Inflow Area = 321.351 ac, 5.57% Impervious, Inflow Depth > 0.63" for 2-Year event
Inflow = 84.75 cfs @ 12.53 hrs, Volume= 16.935 af
Outflow = 84.46 cfs @ 12.60 hrs, Volume= 16.935 af, Atten= 0%, Lag= 3.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.47 fps, Min. Travel Time= 2.3 min
Avg. Velocity = 1.08 fps, Avg. Travel Time= 13.8 min

Peak Storage= 11,632 cf @ 12.56 hrs
Average Depth at Peak Storage= 1.00', Surface Width= 14.01'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 890.0' Slope= 0.0562 '/'
Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 0.59" for 2-Year event
Inflow = 41.21 cfs @ 12.45 hrs, Volume= 5.854 af
Outflow = 41.08 cfs @ 12.47 hrs, Volume= 5.854 af, Atten= 0%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.29 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 2.09 fps, Avg. Travel Time= 2.2 min

Peak Storage= 1,801 cf @ 12.46 hrs
Average Depth at Peak Storage= 0.75', Surface Width= 9.50'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 275.0' Slope= 0.0800 '/'
Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 190.718 ac, 9.01% Impervious, Inflow Depth > 0.65" for 2-Year event
Inflow = 44.57 cfs @ 12.62 hrs, Volume= 10.357 af
Outflow = 44.47 cfs @ 12.66 hrs, Volume= 10.356 af, Atten= 0%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.97 fps, Min. Travel Time= 1.2 min
Avg. Velocity = 1.23 fps, Avg. Travel Time= 6.7 min

Peak Storage= 3,162 cf @ 12.64 hrs
Average Depth at Peak Storage= 0.73' , Surface Width= 9.46'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 14.00'
Length= 495.0' Slope= 0.1010 ' '
Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



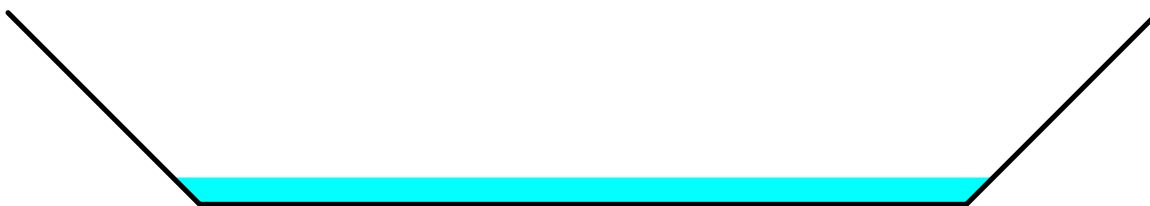
Summary for Reach 108R: stream

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 0.55" for 2-Year event
Inflow = 11.58 cfs @ 12.33 hrs, Volume= 1.435 af
Outflow = 10.83 cfs @ 12.54 hrs, Volume= 1.435 af, Atten= 6%, Lag= 12.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.66 fps, Min. Travel Time= 7.0 min
Avg. Velocity = 1.56 fps, Avg. Travel Time= 21.1 min

Peak Storage= 4,597 cf @ 12.42 hrs
Average Depth at Peak Storage= 0.28' , Surface Width= 8.56'
Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 12.00'
Length= 1,968.0' Slope= 0.1443 ' '
Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 156.700 ac, 6.38% Impervious, Inflow Depth = 0.60" for 2-Year event
Inflow = 39.89 cfs @ 12.59 hrs, Volume= 7.779 af
Outflow = 39.72 cfs @ 12.66 hrs, Volume= 7.779 af, Atten= 0%, Lag= 4.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.14 fps, Min. Travel Time= 2.4 min
Avg. Velocity = 1.43 fps, Avg. Travel Time= 13.7 min

Peak Storage= 5,738 cf @ 12.62 hrs
Average Depth at Peak Storage= 0.73' , Surface Width= 7.45'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,175.0' Slope= 0.1464 '/'
Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 13.616 ac, 5.02% Impervious, Inflow Depth = 0.63" for 2-Year event
Inflow = 3.79 cfs @ 12.46 hrs, Volume= 0.711 af
Outflow = 3.76 cfs @ 12.52 hrs, Volume= 0.711 af, Atten= 1%, Lag= 4.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.61 fps, Min. Travel Time= 2.5 min
Avg. Velocity = 1.28 fps, Avg. Travel Time= 9.0 min

Peak Storage= 561 cf @ 12.48 hrs
Average Depth at Peak Storage= 0.25' , Surface Width= 3.50'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 686.0' Slope= 0.1808 '/'
Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 22.637 ac, 11.13% Impervious, Inflow Depth = 0.68" for 2-Year event
Inflow = 10.07 cfs @ 11.97 hrs, Volume= 1.273 af
Outflow = 8.76 cfs @ 12.07 hrs, Volume= 1.273 af, Atten= 13%, Lag= 6.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.41 fps, Min. Travel Time= 3.8 min
Avg. Velocity = 1.26 fps, Avg. Travel Time= 16.3 min

Peak Storage= 2,063 cf @ 12.01 hrs
Average Depth at Peak Storage= 0.32', Surface Width= 5.63'
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 9.00'
Length= 1,230.0' Slope= 0.1772 '/'
Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



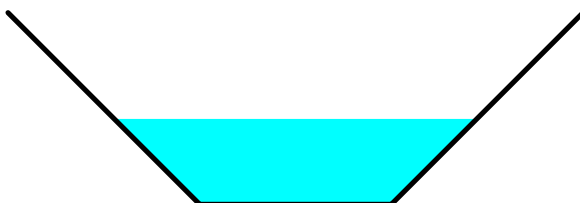
Summary for Reach 113R: ditch

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.72" for 2-Year event
Inflow = 10.10 cfs @ 12.17 hrs, Volume= 1.076 af
Outflow = 9.94 cfs @ 12.21 hrs, Volume= 1.076 af, Atten= 2%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.90 fps, Min. Travel Time= 1.0 min
Avg. Velocity = 0.67 fps, Avg. Travel Time= 6.1 min

Peak Storage= 631 cf @ 12.19 hrs
Average Depth at Peak Storage= 0.89', Surface Width= 3.78'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 46.73 cfs

2.00' x 2.00' deep channel, n= 0.069
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 245.0' Slope= 0.0694 '/'
Inlet Invert= 1,656.00', Outlet Invert= 1,639.00'



Summary for Reach 114R: dead end channel

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 0.81" for 2-Year event
Inflow = 8.46 cfs @ 12.12 hrs, Volume= 1.789 af
Outflow = 8.32 cfs @ 12.14 hrs, Volume= 1.789 af, Atten= 2%, Lag= 1.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.72 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 2.05 fps, Avg. Travel Time= 3.3 min

Peak Storage= 435 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.33' , Surface Width= 3.65'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 200.37 cfs

3.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 400.0' Slope= 0.3750 '/'
Inlet Invert= 1,750.00', Outlet Invert= 1,600.00'



Summary for Reach 115R: stream

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 0.59" for 2-Year event
Inflow = 11.74 cfs @ 12.45 hrs, Volume= 2.043 af
Outflow = 11.72 cfs @ 12.46 hrs, Volume= 2.043 af, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.42 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 2.67 fps, Avg. Travel Time= 0.8 min

Peak Storage= 238 cf @ 12.45 hrs
Average Depth at Peak Storage= 0.52' , Surface Width= 4.04'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 128.34 cfs

3.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 130.0' Slope= 0.1538 '/'
Inlet Invert= 1,844.00', Outlet Invert= 1,824.00'



**Summary for Pond 2P: Culvert 7C Driveway**

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 0.60" for 2-Year event  
Inflow = 13.47 cfs @ 12.41 hrs, Volume= 2.443 af  
Primary = 13.47 cfs @ 12.41 hrs, Volume= 2.443 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 3P: Culvert 7B -Road A**

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 0.60" for 2-Year event  
Inflow = 13.35 cfs @ 12.40 hrs, Volume= 2.390 af  
Primary = 13.35 cfs @ 12.40 hrs, Volume= 2.390 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 4P: trail culvert**

Inflow Area = 5.237 ac, 26.12% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 3.94 cfs @ 12.14 hrs, Volume= 0.316 af  
Primary = 3.94 cfs @ 12.14 hrs, Volume= 0.316 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 5P: Culvert 7A**

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 0.59" for 2-Year event  
Inflow = 11.74 cfs @ 12.45 hrs, Volume= 2.043 af  
Primary = 11.74 cfs @ 12.45 hrs, Volume= 2.043 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 7P: Culvert 6A**

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 0.83" for 2-Year event  
Inflow = 8.31 cfs @ 12.10 hrs, Volume= 1.713 af  
Primary = 8.31 cfs @ 12.10 hrs, Volume= 1.713 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 8P: new 36**

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af  
Outflow = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af, Atten= 0%, Lag= 0.0 min  
Primary = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

Prepared by VHB

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Peak Elev= 1.24' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0400 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=10.37 cfs @ 12.14 hrs HW=1.23' (Free Discharge)↑**1=Culvert** (Inlet Controls 10.37 cfs @ 3.78 fps)**Summary for Pond 9P: new 36**

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 0.80" for 2-Year event  
 Inflow = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af  
 Outflow = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af, Atten= 0%, Lag= 0.0 min  
 Primary = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1.15' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -1.05' S= 0.0150 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=9.07 cfs @ 12.13 hrs HW=1.15' (Free Discharge)↑**1=Culvert** (Inlet Controls 9.07 cfs @ 3.65 fps)**Summary for Pond 10P: new 36**

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 0.72" for 2-Year event  
 Inflow = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af  
 Outflow = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af, Atten= 0%, Lag= 0.0 min  
 Primary = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1.30' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.10' S= 0.0300 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=11.31 cfs @ 12.18 hrs HW=1.29' (Free Discharge)↑**1=Culvert** (Inlet Controls 11.31 cfs @ 3.87 fps)



**Summary for Pond 12P: new 48**

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 0.67" for 2-Year event  
 Inflow = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af  
 Outflow = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af, Atten= 0%, Lag= 0.0 min  
 Primary = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 2.02' @ 12.18 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>48.0" Round Culvert</b> L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0560 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

**Primary OutFlow** Max=30.52 cfs @ 12.18 hrs HW=2.01' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 30.52 cfs @ 4.83 fps)

**Summary for Pond 13P: Culvert 6B**

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 0.81" for 2-Year event  
 Inflow = 8.46 cfs @ 12.12 hrs, Volume= 1.789 af  
 Primary = 8.46 cfs @ 12.12 hrs, Volume= 1.789 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 16P: trunk line from condos**

Inflow Area = 5.094 ac, 51.81% Impervious, Inflow Depth = 1.23" for 2-Year event  
 Inflow = 11.01 cfs @ 11.94 hrs, Volume= 0.522 af  
 Outflow = 11.01 cfs @ 11.94 hrs, Volume= 0.522 af, Atten= 0%, Lag= 0.0 min  
 Primary = 11.01 cfs @ 11.94 hrs, Volume= 0.522 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,713.58' @ 11.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,712.00'	<b>30.0" Round Culvert</b> L= 700.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,712.00' / 1,694.00' S= 0.0257 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

**Primary OutFlow** Max=10.78 cfs @ 11.94 hrs HW=1,713.56' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 10.78 cfs @ 3.35 fps)

**Summary for Pond 18P: Culvert 5 - Trail**

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 0.72" for 2-Year event  
 Inflow = 10.19 cfs @ 12.16 hrs, Volume= 1.076 af  
 Primary = 10.19 cfs @ 12.16 hrs, Volume= 1.076 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 20P: road culvert**

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 0.72" for 2-Year event  
 Inflow = 10.00 cfs @ 12.14 hrs, Volume= 0.992 af  
 Outflow = 10.00 cfs @ 12.14 hrs, Volume= 0.992 af, Atten= 0%, Lag= 0.0 min  
 Primary = 10.00 cfs @ 12.14 hrs, Volume= 0.992 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,774.77' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,774.00'	<b>72.0" Round Culvert w/ 24.0" inside fill</b> L= 50.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,772.00' / 1,771.00' S= 0.0200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 20.02 sf

**Primary OutFlow** Max=9.94 cfs @ 12.14 hrs HW=1,774.77' (Free Discharge)

↑1=Culvert (Inlet Controls 9.94 cfs @ 2.21 fps)

**Summary for Pond 21P: Pipe Down Slope**

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 0.75" for 2-Year event  
 Inflow = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af  
 Outflow = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af, Atten= 0%, Lag= 0.1 min  
 Primary = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,813.18' @ 12.15 hrs Surf.Area= 0.001 ac Storage= 0.001 af

Plug-Flow detention time= 0.4 min calculated for 0.913 af (100% of inflow)

Center-of-Mass det. time= 0.4 min ( 1,021.0 - 1,020.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,812.00'	0.016 af	<b>8.00'D x 14.00'H Vertical Cone/Cylinder</b>

Device	Routing	Invert	Outlet Devices
#1	Primary	1,812.00'	<b>48.0" Round Culvert</b> L= 100.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,812.00' / 1,780.00' S= 0.3200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

**Primary OutFlow** Max=9.06 cfs @ 12.15 hrs HW=1,813.18' (Free Discharge)

↑1=Culvert (Inlet Controls 9.06 cfs @ 2.92 fps)

**Summary for Pond 22P: Pipe Down Slope**

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 0.75" for 2-Year event  
 Inflow = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af  
 Outflow = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af, Atten= 0%, Lag= 0.0 min  
 Primary = 9.11 cfs @ 12.15 hrs, Volume= 0.913 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,823.05' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,822.00'	<b>48.0" Round Culvert</b> L= 100.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,822.00' / 1,818.00' S= 0.0400 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

**Primary OutFlow** Max=9.08 cfs @ 12.15 hrs HW=1,823.04' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 9.08 cfs @ 3.48 fps)

**Summary for Pond 25P: road culvert**

Inflow Area = 5.782 ac, 8.73% Impervious, Inflow Depth = 0.68" for 2-Year event  
 Inflow = 3.73 cfs @ 12.17 hrs, Volume= 0.327 af  
 Primary = 3.73 cfs @ 12.17 hrs, Volume= 0.327 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 26P: road culvert**

Inflow Area = 2.870 ac, 11.22% Impervious, Inflow Depth = 0.77" for 2-Year event  
 Inflow = 3.06 cfs @ 12.05 hrs, Volume= 0.184 af  
 Primary = 3.06 cfs @ 12.05 hrs, Volume= 0.184 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 28P: road culvert**

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 0.76" for 2-Year event  
 Inflow = 6.97 cfs @ 12.13 hrs, Volume= 0.728 af  
 Primary = 6.97 cfs @ 12.13 hrs, Volume= 0.728 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 30P: Culvert 4 -Trail**

Inflow Area = 15.570 ac, 7.12% Impervious, Inflow Depth = 0.69" for 2-Year event  
 Inflow = 9.22 cfs @ 12.15 hrs, Volume= 0.901 af  
 Primary = 9.22 cfs @ 12.15 hrs, Volume= 0.901 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 31P: Trail Culvert**

Inflow Area = 49.423 ac, 9.08% Impervious, Inflow Depth = 0.63" for 2-Year event  
 Inflow = 18.21 cfs @ 12.16 hrs, Volume= 2.607 af  
 Outflow = 18.21 cfs @ 12.16 hrs, Volume= 2.607 af, Atten= 0%, Lag= 0.0 min  
 Primary = 18.21 cfs @ 12.16 hrs, Volume= 2.607 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,627.50' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,626.00'	<b>72.0" Round Culvert</b> L= 300.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,626.00' / 1,610.00' S= 0.0533 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

**Primary OutFlow** Max=18.08 cfs @ 12.16 hrs HW=1,627.49' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 18.08 cfs @ 3.29 fps)

**Summary for Pond 33P: Culvert 12 -Road**

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 0.64" for 2-Year event  
 Inflow = 10.65 cfs @ 12.12 hrs, Volume= 1.952 af  
 Primary = 10.65 cfs @ 12.12 hrs, Volume= 1.952 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 36P: trail culvert**

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 0.52" for 2-Year event  
 Inflow = 6.41 cfs @ 12.46 hrs, Volume= 1.055 af  
 Primary = 6.41 cfs @ 12.46 hrs, Volume= 1.055 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 37P: Road E Culvert**

Inflow Area = 27.875 ac, 6.15% Impervious, Inflow Depth = 0.57" for 2-Year event  
 Inflow = 7.39 cfs @ 12.57 hrs, Volume= 1.319 af  
 Primary = 7.39 cfs @ 12.57 hrs, Volume= 1.319 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 38P: Road A Culvert**

Inflow Area = 21.776 ac, 3.80% Impervious, Inflow Depth = 0.51" for 2-Year event  
 Inflow = 6.10 cfs @ 12.47 hrs, Volume= 0.933 af  
 Primary = 6.10 cfs @ 12.47 hrs, Volume= 0.933 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 41P: Culvert 3 - Trail 3**

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 0.63" for 2-Year event  
Inflow = 17.91 cfs @ 12.06 hrs, Volume= 3.083 af  
Primary = 17.91 cfs @ 12.06 hrs, Volume= 3.083 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 43P: Culvert 11 -Trail 3**

Inflow Area = 35.358 ac, 2.93% Impervious, Inflow Depth = 0.63" for 2-Year event  
Inflow = 14.61 cfs @ 12.40 hrs, Volume= 1.844 af  
Primary = 14.61 cfs @ 12.40 hrs, Volume= 1.844 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 44P: Culvert 13 -Road A**

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 0.59" for 2-Year event  
Inflow = 12.12 cfs @ 12.26 hrs, Volume= 1.307 af  
Primary = 12.12 cfs @ 12.26 hrs, Volume= 1.307 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 105P: Culvert 1 - Trail**

Inflow Area = 180.600 ac, 7.35% Impervious, Inflow Depth = 0.63" for 2-Year event  
Inflow = 44.19 cfs @ 12.62 hrs, Volume= 9.450 af  
Primary = 44.19 cfs @ 12.62 hrs, Volume= 9.450 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 106P: Culvert 2- Trail 2**

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 0.59" for 2-Year event  
Inflow = 41.21 cfs @ 12.45 hrs, Volume= 5.854 af  
Primary = 41.21 cfs @ 12.45 hrs, Volume= 5.854 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 107P: Culvert 10 -Trail 2**

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 0.55" for 2-Year event  
Inflow = 11.58 cfs @ 12.33 hrs, Volume= 1.435 af  
Primary = 11.58 cfs @ 12.33 hrs, Volume= 1.435 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 108P: new 36**

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 0.60" for 2-Year event  
 Inflow = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af  
 Outflow = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af, Atten= 0%, Lag= 0.0 min  
 Primary = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,741.44' @ 12.43 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,740.00'	<b>36.0" Round Culvert</b> L= 70.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,740.00' / 1,738.00' S= 0.0286 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 7.07 sf

**Primary OutFlow** Max=13.62 cfs @ 12.43 hrs HW=1,741.43' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 13.62 cfs @ 4.08 fps)

**Summary for Pond 109P: Culvert 9-Trail Crossing**

Inflow Area = 87.844 ac, 2.93% Impervious, Inflow Depth = 0.55" for 2-Year event  
 Inflow = 20.20 cfs @ 12.59 hrs, Volume= 4.054 af  
 Primary = 20.20 cfs @ 12.59 hrs, Volume= 4.054 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond P1: Condos Complex Wet Pond**

Inflow Area = 11.937 ac, 34.04% Impervious, Inflow Depth = 1.00" for 2-Year event  
 Inflow = 17.49 cfs @ 11.95 hrs, Volume= 0.998 af  
 Outflow = 0.37 cfs @ 18.04 hrs, Volume= 0.991 af, Atten= 98%, Lag= 365.7 min  
 Primary = 0.37 cfs @ 18.04 hrs, Volume= 0.991 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,684.00' Surf.Area= 29,057 sf Storage= 54,189 cf  
 Peak Elev= 1,685.50' @ 18.04 hrs Surf.Area= 36,960 sf Storage= 83,490 cf (29,302 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= 1,031.4 min ( 1,870.3 - 838.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,678.00'	54,189 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,684.00'	66,450 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		120,639 cf	Total Available Storage

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,678.00	4,365	481.7	0	0	4,365
1,679.00	5,839	500.5	5,084	5,084	5,914
1,680.00	7,369	519.4	6,589	11,673	7,531
1,681.00	8,954	538.2	8,149	19,822	9,199
1,682.00	10,598	557.1	9,764	29,586	10,935
1,683.00	12,297	575.9	11,437	41,023	12,722
1,684.00	14,053	594.8	13,165	54,189	14,578

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,684.00	15,004	752.2	0	0	15,004
1,685.00	21,703	791.7	18,251	18,251	19,918
1,686.00	24,167	734.9	22,924	41,175	26,860
1,687.00	26,400	753.8	25,275	66,450	29,220

Device	Routing	Invert	Outlet Devices
#1	Primary	1,681.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,681.00' / 1,680.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,684.00'	<b>3.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,686.00'	<b>36.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,686.00'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.37 cfs @ 18.04 hrs HW=1,685.50' (Free Discharge)

- ↑ 1=Culvert (Passes 0.37 cfs of 22.33 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.37 cfs @ 5.59 fps)
- ↑ 3=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,684.00' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P10: Lot R31 Soil Filter**

Inflow Area = 8.042 ac, 30.75% Impervious, Inflow Depth = 1.03" for 2-Year event  
 Inflow = 8.72 cfs @ 12.00 hrs, Volume= 0.691 af  
 Outflow = 0.36 cfs @ 15.84 hrs, Volume= 0.691 af, Atten= 96%, Lag= 230.8 min  
 Primary = 0.36 cfs @ 15.84 hrs, Volume= 0.691 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,975.33' Surf.Area= 4,651 sf Storage= 614 cf  
 Peak Elev= 1,980.27' @ 15.84 hrs Surf.Area= 7,014 sf Storage= 18,732 cf (18,118 cf above start)

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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Plug-Flow detention time= 628.6 min calculated for 0.677 af (98% of inflow)  
Center-of-Mass det. time= 601.9 min ( 1,451.4 - 849.5 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,975.00'	53,120 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,975.00	4,651	326.9	0.0	0	0	4,651
1,976.50	4,651	326.9	40.0	2,791	2,791	5,141
1,978.00	4,651	326.9	40.0	2,791	5,581	5,632
1,980.00	6,726	364.6	100.0	11,313	16,895	7,818
1,982.00	9,027	402.3	100.0	15,697	32,591	10,244
1,984.00	11,554	440.0	100.0	20,529	53,120	12,907

Device	Routing	Invert	Outlet Devices
#1	Primary	1,974.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,974.00' / 1,972.00' S= 0.0200 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,975.33'	<b>2.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,975.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,982.00'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,982.70'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.36 cfs @ 15.84 hrs HW=1,980.27' (Free Discharge)

- ↑ 1=Culvert (Passes 0.36 cfs of 27.41 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.36 cfs @ 10.59 fps)
- ↑ 3=Exfiltration (Passes 0.36 cfs of 0.49 cfs potential flow)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,975.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P11: Parking Lot G Wet Pond**

Inflow Area = 8.304 ac, 46.98% Impervious, Inflow Depth = 1.22" for 2-Year event  
 Inflow = 18.18 cfs @ 11.95 hrs, Volume= 0.846 af  
 Outflow = 0.14 cfs @ 24.03 hrs, Volume= 0.804 af, Atten= 99%, Lag= 724.9 min  
 Primary = 0.14 cfs @ 24.03 hrs, Volume= 0.804 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,534.10' Surf.Area= 24,527 sf Storage= 51,257 cf  
 Peak Elev= 1,535.90' @ 24.03 hrs Surf.Area= 31,095 sf Storage= 82,226 cf (30,969 cf above start)



**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= 2,415.5 min ( 3,242.3 - 826.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,527.00'	49,963 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,534.00'	77,661 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		127,624 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,527.00	3,398	312.2	0	0	3,398
1,528.00	4,364	331.3	3,871	3,871	4,428
1,529.00	5,386	350.1	4,866	8,737	5,502
1,530.00	6,465	369.0	5,917	14,654	6,642
1,531.00	7,600	387.8	7,025	21,679	7,836
1,532.00	8,792	406.7	8,189	29,868	9,095
1,533.00	10,040	425.5	9,409	39,277	10,408
1,534.00	11,345	444.4	10,686	49,963	11,787

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,534.00	12,700	621.7	0	0	12,700
1,535.00	17,927	661.0	15,239	15,239	16,762
1,536.00	19,949	587.1	18,929	34,168	24,129
1,537.00	21,739	606.0	20,838	55,005	26,020
1,538.00	23,585	624.8	22,656	77,661	27,961

Device	Routing	Invert	Outlet Devices
#1	Primary	1,530.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,530.00' / 1,528.00' S= 0.0200 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf
#2	Device 1	1,534.10'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,536.60'	<b>36.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,536.90'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.14 cfs @ 24.03 hrs HW=1,535.90' (Free Discharge)

- ↑1=Culvert (Passes 0.14 cfs of 56.39 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.14 cfs @ 6.32 fps)
- ↑3=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,534.10' (Free Discharge)

- ↑4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P12: Drop-off Parking Lot Soil Filter**

Inflow Area = 4.069 ac, 25.29% Impervious, Inflow Depth = 1.01" for 2-Year event  
 Inflow = 5.19 cfs @ 11.94 hrs, Volume= 0.341 af  
 Outflow = 0.12 cfs @ 18.49 hrs, Volume= 0.341 af, Atten= 98%, Lag= 393.2 min  
 Primary = 0.12 cfs @ 18.49 hrs, Volume= 0.341 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,466.33' Surf.Area= 3,179 sf Storage= 420 cf  
 Peak Elev= 1,470.70' @ 18.49 hrs Surf.Area= 4,513 sf Storage= 10,338 cf (9,919 cf above start)

Plug-Flow detention time= 991.2 min calculated for 0.331 af (97% of inflow)  
 Center-of-Mass det. time= 942.6 min ( 1,789.0 - 846.3 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,466.00'	30,846 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,466.00	3,179	247.1	0.0	0	0	3,179
1,467.50	3,179	247.1	40.0	1,907	1,907	3,550
1,469.00	3,179	247.1	40.0	1,907	3,815	3,920
1,470.00	3,948	265.9	100.0	3,557	7,371	4,730
1,472.00	5,657	303.6	100.0	9,554	16,925	6,530
1,473.00	7,016	329.2	100.0	6,324	23,250	7,858
1,474.00	8,192	360.5	100.0	7,596	30,846	9,610

Device	Routing	Invert	Outlet Devices
#1	Primary	1,466.00'	<b>18.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,466.00' / 1,464.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	1,466.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,466.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,472.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,473.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.12 cfs @ 18.49 hrs HW=1,470.70' (Free Discharge)  
 1=Outlet Culvert (Passes 0.12 cfs of 13.35 cfs potential flow)  
 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 10.00 fps)  
 3=Exfiltration (Passes 0.12 cfs of 0.31 cfs potential flow)  
 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,466.33' (Free Discharge)  
 5=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P13: Parking Lot H Wet Pond**

Inflow Area = 2.921 ac, 40.05% Impervious, Inflow Depth = 1.16" for 2-Year event  
 Inflow = 6.60 cfs @ 11.93 hrs, Volume= 0.283 af  
 Outflow = 0.10 cfs @ 17.72 hrs, Volume= 0.282 af, Atten= 98%, Lag= 347.2 min  
 Primary = 0.10 cfs @ 17.72 hrs, Volume= 0.282 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,567.00' Surf.Area= 11,858 sf Storage= 14,847 cf  
 Peak Elev= 1,568.07' @ 17.72 hrs Surf.Area= 15,790 sf Storage= 23,266 cf (8,419 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= 1,047.4 min ( 1,876.6 - 829.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,561.00'	14,847 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,567.00'	30,200 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		45,047 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,561.00	495	188.6	0	0	495
1,566.00	4,031	282.9	9,898	9,898	4,224
1,567.00	5,929	467.9	4,950	14,847	15,284

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,567.00	5,929	467.9	0	0	5,929
1,568.00	9,766	479.1	7,768	7,768	6,897
1,569.00	11,246	454.1	10,497	18,265	8,811
1,570.00	12,637	473.0	11,935	30,200	10,280

Device	Routing	Invert	Outlet Devices
#1	Primary	1,560.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,560.00' / 1,559.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf
#2	Device 1	1,567.00'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,568.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,569.00'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.10 cfs @ 17.72 hrs HW=1,568.07' (Free Discharge)

- ↑1=Culvert (Passes 0.10 cfs of 68.85 cfs potential flow)
  - ↑2=Orifice/Grate (Orifice Controls 0.10 cfs @ 4.77 fps)
  - ↑3=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,567.00' (Free Discharge)

- ↑4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P14: Timbers 1-7 Wet Pond**

Inflow Area = 7.622 ac, 23.79% Impervious, Inflow Depth = 0.77" for 2-Year event  
 Inflow = 11.48 cfs @ 11.94 hrs, Volume= 0.490 af  
 Outflow = 0.17 cfs @ 19.53 hrs, Volume= 0.486 af, Atten= 99%, Lag= 455.5 min  
 Primary = 0.17 cfs @ 19.53 hrs, Volume= 0.486 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,721.00' Surf.Area= 19,738 sf Storage= 31,523 cf  
 Peak Elev= 1,722.14' @ 19.53 hrs Surf.Area= 25,352 sf Storage= 46,107 cf (14,585 cf above start)

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)  
 Center-of-Mass det. time= 1,131.8 min ( 1,987.8 - 856.0 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,715.00'	31,523 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,721.00'	46,722 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		78,245 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,715.00	1,909	325.0	0	0	1,909
1,716.00	2,912	343.8	2,393	2,393	2,964
1,717.00	3,972	362.7	3,428	5,821	4,084
1,718.00	5,088	381.6	4,519	10,340	5,263
1,719.00	6,261	400.4	5,664	16,004	6,497
1,720.00	7,490	419.3	6,866	22,870	7,796
1,721.00	9,869	603.5	8,652	31,523	22,797

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,721.00	9,869	603.5	0	0	9,869
1,722.00	15,216	645.8	12,446	12,446	14,120
1,723.00	17,184	596.9	16,190	28,636	18,996
1,724.00	19,003	615.8	18,086	46,722	20,918

Device	Routing	Invert	Outlet Devices
#1	Primary	1,714.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,714.00' / 1,713.00' S= 0.0100 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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#2	Device 1	1,721.00'	<b>2.5" Vert. Orifice/Grate - Gravel Bench Underdrain</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,722.40'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,722.80'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.17 cfs @ 19.53 hrs HW=1,722.14' (Free Discharge)

- ↑ 1=Culvert (Passes 0.17 cfs of 69.24 cfs potential flow)
- ↑ 2=Orifice/Grate - Gravel Bench Underdrain(Orifice Controls 0.17 cfs @ 4.90 fps)
- ↑ 3=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,721.00' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P16: Timbers 10 Soil Filter**

Inflow Area =	0.660 ac, 35.00% Impervious, Inflow Depth = 0.93" for 2-Year event
Inflow =	1.20 cfs @ 11.93 hrs, Volume= 0.051 af
Outflow =	0.10 cfs @ 12.47 hrs, Volume= 0.054 af, Atten= 92%, Lag= 32.3 min
Primary =	0.10 cfs @ 12.47 hrs, Volume= 0.054 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 2,085.33' Surf.Area= 877 sf Storage= 116 cf

Peak Elev= 2,087.47' @ 12.47 hrs Surf.Area= 877 sf Storage= 865 cf (749 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 33.0 min ( 877.3 - 844.3 )

Volume	Invert	Avail.Storage	Storage Description			
#1	2,085.00'	9,992 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,085.00	877	192.0	0.0	0	0	877
2,086.50	877	192.0	40.0	526	526	1,165
2,088.00	877	192.0	40.0	526	1,052	1,453
2,090.00	2,142	229.7	100.0	2,926	3,979	2,787
2,092.00	3,964	290.6	100.0	6,013	9,992	5,361

Device	Routing	Invert	Outlet Devices
#1	Primary	2,085.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,085.00' / 2,084.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	2,085.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	2,085.00'	<b>3.000 in/hr Exfiltration over Surface area</b>

**55310.01-West Mountain-PR**

Type II 24-hr 2-Year Rainfall=2.40"

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#4	Device 1	2,091.40'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	2,091.50'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.10 cfs @ 12.47 hrs HW=2,087.46' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.10 cfs of 14.45 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.04 cfs @ 6.97 fps)
- ↑ 3=Exfiltration (Exfiltration Controls 0.06 cfs)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=2,085.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P17: Timbers 11-14 Soil Filter**

Inflow Area =	1.829 ac, 34.99% Impervious, Inflow Depth = 1.10" for 2-Year event
Inflow =	3.56 cfs @ 11.96 hrs, Volume= 0.168 af
Outflow =	0.11 cfs @ 14.72 hrs, Volume= 0.168 af, Atten= 97%, Lag= 165.1 min
Primary =	0.11 cfs @ 14.72 hrs, Volume= 0.168 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 2,119.33' Surf.Area= 2,430 sf Storage= 321 cf

Peak Elev= 2,122.61' @ 14.72 hrs Surf.Area= 2,867 sf Storage= 4,538 cf (4,217 cf above start)

Plug-Flow detention time= 541.4 min calculated for 0.160 af (96% of inflow)

Center-of-Mass det. time= 487.8 min ( 1,323.7 - 835.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	2,119.00'	13,840 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,119.00	2,430	238.8	0.0	0	0	2,430
2,120.50	2,430	238.8	40.0	1,458	1,458	2,788
2,122.00	2,430	238.8	40.0	1,458	2,916	3,146
2,124.00	3,989	280.8	100.0	6,355	9,271	4,959
2,125.00	5,174	303.4	100.0	4,569	13,840	6,050

Device	Routing	Invert	Outlet Devices
#1	Primary	2,119.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,119.00' / 2,117.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	2,119.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	2,119.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	2,123.70'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600

#5 Secondary 2,124.00' Limited to weir flow at low heads  
**6.0' long x 8.0' breadth Broad-Crested Rectangular Weir**  
 Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00  
 2.50 3.00 3.50 4.00 4.50 5.00 5.50  
 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64  
 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.11 cfs @ 14.72 hrs HW=2,122.61' (Free Discharge)

- 1=Outlet Culvert (Passes 0.11 cfs of 19.30 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.11 cfs @ 8.64 fps)
- 3=Exfiltration (Passes 0.11 cfs of 0.20 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,119.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P2: Townhomes 3-6 Soil Filter**

Inflow Area = 3.212 ac, 25.50% Impervious, Inflow Depth = 0.72" for 2-Year event  
 Inflow = 3.34 cfs @ 12.03 hrs, Volume= 0.194 af  
 Outflow = 0.10 cfs @ 16.72 hrs, Volume= 0.194 af, Atten= 97%, Lag= 281.0 min  
 Primary = 0.10 cfs @ 16.72 hrs, Volume= 0.194 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,739.33' Surf.Area= 3,904 sf Storage= 515 cf  
 Peak Elev= 1,742.19' @ 16.72 hrs Surf.Area= 4,079 sf Storage= 5,460 cf (4,944 cf above start)

Plug-Flow detention time= 730.4 min calculated for 0.182 af (94% of inflow)  
 Center-of-Mass det. time= 648.4 min ( 1,515.7 - 867.4 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,739.00'	28,913 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,739.00	3,904	312.1	0.0	0	0	3,904
1,740.50	3,904	312.1	40.0	2,342	2,342	4,372
1,742.00	3,904	312.1	40.0	2,342	4,685	4,840
1,744.00	5,890	349.8	100.0	9,726	14,411	6,933
1,746.00	8,703	412.7	100.0	14,502	28,913	10,826

Device	Routing	Invert	Outlet Devices
#1	Primary	1,738.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,738.00' / 1,736.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,739.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,739.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,743.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

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#5 Secondary 1,744.00' **4.0' long x 8.0' breadth Broad-Crested Rectangular Weir**  
 Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00  
 2.50 3.00 3.50 4.00 4.50 5.00 5.50  
 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64  
 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.10 cfs @ 16.72 hrs HW=1,742.19' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.10 cfs of 21.34 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.10 cfs @ 8.06 fps)
- ↑ 3=Exfiltration (Passes 0.10 cfs of 0.28 cfs potential flow)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,739.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P3: Townhomes 1-2 Soil Filter**

Inflow Area = 7.421 ac, 27.30% Impervious, Inflow Depth = 0.87" for 2-Year event  
 Inflow = 9.03 cfs @ 11.98 hrs, Volume= 0.538 af  
 Outflow = 0.21 cfs @ 18.18 hrs, Volume= 0.538 af, Atten= 98%, Lag= 372.3 min  
 Primary = 0.21 cfs @ 18.18 hrs, Volume= 0.538 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,751.33' Surf.Area= 5,240 sf Storage= 692 cf  
 Peak Elev= 1,755.58' @ 18.18 hrs Surf.Area= 6,892 sf Storage= 15,824 cf (15,133 cf above start)

Plug-Flow detention time= 890.9 min calculated for 0.522 af (97% of inflow)  
 Center-of-Mass det. time= 844.2 min ( 1,697.8 - 853.6 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,751.00'	57,886 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,751.00	5,240	336.6	0.0	0	0	5,240
1,752.50	5,240	336.6	40.0	3,144	3,144	5,745
1,754.00	5,240	336.6	40.0	3,144	6,288	6,250
1,756.00	7,373	374.3	100.0	12,552	18,840	8,498
1,758.00	9,731	412.0	100.0	17,050	35,890	10,984
1,760.00	12,316	449.7	100.0	21,996	57,886	13,709

Device	Routing	Invert	Outlet Devices
#1	Primary	1,750.00'	<b>18.0" Round Outlet Culvert</b> L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,750.00' / 1,748.00' S= 0.0400 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	1,751.33'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,751.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,757.50'	<b>24.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,758.00'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>



Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

Primary OutFlow Max=0.21 cfs @ 18.18 hrs HW=1,755.58' (Free Discharge)

- 1=Outlet Culvert (Passes 0.21 cfs of 14.76 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.21 cfs @ 9.83 fps)
- 3=Exfiltration (Passes 0.21 cfs of 0.48 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,751.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P4: Bottom Road A Soil Filter**

Inflow Area =	2.357 ac, 32.63% Impervious, Inflow Depth = 1.06" for 2-Year event
Inflow =	2.91 cfs @ 11.99 hrs, Volume= 0.209 af
Outflow =	0.14 cfs @ 14.67 hrs, Volume= 0.209 af, Atten= 95%, Lag= 161.1 min
Primary =	0.14 cfs @ 14.67 hrs, Volume= 0.209 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,761.33' Surf.Area= 802 sf Storage= 106 cf

Peak Elev= 1,766.79' @ 14.67 hrs Surf.Area= 2,335 sf Storage= 5,218 cf (5,112 cf above start)

Plug-Flow detention time= 468.4 min calculated for 0.207 af (99% of inflow)

Center-of-Mass det. time= 453.3 min ( 1,296.2 - 843.0 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,761.00'	16,287 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,761.00	802	158.2	0.0	0	0	802
1,762.50	802	158.2	40.0	481	481	1,039
1,764.00	802	158.2	40.0	481	962	1,277
1,766.00	1,864	195.9	100.0	2,592	3,555	2,396
1,768.00	3,153	233.6	100.0	4,961	8,516	3,755
1,770.00	4,668	271.3	100.0	7,772	16,287	5,351

Device	Routing	Invert	Outlet Devices
#1	Primary	1,760.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,760.00' / 1,758.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,761.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,761.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,768.70'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,768.80'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>

Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

Primary OutFlow Max=0.14 cfs @ 14.67 hrs HW=1,766.79' (Free Discharge)

- 1=Outlet Culvert (Passes 0.14 cfs of 28.74 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 11.19 fps)
- 3=Exfiltration (Passes 0.14 cfs of 0.16 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,761.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P5: Roads A and F Soil Filter**

Inflow Area =	4.982 ac, 30.33% Impervious, Inflow Depth = 0.77" for 2-Year event
Inflow =	4.92 cfs @ 11.97 hrs, Volume= 0.320 af
Outflow =	0.12 cfs @ 19.04 hrs, Volume= 0.320 af, Atten= 98%, Lag= 423.9 min
Primary =	0.12 cfs @ 19.04 hrs, Volume= 0.320 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,831.33' Surf.Area= 3,217 sf Storage= 425 cf

Peak Elev= 1,835.48' @ 19.04 hrs Surf.Area= 4,476 sf Storage= 9,544 cf (9,120 cf above start)

Plug-Flow detention time= 953.6 min calculated for 0.310 af (97% of inflow)

Center-of-Mass det. time= 903.4 min ( 1,765.5 - 862.0 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,831.00'	31,588 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,831.00	3,217	222.2	0.0	0	0	3,217
1,832.50	3,217	222.2	40.0	1,930	1,930	3,550
1,834.00	3,217	222.2	40.0	1,930	3,860	3,884
1,838.00	7,083	359.0	100.0	20,098	23,958	10,317
1,839.00	8,190	378.0	100.0	7,630	31,588	11,490

Device	Routing	Invert	Outlet Devices
#1	Primary	1,830.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,830.00' / 1,828.00' S= 0.0200 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,831.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,831.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,836.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,836.80'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

	2.50	3.00	3.50	4.00	4.50	5.00	5.50
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66
	2.64	2.65	2.65	2.66	2.66	2.68	2.70

Primary OutFlow Max=0.12 cfs @ 19.04 hrs HW=1,835.48' (Free Discharge)

- 1=Culvert (Passes 0.12 cfs of 25.29 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 9.74 fps)
- 3=Exfiltration (Passes 0.12 cfs of 0.31 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,831.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

### Summary for Pond P6: Lot R43 Soil Filter

Inflow Area = 1.084 ac, 37.36% Impervious, Inflow Depth = 1.10" for 2-Year event  
 Inflow = 1.73 cfs @ 12.03 hrs, Volume= 0.099 af  
 Outflow = 0.04 cfs @ 16.47 hrs, Volume= 0.099 af, Atten= 97%, Lag= 265.8 min  
 Primary = 0.04 cfs @ 16.47 hrs, Volume= 0.099 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,823.33' Surf.Area= 2,234 sf Storage= 295 cf  
 Peak Elev= 1,826.17' @ 16.47 hrs Surf.Area= 2,372 sf Storage= 3,066 cf (2,771 cf above start)

Plug-Flow detention time= 897.3 min calculated for 0.093 af (93% of inflow)  
 Center-of-Mass det. time= 795.8 min ( 1,637.2 - 841.3 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,823.00'	8,962 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,823.00	2,234	252.5	0.0	0	0	2,234
1,824.50	2,234	252.5	40.0	1,340	1,340	2,613
1,826.00	2,234	252.5	40.0	1,340	2,681	2,992
1,828.00	4,145	312.6	100.0	6,281	8,962	5,753

Device	Routing	Invert	Outlet Devices
#1	Primary	1,823.00'	<b>15.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,823.00' / 1,822.00' S= 0.0100 '/ Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#2	Device 1	1,823.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,823.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,827.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.04 cfs @ 16.47 hrs HW=1,826.17' (Free Discharge)

- 1=Outlet Culvert (Passes 0.04 cfs of 7.44 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.04 cfs @ 8.05 fps)
- 3=Exfiltration (Passes 0.04 cfs of 0.16 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

**Summary for Pond P7: Lot R42 Soil Filter**

Inflow Area = 1.546 ac, 30.92% Impervious, Inflow Depth = 0.93" for 2-Year event  
 Inflow = 1.80 cfs @ 12.08 hrs, Volume= 0.119 af  
 Outflow = 0.07 cfs @ 15.76 hrs, Volume= 0.119 af, Atten= 96%, Lag= 220.8 min  
 Primary = 0.07 cfs @ 15.76 hrs, Volume= 0.119 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,878.33' Surf.Area= 1,972 sf Storage= 260 cf  
 Peak Elev= 1,881.45' @ 15.76 hrs Surf.Area= 2,217 sf Storage= 3,309 cf (3,048 cf above start)

Plug-Flow detention time= 638.1 min calculated for 0.113 af (95% of inflow)  
 Center-of-Mass det. time= 574.8 min ( 1,431.1 - 856.2 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,878.00'	26,005 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,878.00	1,972	181.3	0.0	0	0	1,972
1,879.50	1,972	181.3	40.0	1,183	1,183	2,244
1,881.00	1,972	181.3	40.0	1,183	2,366	2,516
1,883.00	3,173	219.0	100.0	5,098	7,464	3,782
1,885.00	4,600	256.7	100.0	7,729	15,193	5,286
1,887.00	6,254	294.4	100.0	10,812	26,005	7,029

Device	Routing	Invert	Outlet Devices
#1	Primary	1,878.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,878.00' / 1,876.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,878.33'	<b>1.2" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,878.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,882.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,883.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.07 cfs @ 15.76 hrs HW=1,881.45' (Free Discharge)

- 1=Outlet Culvert (Passes 0.07 cfs of 18.69 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.07 cfs @ 8.44 fps)
- 3=Exfiltration (Passes 0.07 cfs of 0.15 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,878.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P8: Lot R40 Soil Filter**

Inflow Area = 1.823 ac, 26.66% Impervious, Inflow Depth = 0.87" for 2-Year event  
 Inflow = 2.14 cfs @ 12.06 hrs, Volume= 0.132 af  
 Outflow = 0.05 cfs @ 19.06 hrs, Volume= 0.132 af, Atten= 98%, Lag= 420.2 min  
 Primary = 0.05 cfs @ 19.06 hrs, Volume= 0.132 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,924.33' Surf.Area= 2,235 sf Storage= 295 cf  
 Peak Elev= 1,927.61' @ 19.06 hrs Surf.Area= 2,609 sf Storage= 4,166 cf (3,871 cf above start)

Plug-Flow detention time= 1,069.9 min calculated for 0.126 af (95% of inflow)  
 Center-of-Mass det. time= 984.9 min ( 1,843.1 - 858.2 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,924.00'	12,739 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,924.00	2,235	198.8	0.0	0	0	2,235
1,925.50	2,235	198.8	40.0	1,341	1,341	2,533
1,927.00	2,235	198.8	40.0	1,341	2,682	2,831
1,928.00	2,859	217.6	100.0	2,541	5,223	3,488
1,929.00	3,828	326.8	100.0	3,332	8,554	8,227
1,930.00	4,552	295.9	100.0	4,185	12,739	9,789

Device	Routing	Invert	Outlet Devices
#1	Primary	1,924.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,924.00' / 1,922.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,924.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,924.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,928.60'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,929.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.05 cfs @ 19.06 hrs HW=1,927.61' (Free Discharge)

- 1=Outlet Culvert (Passes 0.05 cfs of 19.31 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 8.67 fps)
- 3=Exfiltration (Passes 0.05 cfs of 0.18 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,924.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P9: Lot R51 Soil Filter**

Inflow Area = 1.248 ac, 21.63% Impervious, Inflow Depth = 0.81" for 2-Year event  
 Inflow = 1.73 cfs @ 11.98 hrs, Volume= 0.084 af  
 Outflow = 0.05 cfs @ 15.87 hrs, Volume= 0.084 af, Atten= 97%, Lag= 233.2 min  
 Primary = 0.05 cfs @ 15.87 hrs, Volume= 0.084 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,941.33' Surf.Area= 1,440 sf Storage= 190 cf  
 Peak Elev= 1,944.39' @ 15.87 hrs Surf.Area= 1,645 sf Storage= 2,332 cf (2,142 cf above start)

Plug-Flow detention time= 657.1 min calculated for 0.080 af (95% of inflow)  
 Center-of-Mass det. time= 589.4 min ( 1,442.9 - 853.5 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,941.00'	22,064 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,941.00	1,440	179.7	0.0	0	0	1,440
1,942.50	1,440	179.7	40.0	864	864	1,710
1,944.00	1,440	179.7	40.0	864	1,728	1,979
1,946.00	2,631	217.4	100.0	4,012	5,740	3,235
1,948.00	4,049	255.1	100.0	6,629	12,369	4,729
1,950.00	5,693	292.8	100.0	9,695	22,064	6,462

Device	Routing	Invert	Outlet Devices
#1	Primary	1,940.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,940.00' / 1,938.00' S= 0.0200 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,941.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,941.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,945.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,945.80'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.05 cfs @ 15.87 hrs HW=1,944.39' (Free Discharge)

- 1=Outlet Culvert (Passes 0.05 cfs of 21.99 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 8.37 fps)
- 3=Exfiltration (Passes 0.05 cfs of 0.11 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,941.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Link SP1:**

Inflow Area = 327.994 ac, 5.46% Impervious, Inflow Depth > 0.63" for 2-Year event  
 Inflow = 86.53 cfs @ 12.59 hrs, Volume= 17.310 af  
 Primary = 86.53 cfs @ 12.59 hrs, Volume= 17.310 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP10:**

Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP11:**

Inflow Area = 6.579 ac, 3.57% Impervious, Inflow Depth = 0.72" for 2-Year event  
 Inflow = 6.60 cfs @ 12.03 hrs, Volume= 0.397 af  
 Primary = 6.60 cfs @ 12.03 hrs, Volume= 0.397 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP12:**

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 0.72" for 2-Year event  
 Inflow = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af  
 Primary = 11.40 cfs @ 12.18 hrs, Volume= 1.260 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP13:**

Inflow Area = 12.275 ac, 33.70% Impervious, Inflow Depth > 0.99" for 2-Year event  
 Inflow = 0.73 cfs @ 12.05 hrs, Volume= 1.017 af  
 Primary = 0.73 cfs @ 12.05 hrs, Volume= 1.017 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP14:**

Inflow Area = 1.238 ac, 3.31% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 1.06 cfs @ 12.10 hrs, Volume= 0.075 af  
Primary = 1.06 cfs @ 12.10 hrs, Volume= 0.075 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP15:**

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 0.80" for 2-Year event  
Inflow = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af  
Primary = 9.18 cfs @ 12.13 hrs, Volume= 1.858 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP16:**

Inflow Area = 1.173 ac, 3.15% Impervious, Inflow Depth = 0.59" for 2-Year event  
Inflow = 0.77 cfs @ 12.11 hrs, Volume= 0.058 af  
Primary = 0.77 cfs @ 12.11 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP17:**

Inflow Area = 4.548 ac, 20.07% Impervious, Inflow Depth = 0.71" for 2-Year event  
Inflow = 1.78 cfs @ 11.94 hrs, Volume= 0.269 af  
Primary = 1.78 cfs @ 11.94 hrs, Volume= 0.269 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP18:**

Inflow Area = 0.186 ac, 11.29% Impervious, Inflow Depth = 0.77" for 2-Year event  
Inflow = 0.27 cfs @ 11.95 hrs, Volume= 0.012 af  
Primary = 0.27 cfs @ 11.95 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP19:**

Inflow Area = 0.648 ac, 3.70% Impervious, Inflow Depth = 0.63" for 2-Year event  
Inflow = 0.56 cfs @ 12.05 hrs, Volume= 0.034 af  
Primary = 0.56 cfs @ 12.05 hrs, Volume= 0.034 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs



**Summary for Link SP2:**

Inflow Area = 1.275 ac, 5.49% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 0.89 cfs @ 12.17 hrs, Volume= 0.077 af  
Primary = 0.89 cfs @ 12.17 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP20:**

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 0.60" for 2-Year event  
Inflow = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af  
Primary = 13.64 cfs @ 12.43 hrs, Volume= 2.525 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP21:**

Inflow Area = 7.874 ac, 25.98% Impervious, Inflow Depth = 0.86" for 2-Year event  
Inflow = 0.61 cfs @ 12.06 hrs, Volume= 0.565 af  
Primary = 0.61 cfs @ 12.06 hrs, Volume= 0.565 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP22:**

Inflow Area = 0.328 ac, 7.62% Impervious, Inflow Depth = 0.77" for 2-Year event  
Inflow = 0.35 cfs @ 12.05 hrs, Volume= 0.021 af  
Primary = 0.35 cfs @ 12.05 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP23:**

Inflow Area = 2.727 ac, 29.63% Impervious, Inflow Depth = 1.03" for 2-Year event  
Inflow = 0.58 cfs @ 12.01 hrs, Volume= 0.234 af  
Primary = 0.58 cfs @ 12.01 hrs, Volume= 0.234 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP24:**

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af  
Primary = 10.49 cfs @ 12.14 hrs, Volume= 0.831 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP3:**

Inflow Area = 4.241 ac, 25.14% Impervious, Inflow Depth = 1.00" for 2-Year event  
Inflow = 0.31 cfs @ 12.07 hrs, Volume= 0.354 af  
Primary = 0.31 cfs @ 12.07 hrs, Volume= 0.354 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP4:**

Inflow Area = 62.647 ac, 2.01% Impervious, Inflow Depth = 0.64" for 2-Year event  
Inflow = 20.35 cfs @ 12.12 hrs, Volume= 3.329 af  
Primary = 20.35 cfs @ 12.12 hrs, Volume= 3.329 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP5:**

Inflow Area = 2.355 ac, 0.51% Impervious, Inflow Depth = 0.68" for 2-Year event  
Inflow = 1.34 cfs @ 12.23 hrs, Volume= 0.133 af  
Primary = 1.34 cfs @ 12.23 hrs, Volume= 0.133 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP6:**

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 0.67" for 2-Year event  
Inflow = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af  
Primary = 30.78 cfs @ 12.18 hrs, Volume= 4.198 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP7:**

Inflow Area = 0.872 ac, 6.42% Impervious, Inflow Depth = 0.72" for 2-Year event  
Inflow = 0.83 cfs @ 12.06 hrs, Volume= 0.053 af  
Primary = 0.83 cfs @ 12.06 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP8:**

Inflow Area = 0.344 ac, 19.19% Impervious, Inflow Depth = 0.87" for 2-Year event  
Inflow = 0.43 cfs @ 12.04 hrs, Volume= 0.025 af  
Primary = 0.43 cfs @ 12.04 hrs, Volume= 0.025 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP9:**

Inflow Area = 0.148 ac, 24.32% Impervious, Inflow Depth = 0.93" for 2-Year event  
Inflow = 0.20 cfs @ 12.04 hrs, Volume= 0.011 af  
Primary = 0.20 cfs @ 12.04 hrs, Volume= 0.011 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Subcatchment 1S: WS 3**

Runoff = 0.39 cfs @ 12.06 hrs, Volume= 0.024 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.032	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.103	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.172	82	Weighted Average
0.135		78.49% Pervious Area
0.037		21.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	74	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.4	115	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
14.2	189	Total			

**Summary for Subcatchment 2S: WS 1**

Runoff = 2.76 cfs @ 12.54 hrs, Volume= 0.403 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.019	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.414	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.134	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.567	77	Weighted Average
3.548		99.47% Pervious Area
0.019		0.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	37	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	102	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
36.2	150	0.0700	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	133	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	138	0.0600	10.43	458.93	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050
0.8	505	0.0600	10.43	458.93	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050
51.7	1,065	Total			

**Summary for Subcatchment 3S: WS 1-1**

Runoff = 2.90 cfs @ 12.10 hrs, Volume= 0.205 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.863	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.472	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.479	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.814	77	Weighted Average
1.814		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.9	105	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	60	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.3	328	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
17.3	593	Total			

**Summary for Subcatchment 4S: WS 1-2**

Runoff = 4.59 cfs @ 12.04 hrs, Volume= 0.270 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.685	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.351	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.002	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.130	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.114	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.282	78	Weighted Average
2.280		99.91% Pervious Area
0.002		0.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	194	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	53	0.4900	1.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	327	0.1000	13.40	563.00	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
12.0	674	Total			

**Summary for Subcatchment 5S: WS 1-3**

Runoff = 12.10 cfs @ 12.14 hrs, Volume= 0.944 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.319	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.938	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
4.092	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.349	77	Weighted Average
8.349		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.1700	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
3.4	596	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
10.1	585	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
20.5	1,281	Total			



**Summary for Subcatchment 6S: WS 1-4**

Runoff = 25.23 cfs @ 12.28 hrs, Volume= 2.621 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
2.284	70	Existing Woods, Good, HSG C
8.316	77	Existing Woods, Good, HSG D
0.588	70	Proposed Woods, Good, HSG C
1.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.088	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.085	71	Proposed meadow, ski trail, HSG C
6.341	78	Proposed meadow, ski trail, HSG D
0.360	71	Proposed meadow, ski lift, HSG C
2.079	78	Proposed meadow, ski lift, HSG D
24.316	76	Weighted Average
24.228		99.64% Pervious Area
0.088		0.36% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	51	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.8	294	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	760	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.0	482	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.5	447	0.1800	2.97		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.1	637	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.1	138	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
31.6	2,809	Total			

**Summary for Subcatchment 7S: WS 1-5**

Runoff = 37.15 cfs @ 12.55 hrs, Volume= 5.604 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.022	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.752	71	Existing meadow, non-grazed, HSG C
6.694	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
23.036	70	Existing Woods, Good, HSG C
11.631	77	Existing Woods, Good, HSG D
2.098	70	Proposed Woods, Good, HSG C
0.523	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.186	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
7.773	71	Proposed meadow, ski trail, HSG C
4.678	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
<hr/>		
60.422	73	Weighted Average
60.371		99.92% Pervious Area
0.051		0.08% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	396	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	367	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	394	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	361	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.3	252	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.6	459	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	334	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
51.0	6,226	Total			

**Summary for Subcatchment 8S: WS 1-6**

Runoff = 2.18 cfs @ 11.93 hrs, Volume= 0.094 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.181	98	Proposed impervious to be treated, HSG C
0.050	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.262	71	Proposed developed meadow to be treated, HSG C
0.111	78	Proposed developed meadow to be treated, HSG D
0.056	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.660	82	Weighted Average
0.429		65.00% Pervious Area
0.231		35.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.5	80	0.0300	2.60		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.2	107	0.1200	10.21	8.02	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
2.1	287	Total			

**Summary for Subcatchment 9S: WS 1-7**

Runoff = 27.78 cfs @ 12.31 hrs, Volume= 3.041 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
10.166	70	Existing Woods, Good, HSG C
8.946	77	Existing Woods, Good, HSG D
1.118	70	Proposed Woods, Good, HSG C
1.643	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.068	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.838	71	Proposed meadow, ski trail, HSG C
5.370	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
31.149	74	Weighted Average
31.081		99.78% Pervious Area
0.068		0.22% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.2700	0.29		<b>Sheet Flow,</b> n= 0.240 P2= 2.40"
1.0	229	0.2700	3.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.5	216	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.1	483	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	251	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	311	0.2300	3.36		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.1	863	0.2500	3.50		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.2	956	0.2100	7.19	21.56	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
7.1	413	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	509	0.1500	10.18	91.58	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00' n= 0.050
33.2	4,331	Total			

**Summary for Subcatchment 10S: WS 1A**

Runoff = 3.62 cfs @ 12.24 hrs, Volume= 0.348 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.076	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.076	77	Weighted Average
3.076		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	31	0.0600	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.2	191	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	59	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	193	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	161	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	107	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	79	0.0500	9.26	314.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050
28.5	821	Total			



**Summary for Subcatchment 11S: WS 1B**

Runoff = 11.90 cfs @ 12.10 hrs, Volume= 0.816 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.425	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.072	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
5.568	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.084	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.429	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.578	79	Weighted Average
6.069		92.26% Pervious Area
0.509		7.74% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.7	336	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch
0.7	339	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	336	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	278	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	283	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.3	118	0.0800	7.46	22.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.4	164	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.1	83	0.1400	9.87	29.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.3	505	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
16.6	2,480	Total			

**Summary for Subcatchment 12S: WS 1B1 - Lot G**

Runoff = 8.49 cfs @ 11.93 hrs, Volume= 0.368 af, Depth= 1.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.145	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.007	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.765	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.438	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.030	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.385	84	Weighted Average
1.620		67.92% Pervious Area
0.765		32.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.5	81	0.0200	2.87		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.3	304	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.2	485	Total			

**Summary for Subcatchment 13S: WS 1C**

Runoff = 3.94 cfs @ 12.17 hrs, Volume= 0.329 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.260	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.053	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.261	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.908	77	Weighted Average
2.908		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	100	0.0600	0.16		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.2	122	0.0600	1.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	46	0.4800	1.73		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	221	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	154	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	283	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
2.0	88	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
22.9	1,014	Total			

**Summary for Subcatchment 14S: WS 1C1**

Runoff = 30.17 cfs @ 12.12 hrs, Volume= 2.204 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
3.283	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
3.459	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
6.788	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.702	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.321	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.998	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
15.551	82	Weighted Average
12.268		78.89% Pervious Area
3.283		21.11% Impervious Area

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	172	0.1500	6.24		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
1.7	164	0.0500	1.57		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	77	0.3100	3.90		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	157	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.9	350	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.5	219	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.5	251	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	316	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.1	73	0.1900	11.50	34.51	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	300	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	179	0.0200	3.73	11.20	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.0	342	0.0500	5.90	17.70	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
18.9	2,648	Total			

**Summary for Subcatchment 15S: WS 1C2- Ex lot E**

Runoff = 22.46 cfs @ 11.96 hrs, Volume= 1.074 af, Depth= 2.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
3.136	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.703	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.869	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.211	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.919	88	Weighted Average
2.783		47.02% Pervious Area
3.136		52.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0500	1.72		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.4	90	0.0500	3.60		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
1.2	114	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	356	0.0300	4.57	13.71	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.2	195	0.0300	2.79		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
0.1	31	0.3900	10.05		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
5.2	886	Total			

**Summary for Subcatchment 16S: WS 1D- Ex Timbers**

Runoff = 43.85 cfs @ 12.57 hrs, Volume= 6.599 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
4.120	98	Untreated existing impervious, HSG C
1.443	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
13.418	71	Existing meadow, non-grazed, HSG C
9.815	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
16.186	70	Existing Woods, Good, HSG C
12.572	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.473	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.044	98	Untreated proposed impervious, HSG D
0.454	71	Proposed developed meadow, non-grazed, HSG C
1.984	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.717	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
61.234	76	Weighted Average
55.619		90.83% Pervious Area
5.615		9.17% Impervious Area



**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	60	0.2300	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	130	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	182	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	394	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	298	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	183	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	230	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	254	0.1000	8.17	114.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.3	159	0.1300	9.31	130.40	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.3	160	0.1100	8.57	119.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
2.2	165	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	245	0.2600	1.27		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	192	0.1000	8.17	114.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.1	231	0.1300	29.21	408.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.022
4.5	280	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	134	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	334	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	168	0.0800	16.81	235.27	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
1.1	398	0.0100	5.94	83.18	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
0.5	334	0.0400	11.88	166.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
0.2	176	0.1900	15.54	217.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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n= 0.050 Mountain streams w/large boulders

53.2 4,707 Total

**Summary for Subcatchment 17S: WS 1D1**

Runoff = 22.18 cfs @ 11.93 hrs, Volume= 0.946 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.085	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.048	71	Existing meadow, non-grazed, HSG C
0.115	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.722	70	Existing Woods, Good, HSG C
0.593	77	Existing Woods, Good, HSG D
0.001	70	Proposed Woods, Good, HSG C
0.067	77	Proposed Woods, Good, HSG D
1.711	98	Proposed impervious to be treated, HSG C
0.017	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
3.438	71	Proposed developed meadow to be treated, HSG C
0.822	78	Proposed developed meadow to be treated, HSG D
0.003	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
7.622	79	Weighted Average
5.809		76.21% Pervious Area
1.813		23.79% Impervious Area

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1100	2.36		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.0	19	0.1100	6.73		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.3	69	0.0600	3.67		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.5	427	0.1200	13.38	23.65	<b>Pipe Channel,</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.020 Corrugated PE, corrugated interior
0.2	316	0.1900	31.50	125.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.016 Asphalt, rough
0.1	118	0.2400	22.93	72.04	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
0.6	372	0.1500	10.92	43.69	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.041 Riprap, 2-inch
2.4	1,421	Total			

**Summary for Subcatchment 18S: WS 1D2**

Runoff = 6.56 cfs @ 12.06 hrs, Volume= 0.421 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.962	70	Existing Woods, Good, HSG C
0.049	77	Existing Woods, Good, HSG D
0.375	70	Proposed Woods, Good, HSG C
0.139	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.277	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
2.431	71	Proposed meadow, ski trail, HSG C
0.552	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.785	72	Weighted Average
4.785		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
6.2	1,123	0.1890	3.04		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.4	1,223	Total			

**Summary for Subcatchment 19S: WS 1D3**

Runoff = 5.31 cfs @ 11.99 hrs, Volume= 0.265 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.374	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.349	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.899	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.003	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.092	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.717	74	Weighted Average
2.340		86.12% Pervious Area
0.377		13.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	93	0.0500	1.69		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
4.5	259	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	220	0.1100	5.20	15.60	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.8	70	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	89	0.1100	5.20	15.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
7.2	731	Total			

**Summary for Subcatchment 20S: WS 1D4**

Runoff = 1.91 cfs @ 12.05 hrs, Volume= 0.115 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.063	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.295	71	Existing meadow, non-grazed, HSG C
0.074	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.307	70	Existing Woods, Good, HSG C
0.158	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.144	71	Proposed developed meadow, non-grazed, HSG C
0.041	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.119	75	Weighted Average
1.019		91.06% Pervious Area
0.100		8.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	59	0.2200	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	157	0.2200	3.28		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	179	0.1000	4.96	14.88	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.2	395	Total			

**Summary for Subcatchment 21S: Untreated from Timbers**

Runoff = 13.63 cfs @ 11.95 hrs, Volume= 0.614 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.234	98	Untreated proposed impervious, HSG C
0.894	98	Untreated proposed impervious, HSG D
1.026	71	Proposed developed meadow, non-grazed, HSG C
2.185	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.186	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.525	81	Weighted Average
3.397		75.07% Pervious Area
1.128		24.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	92	0.1000	2.23		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.3	105	0.1700	6.18		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
3.4	1,120	0.1100	5.56	22.23	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
4.4	1,317	Total			

**Summary for Subcatchment 22S: WS 1D6**

Runoff = 6.18 cfs @ 11.96 hrs, Volume= 0.294 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.103	98	Proposed impervious to be treated, HSG C
0.537	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.127	71	Proposed developed meadow to be treated, HSG C
1.062	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.829	85	Weighted Average
1.189		65.01% Pervious Area
0.640		34.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	66	0.2700	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	89	0.0200	2.12		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.5	310	0.0600	11.11	8.73	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
5.4	465	Total			

**Summary for Subcatchment 23S: WS 1D7**

Runoff = 8.87 cfs @ 12.42 hrs, Volume= 1.151 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"



**55310.01-West Mountain-PR***Type II 24-hr 10-Year Rainfall=3.40"*

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
2.084	71	Existing meadow, non-grazed, HSG C
3.608	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.198	70	Existing Woods, Good, HSG C
1.644	77	Existing Woods, Good, HSG D
0.169	70	Proposed Woods, Good, HSG C
0.253	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.036	98	Untreated proposed impervious, HSG D
0.091	71	Proposed developed meadow, non-grazed, HSG C
0.164	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.288	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
11.787	74	Weighted Average
11.743		99.63% Pervious Area
0.044		0.37% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.5	89	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.4	228	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	185	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	217	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	273	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	293	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	264	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	251	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	300	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	194	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	138	0.2200	10.15	30.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050
42.2	2,532	Total			

**Summary for Subcatchment 24S: WS 2**

Runoff = 1.84 cfs @ 12.16 hrs, Volume= 0.151 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.070	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.145	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.048	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.012	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.275	78	Weighted Average
1.205		94.51% Pervious Area
0.070		5.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	35	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.7	242	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	176	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	129	0.0500	1.10	3.30	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.220
22.5	582	Total			

**Summary for Subcatchment 25S: WS 2A**

Runoff = 8.23 cfs @ 11.93 hrs, Volume= 0.363 af, Depth= 2.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.010	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.002	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.910	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.162	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.084	87	Weighted Average
1.164		55.85% Pervious Area
0.920		44.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0300	1.40		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.6	457	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.8	557	Total			

**Summary for Subcatchment 27S: WS 3A**

Runoff = 2.54 cfs @ 12.25 hrs, Volume= 0.246 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.824	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.161	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.048	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.040	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.411	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.480	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.985	79	Weighted Average
1.876		94.51% Pervious Area
0.109		5.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.1	136	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.6	241	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	18	0.4400	1.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	159	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.7	160	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	161	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
29.5	928	Total			

**Summary for Subcatchment 28S: WS 4**

Runoff = 8.00 cfs @ 12.06 hrs, Volume= 0.493 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.009	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.993	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.257	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.104	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.363	77	Weighted Average
4.354		99.79% Pervious Area
0.009		0.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.1	269	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	100	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	436	0.1100	24.47	2,741.07	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=8.00' Z= 1.0 '/' Top.W=22.00' n= 0.050 Mountain streams w/large boulders
13.2	905	Total			

**Summary for Subcatchment 29S: WS 4A**

Runoff = 37.41 cfs @ 12.05 hrs, Volume= 2.228 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.622	70	Existing Woods, Good, HSG C
10.916	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
1.944	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.218	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
3.977	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
20.677	76	Weighted Average
20.677		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.1900	0.25		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.0	180	0.1900	3.05		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	2,562	0.1550	9.80	58.80	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
12.1	2,842	Total			

**Summary for Subcatchment 30S: WS 4B**

Runoff = 12.34 cfs @ 12.18 hrs, Volume= 1.055 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.657	70	Existing Woods, Good, HSG C
4.078	77	Existing Woods, Good, HSG D
0.184	70	Proposed Woods, Good, HSG C
1.364	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.216	98	Untreated proposed impervious, HSG C
0.393	98	Untreated proposed impervious, HSG D
0.593	71	Proposed developed meadow, non-grazed, HSG C
1.416	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.006	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.907	78	Weighted Average
8.298		93.16% Pervious Area
0.609		6.84% Impervious Area



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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.6	105	0.1900	3.05		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	80	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	255	0.1400	11.64	69.85	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.040 Mountain streams
0.4	218	0.1100	10.32	61.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.040 Mountain streams
4.4	217	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	189	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	142	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
24.0	1,260	Total			

**Summary for Subcatchment 31S: WS 4C**

Runoff = 27.88 cfs @ 12.24 hrs, Volume= 2.715 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.802	71	Existing meadow, non-grazed, HSG C
2.723	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.606	70	Existing Woods, Good, HSG C
5.804	77	Existing Woods, Good, HSG D
1.389	70	Proposed Woods, Good, HSG C
2.634	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.213	98	Untreated proposed impervious, HSG C
0.215	98	Untreated proposed impervious, HSG D
0.336	71	Proposed developed meadow, non-grazed, HSG C
0.248	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.924	71	Proposed meadow, ski trail, HSG C
4.557	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
26.451	75	Weighted Average
26.023		98.38% Pervious Area
0.428		1.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	100	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	37	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.0	270	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	431	0.3200	3.96		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.7	157	0.3800	1.54		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	702	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.5	262	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	740	0.2200	7.36	22.07	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
3.5	248	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	347	0.1600	9.96	59.74	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'

n= 0.050 Mountain streams w/large boulders

28.4 3,294 Total

**Summary for Subcatchment 32S: WS 5**

Runoff = 2.89 cfs @ 12.22 hrs, Volume= 0.266 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.012	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.790	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.133	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.420	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.355	77	Weighted Average
2.343		99.49% Pervious Area
0.012		0.51% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.0	89	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	13.49	40.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.030 Stream, clean & straight
26.8	887	Total			

**Summary for Subcatchment 33S: WS 6**

Runoff = 10.70 cfs @ 12.08 hrs, Volume= 0.707 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.041	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
4.020	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.108	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.595	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.493	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.257	77	Weighted Average
6.216		99.34% Pervious Area
0.041		0.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	100	0.1100	0.20		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	93	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.3	201	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	261	0.1500	8.96	35.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050
0.5	182	0.0700	6.12	24.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050
0.8	241	0.0500	5.17	20.68	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
2.8	119	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	71	0.0600	5.30	15.90	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050
15.1	1,268	Total			

**Summary for Subcatchment 34S: WS 6A**

Runoff = 18.32 cfs @ 12.12 hrs, Volume= 1.366 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.611	70	Existing Woods, Good, HSG C
4.153	77	Existing Woods, Good, HSG D
0.560	70	Proposed Woods, Good, HSG C
0.902	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.406	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.543	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
1.571	71	Proposed meadow, ski trail, HSG C
2.925	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
12.671	76	Weighted Average
12.265		96.80% Pervious Area
0.406		3.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.0	440	0.3400	1.46		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	142	0.0800	7.46	22.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch
0.6	62	0.5500	1.85		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.1	1,603	0.1370	12.71	152.58	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=2.00' Z= 1.0 '/' Top.W=8.00' n= 0.050 Mountain streams w/large boulders
18.8	2,300	Total			

**Summary for Subcatchment 35S: WS 6B**

Runoff = 3.39 cfs @ 12.11 hrs, Volume= 0.246 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.967	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.116	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.298	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.434	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.815	81	Weighted Average
1.517		83.58% Pervious Area
0.298		16.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	62	0.2500	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.2	93	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	194	0.5500	1.85		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	97	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	234	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
18.6	680	Total			

**Summary for Subcatchment 36S: WS 6C**

Runoff = 3.13 cfs @ 12.20 hrs, Volume= 0.279 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.784	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.244	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.214	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.396	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.611	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.249	79	Weighted Average
2.035		90.48% Pervious Area
0.214		9.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		<b>Sheet Flow,</b> n= 0.240 P2= 2.40"
0.6	29	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	82	0.1500	7.25	14.50	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' n= 0.050
7.1	281	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.0	150	0.0100	0.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
25.9	642	Total			



**Summary for Subcatchment 37S: WS 7**

Runoff = 1.69 cfs @ 12.05 hrs, Volume= 0.103 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.056	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.774	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.042	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.872	78	Weighted Average
0.816		93.58% Pervious Area
0.056		6.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	43	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	92	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	253	0.0500	16.63	166.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
0.1	130	0.0800	21.03	210.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
13.0	518	Total			

**Summary for Subcatchment 38S: WS 7A**

Runoff = 11.17 cfs @ 11.93 hrs, Volume= 0.489 af, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.099	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.331	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
1.071	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.420	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.921	86	Weighted Average
1.751		59.95% Pervious Area
1.170		40.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.2	33	0.0200	2.87		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	37	0.4600	4.75		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	86	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.2	190	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.4	446	Total			

**Summary for Subcatchment 39S: WS 7B**

Runoff = 2.18 cfs @ 11.97 hrs, Volume= 0.105 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.040	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.084	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.066	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.696	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.886	78	Weighted Average
0.886		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	51	0.1700	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	57	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	146	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.0	13	0.4600	4.75		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	67	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.9	334	Total			

**Summary for Subcatchment 40S: WS 7C**

Runoff = 9.40 cfs @ 12.14 hrs, Volume= 0.730 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.305	70	Existing Woods, Good, HSG C
3.064	77	Existing Woods, Good, HSG D
0.266	70	Proposed Woods, Good, HSG C
0.578	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.272	98	Untreated proposed impervious, HSG C
0.147	98	Untreated proposed impervious, HSG D
0.492	71	Proposed developed meadow, non-grazed, HSG C
0.644	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.006	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.774	76	Weighted Average
6.355		93.81% Pervious Area
0.419		6.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	65	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
7.4	508	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	107	0.0400	4.58	54.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.069 Riprap, 6-inch
0.5	407	0.1600	12.66	142.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.50' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
1.0	57	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
20.1	1,144	Total			

**Summary for Subcatchment 41S: WS 7D**

Runoff = 3.02 cfs @ 12.03 hrs, Volume= 0.174 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.030	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.405	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.649	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.084	85	Weighted Average
0.679		62.64% Pervious Area
0.405		37.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	57	0.2100	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	99	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.3	156	Total			

**Summary for Subcatchment 42S: WS 7E**

Runoff = 4.91 cfs @ 12.08 hrs, Volume= 0.328 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.342	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.310	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.879	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.531	80	Weighted Average
2.221		87.75% Pervious Area
0.310		12.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	63	0.2600	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.9	70	0.2600	1.27		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	85	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	179	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	119	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.8	516	Total			

**Summary for Subcatchment 43S: WS 7F**

Runoff = 10.49 cfs @ 12.05 hrs, Volume= 0.636 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.397	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.003	98	Untreated proposed impervious, HSG C
0.710	98	Untreated proposed impervious, HSG D
0.001	71	Proposed developed meadow, non-grazed, HSG C
1.579	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.690	81	Weighted Average
3.977		84.80% Pervious Area
0.713		15.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	73	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.7	147	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	286	0.2400	12.55	100.38	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' n= 0.050
0.2	170	0.2900	14.15	127.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' Z= 1.0 ' Top.W=10.00' n= 0.050
13.0	676	Total			

**Summary for Subcatchment 44S: WS 7G**

Runoff = 5.55 cfs @ 12.20 hrs, Volume= 0.493 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.232	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.201	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.550	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
1.269	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.379	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.631	81	Weighted Average
3.081		84.85% Pervious Area
0.550		15.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.3	75	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	28	0.5000	1.77		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	194	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	181	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.2	276	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	53	0.0400	4.33	12.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050 Mountain streams w/large boulders
26.1	907	Total			



**Summary for Subcatchment 45S: WS 7H**

Runoff = 5.00 cfs @ 12.00 hrs, Volume= 0.253 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.619	70	Existing Woods, Good, HSG C
0.094	77	Existing Woods, Good, HSG D
0.374	70	Proposed Woods, Good, HSG C
0.101	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.323	98	Untreated proposed impervious, HSG C
0.013	98	Untreated proposed impervious, HSG D
0.897	71	Proposed developed meadow, non-grazed, HSG C
0.045	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.002	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.468	75	Weighted Average
2.132		86.39% Pervious Area
0.336		13.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0600	1.85		<b>Sheet Flow,</b> n= 0.011 P2= 2.40"
0.5	18	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	31	0.4800	1.73		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	196	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	158	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	56	0.0900	6.49	19.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050

7.7 559 Total

**Summary for Subcatchment 46S: WS 8**

Runoff = 0.81 cfs @ 12.04 hrs, Volume= 0.047 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.066	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.277	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.001	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.344	81	Weighted Average
0.278		80.81% Pervious Area
0.066		19.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	40	0.1000	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	11	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	276	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022

11.5 327 Total

**Summary for Subcatchment 47S: WS 9**

Runoff = 0.37 cfs @ 12.03 hrs, Volume= 0.021 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.036	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.101	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.011	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.148	82	Weighted Average
0.112		75.68% Pervious Area
0.036		24.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	173	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
11.1	211	Total			

**Summary for Subcatchment 48S: WS 10**

Runoff = 2.90 cfs @ 11.99 hrs, Volume= 0.145 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.332	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.208	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.513	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.228	78	Weighted Average
1.228		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	38	0.0900	0.15		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	84	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.1	79	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	106	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.6	307	Total			

**Summary for Subcatchment 49S: WS 10A**

Runoff = 6.04 cfs @ 12.03 hrs, Volume= 0.345 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.003	70	Proposed Woods, Good, HSG C
0.037	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.184	98	Untreated proposed impervious, HSG D
0.194	71	Proposed developed meadow, non-grazed, HSG C
1.430	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.172	71	Proposed meadow, ski trail, HSG C
0.891	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.911	78	Weighted Average
2.727		93.68% Pervious Area
0.184		6.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	100	0.2200	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.9	122	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	154	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.8	204	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.0	580	Total			

**Summary for Subcatchment 50S: WS 10B**

Runoff = 8.84 cfs @ 12.10 hrs, Volume= 0.616 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.876	70	Existing Woods, Good, HSG C
0.149	77	Existing Woods, Good, HSG D
1.162	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.768	98	Untreated proposed impervious, HSG C
0.087	98	Untreated proposed impervious, HSG D
1.449	71	Proposed developed meadow, non-grazed, HSG C
0.473	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
1.043	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.007	75	Weighted Average
5.152		85.77% Pervious Area
0.855		14.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.5	355	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	533	0.1200	7.50	22.49	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050 Mountain streams w/large boulders
16.5	944	Total			

**Summary for Subcatchment 51S: WS 10C**

Runoff = 3.37 cfs @ 12.07 hrs, Volume= 0.219 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.003	70	Existing Woods, Good, HSG C
0.288	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.196	98	Proposed impervious to be treated, HSG C
0.282	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.364	71	Proposed developed meadow to be treated, HSG C
0.413	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.546	82	Weighted Average
1.068		69.08% Pervious Area
0.478		30.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	66	0.2800	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	146	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	162	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.0	374	Total			

**Summary for Subcatchment 52S: WS 11**

Runoff = 4.85 cfs @ 12.05 hrs, Volume= 0.289 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.051	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.928	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.259	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.566	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.636	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.440	78	Weighted Average
2.389		97.91% Pervious Area
0.051		2.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	100	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.0	130	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	29	0.4100	1.60		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	105	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	216	0.1000	4.96	14.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.3	580	Total			



**Summary for Subcatchment 53S: WS 11A**

Runoff = 11.62 cfs @ 11.93 hrs, Volume= 0.531 af, Depth= 2.45"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
1.700	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.906	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.606	91	Weighted Average
0.906		34.77% Pervious Area
1.700		65.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1000	2.27		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.2	21	0.1000	1.66		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	70	0.3700	9.12		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
1.9	249	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.9	440	Total			

**Summary for Subcatchment 54S: WS 11B**

Runoff = 7.31 cfs @ 11.98 hrs, Volume= 0.353 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.772	98	Proposed impervious to be treated, HSG C
0.167	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.233	71	Proposed developed meadow to be treated, HSG C
0.316	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.488	82	Weighted Average
1.549		62.26% Pervious Area
0.939		37.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	100	0.4400	0.35		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	36	0.4400	4.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.3	246	0.0200	3.24	38.86	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.069 Riprap, 6-inch
6.2	382	Total			

**Summary for Subcatchment 55S: WS 12**

Runoff = 6.05 cfs @ 12.05 hrs, Volume= 0.362 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.035	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.747	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.280	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.243	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.747	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.052	78	Weighted Average
3.017		98.85% Pervious Area
0.035		1.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.5	174	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	17	0.3500	4.14		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	204	0.1700	9.95	49.77	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.050
1.0	245	0.0700	4.15	12.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
12.4	740	Total			

**Summary for Subcatchment 56S: WS 12A**

Runoff = 3.88 cfs @ 11.93 hrs, Volume= 0.165 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.777	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.012	98	Untreated proposed impervious, HSG C
0.025	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
0.576	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.392	78	Weighted Average
1.355		97.34% Pervious Area
0.037		2.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0600	1.48		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.4	87	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	254	0.1800	12.62	104.09	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.50' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	374	Total			

**Summary for Subcatchment 57S: WS 12B**

Runoff = 2.67 cfs @ 12.07 hrs, Volume= 0.174 af, Depth= 1.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.082	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.046	98	Untreated proposed impervious, HSG C
0.004	98	Untreated proposed impervious, HSG D
0.995	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.846	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.973	72	Weighted Average
1.923		97.47% Pervious Area
0.050		2.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	304	0.2000	3.13		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.3	307	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	90	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
13.8	801	Total			

**Summary for Subcatchment 58S: WS 12C**

Runoff = 5.43 cfs @ 12.09 hrs, Volume= 0.364 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.595	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.366	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.817	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.292	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.070	78	Weighted Average
2.253		73.39% Pervious Area
0.817		26.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.1	185	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.7	595	Total			

**Summary for Subcatchment 59S: WS 12D**

Runoff = 4.06 cfs @ 12.05 hrs, Volume= 0.247 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.208	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.233	98	Proposed impervious to be treated, HSG C
0.253	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.613	71	Proposed developed meadow to be treated, HSG C
0.516	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.823	81	Weighted Average
1.337		73.34% Pervious Area
0.486		26.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	49	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	83	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	184	0.2700	3.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.1	316	Total			

**Summary for Subcatchment 60S: WS 12E**

Runoff = 2.44 cfs @ 12.06 hrs, Volume= 0.152 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.061	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.300	98	Untreated proposed impervious, HSG D
0.053	71	Proposed developed meadow, non-grazed, HSG C
0.617	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.031	83	Weighted Average
0.731		70.90% Pervious Area
0.300		29.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	61	0.2400	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.1	81	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	101	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	165	0.2400	3.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.9	408	Total			



**Summary for Subcatchment 61S: WS 12F**

Runoff = 6.07 cfs @ 12.04 hrs, Volume= 0.356 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.236	77	Existing Woods, Good, HSG D
0.064	70	Proposed Woods, Good, HSG C
0.184	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.322	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.770	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.216	71	Proposed meadow, ski trail, HSG C
0.078	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.870	79	Weighted Average
2.548		88.78% Pervious Area
0.322		11.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.7	185	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.9	645	Total			

**Summary for Subcatchment 62S: WS 12G**

Runoff = 7.98 cfs @ 12.16 hrs, Volume= 0.654 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.090	70	Existing Woods, Good, HSG C
1.430	77	Existing Woods, Good, HSG D
0.665	70	Proposed Woods, Good, HSG C
0.340	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.505	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
1.147	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.953	71	Proposed meadow, ski trail, HSG C
0.650	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.782	77	Weighted Average
5.277		91.27% Pervious Area
0.505		8.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	142	0.1200	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.9	277	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	569	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	222	0.0800	4.74	18.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
22.3	1,210	Total			

**Summary for Subcatchment 63S: WS 13**

Runoff = 0.83 cfs @ 12.04 hrs, Volume= 0.048 af, Depth= 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.074	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.118	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.146	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.338	82	Weighted Average
0.264		78.11% Pervious Area
0.074		21.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	36	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	254	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
11.5	290	Total			

**Summary for Subcatchment 64S: WS 13A**

Runoff = 5.13 cfs @ 12.08 hrs, Volume= 0.338 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.353	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.301	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.695	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.500	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.849	78	Weighted Average
2.849		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.4	211	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	301	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.1	612	Total			

**Summary for Subcatchment 65S: WS 13B**

Runoff = 5.30 cfs @ 11.91 hrs, Volume= 0.226 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.086	70	Existing Woods, Good, HSG C
0.116	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.379	98	Proposed impervious to be treated, HSG C
0.145	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.383	71	Proposed developed meadow to be treated, HSG C
0.416	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.525	83	Weighted Average
1.001		65.64% Pervious Area
0.524		34.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	100	0.0700	1.97		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	25	0.0700	5.37		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	88	0.1600	28.80	90.49	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
0.3	118	0.2000	7.01	21.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
1.3	331	Total			

**Summary for Subcatchment 66S: WS 13C**

Runoff = 6.36 cfs @ 12.01 hrs, Volume= 0.335 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.900	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.569	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.469	81	Weighted Average
1.569		63.55% Pervious Area
0.900		36.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.1300	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	42	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	170	0.1800	6.65	19.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.4	97	0.3100	3.90		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	409	Total			

**Summary for Subcatchment 67S: WS 14**

Runoff = 2.17 cfs @ 12.09 hrs, Volume= 0.147 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.041	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.657	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.170	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.192	78	Proposed developed meadow to be treated, HSG D
0.080	71	Proposed meadow, ski trail, HSG C
0.096	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.238	78	Weighted Average
1.197		96.69% Pervious Area
0.041		3.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	81	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	28	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	44	0.5000	1.77		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	192	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	209	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	70	0.0400	4.33	12.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050

16.0 624 Total

**Summary for Subcatchment 68S: WS 15**

Runoff = 2.23 cfs @ 12.06 hrs, Volume= 0.141 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.017	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.015	70	Existing Woods, Good, HSG C
0.776	77	Existing Woods, Good, HSG D
0.110	70	Proposed Woods, Good, HSG C
0.042	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.096	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.306	76	Weighted Average
1.289		98.70% Pervious Area
0.017		1.30% Impervious Area



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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	100	0.0700	0.17		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	69	0.0700	1.85		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	44	0.5000	4.95		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.2	170	0.1500	12.39	148.70	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50' n= 0.050
1.3	99	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	99	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	43	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
13.7	624	Total			

**Summary for Subcatchment 69S: WS 15A**

Runoff = 3.84 cfs @ 11.94 hrs, Volume= 0.166 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.051	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.047	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.092	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.595	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.785	73	Weighted Average
1.646		92.21% Pervious Area
0.139		7.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	72	0.0800	1.94		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
2.3	155	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	149	0.1200	11.08	133.00	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50' n= 0.050 Mountain streams w/large boulders
3.1	376	Total			

**Summary for Subcatchment 70S: WS 15B**

Runoff = 4.58 cfs @ 12.07 hrs, Volume= 0.301 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.688	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.075	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.321	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.519	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.647	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.250	73	Weighted Average
2.929		90.12% Pervious Area
0.321		9.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.1700	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
7.0	502	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	87	0.0700	4.15	12.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
14.3	689	Total			

**Summary for Subcatchment 71S: WS 15C**

Runoff = 1.00 cfs @ 12.29 hrs, Volume= 0.105 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.010	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.219	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.551	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.103	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.883	78	Weighted Average
0.664		75.20% Pervious Area
0.219		24.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	66	0.0200	0.04		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
0.1	41	0.4400	4.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	108	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.7	141	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
32.4	356	Total			

**Summary for Subcatchment 72S: WS 15D**

Runoff = 0.87 cfs @ 11.98 hrs, Volume= 0.042 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.038	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.042	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.372	71	Proposed developed meadow, non-grazed, HSG C
0.002	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.454	73	Weighted Average
0.412		90.75% Pervious Area
0.042		9.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	43	0.5100	0.12		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
0.2	68	0.5100	5.00		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.2	111	Total			

**Summary for Subcatchment 73S: WS 15E**

Runoff = 2.41 cfs @ 11.97 hrs, Volume= 0.117 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.012	98	Proposed impervious to be treated, HSG C
0.216	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.040	71	Proposed developed meadow to be treated, HSG C
0.526	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.794	83	Weighted Average
0.566		71.28% Pervious Area
0.228		28.72% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	21	0.3300	0.09		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
1.0	286	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.8	162	0.0500	3.51	10.52	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.3	68	0.0600	3.84	11.52	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
6.1	537	Total			

**Summary for Subcatchment 74S: WS 15F**

Runoff = 7.77 cfs @ 12.01 hrs, Volume= 0.414 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.227	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.418	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.001	98	Untreated proposed impervious, HSG C
0.508	98	Untreated proposed impervious, HSG D
0.014	71	Proposed developed meadow, non-grazed, HSG C
1.020	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.011	71	Proposed meadow, ski trail, HSG C
0.852	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.051	81	Weighted Average
2.542		83.32% Pervious Area
0.509		16.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.1400	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.5	83	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.1	401	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
9.2	584	Total			

**Summary for Subcatchment 75S: WS 15G**

Runoff = 6.65 cfs @ 12.05 hrs, Volume= 0.399 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.422	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.485	70	Proposed Woods, Good, HSG C
0.098	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.784	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
1.239	71	Proposed developed meadow, non-grazed, HSG C
0.296	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.366	78	Weighted Average
2.540		75.46% Pervious Area
0.826		24.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.3	21	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	544	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.5	619	Total			

**Summary for Subcatchment 76S: WS 15H**

Runoff = 15.27 cfs @ 12.43 hrs, Volume= 2.020 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"



**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
5.165	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
4.977	70	Existing Woods, Good, HSG C
2.248	77	Existing Woods, Good, HSG D
2.513	70	Proposed Woods, Good, HSG C
0.330	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.827	98	Untreated proposed impervious, HSG C
0.001	98	Untreated proposed impervious, HSG D
1.952	71	Proposed developed meadow, non-grazed, HSG C
0.163	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.193	71	Proposed meadow, ski trail, HSG C
0.407	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
21.776	73	Weighted Average
20.948		96.20% Pervious Area
0.828		3.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.1300	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	358	0.2800	3.70		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
17.3	1,352	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	765	0.2000	3.13		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.8	793	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
42.6	3,368	Total			

**Summary for Subcatchment 77S: WS 16**

Runoff = 1.73 cfs @ 12.10 hrs, Volume= 0.120 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

Prepared by VHB

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.083	70	Existing Woods, Good, HSG C
0.657	77	Existing Woods, Good, HSG D
0.054	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.147	71	Proposed developed meadow, non-grazed, HSG C
0.041	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.154	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.173	75	Weighted Average
1.136		96.85% Pervious Area
0.037		3.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.2	30	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	25	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	119	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	139	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	161	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	70	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
16.4	644	Total			

**Summary for Subcatchment 78S: WS 17**

Runoff = 3.53 cfs @ 11.94 hrs, Volume= 0.151 af, Depth= 1.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.047	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.011	70	Existing Woods, Good, HSG C
0.793	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.047	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.275	71	Proposed developed meadow, non-grazed, HSG C
0.044	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.119	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.336	77	Weighted Average
1.242		92.96% Pervious Area
0.094		7.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	23	0.1700	2.09		<b>Sheet Flow,</b> n= 0.011 P2= 2.40"
0.4	53	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.1	126	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	202	0.1400	15.06	75.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.030
2.9	404	Total			

**Summary for Subcatchment 79S: WS 17A**

Runoff = 6.78 cfs @ 12.03 hrs, Volume= 0.381 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.035	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.780	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.039	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.761	71	Proposed developed meadow to be treated, HSG C
0.248	78	Proposed developed meadow to be treated, HSG D
0.349	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.212	78	Weighted Average
2.393		74.50% Pervious Area
0.819		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	73	0.1200	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.8	94	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	268	0.0700	1.85		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
10.5	435	Total			

**Summary for Subcatchment 80S: WS 17B**

Runoff = 7.10 cfs @ 11.95 hrs, Volume= 0.318 af, Depth= 1.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.001	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.843	98	Proposed impervious to be treated, HSG C
0.055	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.441	71	Proposed developed meadow to be treated, HSG C
0.006	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.346	81	Weighted Average
1.448		61.72% Pervious Area
0.898		38.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1200	2.44		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	46	0.1200	7.03		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
3.5	1,127	0.1200	5.43	16.30	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
4.3	1,273	Total			

**Summary for Subcatchment 81S: WS 17C**

Runoff = 2.06 cfs @ 12.09 hrs, Volume= 0.141 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.298	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.264	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.746	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.308	76	Weighted Average
1.044		79.82% Pervious Area
0.264		20.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	316	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	76	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
16.0	448	Total			

**Summary for Subcatchment 82S: WS 17D**

Runoff = 2.41 cfs @ 12.08 hrs, Volume= 0.157 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.346	98	Untreated proposed impervious, HSG C
0.003	98	Untreated proposed impervious, HSG D
0.974	71	Proposed developed meadow, non-grazed, HSG C
0.005	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.328	78	Weighted Average
0.979		73.72% Pervious Area
0.349		26.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	49	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.6	95	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	155	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
14.9	299	Total			

**Summary for Subcatchment 83S: WS 17E**

Runoff = 11.38 cfs @ 11.98 hrs, Volume= 0.556 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.036	77	Proposed Woods, Good, HSG D
0.414	98	Proposed impervious to be treated, HSG C
0.842	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.340	71	Proposed developed meadow to be treated, HSG C
1.819	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.004	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.455	85	Weighted Average
2.199		63.65% Pervious Area
1.256		36.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0300	1.40		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
5.1	1,621	0.1000	5.30	21.20	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
6.3	1,721	Total			



**Summary for Subcatchment 84S: WS 17F**

Runoff = 8.20 cfs @ 12.17 hrs, Volume= 0.678 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.019	70	Existing Woods, Good, HSG C
1.100	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
1.217	98	Untreated proposed impervious, HSG D
0.007	71	Proposed developed meadow, non-grazed, HSG C
2.244	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.587	83	Weighted Average
3.370		73.47% Pervious Area
1.217		26.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	44	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
12.6	683	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
23.5	727	Total			

**Summary for Subcatchment 85S: WS 18**

Runoff = 0.52 cfs @ 11.95 hrs, Volume= 0.023 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.165	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.186	79	Weighted Average
0.165		88.71% Pervious Area
0.021		11.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	65	0.2700	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	92	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
4.2	157	Total			

**Summary for Subcatchment 86S: WS 19**

Runoff = 1.20 cfs @ 12.04 hrs, Volume= 0.070 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.008	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.060	70	Existing Woods, Good, HSG C
0.313	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.016	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.116	71	Proposed developed meadow, non-grazed, HSG C
0.135	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.648	76	Weighted Average
0.624		96.30% Pervious Area
0.024		3.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
4.2	253	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' /' Top.W=4.00' n= 0.022
11.5	455	Total			

**Summary for Subcatchment 87S: WS 20**

Runoff = 3.36 cfs @ 11.98 hrs, Volume= 0.161 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.007	70	Existing Woods, Good, HSG C
0.881	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.013	98	Untreated proposed impervious, HSG C
0.027	98	Untreated proposed impervious, HSG D
0.030	71	Proposed developed meadow, non-grazed, HSG C
0.363	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.358	78	Weighted Average
1.281		94.33% Pervious Area
0.077		5.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	34	0.0600	1.49		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	18	0.3900	4.37		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.8	166	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	144	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	64	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' Top.W=4.00' n= 0.022
6.0	426	Total			

**Summary for Subcatchment 88S: WS 20A**

Runoff = 2.62 cfs @ 11.94 hrs, Volume= 0.113 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.287	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.141	98	Untreated proposed impervious, HSG C
0.006	98	Untreated proposed impervious, HSG D
0.600	71	Proposed developed meadow, non-grazed, HSG C
0.008	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.118	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.160	74	Weighted Average
1.013		87.33% Pervious Area
0.147		12.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1000	2.27		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	47	0.1000	6.42		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	35	0.4300	4.59		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.9	116	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	32	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	330	Total			

**Summary for Subcatchment 89S: WS 20B**

Runoff = 1.41 cfs @ 11.97 hrs, Volume= 0.068 af, Depth= 1.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.026	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.098	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.054	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.182	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.370	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.730	73	Weighted Average
0.676		92.60% Pervious Area
0.054		7.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	76	0.2000	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.2	140	0.1300	13.74	228.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=3.50' Z= 1.0 & 0.0 '/' Top.W=6.50' n= 0.050 Mountain streams w/large boulders
5.5	216	Total			

**Summary for Subcatchment 90S: WS 20C**

Runoff = 8.15 cfs @ 12.13 hrs, Volume= 0.620 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.487	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.117	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
1.368	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
2.264	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.237	78	Weighted Average
3.869		73.88% Pervious Area
1.368		26.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.7	582	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	116	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
19.8	754	Total			

**Summary for Subcatchment 91S: WS 20D**

Runoff = 17.33 cfs @ 12.30 hrs, Volume= 1.861 af, Depth= 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.002	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.585	71	Existing meadow, non-grazed, HSG C
2.389	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.483	70	Existing Woods, Good, HSG C
3.526	77	Existing Woods, Good, HSG D
0.350	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.064	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
1.079	98	Untreated proposed impervious, HSG C
0.643	98	Untreated proposed impervious, HSG D
1.762	71	Proposed developed meadow, non-grazed, HSG C
1.316	78	Proposed developed meadow, non-grazed, HSG D
0.571	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.496	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
17.266	76	Weighted Average
15.478		89.64% Pervious Area
1.788		10.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.8	470	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	408	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	282	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.0	593	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	511	0.0600	3.84	11.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
33.2	2,364	Total			



**Summary for Subcatchment 92S: WS 21**

Runoff = 0.89 cfs @ 12.05 hrs, Volume= 0.054 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.020	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.341	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.092	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.453	78	Weighted Average
0.433		95.58% Pervious Area
0.020		4.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	46	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	82	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	138	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
12.8	266	Total			

**Summary for Subcatchment 93S: WS 21A**

Runoff = 13.33 cfs @ 11.96 hrs, Volume= 0.622 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 10-Year Rainfall=3.40"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.030	70	Existing Woods, Good, HSG C
0.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.062	98	Proposed impervious to be treated, HSG C
1.172	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.149	71	Proposed developed meadow to be treated, HSG C
2.457	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.204	83	Weighted Average
2.970		70.65% Pervious Area
1.234		29.35% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	47	0.0200	1.02		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.4	366	0.0800	4.44	13.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.1	62	0.0100	7.20	22.62	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
1.5	105	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.9	170	0.0400	3.14	9.41	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.1	50	0.0500	16.10	50.59	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
0.3	110	0.1300	5.65	16.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
5.1	910	Total			

**Summary for Subcatchment 94S: WS 21B**

Runoff = 5.75 cfs @ 12.08 hrs, Volume= 0.381 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.413	70	Existing Woods, Good, HSG C
0.012	77	Existing Woods, Good, HSG D
0.242	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.792	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.049	71	Proposed developed meadow, non-grazed, HSG C
0.118	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.591	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.217	78	Weighted Average
2.425		75.38% Pervious Area
0.792		24.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	100	0.1100	0.20		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.2	161	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	370	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.3	631	Total			

**Summary for Subcatchment 95S: WS 21C**

Runoff = 14.33 cfs @ 12.66 hrs, Volume= 2.393 af, Depth= 1.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

**55310.01-West Mountain-PR***Type II 24-hr 10-Year Rainfall=3.40"*

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
1.021	98	Untreated existing impervious, HSG C
0.399	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.513	71	Existing meadow, non-grazed, HSG C
3.194	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
11.552	70	Existing Woods, Good, HSG C
4.190	77	Existing Woods, Good, HSG D
0.457	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.027	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.156	71	Proposed developed meadow, non-grazed, HSG C
0.003	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
24.513	74	Weighted Average
23.066		94.10% Pervious Area
1.447		5.90% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	17	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.2	146	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	259	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	218	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	279	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	186	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	90	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	173	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	201	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	256	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	195	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	80	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	334	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	187	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	139	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.1	133	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	317	0.1600	19.24	692.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=9.00' D=3.00' Z= 1.0 '/' Top.W=15.00' n= 0.050 Mountain streams w/large boulders
59.5	3,310	Total			

**Summary for Subcatchment 96S: WS 22**

Runoff = 0.70 cfs @ 12.04 hrs, Volume= 0.041 af, Depth= 1.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.025	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.284	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.019	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.328	79	Weighted Average
0.303		92.38% Pervious Area
0.025		7.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	50	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	125	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' Top.W=4.00' n= 0.022
11.8	225	Total			

**Summary for Subcatchment 97S: WS 23**

Runoff = 0.94 cfs @ 12.00 hrs, Volume= 0.048 af, Depth= 1.56"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.039	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.174	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.157	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.370	80	Weighted Average
0.331		89.46% Pervious Area
0.039		10.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.1400	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	102	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.2	202	Total			

**Summary for Subcatchment 98S: WS 23A**

Runoff = 2.40 cfs @ 11.93 hrs, Volume= 0.104 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"



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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.159	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.543	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.702	83	Weighted Average
0.543		77.35% Pervious Area
0.159		22.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	19	0.4200	0.25		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.8	217	0.0800	4.44	13.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.7	89	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.8	325	Total			

**Summary for Subcatchment 99S: WS 23B**

Runoff = 4.27 cfs @ 12.06 hrs, Volume= 0.266 af, Depth= 1.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.142	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.056	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.554	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.903	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.655	85	Weighted Average
1.045		63.14% Pervious Area
0.610		36.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.4	22	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	173	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	166	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
13.8	461	Total			

**Summary for Subcatchment 100S: WS 24**

Runoff = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af, Depth= 1.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.506	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.568	71	Existing meadow, non-grazed, HSG C
6.423	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.073	70	Existing Woods, Good, HSG C
5.770	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.038	98	Untreated proposed impervious, HSG D
0.017	71	Proposed developed meadow, non-grazed, HSG C
0.357	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.027	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
13.779	78	Weighted Average
13.235		96.05% Pervious Area
0.544		3.95% Impervious Area

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Type II 24-hr 10-Year Rainfall=3.40"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	10	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	210	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	333	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	221	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.3	317	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.3	305	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	241	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.1	138	0.2000	21.99	65.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	224	0.1500	19.05	57.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.1	118	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	167	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	89	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.1	105	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
19.4	2,578	Total			

**Summary for Subcatchment 103S: WS 1-8**

Runoff = 50.71 cfs @ 12.42 hrs, Volume= 6.506 af, Depth= 1.23"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 10-Year Rainfall=3.40"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.004	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.012	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
9.906	70	Existing Woods, Good, HSG C
17.781	77	Existing Woods, Good, HSG D
2.274	70	Proposed Woods, Good, HSG C
3.491	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
8.051	71	Proposed meadow, ski trail, HSG C
18.519	78	Proposed meadow, ski trail, HSG D
2.211	71	Proposed meadow, ski lift, HSG C
1.103	78	Proposed meadow, ski lift, HSG D
63.400	75	Weighted Average
63.354		99.93% Pervious Area
0.046		0.07% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.2900	0.29		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.1	249	0.2900	3.77		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.9	274	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	353	0.3300	4.02		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	277	0.2500	7.84	23.52	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
5.7	374	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	462	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	579	0.3500	4.14		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	294	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.3	639	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	363	0.1600	10.18	71.29	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00' n= 0.050
1.3	806	0.1600	10.18	71.29	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00' n= 0.050
42.2	4,770	Total			

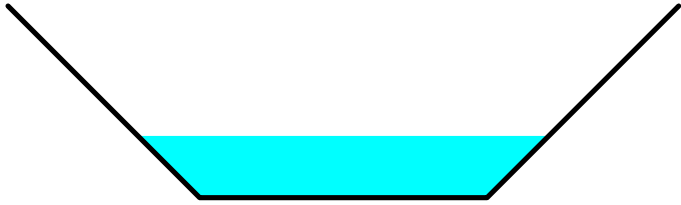
**Summary for Reach 6R: stream**

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 1.56" for 10-Year event  
 Inflow = 17.48 cfs @ 12.08 hrs, Volume= 3.229 af  
 Outflow = 17.29 cfs @ 12.10 hrs, Volume= 3.229 af, Atten= 1%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 7.44 fps, Min. Travel Time= 0.6 min  
 Avg. Velocity = 1.68 fps, Avg. Travel Time= 2.8 min

Peak Storage= 657 cf @ 12.09 hrs  
 Average Depth at Peak Storage= 0.64' , Surface Width= 4.29'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 132.62 cfs

3.00' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
 Length= 280.0' Slope= 0.1643 '/'  
 Inlet Invert= 1,815.00', Outlet Invert= 1,769.00'



**Summary for Reach 8R: ditch to stream**

Inflow Area = 16.590 ac, 25.90% Impervious, Inflow Depth = 1.67" for 10-Year event  
 Inflow = 13.16 cfs @ 12.05 hrs, Volume= 2.311 af  
 Outflow = 12.80 cfs @ 12.08 hrs, Volume= 2.311 af, Atten= 3%, Lag= 2.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 7.19 fps, Min. Travel Time= 1.1 min  
 Avg. Velocity = 1.66 fps, Avg. Travel Time= 4.8 min

Peak Storage= 866 cf @ 12.06 hrs  
 Average Depth at Peak Storage= 0.52' , Surface Width= 4.04'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 144.00 cfs

3.00' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
 Length= 475.0' Slope= 0.1937 '/'  
 Inlet Invert= 1,910.00', Outlet Invert= 1,818.00'



**Summary for Reach 9R: stream**

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 1.24" for 10-Year event  
 Inflow = 31.08 cfs @ 12.38 hrs, Volume= 5.055 af  
 Outflow = 31.03 cfs @ 12.40 hrs, Volume= 5.055 af, Atten= 0%, Lag= 1.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 8.27 fps, Min. Travel Time= 0.7 min  
 Avg. Velocity = 3.11 fps, Avg. Travel Time= 1.8 min

Peak Storage= 1,240 cf @ 12.38 hrs  
 Average Depth at Peak Storage= 0.86' , Surface Width= 5.22'  
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 139.42 cfs

3.50' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.50'  
 Length= 330.0' Slope= 0.1424 '/'  
 Inlet Invert= 1,787.00', Outlet Invert= 1,740.00'



**Summary for Reach 10R: stream**

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 1.24" for 10-Year event  
 Inflow = 30.83 cfs @ 12.37 hrs, Volume= 4.942 af  
 Outflow = 30.80 cfs @ 12.38 hrs, Volume= 4.942 af, Atten= 0%, Lag= 0.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 8.79 fps, Min. Travel Time= 0.3 min  
 Avg. Velocity = 3.29 fps, Avg. Travel Time= 0.7 min

Peak Storage= 491 cf @ 12.37 hrs  
 Average Depth at Peak Storage= 0.81' , Surface Width= 5.13'  
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 152.96 cfs

3.50' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 ' ' Top Width= 7.50'  
 Length= 140.0' Slope= 0.1714 ' '  
 Inlet Invert= 1,814.00', Outlet Invert= 1,790.00'



**Summary for Reach 11R: stream**

Inflow Area = 17.266 ac, 10.36% Impervious, Inflow Depth = 1.29" for 10-Year event  
 Inflow = 17.33 cfs @ 12.30 hrs, Volume= 1.861 af  
 Outflow = 17.26 cfs @ 12.32 hrs, Volume= 1.861 af, Atten= 0%, Lag= 1.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 7.90 fps, Min. Travel Time= 0.6 min  
 Avg. Velocity = 2.73 fps, Avg. Travel Time= 1.8 min

Peak Storage= 657 cf @ 12.31 hrs  
 Average Depth at Peak Storage= 0.61' , Surface Width= 4.21'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 145.10 cfs



**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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3.00' x 2.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
Length= 300.0' Slope= 0.1967 '/'  
Inlet Invert= 1,910.00', Outlet Invert= 1,851.00'



**Summary for Reach 14R: drainage ditch**

Inflow Area = 3.366 ac, 24.54% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 6.65 cfs @ 12.05 hrs, Volume= 0.399 af  
Outflow = 6.29 cfs @ 12.12 hrs, Volume= 0.399 af, Atten= 5%, Lag= 4.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 4.18 fps, Min. Travel Time= 2.4 min  
Avg. Velocity = 1.26 fps, Avg. Travel Time= 8.0 min

Peak Storage= 912 cf @ 12.08 hrs  
Average Depth at Peak Storage= 0.51' , Surface Width= 4.02'  
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 106.43 cfs

2.00' x 2.00' deep channel, n= 0.069  
Side Slope Z-value= 2.0 '/' Top Width= 10.00'  
Length= 600.0' Slope= 0.1500 '/'  
Inlet Invert= 2,060.00', Outlet Invert= 1,970.00'



**Summary for Reach 17R: stream**

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 1.41" for 10-Year event  
Inflow = 21.80 cfs @ 12.14 hrs, Volume= 2.112 af  
Outflow = 21.68 cfs @ 12.15 hrs, Volume= 2.112 af, Atten= 1%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 8.94 fps, Min. Travel Time= 0.4 min  
Avg. Velocity = 1.13 fps, Avg. Travel Time= 3.0 min

Peak Storage= 497 cf @ 12.14 hrs  
Average Depth at Peak Storage= 0.54' , Surface Width= 5.07'  
Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 62.68 cfs

4.00' x 1.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 6.00'  
Length= 204.0' Slope= 0.2696 '/'  
Inlet Invert= 1,711.00', Outlet Invert= 1,656.00'



**Summary for Reach 19R: stream**

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 1.41" for 10-Year event  
Inflow = 21.53 cfs @ 12.12 hrs, Volume= 1.947 af  
Outflow = 21.27 cfs @ 12.14 hrs, Volume= 1.947 af, Atten= 1%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 9.01 fps, Min. Travel Time= 0.5 min  
Avg. Velocity = 1.31 fps, Avg. Travel Time= 3.2 min

Peak Storage= 602 cf @ 12.13 hrs  
Average Depth at Peak Storage= 0.84' , Surface Width= 3.67'  
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 63.50 cfs

2.00' x 1.50' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 5.00'  
Length= 254.0' Slope= 0.2087 '/'  
Inlet Invert= 1,770.00', Outlet Invert= 1,717.00'



**Summary for Reach 23R: ditch**

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 1.47" for 10-Year event  
Inflow = 14.52 cfs @ 12.11 hrs, Volume= 1.410 af  
Outflow = 14.23 cfs @ 12.15 hrs, Volume= 1.410 af, Atten= 2%, Lag= 2.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 7.11 fps, Min. Travel Time= 1.3 min  
Avg. Velocity = 0.97 fps, Avg. Travel Time= 9.5 min

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Peak Storage= 1,110 cf @ 12.13 hrs  
Average Depth at Peak Storage= 0.57' , Surface Width= 4.13'  
Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 38.44 cfs

3.00' x 1.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 5.00'  
Length= 550.0' Slope= 0.1727 '/'  
Inlet Invert= 1,945.00', Outlet Invert= 1,850.00'



**Summary for Reach 24R: ditch**

Inflow Area = 8.652 ac, 9.56% Impervious, Inflow Depth = 1.40" for 10-Year event  
Inflow = 12.50 cfs @ 12.09 hrs, Volume= 1.010 af  
Outflow = 12.27 cfs @ 12.13 hrs, Volume= 1.010 af, Atten= 2%, Lag= 2.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 5.73 fps, Min. Travel Time= 1.2 min  
Avg. Velocity = 1.81 fps, Avg. Travel Time= 3.7 min

Peak Storage= 871 cf @ 12.11 hrs  
Average Depth at Peak Storage= 0.54' , Surface Width= 5.14'  
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 163.35 cfs

3.00' x 2.00' deep channel, n= 0.069 Riprap, 6-inch  
Side Slope Z-value= 2.0 '/' Top Width= 11.00'  
Length= 400.0' Slope= 0.2375 '/'  
Inlet Invert= 2,015.00', Outlet Invert= 1,920.00'



**Summary for Reach 29R: stream**

Inflow Area = 68.800 ac, 9.84% Impervious, Inflow Depth = 1.34" for 10-Year event  
Inflow = 62.76 cfs @ 12.14 hrs, Volume= 7.674 af  
Outflow = 61.60 cfs @ 12.18 hrs, Volume= 7.674 af, Atten= 2%, Lag= 2.2 min

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Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 8.87 fps, Min. Travel Time= 1.2 min  
Avg. Velocity = 1.24 fps, Avg. Travel Time= 8.6 min

Peak Storage= 4,553 cf @ 12.16 hrs  
Average Depth at Peak Storage= 1.55' , Surface Width= 6.10'  
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 100.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders  
Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
Length= 645.0' Slope= 0.0946 '/'  
Inlet Invert= 1,596.00', Outlet Invert= 1,535.00'



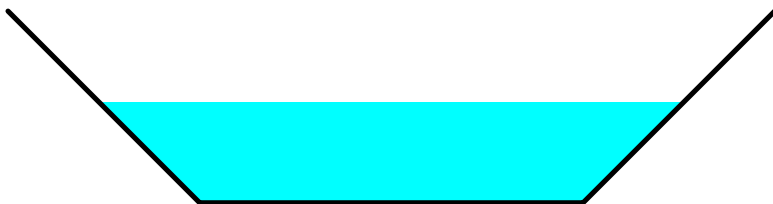
**Summary for Reach 32R: dead end stream**

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 1.29" for 10-Year event  
Inflow = 24.74 cfs @ 12.12 hrs, Volume= 3.949 af  
Outflow = 24.32 cfs @ 12.17 hrs, Volume= 3.949 af, Atten= 2%, Lag= 3.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 8.20 fps, Min. Travel Time= 1.6 min  
Avg. Velocity = 1.43 fps, Avg. Travel Time= 9.0 min

Peak Storage= 2,298 cf @ 12.14 hrs  
Average Depth at Peak Storage= 0.79' , Surface Width= 4.58'  
Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 76.81 cfs

3.00' x 1.50' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 6.00'  
Length= 770.0' Slope= 0.1610 '/'  
Inlet Invert= 1,760.00', Outlet Invert= 1,636.00'



Summary for Reach 34R: stream

Inflow Area = 30.406 ac, 6.66% Impervious, Inflow Depth = 1.22" for 10-Year event
Inflow = 19.26 cfs @ 12.47 hrs, Volume= 3.094 af
Outflow = 19.23 cfs @ 12.49 hrs, Volume= 3.094 af, Atten= 0%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.41 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 2.39 fps, Avg. Travel Time= 2.6 min

Peak Storage= 961 cf @ 12.48 hrs
Average Depth at Peak Storage= 0.70', Surface Width= 4.40'
Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 73.80 cfs

3.00' x 1.50' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 370.0' Slope= 0.1486 '/'
Inlet Invert= 1,815.00', Outlet Invert= 1,760.00'



Summary for Reach 35R: flow in wetland

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 1.13" for 10-Year event
Inflow = 15.90 cfs @ 12.43 hrs, Volume= 2.273 af
Outflow = 15.70 cfs @ 12.53 hrs, Volume= 2.273 af, Atten= 1%, Lag= 6.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 2.63 fps, Min. Travel Time= 3.8 min
Avg. Velocity = 0.75 fps, Avg. Travel Time= 13.4 min

Peak Storage= 3,589 cf @ 12.47 hrs
Average Depth at Peak Storage= 0.48', Surface Width= 12.96'
Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 53.58 cfs

12.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 600.0' Slope= 0.0917 '/'
Inlet Invert= 2,080.00', Outlet Invert= 2,025.00'



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Summary for Reach 39R: stream

Inflow Area = 2.899 ac, 24.25% Impervious, Inflow Depth = 1.74" for 10-Year event
Inflow = 3.44 cfs @ 12.11 hrs, Volume= 0.421 af
Outflow = 3.18 cfs @ 12.25 hrs, Volume= 0.421 af, Atten= 8%, Lag= 8.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.78 fps, Min. Travel Time= 4.9 min
Avg. Velocity = 0.92 fps, Avg. Travel Time= 19.8 min

Peak Storage= 936 cf @ 12.17 hrs
Average Depth at Peak Storage= 0.20' , Surface Width= 4.41'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 161.10 cfs

4.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 8.00'
Length= 1,100.0' Slope= 0.1527 '/'
Inlet Invert= 1,780.00', Outlet Invert= 1,612.00'



Summary for Reach 40R: stream

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 1.29" for 10-Year event
Inflow = 42.51 cfs @ 12.44 hrs, Volume= 6.277 af
Outflow = 42.19 cfs @ 12.49 hrs, Volume= 6.277 af, Atten= 1%, Lag= 3.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.36 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 1.95 fps, Avg. Travel Time= 6.6 min

Peak Storage= 4,432 cf @ 12.46 hrs
Average Depth at Peak Storage= 0.84' , Surface Width= 7.68'
Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 10.00'
Length= 770.0' Slope= 0.1013 '/'
Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'



Summary for Reach 42R: stream

Inflow Area = 37.607 ac, 3.33% Impervious, Inflow Depth = 1.29" for 10-Year event
Inflow = 37.51 cfs @ 12.32 hrs, Volume= 4.049 af
Outflow = 36.24 cfs @ 12.46 hrs, Volume= 4.049 af, Atten= 3%, Lag= 8.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.55 fps, Min. Travel Time= 4.8 min
Avg. Velocity = 1.95 fps, Avg. Travel Time= 20.9 min

Peak Storage= 10,381 cf @ 12.38 hrs
Average Depth at Peak Storage= 0.74' , Surface Width= 6.48'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 2,440.0' Slope= 0.1639 ' '
Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'



Summary for Reach 45R: flow in wetland

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 1.23" for 10-Year event
Inflow = 27.88 cfs @ 12.24 hrs, Volume= 2.715 af
Outflow = 26.58 cfs @ 12.38 hrs, Volume= 2.715 af, Atten= 5%, Lag= 8.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.24 fps, Min. Travel Time= 4.7 min
Avg. Velocity = 1.02 fps, Avg. Travel Time= 19.5 min

Peak Storage= 7,582 cf @ 12.30 hrs
Average Depth at Peak Storage= 0.83' , Surface Width= 9.30'
Bank-Full Depth= 1.00' Flow Area= 8.0 sf, Capacity= 37.72 cfs

6.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 2.0 ' ' Top Width= 10.00'
Length= 1,200.0' Slope= 0.1442 ' '
Inlet Invert= 2,160.00', Outlet Invert= 1,987.00'



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Summary for Reach 102R: stream

Inflow Area = 321.351 ac, 5.57% Impervious, Inflow Depth > 1.28" for 10-Year event
Inflow = 200.76 cfs @ 12.47 hrs, Volume= 34.343 af
Outflow = 200.05 cfs @ 12.51 hrs, Volume= 34.341 af, Atten= 0%, Lag= 2.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.70 fps, Min. Travel Time= 1.7 min
Avg. Velocity = 1.18 fps, Avg. Travel Time= 12.6 min

Peak Storage= 20,495 cf @ 12.49 hrs
Average Depth at Peak Storage= 1.68', Surface Width= 15.37'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 890.0' Slope= 0.0562 '/'
Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 1.23" for 10-Year event
Inflow = 98.98 cfs @ 12.40 hrs, Volume= 12.168 af
Outflow = 98.71 cfs @ 12.41 hrs, Volume= 12.168 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.46 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 2.53 fps, Avg. Travel Time= 1.8 min

Peak Storage= 3,215 cf @ 12.40 hrs
Average Depth at Peak Storage= 1.26', Surface Width= 10.52'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 275.0' Slope= 0.0800 '/'
Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'





Summary for Reach 104R: stream

Inflow Area = 190.718 ac, 9.01% Impervious, Inflow Depth > 1.31" for 10-Year event
Inflow = 104.21 cfs @ 12.56 hrs, Volume= 20.761 af
Outflow = 103.99 cfs @ 12.59 hrs, Volume= 20.760 af, Atten= 0%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.30 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 1.37 fps, Avg. Travel Time= 6.0 min

Peak Storage= 5,539 cf @ 12.57 hrs
Average Depth at Peak Storage= 1.21' , Surface Width= 10.43'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 14.00'
Length= 495.0' Slope= 0.1010 ' '
Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 1.17" for 10-Year event
Inflow = 27.78 cfs @ 12.31 hrs, Volume= 3.041 af
Outflow = 26.82 cfs @ 12.45 hrs, Volume= 3.041 af, Atten= 3%, Lag= 8.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.53 fps, Min. Travel Time= 5.0 min
Avg. Velocity = 1.89 fps, Avg. Travel Time= 17.3 min

Peak Storage= 8,122 cf @ 12.37 hrs
Average Depth at Peak Storage= 0.49' , Surface Width= 8.97'
Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 12.00'
Length= 1,968.0' Slope= 0.1443 ' '
Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 156.700 ac, 6.38% Impervious, Inflow Depth = 1.23" for 10-Year event
Inflow = 94.62 cfs @ 12.55 hrs, Volume= 16.100 af
Outflow = 94.28 cfs @ 12.60 hrs, Volume= 16.100 af, Atten= 0%, Lag= 3.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.81 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 1.57 fps, Avg. Travel Time= 12.5 min

Peak Storage= 10,271 cf @ 12.57 hrs
Average Depth at Peak Storage= 1.21' , Surface Width= 8.42'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,175.0' Slope= 0.1464 '/'
Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 13.616 ac, 5.02% Impervious, Inflow Depth = 1.27" for 10-Year event
Inflow = 8.99 cfs @ 12.42 hrs, Volume= 1.445 af
Outflow = 8.93 cfs @ 12.48 hrs, Volume= 1.445 af, Atten= 1%, Lag= 3.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 6.21 fps, Min. Travel Time= 1.8 min
Avg. Velocity = 1.38 fps, Avg. Travel Time= 8.3 min

Peak Storage= 991 cf @ 12.44 hrs
Average Depth at Peak Storage= 0.42' , Surface Width= 3.84'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 686.0' Slope= 0.1808 '/'
Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'



Summary for Reach 112R: stream

Inflow Area = 22.637 ac, 11.13% Impervious, Inflow Depth = 1.34" for 10-Year event
Inflow = 20.78 cfs @ 11.97 hrs, Volume= 2.535 af
Outflow = 19.45 cfs @ 12.05 hrs, Volume= 2.535 af, Atten= 6%, Lag= 4.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.11 fps, Min. Travel Time= 2.9 min
Avg. Velocity = 1.33 fps, Avg. Travel Time= 15.4 min

Peak Storage= 3,381 cf @ 12.00 hrs
Average Depth at Peak Storage= 0.50', Surface Width= 6.00'
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 9.00'
Length= 1,230.0' Slope= 0.1772 '/'
Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



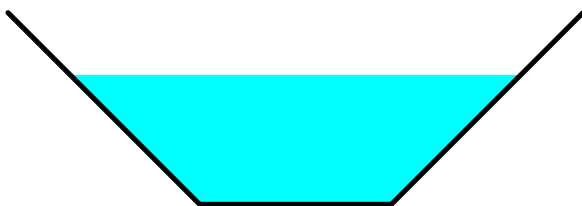
Summary for Reach 113R: ditch

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 1.41" for 10-Year event
Inflow = 21.68 cfs @ 12.15 hrs, Volume= 2.112 af
Outflow = 21.38 cfs @ 12.17 hrs, Volume= 2.112 af, Atten= 1%, Lag= 1.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.79 fps, Min. Travel Time= 0.9 min
Avg. Velocity = 0.72 fps, Avg. Travel Time= 5.7 min

Peak Storage= 1,107 cf @ 12.16 hrs
Average Depth at Peak Storage= 1.35', Surface Width= 4.70'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 46.73 cfs

2.00' x 2.00' deep channel, n= 0.069
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 245.0' Slope= 0.0694 '/'
Inlet Invert= 1,656.00', Outlet Invert= 1,639.00'



Summary for Reach 114R: dead end channel

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 1.53" for 10-Year event
Inflow = 17.93 cfs @ 12.09 hrs, Volume= 3.394 af
Outflow = 17.68 cfs @ 12.11 hrs, Volume= 3.394 af, Atten= 1%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.95 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 2.30 fps, Avg. Travel Time= 2.9 min

Peak Storage= 719 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.51' , Surface Width= 4.02'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 200.37 cfs

3.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 400.0' Slope= 0.3750 ' '
Inlet Invert= 1,750.00', Outlet Invert= 1,600.00'



Summary for Reach 115R: stream

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 1.22" for 10-Year event
Inflow = 27.39 cfs @ 12.42 hrs, Volume= 4.254 af
Outflow = 27.35 cfs @ 12.43 hrs, Volume= 4.254 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.35 fps, Min. Travel Time= 0.3 min
Avg. Velocity = 3.23 fps, Avg. Travel Time= 0.7 min

Peak Storage= 426 cf @ 12.42 hrs
Average Depth at Peak Storage= 0.85' , Surface Width= 4.70'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 128.34 cfs

3.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 130.0' Slope= 0.1538 ' '
Inlet Invert= 1,844.00', Outlet Invert= 1,824.00'



**Summary for Pond 2P: Culvert 7C Driveway**

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 1.24" for 10-Year event  
Inflow = 31.08 cfs @ 12.38 hrs, Volume= 5.055 af  
Primary = 31.08 cfs @ 12.38 hrs, Volume= 5.055 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 3P: Culvert 7B -Road A**

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 1.24" for 10-Year event  
Inflow = 30.83 cfs @ 12.37 hrs, Volume= 4.942 af  
Primary = 30.83 cfs @ 12.37 hrs, Volume= 4.942 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 4P: trail culvert**

Inflow Area = 5.237 ac, 26.12% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 8.15 cfs @ 12.13 hrs, Volume= 0.620 af  
Primary = 8.15 cfs @ 12.13 hrs, Volume= 0.620 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 5P: Culvert 7A**

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 1.22" for 10-Year event  
Inflow = 27.39 cfs @ 12.42 hrs, Volume= 4.254 af  
Primary = 27.39 cfs @ 12.42 hrs, Volume= 4.254 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 7P: Culvert 6A**

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 1.56" for 10-Year event  
Inflow = 17.48 cfs @ 12.08 hrs, Volume= 3.229 af  
Primary = 17.48 cfs @ 12.08 hrs, Volume= 3.229 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 8P: new 36**

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af  
Outflow = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af, Atten= 0%, Lag= 0.0 min  
Primary = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

Prepared by VHB

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Peak Elev= 1.88' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0400 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=21.40 cfs @ 12.13 hrs HW=1.86' (Free Discharge)↑**1=Culvert** (Inlet Controls 21.40 cfs @ 4.65 fps)**Summary for Pond 9P: new 36**

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 1.52" for 10-Year event  
 Inflow = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af  
 Outflow = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af, Atten= 0%, Lag= 0.0 min  
 Primary = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1.78' @ 12.10 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -1.05' S= 0.0150 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=19.72 cfs @ 12.10 hrs HW=1.77' (Free Discharge)↑**1=Culvert** (Inlet Controls 19.72 cfs @ 4.53 fps)**Summary for Pond 10P: new 36**

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 1.41" for 10-Year event  
 Inflow = 25.13 cfs @ 12.14 hrs, Volume= 2.473 af  
 Outflow = 25.13 cfs @ 12.14 hrs, Volume= 2.473 af, Atten= 0%, Lag= 0.0 min  
 Primary = 25.13 cfs @ 12.14 hrs, Volume= 2.473 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 2.05' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.10' S= 0.0300 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=25.01 cfs @ 12.14 hrs HW=2.05' (Free Discharge)↑**1=Culvert** (Inlet Controls 25.01 cfs @ 4.87 fps)

**Summary for Pond 12P: new 48**

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 1.34" for 10-Year event  
 Inflow = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af  
 Outflow = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af, Atten= 0%, Lag= 0.0 min  
 Primary = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 3.35' @ 12.16 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>48.0" Round Culvert</b> L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0560 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

**Primary OutFlow** Max=69.56 cfs @ 12.16 hrs HW=3.33' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 69.56 cfs @ 6.22 fps)

**Summary for Pond 13P: Culvert 6B**

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 1.53" for 10-Year event  
 Inflow = 17.93 cfs @ 12.09 hrs, Volume= 3.394 af  
 Primary = 17.93 cfs @ 12.09 hrs, Volume= 3.394 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 16P: trunk line from condos**

Inflow Area = 5.094 ac, 51.81% Impervious, Inflow Depth = 2.08" for 10-Year event  
 Inflow = 18.33 cfs @ 11.94 hrs, Volume= 0.884 af  
 Outflow = 18.33 cfs @ 11.94 hrs, Volume= 0.884 af, Atten= 0%, Lag= 0.0 min  
 Primary = 18.33 cfs @ 11.94 hrs, Volume= 0.884 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,714.21' @ 11.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,712.00'	<b>30.0" Round Culvert</b> L= 700.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,712.00' / 1,694.00' S= 0.0257 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

**Primary OutFlow** Max=17.94 cfs @ 11.94 hrs HW=1,714.17' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 17.94 cfs @ 3.96 fps)

**Summary for Pond 18P: Culvert 5 - Trail**

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 1.41" for 10-Year event  
 Inflow = 21.80 cfs @ 12.14 hrs, Volume= 2.112 af  
 Primary = 21.80 cfs @ 12.14 hrs, Volume= 2.112 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 20P: road culvert**

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 1.41" for 10-Year event  
 Inflow = 21.53 cfs @ 12.12 hrs, Volume= 1.947 af  
 Outflow = 21.53 cfs @ 12.12 hrs, Volume= 1.947 af, Atten= 0%, Lag= 0.0 min  
 Primary = 21.53 cfs @ 12.12 hrs, Volume= 1.947 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,775.28' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,774.00'	<b>72.0" Round Culvert w/ 24.0" inside fill</b> L= 50.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,772.00' / 1,771.00' S= 0.0200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 20.02 sf

**Primary OutFlow** Max=21.19 cfs @ 12.12 hrs HW=1,775.26' (Free Discharge)

↑1=Culvert (Inlet Controls 21.19 cfs @ 2.84 fps)

**Summary for Pond 21P: Pipe Down Slope**

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 1.46" for 10-Year event  
 Inflow = 19.10 cfs @ 12.13 hrs, Volume= 1.773 af  
 Outflow = 19.11 cfs @ 12.13 hrs, Volume= 1.773 af, Atten= 0%, Lag= 0.1 min  
 Primary = 19.11 cfs @ 12.13 hrs, Volume= 1.773 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,813.77' @ 12.13 hrs Surf.Area= 0.001 ac Storage= 0.002 af

Plug-Flow detention time= 0.3 min calculated for 1.773 af (100% of inflow)

Center-of-Mass det. time= 0.3 min ( 1,029.2 - 1,028.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,812.00'	0.016 af	<b>8.00'D x 14.00'H Vertical Cone/Cylinder</b>

Device	Routing	Invert	Outlet Devices
#1	Primary	1,812.00'	<b>48.0" Round Culvert</b> L= 100.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,812.00' / 1,780.00' S= 0.3200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

**Primary OutFlow** Max=18.87 cfs @ 12.13 hrs HW=1,813.75' (Free Discharge)

↑1=Culvert (Inlet Controls 18.87 cfs @ 3.56 fps)



**Summary for Pond 22P: Pipe Down Slope**

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 1.46" for 10-Year event  
 Inflow = 19.10 cfs @ 12.13 hrs, Volume= 1.773 af  
 Outflow = 19.10 cfs @ 12.13 hrs, Volume= 1.773 af, Atten= 0%, Lag= 0.0 min  
 Primary = 19.10 cfs @ 12.13 hrs, Volume= 1.773 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,823.55' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,822.00'	<b>48.0" Round Culvert</b> L= 100.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,822.00' / 1,818.00' S= 0.0400 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

**Primary OutFlow** Max=18.88 cfs @ 12.13 hrs HW=1,823.54' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 18.88 cfs @ 4.23 fps)

**Summary for Pond 25P: road culvert**

Inflow Area = 5.782 ac, 8.73% Impervious, Inflow Depth = 1.36" for 10-Year event  
 Inflow = 7.98 cfs @ 12.16 hrs, Volume= 0.654 af  
 Primary = 7.98 cfs @ 12.16 hrs, Volume= 0.654 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 26P: road culvert**

Inflow Area = 2.870 ac, 11.22% Impervious, Inflow Depth = 1.49" for 10-Year event  
 Inflow = 6.07 cfs @ 12.04 hrs, Volume= 0.356 af  
 Primary = 6.07 cfs @ 12.04 hrs, Volume= 0.356 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 28P: road culvert**

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 1.47" for 10-Year event  
 Inflow = 14.52 cfs @ 12.11 hrs, Volume= 1.410 af  
 Primary = 14.52 cfs @ 12.11 hrs, Volume= 1.410 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 30P: Culvert 4 -Trail**

Inflow Area = 15.570 ac, 7.12% Impervious, Inflow Depth = 1.38" for 10-Year event  
 Inflow = 20.51 cfs @ 12.14 hrs, Volume= 1.786 af  
 Primary = 20.51 cfs @ 12.14 hrs, Volume= 1.786 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 31P: Trail Culvert**

Inflow Area = 49.423 ac, 9.08% Impervious, Inflow Depth = 1.29" for 10-Year event  
 Inflow = 41.67 cfs @ 12.14 hrs, Volume= 5.296 af  
 Outflow = 41.67 cfs @ 12.14 hrs, Volume= 5.296 af, Atten= 0%, Lag= 0.0 min  
 Primary = 41.67 cfs @ 12.14 hrs, Volume= 5.296 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,628.33' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,626.00'	<b>72.0" Round Culvert</b> L= 300.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,626.00' / 1,610.00' S= 0.0533 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

**Primary OutFlow** Max=41.45 cfs @ 12.14 hrs HW=1,628.32' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 41.45 cfs @ 4.10 fps)

**Summary for Pond 33P: Culvert 12 -Road**

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 1.29" for 10-Year event  
 Inflow = 24.74 cfs @ 12.12 hrs, Volume= 3.949 af  
 Primary = 24.74 cfs @ 12.12 hrs, Volume= 3.949 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 36P: trail culvert**

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 1.13" for 10-Year event  
 Inflow = 15.90 cfs @ 12.43 hrs, Volume= 2.273 af  
 Primary = 15.90 cfs @ 12.43 hrs, Volume= 2.273 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 37P: Road E Culvert**

Inflow Area = 27.875 ac, 6.15% Impervious, Inflow Depth = 1.19" for 10-Year event  
 Inflow = 18.23 cfs @ 12.49 hrs, Volume= 2.765 af  
 Primary = 18.23 cfs @ 12.49 hrs, Volume= 2.765 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 38P: Road A Culvert**

Inflow Area = 21.776 ac, 3.80% Impervious, Inflow Depth = 1.11" for 10-Year event  
 Inflow = 15.27 cfs @ 12.43 hrs, Volume= 2.020 af  
 Primary = 15.27 cfs @ 12.43 hrs, Volume= 2.020 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 41P: Culvert 3 - Trail 3**

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 1.29" for 10-Year event  
Inflow = 42.51 cfs @ 12.44 hrs, Volume= 6.277 af  
Primary = 42.51 cfs @ 12.44 hrs, Volume= 6.277 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 43P: Culvert 11 -Trail 3**

Inflow Area = 35.358 ac, 2.93% Impervious, Inflow Depth = 1.28" for 10-Year event  
Inflow = 34.92 cfs @ 12.33 hrs, Volume= 3.770 af  
Primary = 34.92 cfs @ 12.33 hrs, Volume= 3.770 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 44P: Culvert 13 -Road A**

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 1.23" for 10-Year event  
Inflow = 27.88 cfs @ 12.24 hrs, Volume= 2.715 af  
Primary = 27.88 cfs @ 12.24 hrs, Volume= 2.715 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 105P: Culvert 1 - Trail**

Inflow Area = 180.600 ac, 7.35% Impervious, Inflow Depth = 1.28" for 10-Year event  
Inflow = 103.48 cfs @ 12.57 hrs, Volume= 19.248 af  
Primary = 103.48 cfs @ 12.57 hrs, Volume= 19.248 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 106P: Culvert 2- Trail 2**

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 1.23" for 10-Year event  
Inflow = 98.98 cfs @ 12.40 hrs, Volume= 12.168 af  
Primary = 98.98 cfs @ 12.40 hrs, Volume= 12.168 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 107P: Culvert 10 -Trail 2**

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 1.17" for 10-Year event  
Inflow = 27.78 cfs @ 12.31 hrs, Volume= 3.041 af  
Primary = 27.78 cfs @ 12.31 hrs, Volume= 3.041 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 108P: new 36**

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 1.25" for 10-Year event  
 Inflow = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af  
 Outflow = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af, Atten= 0%, Lag= 0.0 min  
 Primary = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,742.37' @ 12.39 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,740.00'	<b>36.0" Round Culvert</b> L= 70.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,740.00' / 1,738.00' S= 0.0286 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 7.07 sf

**Primary OutFlow** Max=31.39 cfs @ 12.39 hrs HW=1,742.37' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 31.39 cfs @ 5.24 fps)

**Summary for Pond 109P: Culvert 9-Trail Crossing**

Inflow Area = 87.844 ac, 2.93% Impervious, Inflow Depth = 1.17" for 10-Year event  
 Inflow = 49.40 cfs @ 12.53 hrs, Volume= 8.560 af  
 Primary = 49.40 cfs @ 12.53 hrs, Volume= 8.560 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond P1: Condos Complex Wet Pond**

Inflow Area = 11.937 ac, 34.04% Impervious, Inflow Depth = 1.79" for 10-Year event  
 Inflow = 31.00 cfs @ 11.95 hrs, Volume= 1.782 af  
 Outflow = 2.41 cfs @ 12.80 hrs, Volume= 1.774 af, Atten= 92%, Lag= 51.2 min  
 Primary = 1.65 cfs @ 12.80 hrs, Volume= 1.624 af  
 Secondary = 0.76 cfs @ 12.80 hrs, Volume= 0.150 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,684.00' Surf.Area= 29,057 sf Storage= 54,189 cf  
 Peak Elev= 1,686.11' @ 12.80 hrs Surf.Area= 38,467 sf Storage= 98,108 cf (43,919 cf above start)

Plug-Flow detention time= 2,340.5 min calculated for 0.529 af (30% of inflow)  
 Center-of-Mass det. time= 951.6 min ( 1,775.1 - 823.6 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,678.00'	54,189 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,684.00'	66,450 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		120,639 cf	Total Available Storage

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,678.00	4,365	481.7	0	0	4,365
1,679.00	5,839	500.5	5,084	5,084	5,914
1,680.00	7,369	519.4	6,589	11,673	7,531
1,681.00	8,954	538.2	8,149	19,822	9,199
1,682.00	10,598	557.1	9,764	29,586	10,935
1,683.00	12,297	575.9	11,437	41,023	12,722
1,684.00	14,053	594.8	13,165	54,189	14,578

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,684.00	15,004	752.2	0	0	15,004
1,685.00	21,703	791.7	18,251	18,251	19,918
1,686.00	24,167	734.9	22,924	41,175	26,860
1,687.00	26,400	753.8	25,275	66,450	29,220

Device	Routing	Invert	Outlet Devices
#1	Primary	1,681.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,681.00' / 1,680.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,684.00'	<b>3.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,686.00'	<b>36.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,686.00'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=1.62 cfs @ 12.80 hrs HW=1,686.11' (Free Discharge)

- 1=Culvert (Passes 1.62 cfs of 24.22 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.45 cfs @ 6.75 fps)
- 3=Orifice/Grate (Weir Controls 1.17 cfs @ 1.10 fps)

**Secondary OutFlow** Max=0.74 cfs @ 12.80 hrs HW=1,686.11' (Free Discharge)

- 4=Broad-Crested Rectangular Weir (Weir Controls 0.74 cfs @ 0.82 fps)

**Summary for Pond P10: Lot R31 Soil Filter**

Inflow Area =	8.042 ac, 30.75% Impervious, Inflow Depth = 1.84" for 10-Year event
Inflow =	15.67 cfs @ 11.99 hrs, Volume= 1.234 af
Outflow =	1.02 cfs @ 13.81 hrs, Volume= 1.234 af, Atten= 94%, Lag= 108.7 min
Primary =	1.02 cfs @ 13.81 hrs, Volume= 1.234 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,975.33' Surf.Area= 4,651 sf Storage= 614 cf

Peak Elev= 1,982.09' @ 13.81 hrs Surf.Area= 9,133 sf Storage= 33,404 cf (32,790 cf above start)

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Plug-Flow detention time= 834.5 min calculated for 1.220 af (99% of inflow)  
Center-of-Mass det. time= 815.2 min ( 1,648.2 - 833.0 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,975.00'	53,120 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,975.00	4,651	326.9	0.0	0	0	4,651
1,976.50	4,651	326.9	40.0	2,791	2,791	5,141
1,978.00	4,651	326.9	40.0	2,791	5,581	5,632
1,980.00	6,726	364.6	100.0	11,313	16,895	7,818
1,982.00	9,027	402.3	100.0	15,697	32,591	10,244
1,984.00	11,554	440.0	100.0	20,529	53,120	12,907

Device	Routing	Invert	Outlet Devices
#1	Primary	1,974.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,974.00' / 1,972.00' S= 0.0200 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,975.33'	<b>2.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,975.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,982.00'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,982.70'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.97 cfs @ 13.81 hrs HW=1,982.09' (Free Discharge)

- ↑ 1=Culvert (Passes 0.97 cfs of 31.80 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.42 cfs @ 12.42 fps)
- ↑ 3=Exfiltration (Passes 0.42 cfs of 0.63 cfs potential flow)
- ↑ 4=Orifice/Grate (Weir Controls 0.55 cfs @ 0.98 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,975.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P11: Parking Lot G Wet Pond**

Inflow Area = 8.304 ac, 46.98% Impervious, Inflow Depth = 2.08" for 10-Year event  
 Inflow = 30.46 cfs @ 11.95 hrs, Volume= 1.442 af  
 Outflow = 0.67 cfs @ 15.44 hrs, Volume= 1.308 af, Atten= 98%, Lag= 209.9 min  
 Primary = 0.67 cfs @ 15.44 hrs, Volume= 1.308 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,534.10' Surf.Area= 24,527 sf Storage= 51,257 cf  
 Peak Elev= 1,536.66' @ 15.44 hrs Surf.Area= 32,464 sf Storage= 97,649 cf (46,392 cf above start)

**55310.01-West Mountain-PR**

Type II 24-hr 10-Year Rainfall=3.40"

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Plug-Flow detention time= 5,892.1 min calculated for 0.131 af (9% of inflow)  
 Center-of-Mass det. time= 2,217.6 min ( 3,029.3 - 811.7 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,527.00'	49,963 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,534.00'	77,661 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		127,624 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,527.00	3,398	312.2	0	0	3,398
1,528.00	4,364	331.3	3,871	3,871	4,428
1,529.00	5,386	350.1	4,866	8,737	5,502
1,530.00	6,465	369.0	5,917	14,654	6,642
1,531.00	7,600	387.8	7,025	21,679	7,836
1,532.00	8,792	406.7	8,189	29,868	9,095
1,533.00	10,040	425.5	9,409	39,277	10,408
1,534.00	11,345	444.4	10,686	49,963	11,787

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,534.00	12,700	621.7	0	0	12,700
1,535.00	17,927	661.0	15,239	15,239	16,762
1,536.00	19,949	587.1	18,929	34,168	24,129
1,537.00	21,739	606.0	20,838	55,005	26,020
1,538.00	23,585	624.8	22,656	77,661	27,961

Device	Routing	Invert	Outlet Devices
#1	Primary	1,530.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,530.00' / 1,528.00' S= 0.0200 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf
#2	Device 1	1,534.10'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,536.60'	<b>36.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,536.90'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.60 cfs @ 15.44 hrs HW=1,536.66' (Free Discharge)

- ↑1=Culvert (Passes 0.60 cfs of 61.03 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.17 cfs @ 7.58 fps)
- ↑3=Orifice/Grate (Weir Controls 0.44 cfs @ 0.79 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,534.10' (Free Discharge)

- ↑4=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P12: Drop-off Parking Lot Soil Filter**

Inflow Area = 4.069 ac, 25.29% Impervious, Inflow Depth = 1.80" for 10-Year event  
 Inflow = 8.89 cfs @ 11.94 hrs, Volume= 0.610 af  
 Outflow = 0.20 cfs @ 18.38 hrs, Volume= 0.610 af, Atten= 98%, Lag= 386.8 min  
 Primary = 0.20 cfs @ 18.38 hrs, Volume= 0.610 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,466.33' Surf.Area= 3,179 sf Storage= 420 cf  
 Peak Elev= 1,472.51' @ 18.38 hrs Surf.Area= 6,333 sf Storage= 19,985 cf (19,566 cf above start)

Plug-Flow detention time= 1,488.1 min calculated for 0.600 af (98% of inflow)  
 Center-of-Mass det. time= 1,453.1 min ( 2,284.0 - 830.9 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,466.00'	30,846 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,466.00	3,179	247.1	0.0	0	0	3,179
1,467.50	3,179	247.1	40.0	1,907	1,907	3,550
1,469.00	3,179	247.1	40.0	1,907	3,815	3,920
1,470.00	3,948	265.9	100.0	3,557	7,371	4,730
1,472.00	5,657	303.6	100.0	9,554	16,925	6,530
1,473.00	7,016	329.2	100.0	6,324	23,250	7,858
1,474.00	8,192	360.5	100.0	7,596	30,846	9,610

Device	Routing	Invert	Outlet Devices
#1	Primary	1,466.00'	<b>18.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,466.00' / 1,464.00' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	1,466.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,466.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,472.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,473.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.17 cfs @ 18.38 hrs HW=1,472.51' (Free Discharge)  
 1=Outlet Culvert (Passes 0.17 cfs of 16.12 cfs potential flow)  
 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 11.91 fps)  
 3=Exfiltration (Passes 0.15 cfs of 0.44 cfs potential flow)  
 4=Orifice/Grate (Weir Controls 0.02 cfs @ 0.34 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,466.33' (Free Discharge)  
 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)



**Summary for Pond P13: Parking Lot H Wet Pond**

Inflow Area = 2.921 ac, 40.05% Impervious, Inflow Depth = 2.01" for 10-Year event  
 Inflow = 11.17 cfs @ 11.93 hrs, Volume= 0.489 af  
 Outflow = 0.14 cfs @ 18.96 hrs, Volume= 0.487 af, Atten= 99%, Lag= 422.1 min  
 Primary = 0.14 cfs @ 18.96 hrs, Volume= 0.487 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,567.00' Surf.Area= 11,858 sf Storage= 14,847 cf  
 Peak Elev= 1,568.77' @ 18.96 hrs Surf.Area= 16,824 sf Storage= 30,559 cf (15,712 cf above start)

Plug-Flow detention time= 2,851.2 min calculated for 0.147 af (30% of inflow)  
 Center-of-Mass det. time= 1,399.2 min ( 2,212.7 - 813.5 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,561.00'	14,847 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,567.00'	30,200 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		45,047 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,561.00	495	188.6	0	0	495
1,566.00	4,031	282.9	9,898	9,898	4,224
1,567.00	5,929	467.9	4,950	14,847	15,284

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,567.00	5,929	467.9	0	0	5,929
1,568.00	9,766	479.1	7,768	7,768	6,897
1,569.00	11,246	454.1	10,497	18,265	8,811
1,570.00	12,637	473.0	11,935	30,200	10,280

Device	Routing	Invert	Outlet Devices
#1	Primary	1,560.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,560.00' / 1,559.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf
#2	Device 1	1,567.00'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,568.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,569.00'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.14 cfs @ 18.96 hrs HW=1,568.77' (Free Discharge)

- ↑ 1=Culvert (Passes 0.14 cfs of 72.45 cfs potential flow)
  - ↑ 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 6.25 fps)
  - ↑ 3=Orifice/Grate ( Controls 0.00 cfs)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,567.00' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P14: Timbers 1-7 Wet Pond**

Inflow Area = 7.622 ac, 23.79% Impervious, Inflow Depth = 1.49" for 10-Year event  
 Inflow = 22.18 cfs @ 11.93 hrs, Volume= 0.946 af  
 Outflow = 1.47 cfs @ 12.61 hrs, Volume= 0.941 af, Atten= 93%, Lag= 40.6 min  
 Primary = 1.47 cfs @ 12.61 hrs, Volume= 0.941 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,721.00' Surf.Area= 19,738 sf Storage= 31,523 cf  
 Peak Elev= 1,722.56' @ 12.61 hrs Surf.Area= 26,164 sf Storage= 52,722 cf (21,199 cf above start)

Plug-Flow detention time= 2,525.8 min calculated for 0.218 af (23% of inflow)  
 Center-of-Mass det. time= 857.0 min ( 1,693.2 - 836.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,715.00'	31,523 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,721.00'	46,722 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		78,245 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,715.00	1,909	325.0	0	0	1,909
1,716.00	2,912	343.8	2,393	2,393	2,964
1,717.00	3,972	362.7	3,428	5,821	4,084
1,718.00	5,088	381.6	4,519	10,340	5,263
1,719.00	6,261	400.4	5,664	16,004	6,497
1,720.00	7,490	419.3	6,866	22,870	7,796
1,721.00	9,869	603.5	8,652	31,523	22,797

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,721.00	9,869	603.5	0	0	9,869
1,722.00	15,216	645.8	12,446	12,446	14,120
1,723.00	17,184	596.9	16,190	28,636	18,996
1,724.00	19,003	615.8	18,086	46,722	20,918

Device	Routing	Invert	Outlet Devices
#1	Primary	1,714.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,714.00' / 1,713.00' S= 0.0100 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf

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#2	Device 1	1,721.00'	<b>2.5" Vert. Orifice/Grate - Gravel Bench Underdrain</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,722.40'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,722.80'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=1.46 cfs @ 12.61 hrs HW=1,722.56' (Free Discharge)

- ↑ 1=Culvert (Passes 1.46 cfs of 71.37 cfs potential flow)
- ↑ 2=Orifice/Grate - Gravel Bench Underdrain(Orifice Controls 0.20 cfs @ 5.80 fps)
- ↑ 3=Orifice/Grate (Weir Controls 1.26 cfs @ 1.29 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,721.00' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir( Controls 0.00 cfs)

**Summary for Pond P16: Timbers 10 Soil Filter**

Inflow Area =	0.660 ac, 35.00% Impervious, Inflow Depth = 1.70" for 10-Year event
Inflow =	2.18 cfs @ 11.93 hrs, Volume= 0.094 af
Outflow =	0.14 cfs @ 12.64 hrs, Volume= 0.096 af, Atten= 94%, Lag= 42.8 min
Primary =	0.14 cfs @ 12.64 hrs, Volume= 0.096 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 2,085.33' Surf.Area= 877 sf Storage= 116 cf

Peak Elev= 2,088.72' @ 12.64 hrs Surf.Area= 1,266 sf Storage= 1,815 cf (1,699 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow)

Center-of-Mass det. time= 114.4 min ( 940.9 - 826.5 )

Volume	Invert	Avail.Storage	Storage Description			
#1	2,085.00'	9,992 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,085.00	877	192.0	0.0	0	0	877
2,086.50	877	192.0	40.0	526	526	1,165
2,088.00	877	192.0	40.0	526	1,052	1,453
2,090.00	2,142	229.7	100.0	2,926	3,979	2,787
2,092.00	3,964	290.6	100.0	6,013	9,992	5,361

Device	Routing	Invert	Outlet Devices
#1	Primary	2,085.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,085.00' / 2,084.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	2,085.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	2,085.00'	<b>3.000 in/hr Exfiltration over Surface area</b>

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#4	Device 1	2,091.40'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	2,091.50'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.14 cfs @ 12.64 hrs HW=2,088.72' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.14 cfs of 19.68 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 8.81 fps)
- ↑ 3=Exfiltration (Exfiltration Controls 0.09 cfs)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=2,085.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P17: Timbers 11-14 Soil Filter**

Inflow Area =	1.829 ac, 34.99% Impervious, Inflow Depth = 1.93" for 10-Year event
Inflow =	6.18 cfs @ 11.96 hrs, Volume= 0.294 af
Outflow =	0.22 cfs @ 13.75 hrs, Volume= 0.294 af, Atten= 96%, Lag= 107.3 min
Primary =	0.22 cfs @ 13.75 hrs, Volume= 0.294 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 2,119.33' Surf.Area= 2,430 sf Storage= 321 cf

Peak Elev= 2,123.72' @ 13.75 hrs Surf.Area= 3,752 sf Storage= 8,206 cf (7,885 cf above start)

Plug-Flow detention time= 752.1 min calculated for 0.287 af (97% of inflow)

Center-of-Mass det. time= 714.0 min ( 1,533.7 - 819.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	2,119.00'	13,840 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,119.00	2,430	238.8	0.0	0	0	2,430
2,120.50	2,430	238.8	40.0	1,458	1,458	2,788
2,122.00	2,430	238.8	40.0	1,458	2,916	3,146
2,124.00	3,989	280.8	100.0	6,355	9,271	4,959
2,125.00	5,174	303.4	100.0	4,569	13,840	6,050

Device	Routing	Invert	Outlet Devices
#1	Primary	2,119.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,119.00' / 2,117.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	2,119.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	2,119.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	2,123.70'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600

#5 Secondary 2,124.00' Limited to weir flow at low heads  
**6.0' long x 8.0' breadth Broad-Crested Rectangular Weir**  
 Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00  
 2.50 3.00 3.50 4.00 4.50 5.00 5.50  
 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64  
 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.20 cfs @ 13.75 hrs HW=2,123.72' (Free Discharge)

- 1=Outlet Culvert (Passes 0.20 cfs of 23.05 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 10.02 fps)
- 3=Exfiltration (Passes 0.12 cfs of 0.26 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 0.08 cfs @ 0.51 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,119.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P2: Townhomes 3-6 Soil Filter**

Inflow Area = 3.212 ac, 25.50% Impervious, Inflow Depth = 1.42" for 10-Year event  
 Inflow = 6.78 cfs @ 12.03 hrs, Volume= 0.381 af  
 Outflow = 0.18 cfs @ 16.29 hrs, Volume= 0.381 af, Atten= 97%, Lag= 256.1 min  
 Primary = 0.18 cfs @ 16.29 hrs, Volume= 0.381 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,739.33' Surf.Area= 3,904 sf Storage= 515 cf  
 Peak Elev= 1,743.51' @ 16.29 hrs Surf.Area= 5,369 sf Storage= 11,668 cf (11,153 cf above start)

Plug-Flow detention time= 1,105.0 min calculated for 0.369 af (97% of inflow)  
 Center-of-Mass det. time= 1,051.2 min ( 1,898.0 - 846.8 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,739.00'	28,913 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,739.00	3,904	312.1	0.0	0	0	3,904
1,740.50	3,904	312.1	40.0	2,342	2,342	4,372
1,742.00	3,904	312.1	40.0	2,342	4,685	4,840
1,744.00	5,890	349.8	100.0	9,726	14,411	6,933
1,746.00	8,703	412.7	100.0	14,502	28,913	10,826

Device	Routing	Invert	Outlet Devices
#1	Primary	1,738.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,738.00' / 1,736.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,739.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,739.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,743.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

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#5 Secondary 1,744.00' **4.0' long x 8.0' breadth Broad-Crested Rectangular Weir**  
 Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00  
 2.50 3.00 3.50 4.00 4.50 5.00 5.50  
 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64  
 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.15 cfs @ 16.29 hrs HW=1,743.51' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.15 cfs of 25.37 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 9.77 fps)
- ↑ 3=Exfiltration (Passes 0.12 cfs of 0.37 cfs potential flow)
- ↑ 4=Orifice/Grate (Weir Controls 0.03 cfs @ 0.37 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,739.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P3: Townhomes 1-2 Soil Filter**

Inflow Area = 7.421 ac, 27.30% Impervious, Inflow Depth = 1.62" for 10-Year event  
 Inflow = 16.98 cfs @ 11.97 hrs, Volume= 1.003 af  
 Outflow = 0.34 cfs @ 18.42 hrs, Volume= 1.003 af, Atten= 98%, Lag= 386.7 min  
 Primary = 0.34 cfs @ 18.42 hrs, Volume= 1.003 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,751.33' Surf.Area= 5,240 sf Storage= 692 cf  
 Peak Elev= 1,757.60' @ 18.42 hrs Surf.Area= 9,239 sf Storage= 32,143 cf (31,452 cf above start)

Plug-Flow detention time= 1,340.8 min calculated for 0.987 af (98% of inflow)  
 Center-of-Mass det. time= 1,307.6 min ( 2,143.3 - 835.7 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,751.00'	57,886 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,751.00	5,240	336.6	0.0	0	0	5,240
1,752.50	5,240	336.6	40.0	3,144	3,144	5,745
1,754.00	5,240	336.6	40.0	3,144	6,288	6,250
1,756.00	7,373	374.3	100.0	12,552	18,840	8,498
1,758.00	9,731	412.0	100.0	17,050	35,890	10,984
1,760.00	12,316	449.7	100.0	21,996	57,886	13,709

Device	Routing	Invert	Outlet Devices
#1	Primary	1,750.00'	<b>18.0" Round Outlet Culvert</b> L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,750.00' / 1,748.00' S= 0.0400 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	1,751.33'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,751.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,757.50'	<b>24.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,758.00'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>

Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

Primary OutFlow Max=0.33 cfs @ 18.42 hrs HW=1,757.60' (Free Discharge)

- 1=Outlet Culvert (Passes 0.33 cfs of 17.59 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.26 cfs @ 11.98 fps)
- 3=Exfiltration (Passes 0.26 cfs of 0.64 cfs potential flow)
- 4=Orifice/Grate (Orifice Controls 0.07 cfs @ 1.10 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,751.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P4: Bottom Road A Soil Filter**

Inflow Area =	2.357 ac, 32.63% Impervious, Inflow Depth = 1.88" for 10-Year event
Inflow =	5.31 cfs @ 11.97 hrs, Volume= 0.370 af
Outflow =	0.16 cfs @ 16.08 hrs, Volume= 0.370 af, Atten= 97%, Lag= 246.3 min
Primary =	0.16 cfs @ 16.08 hrs, Volume= 0.370 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,761.33' Surf.Area= 802 sf Storage= 106 cf

Peak Elev= 1,768.57' @ 16.08 hrs Surf.Area= 3,557 sf Storage= 10,440 cf (10,334 cf above start)

Plug-Flow detention time= 756.2 min calculated for 0.368 af (99% of inflow)

Center-of-Mass det. time= 744.8 min ( 1,571.4 - 826.5 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,761.00'	16,287 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,761.00	802	158.2	0.0	0	0	802
1,762.50	802	158.2	40.0	481	481	1,039
1,764.00	802	158.2	40.0	481	962	1,277
1,766.00	1,864	195.9	100.0	2,592	3,555	2,396
1,768.00	3,153	233.6	100.0	4,961	8,516	3,755
1,770.00	4,668	271.3	100.0	7,772	16,287	5,351

Device	Routing	Invert	Outlet Devices
#1	Primary	1,760.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,760.00' / 1,758.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,761.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,761.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,768.70'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,768.80'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>

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Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

**Primary OutFlow** Max=0.16 cfs @ 16.08 hrs HW=1,768.57' (Free Discharge)

- 1=Outlet Culvert (Passes 0.16 cfs of 32.87 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.16 cfs @ 12.90 fps)
- 3=Exfiltration (Passes 0.16 cfs of 0.25 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,761.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P5: Roads A and F Soil Filter**

Inflow Area = 4.982 ac, 30.33% Impervious, Inflow Depth = 1.49" for 10-Year event  
 Inflow = 9.75 cfs @ 11.97 hrs, Volume= 0.617 af  
 Outflow = 0.82 cfs @ 12.98 hrs, Volume= 0.617 af, Atten= 92%, Lag= 60.6 min  
 Primary = 0.82 cfs @ 12.98 hrs, Volume= 0.617 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,831.33' Surf.Area= 3,217 sf Storage= 425 cf  
 Peak Elev= 1,836.60' @ 12.98 hrs Surf.Area= 5,562 sf Storage= 15,147 cf (14,722 cf above start)

Plug-Flow detention time= 958.6 min calculated for 0.607 af (98% of inflow)  
 Center-of-Mass det. time= 931.5 min ( 1,774.1 - 842.6 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,831.00'	31,588 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,831.00	3,217	222.2	0.0	0	0	3,217
1,832.50	3,217	222.2	40.0	1,930	1,930	3,550
1,834.00	3,217	222.2	40.0	1,930	3,860	3,884
1,838.00	7,083	359.0	100.0	20,098	23,958	10,317
1,839.00	8,190	378.0	100.0	7,630	31,588	11,490

Device	Routing	Invert	Outlet Devices
#1	Primary	1,830.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,830.00' / 1,828.00' S= 0.0200 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,831.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,831.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,836.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,836.80'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00



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	2.50	3.00	3.50	4.00	4.50	5.00	5.50
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66
	2.64	2.65	2.65	2.66	2.66	2.68	2.70

**Primary OutFlow** Max=0.81 cfs @ 12.98 hrs HW=1,836.60' (Free Discharge)

- 1=Culvert (Passes 0.81 cfs of 28.27 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 10.99 fps)
- 3=Exfiltration (Passes 0.13 cfs of 0.39 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 0.68 cfs @ 1.05 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,831.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P6: Lot R43 Soil Filter**

Inflow Area = 1.084 ac, 37.36% Impervious, Inflow Depth = 1.93" for 10-Year event  
 Inflow = 3.02 cfs @ 12.03 hrs, Volume= 0.174 af  
 Outflow = 0.05 cfs @ 18.94 hrs, Volume= 0.174 af, Atten= 98%, Lag= 414.7 min  
 Primary = 0.05 cfs @ 18.94 hrs, Volume= 0.174 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,823.33' Surf.Area= 2,234 sf Storage= 295 cf  
 Peak Elev= 1,827.13' @ 18.94 hrs Surf.Area= 3,242 sf Storage= 5,758 cf (5,463 cf above start)

Plug-Flow detention time= 1,296.0 min calculated for 0.168 af (96% of inflow)  
 Center-of-Mass det. time= 1,219.4 min ( 2,044.7 - 825.2 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,823.00'	8,962 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,823.00	2,234	252.5	0.0	0	0	2,234
1,824.50	2,234	252.5	40.0	1,340	1,340	2,613
1,826.00	2,234	252.5	40.0	1,340	2,681	2,992
1,828.00	4,145	312.6	100.0	6,281	8,962	5,753

Device	Routing	Invert	Outlet Devices
#1	Primary	1,823.00'	<b>15.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,823.00' / 1,822.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#2	Device 1	1,823.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,823.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,827.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.05 cfs @ 18.94 hrs HW=1,827.13' (Free Discharge)

- 1=Outlet Culvert (Passes 0.05 cfs of 8.73 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.34 fps)
- 3=Exfiltration (Passes 0.05 cfs of 0.23 cfs potential flow)
- 4=Orifice/Grate ( Controls 0.00 cfs)

**Summary for Pond P7: Lot R42 Soil Filter**

Inflow Area = 1.546 ac, 30.92% Impervious, Inflow Depth = 1.70" for 10-Year event  
 Inflow = 3.37 cfs @ 12.07 hrs, Volume= 0.219 af  
 Outflow = 0.08 cfs @ 17.94 hrs, Volume= 0.219 af, Atten= 98%, Lag= 351.9 min  
 Primary = 0.08 cfs @ 17.94 hrs, Volume= 0.219 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,878.33' Surf.Area= 1,972 sf Storage= 260 cf  
 Peak Elev= 1,882.76' @ 17.94 hrs Surf.Area= 3,012 sf Storage= 6,713 cf (6,453 cf above start)

Plug-Flow detention time= 988.8 min calculated for 0.213 af (97% of inflow)  
 Center-of-Mass det. time= 943.4 min ( 1,781.9 - 838.5 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,878.00'	26,005 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,878.00	1,972	181.3	0.0	0	0	1,972
1,879.50	1,972	181.3	40.0	1,183	1,183	2,244
1,881.00	1,972	181.3	40.0	1,183	2,366	2,516
1,883.00	3,173	219.0	100.0	5,098	7,464	3,782
1,885.00	4,600	256.7	100.0	7,729	15,193	5,286
1,887.00	6,254	294.4	100.0	10,812	26,005	7,029

Device	Routing	Invert	Outlet Devices
#1	Primary	1,878.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,878.00' / 1,876.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,878.33'	<b>1.2" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,878.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,882.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,883.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.08 cfs @ 17.94 hrs HW=1,882.76' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.08 cfs of 23.15 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.08 cfs @ 10.07 fps)
- ↑ 3=Exfiltration (Passes 0.08 cfs of 0.21 cfs potential flow)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,878.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P8: Lot R40 Soil Filter**

Inflow Area = 1.823 ac, 26.66% Impervious, Inflow Depth = 1.63" for 10-Year event  
 Inflow = 4.06 cfs @ 12.05 hrs, Volume= 0.247 af  
 Outflow = 0.19 cfs @ 14.06 hrs, Volume= 0.247 af, Atten= 95%, Lag= 120.6 min  
 Primary = 0.19 cfs @ 14.06 hrs, Volume= 0.247 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,924.33' Surf.Area= 2,235 sf Storage= 295 cf  
 Peak Elev= 1,928.63' @ 14.06 hrs Surf.Area= 3,454 sf Storage= 7,211 cf (6,916 cf above start)

Plug-Flow detention time= 1,288.3 min calculated for 0.240 af (97% of inflow)  
 Center-of-Mass det. time= 1,235.7 min ( 2,075.6 - 839.9 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,924.00'	12,739 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,924.00	2,235	198.8	0.0	0	0	2,235
1,925.50	2,235	198.8	40.0	1,341	1,341	2,533
1,927.00	2,235	198.8	40.0	1,341	2,682	2,831
1,928.00	2,859	217.6	100.0	2,541	5,223	3,488
1,929.00	3,828	326.8	100.0	3,332	8,554	8,227
1,930.00	4,552	295.9	100.0	4,185	12,739	9,789

Device	Routing	Invert	Outlet Devices
#1	Primary	1,924.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,924.00' / 1,922.00' S= 0.0200 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,924.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,924.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,928.60'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,929.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.17 cfs @ 14.06 hrs HW=1,928.63' (Free Discharge)

- 1=Outlet Culvert (Passes 0.17 cfs of 22.76 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.94 fps)
- 3=Exfiltration (Passes 0.05 cfs of 0.24 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 0.11 cfs @ 0.57 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,924.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P9: Lot R51 Soil Filter**

Inflow Area = 1.248 ac, 21.63% Impervious, Inflow Depth = 1.53" for 10-Year event  
 Inflow = 3.30 cfs @ 11.98 hrs, Volume= 0.160 af  
 Outflow = 0.11 cfs @ 14.11 hrs, Volume= 0.160 af, Atten= 97%, Lag= 128.0 min  
 Primary = 0.11 cfs @ 14.11 hrs, Volume= 0.160 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,941.33' Surf.Area= 1,440 sf Storage= 190 cf  
 Peak Elev= 1,945.51' @ 14.11 hrs Surf.Area= 2,306 sf Storage= 4,530 cf (4,340 cf above start)

Plug-Flow detention time= 933.0 min calculated for 0.155 af (97% of inflow)  
 Center-of-Mass det. time= 889.0 min ( 1,724.3 - 835.3 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,941.00'	22,064 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,941.00	1,440	179.7	0.0	0	0	1,440
1,942.50	1,440	179.7	40.0	864	864	1,710
1,944.00	1,440	179.7	40.0	864	1,728	1,979
1,946.00	2,631	217.4	100.0	4,012	5,740	3,235
1,948.00	4,049	255.1	100.0	6,629	12,369	4,729
1,950.00	5,693	292.8	100.0	9,695	22,064	6,462

Device	Routing	Invert	Outlet Devices
#1	Primary	1,940.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,940.00' / 1,938.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,941.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,941.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,945.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,945.80'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.07 cfs @ 14.11 hrs HW=1,945.51' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.07 cfs of 25.36 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.79 fps)
- ↑ 3=Exfiltration (Passes 0.05 cfs of 0.16 cfs potential flow)
- ↑ 4=Orifice/Grate (Weir Controls 0.02 cfs @ 0.32 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,941.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Link SP1:**

Inflow Area = 327.994 ac, 5.46% Impervious, Inflow Depth > 1.28" for 10-Year event  
 Inflow = 204.79 cfs @ 12.51 hrs, Volume= 35.092 af  
 Primary = 204.79 cfs @ 12.51 hrs, Volume= 35.092 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP10:**

Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP11:**

Inflow Area = 6.579 ac, 3.57% Impervious, Inflow Depth = 1.42" for 10-Year event  
 Inflow = 13.41 cfs @ 12.03 hrs, Volume= 0.780 af  
 Primary = 13.41 cfs @ 12.03 hrs, Volume= 0.780 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP12:**

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 1.41" for 10-Year event  
 Inflow = 25.13 cfs @ 12.14 hrs, Volume= 2.473 af  
 Primary = 25.13 cfs @ 12.14 hrs, Volume= 2.473 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP13:**

Inflow Area = 12.275 ac, 33.70% Impervious, Inflow Depth > 1.78" for 10-Year event  
 Inflow = 2.48 cfs @ 12.79 hrs, Volume= 1.822 af  
 Primary = 2.48 cfs @ 12.79 hrs, Volume= 1.822 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP14:**

Inflow Area = 1.238 ac, 3.31% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 2.17 cfs @ 12.09 hrs, Volume= 0.147 af  
Primary = 2.17 cfs @ 12.09 hrs, Volume= 0.147 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP15:**

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 1.52" for 10-Year event  
Inflow = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af  
Primary = 19.76 cfs @ 12.10 hrs, Volume= 3.535 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP16:**

Inflow Area = 1.173 ac, 3.15% Impervious, Inflow Depth = 1.23" for 10-Year event  
Inflow = 1.73 cfs @ 12.10 hrs, Volume= 0.120 af  
Primary = 1.73 cfs @ 12.10 hrs, Volume= 0.120 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP17:**

Inflow Area = 4.548 ac, 20.07% Impervious, Inflow Depth = 1.40" for 10-Year event  
Inflow = 3.61 cfs @ 11.94 hrs, Volume= 0.532 af  
Primary = 3.61 cfs @ 11.94 hrs, Volume= 0.532 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP18:**

Inflow Area = 0.186 ac, 11.29% Impervious, Inflow Depth = 1.49" for 10-Year event  
Inflow = 0.52 cfs @ 11.95 hrs, Volume= 0.023 af  
Primary = 0.52 cfs @ 11.95 hrs, Volume= 0.023 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP19:**

Inflow Area = 0.648 ac, 3.70% Impervious, Inflow Depth = 1.29" for 10-Year event  
Inflow = 1.20 cfs @ 12.04 hrs, Volume= 0.070 af  
Primary = 1.20 cfs @ 12.04 hrs, Volume= 0.070 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP2:**

Inflow Area = 1.275 ac, 5.49% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 1.84 cfs @ 12.16 hrs, Volume= 0.151 af  
Primary = 1.84 cfs @ 12.16 hrs, Volume= 0.151 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP20:**

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 1.25" for 10-Year event  
Inflow = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af  
Primary = 31.43 cfs @ 12.39 hrs, Volume= 5.216 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP21:**

Inflow Area = 7.874 ac, 25.98% Impervious, Inflow Depth = 1.61" for 10-Year event  
Inflow = 1.10 cfs @ 12.05 hrs, Volume= 1.057 af  
Primary = 1.10 cfs @ 12.05 hrs, Volume= 1.057 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP22:**

Inflow Area = 0.328 ac, 7.62% Impervious, Inflow Depth = 1.49" for 10-Year event  
Inflow = 0.70 cfs @ 12.04 hrs, Volume= 0.041 af  
Primary = 0.70 cfs @ 12.04 hrs, Volume= 0.041 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP23:**

Inflow Area = 2.727 ac, 29.63% Impervious, Inflow Depth = 1.84" for 10-Year event  
Inflow = 1.07 cfs @ 12.00 hrs, Volume= 0.418 af  
Primary = 1.07 cfs @ 12.00 hrs, Volume= 0.418 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP24:**

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af  
Primary = 21.69 cfs @ 12.13 hrs, Volume= 1.633 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP3:**

Inflow Area = 4.241 ac, 25.14% Impervious, Inflow Depth = 1.79" for 10-Year event  
Inflow = 0.51 cfs @ 12.07 hrs, Volume= 0.634 af  
Primary = 0.51 cfs @ 12.07 hrs, Volume= 0.634 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP4:**

Inflow Area = 62.647 ac, 2.01% Impervious, Inflow Depth = 1.30" for 10-Year event  
Inflow = 48.22 cfs @ 12.11 hrs, Volume= 6.771 af  
Primary = 48.22 cfs @ 12.11 hrs, Volume= 6.771 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP5:**

Inflow Area = 2.355 ac, 0.51% Impervious, Inflow Depth = 1.36" for 10-Year event  
Inflow = 2.89 cfs @ 12.22 hrs, Volume= 0.266 af  
Primary = 2.89 cfs @ 12.22 hrs, Volume= 0.266 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP6:**

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 1.34" for 10-Year event  
Inflow = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af  
Primary = 70.14 cfs @ 12.16 hrs, Volume= 8.382 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP7:**

Inflow Area = 0.872 ac, 6.42% Impervious, Inflow Depth = 1.42" for 10-Year event  
Inflow = 1.69 cfs @ 12.05 hrs, Volume= 0.103 af  
Primary = 1.69 cfs @ 12.05 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP8:**

Inflow Area = 0.344 ac, 19.19% Impervious, Inflow Depth = 1.63" for 10-Year event  
Inflow = 0.81 cfs @ 12.04 hrs, Volume= 0.047 af  
Primary = 0.81 cfs @ 12.04 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs



**Summary for Link SP9:**

Inflow Area = 0.148 ac, 24.32% Impervious, Inflow Depth = 1.70" for 10-Year event

Inflow = 0.37 cfs @ 12.03 hrs, Volume= 0.021 af

Primary = 0.37 cfs @ 12.03 hrs, Volume= 0.021 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Subcatchment 1S: WS 3**

Runoff = 0.54 cfs @ 12.06 hrs, Volume= 0.034 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.032	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.103	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.172	82	Weighted Average
0.135		78.49% Pervious Area
0.037		21.51% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	74	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.4	115	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
14.2	189	Total			

**Summary for Subcatchment 2S: WS 1**

Runoff = 4.10 cfs @ 12.53 hrs, Volume= 0.585 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

Prepared by VHB

Printed 9/24/2021

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.019	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.414	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.134	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.567	77	Weighted Average
3.548		99.47% Pervious Area
0.019		0.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	37	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	102	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
36.2	150	0.0700	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.0	133	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	138	0.0600	10.43	458.93	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050
0.8	505	0.0600	10.43	458.93	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=20.00' D=2.00' Z= 1.0 '/' Top.W=24.00' n= 0.050
51.7	1,065	Total			

**Summary for Subcatchment 3S: WS 1-1**

Runoff = 4.26 cfs @ 12.10 hrs, Volume= 0.298 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.863	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.472	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.479	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.814	77	Weighted Average
1.814		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.9	105	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	60	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.3	328	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
17.3	593	Total			

**Summary for Subcatchment 4S: WS 1-2**

Runoff = 6.64 cfs @ 12.04 hrs, Volume= 0.389 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.685	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.351	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.002	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.130	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.114	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.282	78	Weighted Average
2.280		99.91% Pervious Area
0.002		0.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	194	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	53	0.4900	1.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	327	0.1000	13.40	563.00	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=19.00' D=2.00' Z= 1.0 '/' Top.W=23.00' n= 0.050
12.0	674	Total			

**Summary for Subcatchment 5S: WS 1-3**

Runoff = 17.83 cfs @ 12.14 hrs, Volume= 1.370 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.319	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.938	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
4.092	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.349	77	Weighted Average
8.349		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.1700	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
3.4	596	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
10.1	585	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
20.5	1,281	Total			

**Summary for Subcatchment 6S: WS 1-4**

Runoff = 37.90 cfs @ 12.27 hrs, Volume= 3.836 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
2.284	70	Existing Woods, Good, HSG C
8.316	77	Existing Woods, Good, HSG D
0.588	70	Proposed Woods, Good, HSG C
1.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.088	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.085	71	Proposed meadow, ski trail, HSG C
6.341	78	Proposed meadow, ski trail, HSG D
0.360	71	Proposed meadow, ski lift, HSG C
2.079	78	Proposed meadow, ski lift, HSG D
24.316	76	Weighted Average
24.228		99.64% Pervious Area
0.088		0.36% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	51	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.8	294	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	760	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.0	482	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.5	447	0.1800	2.97		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.1	637	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.1	138	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
31.6	2,809	Total			

**Summary for Subcatchment 7S: WS 1-5**

Runoff = 58.24 cfs @ 12.53 hrs, Volume= 8.421 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"



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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.022	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.752	71	Existing meadow, non-grazed, HSG C
6.694	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
23.036	70	Existing Woods, Good, HSG C
11.631	77	Existing Woods, Good, HSG D
2.098	70	Proposed Woods, Good, HSG C
0.523	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.186	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
7.773	71	Proposed meadow, ski trail, HSG C
4.678	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
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60.422	73	Weighted Average
60.371		99.92% Pervious Area
0.051		0.08% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	52	0.1700	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.8	237	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.2	276	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	148	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.9	402	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	396	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	373	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	334	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.7	331	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	341	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	396	0.2200	15.35	153.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	367	0.2300	15.69	156.92	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	394	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	361	0.1800	13.88	138.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.3	252	0.1500	12.67	126.72	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	333	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.5	440	0.1900	14.26	142.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.6	459	0.1600	13.09	130.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
0.4	334	0.1700	13.49	134.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.050
51.0	6,226	Total			

**Summary for Subcatchment 8S: WS 1-6**

Runoff = 2.94 cfs @ 11.92 hrs, Volume= 0.131 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.181	98	Proposed impervious to be treated, HSG C
0.050	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.262	71	Proposed developed meadow to be treated, HSG C
0.111	78	Proposed developed meadow to be treated, HSG D
0.056	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.660	82	Weighted Average
0.429		65.00% Pervious Area
0.231		35.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.5	80	0.0300	2.60		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.2	107	0.1200	10.21	8.02	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.020 Corrugated PE, corrugated interior
2.1	287	Total			

**Summary for Subcatchment 9S: WS 1-7**

Runoff = 42.77 cfs @ 12.30 hrs, Volume= 4.529 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
10.166	70	Existing Woods, Good, HSG C
8.946	77	Existing Woods, Good, HSG D
1.118	70	Proposed Woods, Good, HSG C
1.643	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.068	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.838	71	Proposed meadow, ski trail, HSG C
5.370	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
31.149	74	Weighted Average
31.081		99.78% Pervious Area
0.068		0.22% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.8	100	0.2700	0.29		<b>Sheet Flow,</b> n= 0.240 P2= 2.40"
1.0	229	0.2700	3.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.5	216	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.1	483	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	251	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	311	0.2300	3.36		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.1	863	0.2500	3.50		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.2	956	0.2100	7.19	21.56	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
7.1	413	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	509	0.1500	10.18	91.58	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' Z= 1.0 '/' Top.W=10.00' n= 0.050
33.2	4,331	Total			

**Summary for Subcatchment 10S: WS 1A**

Runoff = 5.36 cfs @ 12.23 hrs, Volume= 0.505 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
3.076	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.076	77	Weighted Average
3.076		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	31	0.0600	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.2	191	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	59	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	193	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	161	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	107	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	79	0.0500	9.26	314.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=15.00' D=2.00' Z= 1.0 '/' Top.W=19.00' n= 0.050
28.5	821	Total			

**Summary for Subcatchment 11S: WS 1B**

Runoff = 17.11 cfs @ 12.09 hrs, Volume= 1.166 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.425	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.072	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
5.568	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.084	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.429	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.578	79	Weighted Average
6.069		92.26% Pervious Area
0.509		7.74% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.7	336	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch
0.7	339	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	336	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	278	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	283	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.3	118	0.0800	7.46	22.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.4	164	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.1	83	0.1400	9.87	29.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.3	505	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
16.6	2,480	Total			

**Summary for Subcatchment 12S: WS 1B1 - Lot G**

Runoff = 11.26 cfs @ 11.92 hrs, Volume= 0.506 af, Depth= 2.55"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"



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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.145	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.007	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.765	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.438	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.030	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.385	84	Weighted Average
1.620		67.92% Pervious Area
0.765		32.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.5	81	0.0200	2.87		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.3	304	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' /' Top.W=4.00' n= 0.022
2.2	485	Total			

**Summary for Subcatchment 13S: WS 1C**

Runoff = 5.82 cfs @ 12.17 hrs, Volume= 0.477 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.260	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.053	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.261	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.908	77	Weighted Average
2.908		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.6	100	0.0600	0.16		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.2	122	0.0600	1.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	46	0.4800	1.73		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	221	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	154	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	283	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
2.0	88	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
22.9	1,014	Total			

**Summary for Subcatchment 14S: WS 1C1**

Runoff = 42.21 cfs @ 12.11 hrs, Volume= 3.078 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
3.283	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
3.459	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
6.788	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.702	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.321	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.998	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
15.551	82	Weighted Average
12.268		78.89% Pervious Area
3.283		21.11% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	48	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	172	0.1500	6.24		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
1.7	164	0.0500	1.57		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	77	0.3100	3.90		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	157	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.9	350	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.5	219	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.5	251	0.0900	7.92	23.75	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	316	0.0600	6.46	19.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.1	73	0.1900	11.50	34.51	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.7	300	0.0700	6.98	20.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
0.8	179	0.0200	3.73	11.20	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.0	342	0.0500	5.90	17.70	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
18.9	2,648	Total			

**Summary for Subcatchment 15S: WS 1C2- Ex lot E**

Runoff = 29.63 cfs @ 11.96 hrs, Volume= 1.438 af, Depth= 2.92"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
3.136	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.703	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.869	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.211	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.919	88	Weighted Average
2.783		47.02% Pervious Area
3.136		52.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.0	100	0.0500	1.72		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.4	90	0.0500	3.60		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
1.2	114	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	356	0.0300	4.57	13.71	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041
1.2	195	0.0300	2.79		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
0.1	31	0.3900	10.05		<b>Shallow Concentrated Flow,</b> Unpaved Kv= 16.1 fps
5.2	886	Total			

**Summary for Subcatchment 16S: WS 1D- Ex Timbers**

Runoff = 65.98 cfs @ 12.55 hrs, Volume= 9.660 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
4.120	98	Untreated existing impervious, HSG C
1.443	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
13.418	71	Existing meadow, non-grazed, HSG C
9.815	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
16.186	70	Existing Woods, Good, HSG C
12.572	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.473	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.044	98	Untreated proposed impervious, HSG D
0.454	71	Proposed developed meadow, non-grazed, HSG C
1.984	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.717	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
61.234	76	Weighted Average
55.619		90.83% Pervious Area
5.615		9.17% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	60	0.2300	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	130	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	182	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	394	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	298	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.9	183	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	230	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	254	0.1000	8.17	114.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.3	159	0.1300	9.31	130.40	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.3	160	0.1100	8.57	119.95	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
2.2	165	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	245	0.2600	1.27		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	192	0.1000	8.17	114.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.069 Riprap, 6-inch
0.1	231	0.1300	29.21	408.97	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.022
4.5	280	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	134	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.6	334	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	168	0.0800	16.81	235.27	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
1.1	398	0.0100	5.94	83.18	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
0.5	334	0.0400	11.88	166.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00' n= 0.030 Stream, clean & straight
0.2	176	0.1900	15.54	217.55	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=2.00' Z= 1.0 '/' Top.W=9.00'

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Type II 24-hr 25-Year Rainfall=4.20"

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n= 0.050 Mountain streams w/large boulders

53.2 4,707 Total

**Summary for Subcatchment 17S: WS 1D1**

Runoff = 31.40 cfs @ 11.93 hrs, Volume= 1.351 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.085	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.048	71	Existing meadow, non-grazed, HSG C
0.115	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.722	70	Existing Woods, Good, HSG C
0.593	77	Existing Woods, Good, HSG D
0.001	70	Proposed Woods, Good, HSG C
0.067	77	Proposed Woods, Good, HSG D
1.711	98	Proposed impervious to be treated, HSG C
0.017	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
3.438	71	Proposed developed meadow to be treated, HSG C
0.822	78	Proposed developed meadow to be treated, HSG D
0.003	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
7.622	79	Weighted Average
5.809		76.21% Pervious Area
1.813		23.79% Impervious Area



**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1100	2.36		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.0	19	0.1100	6.73		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.3	69	0.0600	3.67		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.5	427	0.1200	13.38	23.65	<b>Pipe Channel,</b> 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.020 Corrugated PE, corrugated interior
0.2	316	0.1900	31.50	125.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.016 Asphalt, rough
0.1	118	0.2400	22.93	72.04	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.020 Corrugated PE, corrugated interior
0.6	372	0.1500	10.92	43.69	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.041 Riprap, 2-inch
2.4	1,421	Total			

**Summary for Subcatchment 18S: WS 1D2**

Runoff = 10.24 cfs @ 12.06 hrs, Volume= 0.639 af, Depth= 1.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.962	70	Existing Woods, Good, HSG C
0.049	77	Existing Woods, Good, HSG D
0.375	70	Proposed Woods, Good, HSG C
0.139	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.277	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
2.431	71	Proposed meadow, ski trail, HSG C
0.552	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.785	72	Weighted Average
4.785		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
6.2	1,123	0.1890	3.04		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.4	1,223	Total			

**Summary for Subcatchment 19S: WS 1D3**

Runoff = 7.98 cfs @ 11.99 hrs, Volume= 0.395 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.374	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.349	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.899	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.003	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.092	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.717	74	Weighted Average
2.340		86.12% Pervious Area
0.377		13.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	93	0.0500	1.69		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
4.5	259	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	220	0.1100	5.20	15.60	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.8	70	0.3100	1.39		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	89	0.1100	5.20	15.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
7.2	731	Total			

**Summary for Subcatchment 20S: WS 1D4**

Runoff = 2.86 cfs @ 12.05 hrs, Volume= 0.170 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.063	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.295	71	Existing meadow, non-grazed, HSG C
0.074	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.307	70	Existing Woods, Good, HSG C
0.158	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.144	71	Proposed developed meadow, non-grazed, HSG C
0.041	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.119	75	Weighted Average
1.019		91.06% Pervious Area
0.100		8.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	59	0.2200	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	157	0.2200	3.28		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	179	0.1000	4.96	14.88	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.2	395	Total			

**Summary for Subcatchment 21S: Untreated from Timbers**

Runoff = 19.04 cfs @ 11.95 hrs, Volume= 0.864 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.234	98	Untreated proposed impervious, HSG C
0.894	98	Untreated proposed impervious, HSG D
1.026	71	Proposed developed meadow, non-grazed, HSG C
2.185	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.186	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.525	81	Weighted Average
3.397		75.07% Pervious Area
1.128		24.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	92	0.1000	2.23		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.3	105	0.1700	6.18		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
3.4	1,120	0.1100	5.56	22.23	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
4.4	1,317	Total			

**Summary for Subcatchment 22S: WS 1D6**

Runoff = 8.36 cfs @ 11.96 hrs, Volume= 0.402 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.103	98	Proposed impervious to be treated, HSG C
0.537	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.127	71	Proposed developed meadow to be treated, HSG C
1.062	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.829	85	Weighted Average
1.189		65.01% Pervious Area
0.640		34.99% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	66	0.2700	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	89	0.0200	2.12		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
0.5	310	0.0600	11.11	8.73	<b>Pipe Channel,</b> 12.0" Round Area= 0.8 sf Perim= 3.1' r= 0.25' n= 0.013 Corrugated PE, smooth interior
5.4	465	Total			

**Summary for Subcatchment 23S: WS 1D7**

Runoff = 13.69 cfs @ 12.41 hrs, Volume= 1.714 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
2.084	71	Existing meadow, non-grazed, HSG C
3.608	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.198	70	Existing Woods, Good, HSG C
1.644	77	Existing Woods, Good, HSG D
0.169	70	Proposed Woods, Good, HSG C
0.253	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.008	98	Untreated proposed impervious, HSG C
0.036	98	Untreated proposed impervious, HSG D
0.091	71	Proposed developed meadow, non-grazed, HSG C
0.164	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.288	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D

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11.787	74	Weighted Average
11.743		99.63% Pervious Area
0.044		0.37% Impervious Area

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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.5	89	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.4	228	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.0	185	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	217	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	273	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	293	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	264	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	251	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	300	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	194	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	138	0.2200	10.15	30.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050
42.2	2,532	Total			

**Summary for Subcatchment 24S: WS 2**

Runoff = 2.69 cfs @ 12.16 hrs, Volume= 0.218 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"



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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.070	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.145	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.048	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.012	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.275	78	Weighted Average
1.205		94.51% Pervious Area
0.070		5.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	35	0.0800	0.05		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.7	242	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	176	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	129	0.0500	1.10	3.30	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.220
22.5	582	Total			

**Summary for Subcatchment 25S: WS 2A**

Runoff = 10.91 cfs @ 11.93 hrs, Volume= 0.490 af, Depth= 2.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.010	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.002	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.910	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.162	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.084	87	Weighted Average
1.164		55.85% Pervious Area
0.920		44.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0300	1.40		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.6	457	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.8	557	Total			

**Summary for Subcatchment 27S: WS 3A**

Runoff = 3.67 cfs @ 12.24 hrs, Volume= 0.352 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.824	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.161	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.048	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.040	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.411	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.480	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.985	79	Weighted Average
1.876		94.51% Pervious Area
0.109		5.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.1	136	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
6.6	241	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	18	0.4400	1.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.7	159	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.7	160	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.4	161	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
29.5	928	Total			

**Summary for Subcatchment 28S: WS 4**

Runoff = 11.72 cfs @ 12.05 hrs, Volume= 0.716 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.009	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.993	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.257	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.104	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.363	77	Weighted Average
4.354		99.79% Pervious Area
0.009		0.21% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.1	269	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.8	100	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	436	0.1100	24.47	2,741.07	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=8.00' Z= 1.0 '/' Top.W=22.00' n= 0.050 Mountain streams w/large boulders
13.2	905	Total			

**Summary for Subcatchment 29S: WS 4A**

Runoff = 55.33 cfs @ 12.04 hrs, Volume= 3.262 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.622	70	Existing Woods, Good, HSG C
10.916	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
1.944	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.218	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
3.977	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
20.677	76	Weighted Average
20.677		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.7	100	0.1900	0.25		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.0	180	0.1900	3.05		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	2,562	0.1550	9.80	58.80	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
12.1	2,842	Total			

**Summary for Subcatchment 30S: WS 4B**

Runoff = 18.03 cfs @ 12.18 hrs, Volume= 1.520 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.657	70	Existing Woods, Good, HSG C
4.078	77	Existing Woods, Good, HSG D
0.184	70	Proposed Woods, Good, HSG C
1.364	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.216	98	Untreated proposed impervious, HSG C
0.393	98	Untreated proposed impervious, HSG D
0.593	71	Proposed developed meadow, non-grazed, HSG C
1.416	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.006	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
8.907	78	Weighted Average
8.298		93.16% Pervious Area
0.609		6.84% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.6	105	0.1900	3.05		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	80	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	255	0.1400	11.64	69.85	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.040 Mountain streams
0.4	218	0.1100	10.32	61.91	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00' n= 0.040 Mountain streams
4.4	217	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.5	189	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.0	142	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
24.0	1,260	Total			

**Summary for Subcatchment 31S: WS 4C**

Runoff = 42.28 cfs @ 12.23 hrs, Volume= 4.008 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.802	71	Existing meadow, non-grazed, HSG C
2.723	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
3.606	70	Existing Woods, Good, HSG C
5.804	77	Existing Woods, Good, HSG D
1.389	70	Proposed Woods, Good, HSG C
2.634	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.213	98	Untreated proposed impervious, HSG C
0.215	98	Untreated proposed impervious, HSG D
0.336	71	Proposed developed meadow, non-grazed, HSG C
0.248	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.924	71	Proposed meadow, ski trail, HSG C
4.557	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
26.451	75	Weighted Average
26.023		98.38% Pervious Area
0.428		1.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	100	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	37	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.0	270	0.3700	1.52		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.8	431	0.3200	3.96		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.7	157	0.3800	1.54		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	702	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
3.5	262	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	740	0.2200	7.36	22.07	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
3.5	248	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	347	0.1600	9.96	59.74	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=5.00' D=1.00' Z= 1.0 '/' Top.W=7.00'



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n= 0.050 Mountain streams w/large boulders

28.4 3,294 Total

**Summary for Subcatchment 32S: WS 5**

Runoff = 4.27 cfs @ 12.21 hrs, Volume= 0.387 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.012	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.790	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.133	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.420	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.355	77	Weighted Average
2.343		99.49% Pervious Area
0.012		0.51% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
2.0	89	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	240	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.1	345	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.4	87	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	88	0.1400	13.49	40.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.030 Stream, clean & straight
26.8	887	Total			

**Summary for Subcatchment 33S: WS 6**

Runoff = 15.71 cfs @ 12.08 hrs, Volume= 1.027 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.041	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
4.020	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.108	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.595	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
1.493	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.257	77	Weighted Average
6.216		99.34% Pervious Area
0.041		0.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	100	0.1100	0.20		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	93	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.3	201	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	261	0.1500	8.96	35.82	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050
0.5	182	0.0700	6.12	24.47	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050
0.8	241	0.0500	5.17	20.68	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
2.8	119	0.0800	0.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	71	0.0600	5.30	15.90	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050
15.1	1,268	Total			

**Summary for Subcatchment 34S: WS 6A**

Runoff = 27.29 cfs @ 12.12 hrs, Volume= 1.999 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.611	70	Existing Woods, Good, HSG C
4.153	77	Existing Woods, Good, HSG D
0.560	70	Proposed Woods, Good, HSG C
0.902	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.406	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.543	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
1.571	71	Proposed meadow, ski trail, HSG C
2.925	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
12.671	76	Weighted Average
12.265		96.80% Pervious Area
0.406		3.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	53	0.1800	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
5.0	440	0.3400	1.46		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	142	0.0800	7.46	22.39	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.041 Riprap, 2-inch
0.6	62	0.5500	1.85		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.1	1,603	0.1370	12.71	152.58	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=2.00' Z= 1.0 '/' Top.W=8.00' n= 0.050 Mountain streams w/large boulders
18.8	2,300	Total			

**Summary for Subcatchment 35S: WS 6B**

Runoff = 4.79 cfs @ 12.11 hrs, Volume= 0.346 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.967	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.116	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.298	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.434	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.815	81	Weighted Average
1.517		83.58% Pervious Area
0.298		16.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	62	0.2500	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.2	93	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	194	0.5500	1.85		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	97	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.8	234	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
18.6	680	Total			

**Summary for Subcatchment 36S: WS 6C**

Runoff = 4.53 cfs @ 12.20 hrs, Volume= 0.399 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.784	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.244	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.214	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.396	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.611	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.249	79	Weighted Average
2.035		90.48% Pervious Area
0.214		9.52% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.0	100	0.1200	0.21		<b>Sheet Flow,</b> n= 0.240 P2= 2.40"
0.6	29	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	82	0.1500	7.25	14.50	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' n= 0.050
7.1	281	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.0	150	0.0100	0.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
25.9	642	Total			

**Summary for Subcatchment 37S: WS 7**

Runoff = 2.45 cfs @ 12.05 hrs, Volume= 0.149 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.056	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.774	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.042	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.872	78	Weighted Average
0.816		93.58% Pervious Area
0.056		6.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	43	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	92	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	253	0.0500	16.63	166.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
0.1	130	0.0800	21.03	210.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=2.00' Z= 1.0 '/' Top.W=7.00' n= 0.022 Earth, clean & straight
13.0	518	Total			

**Summary for Subcatchment 38S: WS 7A**

Runoff = 14.91 cfs @ 11.93 hrs, Volume= 0.664 af, Depth= 2.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.099	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.331	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
1.071	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.420	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.921	86	Weighted Average
1.751		59.95% Pervious Area
1.170		40.05% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0200	1.19		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.2	33	0.0200	2.87		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	37	0.4600	4.75		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	86	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.2	190	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.4	446	Total			



**Summary for Subcatchment 39S: WS 7B**

Runoff = 3.14 cfs @ 11.97 hrs, Volume= 0.151 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.040	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.084	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.066	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.696	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.886	78	Weighted Average
0.886		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	51	0.1700	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	57	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	146	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.0	13	0.4600	4.75		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.5	67	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.9	334	Total			

**Summary for Subcatchment 40S: WS 7C**

Runoff = 14.02 cfs @ 12.13 hrs, Volume= 1.069 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.305	70	Existing Woods, Good, HSG C
3.064	77	Existing Woods, Good, HSG D
0.266	70	Proposed Woods, Good, HSG C
0.578	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.272	98	Untreated proposed impervious, HSG C
0.147	98	Untreated proposed impervious, HSG D
0.492	71	Proposed developed meadow, non-grazed, HSG C
0.644	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.006	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.774	76	Weighted Average
6.355		93.81% Pervious Area
0.419		6.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	65	0.2700	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
7.4	508	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	107	0.0400	4.58	54.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.069 Riprap, 6-inch
0.5	407	0.1600	12.66	142.37	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.50' Z= 1.0 '/' Top.W=9.00' n= 0.050 Mountain streams w/large boulders
1.0	57	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
20.1	1,144	Total			

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Type II 24-hr 25-Year Rainfall=4.20"

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**Summary for Subcatchment 41S: WS 7D**

Runoff = 4.10 cfs @ 12.03 hrs, Volume= 0.238 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.030	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.405	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.649	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.084	85	Weighted Average
0.679		62.64% Pervious Area
0.405		37.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	57	0.2100	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.5	99	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.3	156	Total			

**Summary for Subcatchment 42S: WS 7E**

Runoff = 6.99 cfs @ 12.08 hrs, Volume= 0.466 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.342	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.310	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.879	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.531	80	Weighted Average
2.221		87.75% Pervious Area
0.310		12.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	63	0.2600	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.9	70	0.2600	1.27		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	85	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	179	0.4700	1.71		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	119	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.8	516	Total			

**Summary for Subcatchment 43S: WS 7F**

Runoff = 14.75 cfs @ 12.05 hrs, Volume= 0.895 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
2.397	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.003	98	Untreated proposed impervious, HSG C
0.710	98	Untreated proposed impervious, HSG D
0.001	71	Proposed developed meadow, non-grazed, HSG C
1.579	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.690	81	Weighted Average
3.977		84.80% Pervious Area
0.713		15.20% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	73	0.3500	0.11		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.7	147	0.3500	1.48		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	286	0.2400	12.55	100.38	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' n= 0.050
0.2	170	0.2900	14.15	127.33	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=8.00' D=1.00' Z= 1.0 ' Top.W=10.00' n= 0.050
13.0	676	Total			

**Summary for Subcatchment 44S: WS 7G**

Runoff = 7.86 cfs @ 12.20 hrs, Volume= 0.693 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.232	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.201	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.550	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
1.269	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.379	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.631	81	Weighted Average
3.081		84.85% Pervious Area
0.550		15.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.3	75	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	28	0.5000	1.77		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	194	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.6	181	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
8.2	276	0.0500	0.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	53	0.0400	4.33	12.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050 Mountain streams w/large boulders
26.1	907	Total			

**Summary for Subcatchment 45S: WS 7H**

Runoff = 7.43 cfs @ 11.99 hrs, Volume= 0.374 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.619	70	Existing Woods, Good, HSG C
0.094	77	Existing Woods, Good, HSG D
0.374	70	Proposed Woods, Good, HSG C
0.101	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.323	98	Untreated proposed impervious, HSG C
0.013	98	Untreated proposed impervious, HSG D
0.897	71	Proposed developed meadow, non-grazed, HSG C
0.045	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.002	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.468	75	Weighted Average
2.132		86.39% Pervious Area
0.336		13.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.9	100	0.0600	1.85		<b>Sheet Flow,</b> n= 0.011 P2= 2.40"
0.5	18	0.0600	0.61		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	31	0.4800	1.73		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	196	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	158	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	56	0.0900	6.49	19.48	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050

7.7 559 Total

**Summary for Subcatchment 46S: WS 8**

Runoff = 1.13 cfs @ 12.03 hrs, Volume= 0.066 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.066	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.277	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.001	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.344	81	Weighted Average
0.278		80.81% Pervious Area
0.066		19.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	40	0.1000	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	11	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	276	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022

11.5 327 Total



**Summary for Subcatchment 47S: WS 9**

Runoff = 0.51 cfs @ 12.03 hrs, Volume= 0.029 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.036	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.101	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.011	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.148	82	Weighted Average
0.112		75.68% Pervious Area
0.036		24.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	38	0.0900	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.2	173	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
11.1	211	Total			

**Summary for Subcatchment 48S: WS 10**

Runoff = 4.18 cfs @ 11.99 hrs, Volume= 0.210 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.332	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.175	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.208	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.513	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.228	78	Weighted Average
1.228		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.2	38	0.0900	0.15		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.7	84	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.1	79	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	106	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.6	307	Total			

**Summary for Subcatchment 49S: WS 10A**

Runoff = 8.73 cfs @ 12.03 hrs, Volume= 0.497 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.003	70	Proposed Woods, Good, HSG C
0.037	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.184	98	Untreated proposed impervious, HSG D
0.194	71	Proposed developed meadow, non-grazed, HSG C
1.430	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.172	71	Proposed meadow, ski trail, HSG C
0.891	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.911	78	Weighted Average
2.727		93.68% Pervious Area
0.184		6.32% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	100	0.2200	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.9	122	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.0	154	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.8	204	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.0	580	Total			

**Summary for Subcatchment 50S: WS 10B**

Runoff = 13.30 cfs @ 12.09 hrs, Volume= 0.910 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.876	70	Existing Woods, Good, HSG C
0.149	77	Existing Woods, Good, HSG D
1.162	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.768	98	Untreated proposed impervious, HSG C
0.087	98	Untreated proposed impervious, HSG D
1.449	71	Proposed developed meadow, non-grazed, HSG C
0.473	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
1.043	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
6.007	75	Weighted Average
5.152		85.77% Pervious Area
0.855		14.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.5	355	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	533	0.1200	7.50	22.49	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050 Mountain streams w/large boulders
16.5	944	Total			

**Summary for Subcatchment 51S: WS 10C**

Runoff = 4.71 cfs @ 12.07 hrs, Volume= 0.306 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.003	70	Existing Woods, Good, HSG C
0.288	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.196	98	Proposed impervious to be treated, HSG C
0.282	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.364	71	Proposed developed meadow to be treated, HSG C
0.413	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.546	82	Weighted Average
1.068		69.08% Pervious Area
0.478		30.92% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	66	0.2800	0.10		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.8	146	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	162	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.0	374	Total			

**Summary for Subcatchment 52S: WS 11**

Runoff = 7.03 cfs @ 12.04 hrs, Volume= 0.416 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.051	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.928	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.259	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.566	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.636	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.440	78	Weighted Average
2.389		97.91% Pervious Area
0.051		2.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.7	100	0.1000	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.0	130	0.1000	2.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	29	0.4100	1.60		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	105	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	216	0.1000	4.96	14.88	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.3	580	Total			

**Summary for Subcatchment 53S: WS 11A**

Runoff = 14.96 cfs @ 11.93 hrs, Volume= 0.697 af, Depth= 3.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
1.700	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.906	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.606	91	Weighted Average
0.906		34.77% Pervious Area
1.700		65.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1000	2.27		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.2	21	0.1000	1.66		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	70	0.3700	9.12		<b>Shallow Concentrated Flow,</b> Grassed Waterway Kv= 15.0 fps
1.9	249	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.9	440	Total			

**Summary for Subcatchment 54S: WS 11B**

Runoff = 10.02 cfs @ 11.97 hrs, Volume= 0.492 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.772	98	Proposed impervious to be treated, HSG C
0.167	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.233	71	Proposed developed meadow to be treated, HSG C
0.316	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.488	82	Weighted Average
1.549		62.26% Pervious Area
0.939		37.74% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.8	100	0.4400	0.35		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	36	0.4400	4.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.3	246	0.0200	3.24	38.86	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=2.00' Z= 2.0 '/' Top.W=10.00' n= 0.069 Riprap, 6-inch
6.2	382	Total			



**Summary for Subcatchment 55S: WS 12**

Runoff = 8.76 cfs @ 12.05 hrs, Volume= 0.521 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.035	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.747	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.280	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.243	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.747	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.052	78	Weighted Average
3.017		98.85% Pervious Area
0.035		1.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.5	174	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	17	0.3500	4.14		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	204	0.1700	9.95	49.77	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.050
1.0	245	0.0700	4.15	12.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
12.4	740	Total			

**Summary for Subcatchment 56S: WS 12A**

Runoff = 5.54 cfs @ 11.93 hrs, Volume= 0.238 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.777	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.012	98	Untreated proposed impervious, HSG C
0.025	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
0.576	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.392	78	Weighted Average
1.355		97.34% Pervious Area
0.037		2.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	33	0.0600	1.48		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.4	87	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	254	0.1800	12.62	104.09	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.50' Z= 1.0 '/' Top.W=7.00' n= 0.050 Mountain streams w/large boulders
2.2	374	Total			

**Summary for Subcatchment 57S: WS 12B**

Runoff = 4.16 cfs @ 12.06 hrs, Volume= 0.263 af, Depth= 1.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.082	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.046	98	Untreated proposed impervious, HSG C
0.004	98	Untreated proposed impervious, HSG D
0.995	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.846	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.973	72	Weighted Average
1.923		97.47% Pervious Area
0.050		2.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	304	0.2000	3.13		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.3	307	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.7	90	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
13.8	801	Total			

**Summary for Subcatchment 58S: WS 12C**

Runoff = 7.88 cfs @ 12.08 hrs, Volume= 0.524 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.595	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.366	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.817	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.292	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.070	78	Weighted Average
2.253		73.39% Pervious Area
0.817		26.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
3.1	185	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.7	595	Total			

**Summary for Subcatchment 59S: WS 12D**

Runoff = 5.72 cfs @ 12.05 hrs, Volume= 0.348 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.208	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.233	98	Proposed impervious to be treated, HSG C
0.253	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.613	71	Proposed developed meadow to be treated, HSG C
0.516	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.823	81	Weighted Average
1.337		73.34% Pervious Area
0.486		26.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	49	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.4	83	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	184	0.2700	3.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.1	316	Total			

**Summary for Subcatchment 60S: WS 12E**

Runoff = 3.37 cfs @ 12.06 hrs, Volume= 0.211 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.061	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.300	98	Untreated proposed impervious, HSG D
0.053	71	Proposed developed meadow, non-grazed, HSG C
0.617	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.031	83	Weighted Average
0.731		70.90% Pervious Area
0.300		29.10% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	61	0.2400	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.1	81	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.2	101	0.3200	1.41		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	165	0.2400	3.43		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
13.9	408	Total			

**Summary for Subcatchment 61S: WS 12F**

Runoff = 8.70 cfs @ 12.04 hrs, Volume= 0.509 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
1.236	77	Existing Woods, Good, HSG D
0.064	70	Proposed Woods, Good, HSG C
0.184	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.322	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.770	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.216	71	Proposed meadow, ski trail, HSG C
0.078	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.870	79	Weighted Average
2.548		88.78% Pervious Area
0.322		11.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.7	185	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	257	0.2000	10.34	41.36	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.050 Mountain streams w/large boulders
1.4	103	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
11.9	645	Total			

**Summary for Subcatchment 62S: WS 12G**

Runoff = 11.77 cfs @ 12.16 hrs, Volume= 0.949 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.090	70	Existing Woods, Good, HSG C
1.430	77	Existing Woods, Good, HSG D
0.665	70	Proposed Woods, Good, HSG C
0.340	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.505	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
1.147	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.953	71	Proposed meadow, ski trail, HSG C
0.650	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.782	77	Weighted Average
5.277		91.27% Pervious Area
0.505		8.73% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	142	0.1200	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.9	277	0.1200	2.42		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	569	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.8	222	0.0800	4.74	18.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
22.3	1,210	Total			



**Summary for Subcatchment 63S: WS 13**

Runoff = 1.15 cfs @ 12.03 hrs, Volume= 0.067 af, Depth= 2.37"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.074	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.118	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.146	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.338	82	Weighted Average
0.264		78.11% Pervious Area
0.074		21.89% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	36	0.1100	0.06		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.9	254	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
11.5	290	Total			

**Summary for Subcatchment 64S: WS 13A**

Runoff = 7.46 cfs @ 12.07 hrs, Volume= 0.486 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.353	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.301	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
1.695	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.500	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.849	78	Weighted Average
2.849		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.4	211	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.7	301	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.1	612	Total			

**Summary for Subcatchment 65S: WS 13B**

Runoff = 7.26 cfs @ 11.91 hrs, Volume= 0.313 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.086	70	Existing Woods, Good, HSG C
0.116	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.379	98	Proposed impervious to be treated, HSG C
0.145	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.383	71	Proposed developed meadow to be treated, HSG C
0.416	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.525	83	Weighted Average
1.001		65.64% Pervious Area
0.524		34.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	100	0.0700	1.97		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	25	0.0700	5.37		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	88	0.1600	28.80	90.49	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
0.3	118	0.2000	7.01	21.04	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
1.3	331	Total			

**Summary for Subcatchment 66S: WS 13C**

Runoff = 8.92 cfs @ 12.00 hrs, Volume= 0.471 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.900	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.569	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.469	81	Weighted Average
1.569		63.55% Pervious Area
0.900		36.45% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.1300	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.3	42	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.4	170	0.1800	6.65	19.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.4	97	0.3100	3.90		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.9	409	Total			

**Summary for Subcatchment 67S: WS 14**

Runoff = 3.15 cfs @ 12.09 hrs, Volume= 0.211 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.041	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.657	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.170	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.002	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.192	78	Proposed developed meadow to be treated, HSG D
0.080	71	Proposed meadow, ski trail, HSG C
0.096	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.238	78	Weighted Average
1.197		96.69% Pervious Area
0.041		3.31% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	81	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	28	0.0900	0.75		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	44	0.5000	1.77		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	192	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.0	209	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	70	0.0400	4.33	12.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.050

16.0 624 Total

**Summary for Subcatchment 68S: WS 15**

Runoff = 3.31 cfs @ 12.06 hrs, Volume= 0.206 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.017	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.015	70	Existing Woods, Good, HSG C
0.776	77	Existing Woods, Good, HSG D
0.110	70	Proposed Woods, Good, HSG C
0.042	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.096	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.244	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.306	76	Weighted Average
1.289		98.70% Pervious Area
0.017		1.30% Impervious Area

**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.0	100	0.0700	0.17		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	69	0.0700	1.85		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.1	44	0.5000	4.95		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.2	170	0.1500	12.39	148.70	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50' n= 0.050
1.3	99	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.3	99	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	43	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069
13.7	624	Total			

**Summary for Subcatchment 69S: WS 15A**

Runoff = 5.80 cfs @ 11.94 hrs, Volume= 0.249 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.051	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.047	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.092	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.595	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.785	73	Weighted Average
1.646		92.21% Pervious Area
0.139		7.79% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.6	72	0.0800	1.94		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
2.3	155	0.2100	1.15		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	149	0.1200	11.08	133.00	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.50' D=1.50' Z= 1.0 '/' Top.W=9.50' n= 0.050 Mountain streams w/large boulders
3.1	376	Total			

**Summary for Subcatchment 70S: WS 15B**

Runoff = 7.06 cfs @ 12.07 hrs, Volume= 0.453 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"



**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.688	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.075	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.321	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.519	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.647	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.250	73	Weighted Average
2.929		90.12% Pervious Area
0.321		9.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.0	100	0.1700	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
7.0	502	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	87	0.0700	4.15	12.45	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
14.3	689	Total			

**Summary for Subcatchment 71S: WS 15C**

Runoff = 1.47 cfs @ 12.28 hrs, Volume= 0.151 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.010	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.219	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.551	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.103	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.883	78	Weighted Average
0.664		75.20% Pervious Area
0.219		24.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	66	0.0200	0.04		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
0.1	41	0.4400	4.64		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	108	0.1700	2.89		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.7	141	0.2100	3.21		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
32.4	356	Total			

**Summary for Subcatchment 72S: WS 15D**

Runoff = 1.32 cfs @ 11.98 hrs, Volume= 0.063 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.038	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.042	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.372	71	Proposed developed meadow, non-grazed, HSG C
0.002	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.454	73	Weighted Average
0.412		90.75% Pervious Area
0.042		9.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0	43	0.5100	0.12		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
0.2	68	0.5100	5.00		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
6.2	111	Total			

**Summary for Subcatchment 73S: WS 15E**

Runoff = 3.32 cfs @ 11.97 hrs, Volume= 0.163 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.012	98	Proposed impervious to be treated, HSG C
0.216	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.040	71	Proposed developed meadow to be treated, HSG C
0.526	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.794	83	Weighted Average
0.566		71.28% Pervious Area
0.228		28.72% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.0	21	0.3300	0.09		<b>Sheet Flow,</b> n= 0.800 P2= 2.40"
1.0	286	0.0900	4.70	14.11	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.8	162	0.0500	3.51	10.52	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.3	68	0.0600	3.84	11.52	<b>Trap/Vee/Rect Channel Flow, roadway ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
6.1	537	Total			

**Summary for Subcatchment 74S: WS 15F**

Runoff = 10.90 cfs @ 12.01 hrs, Volume= 0.582 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.227	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.418	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.001	98	Untreated proposed impervious, HSG C
0.508	98	Untreated proposed impervious, HSG D
0.014	71	Proposed developed meadow, non-grazed, HSG C
1.020	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.011	71	Proposed meadow, ski trail, HSG C
0.852	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.051	81	Weighted Average
2.542		83.32% Pervious Area
0.509		16.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.1400	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.5	83	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.1	401	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
9.2	584	Total			

**Summary for Subcatchment 75S: WS 15G**

Runoff = 9.63 cfs @ 12.05 hrs, Volume= 0.574 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.422	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.485	70	Proposed Woods, Good, HSG C
0.098	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.784	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
1.239	71	Proposed developed meadow, non-grazed, HSG C
0.296	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.366	78	Weighted Average
2.540		75.46% Pervious Area
0.826		24.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	54	0.1900	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.3	21	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	544	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
12.5	619	Total			

**Summary for Subcatchment 76S: WS 15H**

Runoff = 23.89 cfs @ 12.42 hrs, Volume= 3.035 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
5.165	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
4.977	70	Existing Woods, Good, HSG C
2.248	77	Existing Woods, Good, HSG D
2.513	70	Proposed Woods, Good, HSG C
0.330	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.827	98	Untreated proposed impervious, HSG C
0.001	98	Untreated proposed impervious, HSG D
1.952	71	Proposed developed meadow, non-grazed, HSG C
0.163	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
3.193	71	Proposed meadow, ski trail, HSG C
0.407	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
21.776	73	Weighted Average
20.948		96.20% Pervious Area
0.828		3.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.8	100	0.1300	0.21		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.6	358	0.2800	3.70		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
17.3	1,352	0.2700	1.30		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.1	765	0.2000	3.13		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.8	793	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
42.6	3,368	Total			

**Summary for Subcatchment 77S: WS 16**

Runoff = 2.60 cfs @ 12.09 hrs, Volume= 0.178 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.083	70	Existing Woods, Good, HSG C
0.657	77	Existing Woods, Good, HSG D
0.054	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.147	71	Proposed developed meadow, non-grazed, HSG C
0.041	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.154	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.173	75	Weighted Average
1.136		96.85% Pervious Area
0.037		3.15% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.0	100	0.0900	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.2	30	0.0900	2.10		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.3	25	0.4000	1.58		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.6	119	0.2500	1.25		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	139	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	161	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	70	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
16.4	644	Total			



**Summary for Subcatchment 78S: WS 17**

Runoff = 5.11 cfs @ 11.94 hrs, Volume= 0.219 af, Depth= 1.97"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.047	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.011	70	Existing Woods, Good, HSG C
0.793	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.047	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.275	71	Proposed developed meadow, non-grazed, HSG C
0.044	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.119	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.336	77	Weighted Average
1.242		92.96% Pervious Area
0.094		7.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	23	0.1700	2.09		<b>Sheet Flow,</b> n= 0.011 P2= 2.40"
0.4	53	0.0800	1.98		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.1	126	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	202	0.1400	15.06	75.28	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=4.00' D=1.00' Z= 1.0 '/' Top.W=6.00' n= 0.030
2.9	404	Total			

**Summary for Subcatchment 79S: WS 17A**

Runoff = 9.78 cfs @ 12.02 hrs, Volume= 0.548 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.035	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.780	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.039	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.761	71	Proposed developed meadow to be treated, HSG C
0.248	78	Proposed developed meadow to be treated, HSG D
0.349	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.212	78	Weighted Average
2.393		74.50% Pervious Area
0.819		25.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.3	73	0.1200	0.19		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.8	94	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	268	0.0700	1.85		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
10.5	435	Total			

**Summary for Subcatchment 80S: WS 17B**

Runoff = 9.91 cfs @ 11.95 hrs, Volume= 0.448 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.001	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.843	98	Proposed impervious to be treated, HSG C
0.055	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
1.441	71	Proposed developed meadow to be treated, HSG C
0.006	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
2.346	81	Weighted Average
1.448		61.72% Pervious Area
0.898		38.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1200	2.44		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	46	0.1200	7.03		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
3.5	1,127	0.1200	5.43	16.30	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
4.3	1,273	Total			

**Summary for Subcatchment 81S: WS 17C**

Runoff = 3.07 cfs @ 12.09 hrs, Volume= 0.206 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.298	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.264	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.746	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.308	76	Weighted Average
1.044		79.82% Pervious Area
0.264		20.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
4.7	316	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	76	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
16.0	448	Total			

**Summary for Subcatchment 82S: WS 17D**

Runoff = 3.50 cfs @ 12.07 hrs, Volume= 0.227 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.346	98	Untreated proposed impervious, HSG C
0.003	98	Untreated proposed impervious, HSG D
0.974	71	Proposed developed meadow, non-grazed, HSG C
0.005	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.328	78	Weighted Average
0.979		73.72% Pervious Area
0.349		26.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	49	0.1500	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.6	95	0.1500	0.97		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.4	155	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
14.9	299	Total			

**Summary for Subcatchment 83S: WS 17E**

Runoff = 15.22 cfs @ 11.97 hrs, Volume= 0.759 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.036	77	Proposed Woods, Good, HSG D
0.414	98	Proposed impervious to be treated, HSG C
0.842	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.340	71	Proposed developed meadow to be treated, HSG C
1.819	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.004	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.455	85	Weighted Average
2.199		63.65% Pervious Area
1.256		36.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0300	1.40		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
5.1	1,621	0.1000	5.30	21.20	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=1.00' Z= 1.0 '/' Top.W=5.00' n= 0.069 Riprap, 6-inch
6.3	1,721	Total			

**Summary for Subcatchment 84S: WS 17F**

Runoff = 11.38 cfs @ 12.17 hrs, Volume= 0.941 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.019	70	Existing Woods, Good, HSG C
1.100	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
1.217	98	Untreated proposed impervious, HSG D
0.007	71	Proposed developed meadow, non-grazed, HSG C
2.244	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.587	83	Weighted Average
3.370		73.47% Pervious Area
1.217		26.53% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.9	44	0.1200	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
12.6	683	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
23.5	727	Total			

**Summary for Subcatchment 85S: WS 18**

Runoff = 0.74 cfs @ 11.95 hrs, Volume= 0.033 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.021	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.165	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.186	79	Weighted Average
0.165		88.71% Pervious Area
0.021		11.29% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.1	65	0.2700	0.26		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	92	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
4.2	157	Total			

**Summary for Subcatchment 86S: WS 19**

Runoff = 1.77 cfs @ 12.04 hrs, Volume= 0.102 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"



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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.008	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.060	70	Existing Woods, Good, HSG C
0.313	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.016	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.116	71	Proposed developed meadow, non-grazed, HSG C
0.135	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.648	76	Weighted Average
0.624		96.30% Pervious Area
0.024		3.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
4.2	253	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	102	0.0600	12.05	36.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' /' Top.W=4.00' n= 0.022
11.5	455	Total			

**Summary for Subcatchment 87S: WS 20**

Runoff = 4.79 cfs @ 11.97 hrs, Volume= 0.232 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.037	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.007	70	Existing Woods, Good, HSG C
0.881	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.013	98	Untreated proposed impervious, HSG C
0.027	98	Untreated proposed impervious, HSG D
0.030	71	Proposed developed meadow, non-grazed, HSG C
0.363	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.358	78	Weighted Average
1.281		94.33% Pervious Area
0.077		5.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.4	34	0.0600	1.49		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	18	0.3900	4.37		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.8	166	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.6	144	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	64	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 ' /' Top.W=4.00' n= 0.022
6.0	426	Total			

**Summary for Subcatchment 88S: WS 20A**

Runoff = 3.91 cfs @ 11.94 hrs, Volume= 0.169 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.287	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.141	98	Untreated proposed impervious, HSG C
0.006	98	Untreated proposed impervious, HSG D
0.600	71	Proposed developed meadow, non-grazed, HSG C
0.008	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.118	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.160	74	Weighted Average
1.013		87.33% Pervious Area
0.147		12.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.7	100	0.1000	2.27		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
0.1	47	0.1000	6.42		<b>Shallow Concentrated Flow,</b> Paved Kv= 20.3 fps
0.1	35	0.4300	4.59		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
1.9	116	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.5	32	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	330	Total			

**Summary for Subcatchment 89S: WS 20B**

Runoff = 2.15 cfs @ 11.97 hrs, Volume= 0.102 af, Depth= 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.026	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.098	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.054	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.182	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.370	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.730	73	Weighted Average
0.676		92.60% Pervious Area
0.054		7.40% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	76	0.2000	0.24		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.2	140	0.1300	13.74	228.43	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=3.00' D=3.50' Z= 1.0 & 0.0 '/' Top.W=6.50' n= 0.050 Mountain streams w/large boulders
5.5	216	Total			

**Summary for Subcatchment 90S: WS 20C**

Runoff = 11.87 cfs @ 12.13 hrs, Volume= 0.894 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.487	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.117	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
1.368	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
2.264	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
5.237	78	Weighted Average
3.869		73.88% Pervious Area
1.368		26.12% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	56	0.2000	0.09		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
8.7	582	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	116	0.1400	5.87	17.60	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
19.8	754	Total			

**Summary for Subcatchment 91S: WS 20D**

Runoff = 26.00 cfs @ 12.29 hrs, Volume= 2.724 af, Depth= 1.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.002	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.585	71	Existing meadow, non-grazed, HSG C
2.389	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
1.483	70	Existing Woods, Good, HSG C
3.526	77	Existing Woods, Good, HSG D
0.350	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.064	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
1.079	98	Untreated proposed impervious, HSG C
0.643	98	Untreated proposed impervious, HSG D
1.762	71	Proposed developed meadow, non-grazed, HSG C
1.316	78	Proposed developed meadow, non-grazed, HSG D
0.571	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.496	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
17.266	76	Weighted Average
15.478		89.64% Pervious Area
1.788		10.36% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.5	100	0.0800	0.18		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
2.8	470	0.1600	2.80		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	408	0.2200	1.17		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	282	0.1300	2.52		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
11.0	593	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.2	511	0.0600	3.84	11.52	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
33.2	2,364	Total			

**Summary for Subcatchment 92S: WS 21**

Runoff = 1.28 cfs @ 12.05 hrs, Volume= 0.077 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.020	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.341	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.092	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.453	78	Weighted Average
0.433		95.58% Pervious Area
0.020		4.42% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.0	46	0.1300	0.07		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
1.5	82	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	138	0.0300	8.52	25.56	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
12.8	266	Total			

**Summary for Subcatchment 93S: WS 21A**

Runoff = 18.31 cfs @ 11.96 hrs, Volume= 0.862 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Type II 24-hr 25-Year Rainfall=4.20"

Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.030	70	Existing Woods, Good, HSG C
0.334	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.062	98	Proposed impervious to be treated, HSG C
1.172	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.149	71	Proposed developed meadow to be treated, HSG C
2.457	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
4.204	83	Weighted Average
2.970		70.65% Pervious Area
1.234		29.35% Impervious Area



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Type II 24-hr 25-Year Rainfall=4.20"

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.8	47	0.0200	1.02		<b>Sheet Flow,</b> Smooth surfaces n= 0.011 P2= 2.40"
1.4	366	0.0800	4.44	13.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.1	62	0.0100	7.20	22.62	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
1.5	105	0.2300	1.20		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.9	170	0.0400	3.14	9.41	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.1	50	0.0500	16.10	50.59	<b>Pipe Channel,</b> 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013 Corrugated PE, smooth interior
0.3	110	0.1300	5.65	16.96	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
5.1	910	Total			

**Summary for Subcatchment 94S: WS 21B**

Runoff = 8.36 cfs @ 12.08 hrs, Volume= 0.549 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.413	70	Existing Woods, Good, HSG C
0.012	77	Existing Woods, Good, HSG D
0.242	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.792	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
1.049	71	Proposed developed meadow, non-grazed, HSG C
0.118	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.591	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
3.217	78	Weighted Average
2.425		75.38% Pervious Area
0.792		24.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.3	100	0.1100	0.20		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.2	161	0.1100	2.32		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
5.8	370	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
15.3	631	Total			

**Summary for Subcatchment 95S: WS 21C**

Runoff = 22.16 cfs @ 12.64 hrs, Volume= 3.564 af, Depth= 1.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
1.021	98	Untreated existing impervious, HSG C
0.399	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
3.513	71	Existing meadow, non-grazed, HSG C
3.194	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
11.552	70	Existing Woods, Good, HSG C
4.190	77	Existing Woods, Good, HSG D
0.457	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.027	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.156	71	Proposed developed meadow, non-grazed, HSG C
0.003	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.001	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D

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24.513	74	Weighted Average
23.066		94.10% Pervious Area
1.447		5.90% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	17	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.2	146	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.2	259	0.3000	1.37		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.4	218	0.1100	0.83		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.3	279	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.3	186	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.1	90	0.2900	1.35		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	173	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.6	201	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	256	0.1200	0.87		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
4.9	195	0.0700	0.66		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.7	80	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
7.0	334	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	187	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.9	139	0.2400	1.22		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.1	133	0.1800	1.06		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.3	317	0.1600	19.24	692.62	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=9.00' D=3.00' Z= 1.0 '/' Top.W=15.00' n= 0.050 Mountain streams w/large boulders
59.5	3,310	Total			

**Summary for Subcatchment 96S: WS 22**

Runoff = 1.00 cfs @ 12.04 hrs, Volume= 0.058 af, Depth= 2.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.025	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.284	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.019	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.328	79	Weighted Average
0.303		92.38% Pervious Area
0.025		7.62% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.8	50	0.1600	0.08		<b>Sheet Flow,</b> Woods: Dense underbrush n= 0.800 P2= 2.40"
0.8	50	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.2	125	0.0500	11.00	32.99	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
11.8	225	Total			

**Summary for Subcatchment 97S: WS 23**

Runoff = 1.32 cfs @ 12.00 hrs, Volume= 0.068 af, Depth= 2.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.039	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.174	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.157	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.370	80	Weighted Average
0.331		89.46% Pervious Area
0.039		10.54% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.6	100	0.1400	0.22		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.6	102	0.1400	2.62		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
8.2	202	Total			

**Summary for Subcatchment 98S: WS 23A**

Runoff = 3.29 cfs @ 11.93 hrs, Volume= 0.144 af, Depth= 2.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.000	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.159	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.000	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.543	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
0.702	83	Weighted Average
0.543		77.35% Pervious Area
0.159		22.65% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	19	0.4200	0.25		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.8	217	0.0800	4.44	13.31	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
0.7	89	0.0200	2.22	6.65	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
2.8	325	Total			

**Summary for Subcatchment 99S: WS 23B**

Runoff = 5.79 cfs @ 12.06 hrs, Volume= 0.364 af, Depth= 2.64"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.000	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.000	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.000	70	Existing Woods, Good, HSG C
0.142	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.056	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.554	98	Untreated proposed impervious, HSG D
0.000	71	Proposed developed meadow, non-grazed, HSG C
0.903	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.000	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
1.655	85	Weighted Average
1.045		63.14% Pervious Area
0.610		36.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.2	100	0.1600	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.4	22	0.1600	1.00		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	173	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.1	166	0.1300	0.90		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
13.8	461	Total			

**Summary for Subcatchment 100S: WS 24**

Runoff = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af, Depth= 2.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"



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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.506	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.568	71	Existing meadow, non-grazed, HSG C
6.423	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
0.073	70	Existing Woods, Good, HSG C
5.770	77	Existing Woods, Good, HSG D
0.000	70	Proposed Woods, Good, HSG C
0.000	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.038	98	Untreated proposed impervious, HSG D
0.017	71	Proposed developed meadow, non-grazed, HSG C
0.357	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
0.027	71	Proposed meadow, ski trail, HSG C
0.000	78	Proposed meadow, ski trail, HSG D
0.000	71	Proposed meadow, ski lift, HSG C
0.000	78	Proposed meadow, ski lift, HSG D
13.779	78	Weighted Average
13.235		96.05% Pervious Area
0.544		3.95% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	100	0.1500	0.23		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
0.1	10	0.1500	2.71		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	210	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.4	333	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	221	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.3	317	0.1100	16.31	48.94	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.3	305	0.1400	18.40	55.21	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	241	0.1200	17.04	51.11	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.1	138	0.2000	21.99	65.98	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.2	224	0.1500	19.05	57.14	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
2.1	118	0.1400	0.94		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
3.5	167	0.1000	0.79		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.1	89	0.1000	15.55	46.66	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
0.1	105	0.0900	14.75	44.26	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.022
19.4	2,578	Total			

**Summary for Subcatchment 103S: WS 1-8**

Runoff = 77.21 cfs @ 12.41 hrs, Volume= 9.606 af, Depth= 1.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Type II 24-hr 25-Year Rainfall=4.20"

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Area (ac)	CN	Description
0.000	98	Untreated existing impervious, HSG A
0.000	98	Untreated existing impervious, HSG C
0.004	98	Untreated existing impervious, HSG D
0.000	98	Existing impervious to be treated as offset, HSG D
0.000	30	Existing meadow, non-grazed, HSG A
0.000	71	Existing meadow, non-grazed, HSG C
0.012	78	Existing meadow, non-grazed, HSG D
0.000	30	Existing Woods, Good, HSG A
9.906	70	Existing Woods, Good, HSG C
17.781	77	Existing Woods, Good, HSG D
2.274	70	Proposed Woods, Good, HSG C
3.491	77	Proposed Woods, Good, HSG D
0.000	98	Proposed impervious to be treated, HSG C
0.000	98	Proposed impervious to be treated, HSG D
0.000	98	Untreated proposed impervious, HSG C
0.042	98	Untreated proposed impervious, HSG D
0.006	71	Proposed developed meadow, non-grazed, HSG C
0.000	78	Proposed developed meadow, non-grazed, HSG D
0.000	71	Proposed developed meadow to be treated, HSG C
0.000	78	Proposed developed meadow to be treated, HSG D
8.051	71	Proposed meadow, ski trail, HSG C
18.519	78	Proposed meadow, ski trail, HSG D
2.211	71	Proposed meadow, ski lift, HSG C
1.103	78	Proposed meadow, ski lift, HSG D
63.400	75	Weighted Average
63.354		99.93% Pervious Area
0.046		0.07% Impervious Area

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Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.7	100	0.2900	0.29		<b>Sheet Flow,</b> Grass: Dense n= 0.240 P2= 2.40"
1.1	249	0.2900	3.77		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
2.9	274	0.3900	1.56		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
1.5	353	0.3300	4.02		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
0.6	277	0.2500	7.84	23.52	<b>Trap/Vee/Rect Channel Flow, ditch</b> Bot.W=2.00' D=1.00' Z= 1.0 '/' Top.W=4.00' n= 0.069 Riprap, 6-inch
5.7	374	0.1900	1.09		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
5.8	462	0.2800	1.32		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
2.3	579	0.3500	4.14		<b>Shallow Concentrated Flow,</b> Short Grass Pasture Kv= 7.0 fps
4.4	294	0.2000	1.12		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
10.3	639	0.1700	1.03		<b>Shallow Concentrated Flow,</b> Forest w/Heavy Litter Kv= 2.5 fps
0.6	363	0.1600	10.18	71.29	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00' n= 0.050
1.3	806	0.1600	10.18	71.29	<b>Trap/Vee/Rect Channel Flow,</b> Bot.W=6.00' D=1.00' Z= 1.0 '/' Top.W=8.00' n= 0.050
42.2	4,770	Total			

**Summary for Reach 6R: stream**

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 2.21" for 25-Year event  
 Inflow = 26.45 cfs @ 12.11 hrs, Volume= 4.567 af  
 Outflow = 26.37 cfs @ 12.12 hrs, Volume= 4.567 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 8.45 fps, Min. Travel Time= 0.6 min  
 Avg. Velocity = 1.76 fps, Avg. Travel Time= 2.6 min

Peak Storage= 876 cf @ 12.11 hrs  
 Average Depth at Peak Storage= 0.82' , Surface Width= 4.64'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 132.62 cfs

3.00' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
 Length= 280.0' Slope= 0.1643 '/'  
 Inlet Invert= 1,815.00', Outlet Invert= 1,769.00'



**Summary for Reach 8R: ditch to stream**

Inflow Area = 16.590 ac, 25.90% Impervious, Inflow Depth = 2.34" for 25-Year event  
 Inflow = 18.99 cfs @ 12.05 hrs, Volume= 3.233 af  
 Outflow = 18.61 cfs @ 12.08 hrs, Volume= 3.233 af, Atten= 2%, Lag= 1.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 8.09 fps, Min. Travel Time= 1.0 min  
 Avg. Velocity = 1.73 fps, Avg. Travel Time= 4.6 min

Peak Storage= 1,116 cf @ 12.06 hrs  
 Average Depth at Peak Storage= 0.64' , Surface Width= 4.29'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 144.00 cfs

3.00' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
 Length= 475.0' Slope= 0.1937 '/'  
 Inlet Invert= 1,910.00', Outlet Invert= 1,818.00'



**Summary for Reach 9R: stream**

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 1.83" for 25-Year event  
 Inflow = 47.32 cfs @ 12.36 hrs, Volume= 7.452 af  
 Outflow = 47.23 cfs @ 12.38 hrs, Volume= 7.452 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 9.37 fps, Min. Travel Time= 0.6 min  
 Avg. Velocity = 3.42 fps, Avg. Travel Time= 1.6 min

Peak Storage= 1,665 cf @ 12.37 hrs  
 Average Depth at Peak Storage= 1.10' , Surface Width= 5.70'  
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 139.42 cfs

3.50' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 '/' Top Width= 7.50'  
 Length= 330.0' Slope= 0.1424 '/'  
 Inlet Invert= 1,787.00', Outlet Invert= 1,740.00'



**Summary for Reach 10R: stream**

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 1.83" for 25-Year event  
 Inflow = 46.94 cfs @ 12.36 hrs, Volume= 7.283 af  
 Outflow = 46.91 cfs @ 12.36 hrs, Volume= 7.283 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 9.98 fps, Min. Travel Time= 0.2 min  
 Avg. Velocity = 3.63 fps, Avg. Travel Time= 0.6 min

Peak Storage= 658 cf @ 12.36 hrs  
 Average Depth at Peak Storage= 1.04' , Surface Width= 5.57'  
 Bank-Full Depth= 2.00' Flow Area= 11.0 sf, Capacity= 152.96 cfs

3.50' x 2.00' deep channel, n= 0.050  
 Side Slope Z-value= 1.0 ' ' Top Width= 7.50'  
 Length= 140.0' Slope= 0.1714 ' '  
 Inlet Invert= 1,814.00', Outlet Invert= 1,790.00'



**Summary for Reach 11R: stream**

Inflow Area = 17.266 ac, 10.36% Impervious, Inflow Depth = 1.89" for 25-Year event  
 Inflow = 26.00 cfs @ 12.29 hrs, Volume= 2.724 af  
 Outflow = 25.90 cfs @ 12.31 hrs, Volume= 2.724 af, Atten= 0%, Lag= 1.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Max. Velocity= 8.96 fps, Min. Travel Time= 0.6 min  
 Avg. Velocity = 3.00 fps, Avg. Travel Time= 1.7 min

Peak Storage= 870 cf @ 12.30 hrs  
 Average Depth at Peak Storage= 0.77' , Surface Width= 4.54'  
 Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 145.10 cfs

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3.00' x 2.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
Length= 300.0' Slope= 0.1967 '/'  
Inlet Invert= 1,910.00', Outlet Invert= 1,851.00'



**Summary for Reach 14R: drainage ditch**

Inflow Area = 3.366 ac, 24.54% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 9.63 cfs @ 12.05 hrs, Volume= 0.574 af  
Outflow = 9.14 cfs @ 12.11 hrs, Volume= 0.574 af, Atten= 5%, Lag= 3.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 4.65 fps, Min. Travel Time= 2.2 min  
Avg. Velocity = 1.37 fps, Avg. Travel Time= 7.3 min

Peak Storage= 1,196 cf @ 12.07 hrs  
Average Depth at Peak Storage= 0.62' , Surface Width= 4.47'  
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 106.43 cfs

2.00' x 2.00' deep channel, n= 0.069  
Side Slope Z-value= 2.0 '/' Top Width= 10.00'  
Length= 600.0' Slope= 0.1500 '/'  
Inlet Invert= 2,060.00', Outlet Invert= 1,970.00'



**Summary for Reach 17R: stream**

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 2.03" for 25-Year event  
Inflow = 32.27 cfs @ 12.12 hrs, Volume= 3.042 af  
Outflow = 32.02 cfs @ 12.14 hrs, Volume= 3.042 af, Atten= 1%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 10.15 fps, Min. Travel Time= 0.3 min  
Avg. Velocity = 1.20 fps, Avg. Travel Time= 2.8 min

Peak Storage= 646 cf @ 12.13 hrs  
Average Depth at Peak Storage= 0.68' , Surface Width= 5.35'  
Bank-Full Depth= 1.00' Flow Area= 5.0 sf, Capacity= 62.68 cfs

4.00' x 1.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 6.00'  
Length= 204.0' Slope= 0.2696 '/'  
Inlet Invert= 1,711.00', Outlet Invert= 1,656.00'



**Summary for Reach 19R: stream**

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 2.03" for 25-Year event  
Inflow = 31.84 cfs @ 12.11 hrs, Volume= 2.804 af  
Outflow = 31.44 cfs @ 12.13 hrs, Volume= 2.804 af, Atten= 1%, Lag= 0.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 10.05 fps, Min. Travel Time= 0.4 min  
Avg. Velocity = 1.38 fps, Avg. Travel Time= 3.1 min

Peak Storage= 802 cf @ 12.12 hrs  
Average Depth at Peak Storage= 1.04' , Surface Width= 4.08'  
Bank-Full Depth= 1.50' Flow Area= 5.3 sf, Capacity= 63.50 cfs

2.00' x 1.50' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 5.00'  
Length= 254.0' Slope= 0.2087 '/'  
Inlet Invert= 1,770.00', Outlet Invert= 1,717.00'



**Summary for Reach 23R: ditch**

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 2.10" for 25-Year event  
Inflow = 21.16 cfs @ 12.11 hrs, Volume= 2.017 af  
Outflow = 20.74 cfs @ 12.14 hrs, Volume= 2.017 af, Atten= 2%, Lag= 2.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 8.01 fps, Min. Travel Time= 1.1 min  
Avg. Velocity = 1.02 fps, Avg. Travel Time= 9.0 min



**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Peak Storage= 1,444 cf @ 12.12 hrs  
Average Depth at Peak Storage= 0.71' , Surface Width= 4.42'  
Bank-Full Depth= 1.00' Flow Area= 4.0 sf, Capacity= 38.44 cfs

3.00' x 1.00' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 5.00'  
Length= 550.0' Slope= 0.1727 '/'  
Inlet Invert= 1,945.00', Outlet Invert= 1,850.00'



**Summary for Reach 24R: ditch**

Inflow Area = 8.652 ac, 9.56% Impervious, Inflow Depth = 2.02" for 25-Year event  
Inflow = 18.32 cfs @ 12.09 hrs, Volume= 1.458 af  
Outflow = 18.09 cfs @ 12.12 hrs, Volume= 1.458 af, Atten= 1%, Lag= 1.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 6.42 fps, Min. Travel Time= 1.0 min  
Avg. Velocity = 1.98 fps, Avg. Travel Time= 3.4 min

Peak Storage= 1,140 cf @ 12.10 hrs  
Average Depth at Peak Storage= 0.66' , Surface Width= 5.64'  
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 163.35 cfs

3.00' x 2.00' deep channel, n= 0.069 Riprap, 6-inch  
Side Slope Z-value= 2.0 '/' Top Width= 11.00'  
Length= 400.0' Slope= 0.2375 '/'  
Inlet Invert= 2,015.00', Outlet Invert= 1,920.00'



**Summary for Reach 29R: stream**

Inflow Area = 68.800 ac, 9.84% Impervious, Inflow Depth = 1.94" for 25-Year event  
Inflow = 94.91 cfs @ 12.13 hrs, Volume= 11.145 af  
Outflow = 93.64 cfs @ 12.17 hrs, Volume= 11.145 af, Atten= 1%, Lag= 2.0 min

**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 9.90 fps, Min. Travel Time= 1.1 min  
Avg. Velocity = 1.34 fps, Avg. Travel Time= 8.0 min

Peak Storage= 6,170 cf @ 12.15 hrs  
Average Depth at Peak Storage= 1.94' , Surface Width= 6.87'  
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 100.62 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders  
Side Slope Z-value= 1.0 '/' Top Width= 7.00'  
Length= 645.0' Slope= 0.0946 '/'  
Inlet Invert= 1,596.00', Outlet Invert= 1,535.00'



**Summary for Reach 32R: dead end stream**

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 1.89" for 25-Year event  
Inflow = 37.87 cfs @ 12.11 hrs, Volume= 5.769 af  
Outflow = 37.21 cfs @ 12.16 hrs, Volume= 5.769 af, Atten= 2%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
Max. Velocity= 9.29 fps, Min. Travel Time= 1.4 min  
Avg. Velocity = 1.53 fps, Avg. Travel Time= 8.4 min

Peak Storage= 3,101 cf @ 12.13 hrs  
Average Depth at Peak Storage= 1.01' , Surface Width= 5.01'  
Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 76.81 cfs

3.00' x 1.50' deep channel, n= 0.050  
Side Slope Z-value= 1.0 '/' Top Width= 6.00'  
Length= 770.0' Slope= 0.1610 '/'  
Inlet Invert= 1,760.00', Outlet Invert= 1,636.00'



Summary for Reach 34R: stream

Inflow Area = 30.406 ac, 6.66% Impervious, Inflow Depth = 1.80" for 25-Year event
Inflow = 30.01 cfs @ 12.43 hrs, Volume= 4.568 af
Outflow = 29.96 cfs @ 12.46 hrs, Volume= 4.568 af, Atten= 0%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.48 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 2.62 fps, Avg. Travel Time= 2.4 min

Peak Storage= 1,310 cf @ 12.44 hrs
Average Depth at Peak Storage= 0.91', Surface Width= 4.81'
Bank-Full Depth= 1.50' Flow Area= 6.8 sf, Capacity= 73.80 cfs

3.00' x 1.50' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 370.0' Slope= 0.1486 '/'
Inlet Invert= 1,815.00', Outlet Invert= 1,760.00'



Summary for Reach 35R: flow in wetland

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 1.69" for 25-Year event
Inflow = 24.79 cfs @ 12.42 hrs, Volume= 3.409 af
Outflow = 24.62 cfs @ 12.50 hrs, Volume= 3.409 af, Atten= 1%, Lag= 5.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 3.11 fps, Min. Travel Time= 3.2 min
Avg. Velocity = 0.83 fps, Avg. Travel Time= 12.0 min

Peak Storage= 4,753 cf @ 12.45 hrs
Average Depth at Peak Storage= 0.63', Surface Width= 13.25'
Bank-Full Depth= 1.00' Flow Area= 13.0 sf, Capacity= 53.58 cfs

12.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 600.0' Slope= 0.0917 '/'
Inlet Invert= 2,080.00', Outlet Invert= 2,025.00'



‡

Summary for Reach 39R: stream

Inflow Area = 2.899 ac, 24.25% Impervious, Inflow Depth = 2.42" for 25-Year event
Inflow = 4.84 cfs @ 12.11 hrs, Volume= 0.585 af
Outflow = 4.53 cfs @ 12.23 hrs, Volume= 0.585 af, Atten= 7%, Lag= 7.1 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.31 fps, Min. Travel Time= 4.2 min
Avg. Velocity = 0.93 fps, Avg. Travel Time= 19.7 min

Peak Storage= 1,173 cf @ 12.16 hrs
Average Depth at Peak Storage= 0.25', Surface Width= 4.50'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 161.10 cfs

4.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 '/' Top Width= 8.00'
Length= 1,100.0' Slope= 0.1527 '/'
Inlet Invert= 1,780.00', Outlet Invert= 1,612.00'



Summary for Reach 40R: stream

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 1.89" for 25-Year event
Inflow = 66.52 cfs @ 12.06 hrs, Volume= 9.188 af
Outflow = 65.11 cfs @ 12.44 hrs, Volume= 9.188 af, Atten= 2%, Lag= 22.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.48 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 2.14 fps, Avg. Travel Time= 6.0 min

Peak Storage= 5,937 cf @ 12.42 hrs
Average Depth at Peak Storage= 1.09', Surface Width= 8.18'
Bank-Full Depth= 2.00' Flow Area= 16.0 sf, Capacity= 186.92 cfs

6.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 10.00'
Length= 770.0' Slope= 0.1013 '/'
Inlet Invert= 1,563.00', Outlet Invert= 1,485.00'



Summary for Reach 42R: stream

Inflow Area = 37.607 ac, 3.33% Impervious, Inflow Depth = 1.89" for 25-Year event
Inflow = 57.57 cfs @ 12.30 hrs, Volume= 5.926 af
Outflow = 55.89 cfs @ 12.42 hrs, Volume= 5.926 af, Atten= 3%, Lag= 7.2 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.85 fps, Min. Travel Time= 4.1 min
Avg. Velocity = 2.16 fps, Avg. Travel Time= 18.9 min

Peak Storage= 13,927 cf @ 12.35 hrs
Average Depth at Peak Storage= 0.96' , Surface Width= 6.92'
Bank-Full Depth= 1.00' Flow Area= 6.0 sf, Capacity= 60.47 cfs

5.00' x 1.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 2,440.0' Slope= 0.1639 '/'
Inlet Invert= 1,973.00', Outlet Invert= 1,573.00'



Summary for Reach 45R: flow in wetland

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 1.82" for 25-Year event
Inflow = 42.28 cfs @ 12.23 hrs, Volume= 4.008 af
Outflow = 40.71 cfs @ 12.36 hrs, Volume= 4.008 af, Atten= 4%, Lag= 7.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 4.83 fps, Min. Travel Time= 4.1 min
Avg. Velocity = 1.14 fps, Avg. Travel Time= 17.6 min

Peak Storage= 10,175 cf @ 12.29 hrs
Average Depth at Peak Storage= 1.05' , Surface Width= 10.19'
Bank-Full Depth= 1.00' Flow Area= 8.0 sf, Capacity= 37.72 cfs

6.00' x 1.00' deep channel, n= 0.100 Very weedy reaches w/pools
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 1,200.0' Slope= 0.1442 '/'
Inlet Invert= 2,160.00', Outlet Invert= 1,987.00'



Summary for Reach 102R: stream

Inflow Area = 321.351 ac, 5.57% Impervious, Inflow Depth > 1.88" for 25-Year event
Inflow = 314.05 cfs @ 12.44 hrs, Volume= 50.302 af
Outflow = 313.02 cfs @ 12.48 hrs, Volume= 50.300 af, Atten= 0%, Lag= 2.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.07 fps, Min. Travel Time= 1.5 min
Avg. Velocity = 1.25 fps, Avg. Travel Time= 11.9 min

Peak Storage= 27,713 cf @ 12.45 hrs
Average Depth at Peak Storage= 2.19', Surface Width= 16.39'
Bank-Full Depth= 4.00' Flow Area= 64.0 sf, Capacity= 883.89 cfs

12.00' x 4.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 20.00'
Length= 890.0' Slope= 0.0562 '/'
Inlet Invert= 1,480.00', Outlet Invert= 1,430.00'



Summary for Reach 103R: stream

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 1.81" for 25-Year event
Inflow = 151.82 cfs @ 12.38 hrs, Volume= 17.970 af
Outflow = 151.46 cfs @ 12.39 hrs, Volume= 17.970 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.71 fps, Min. Travel Time= 0.5 min
Avg. Velocity = 2.79 fps, Avg. Travel Time= 1.6 min

Peak Storage= 4,300 cf @ 12.39 hrs
Average Depth at Peak Storage= 1.62', Surface Width= 11.25'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 440.61 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 14.00'
Length= 275.0' Slope= 0.0800 '/'
Inlet Invert= 1,502.00', Outlet Invert= 1,480.00'



Summary for Reach 104R: stream

Inflow Area = 190.718 ac, 9.01% Impervious, Inflow Depth > 1.91" for 25-Year event
Inflow = 164.13 cfs @ 12.53 hrs, Volume= 30.299 af
Outflow = 163.85 cfs @ 12.56 hrs, Volume= 30.299 af, Atten= 0%, Lag= 1.3 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 10.78 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.45 fps, Avg. Travel Time= 5.7 min

Peak Storage= 7,536 cf @ 12.54 hrs
Average Depth at Peak Storage= 1.59' , Surface Width= 11.18'
Bank-Full Depth= 3.00' Flow Area= 33.0 sf, Capacity= 495.10 cfs

8.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 14.00'
Length= 495.0' Slope= 0.1010 ' '
Inlet Invert= 1,530.00', Outlet Invert= 1,480.00'



Summary for Reach 108R: stream

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 1.74" for 25-Year event
Inflow = 42.77 cfs @ 12.30 hrs, Volume= 4.529 af
Outflow = 41.62 cfs @ 12.42 hrs, Volume= 4.529 af, Atten= 3%, Lag= 7.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.66 fps, Min. Travel Time= 4.3 min
Avg. Velocity = 2.10 fps, Avg. Travel Time= 15.6 min

Peak Storage= 10,756 cf @ 12.35 hrs
Average Depth at Peak Storage= 0.63' , Surface Width= 9.27'
Bank-Full Depth= 2.00' Flow Area= 20.0 sf, Capacity= 291.19 cfs

8.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 ' ' Top Width= 12.00'
Length= 1,968.0' Slope= 0.1443 ' '
Inlet Invert= 1,810.00', Outlet Invert= 1,526.00'



Summary for Reach 110R: stream

Inflow Area = 156.700 ac, 6.38% Impervious, Inflow Depth = 1.82" for 25-Year event
Inflow = 147.04 cfs @ 12.52 hrs, Volume= 23.744 af
Outflow = 146.50 cfs @ 12.57 hrs, Volume= 23.744 af, Atten= 0%, Lag= 2.8 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 12.38 fps, Min. Travel Time= 1.6 min
Avg. Velocity = 1.66 fps, Avg. Travel Time= 11.8 min

Peak Storage= 13,930 cf @ 12.55 hrs
Average Depth at Peak Storage= 1.57' , Surface Width= 9.13'
Bank-Full Depth= 3.00' Flow Area= 27.0 sf, Capacity= 465.00 cfs

6.00' x 3.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 12.00'
Length= 1,175.0' Slope= 0.1464 '/'
Inlet Invert= 1,714.00', Outlet Invert= 1,542.00'



Summary for Reach 111R: upperstream

Inflow Area = 13.616 ac, 5.02% Impervious, Inflow Depth = 1.86" for 25-Year event
Inflow = 14.69 cfs @ 12.40 hrs, Volume= 2.116 af
Outflow = 14.61 cfs @ 12.45 hrs, Volume= 2.116 af, Atten= 1%, Lag= 2.7 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 7.28 fps, Min. Travel Time= 1.6 min
Avg. Velocity = 1.46 fps, Avg. Travel Time= 7.9 min

Peak Storage= 1,381 cf @ 12.42 hrs
Average Depth at Peak Storage= 0.56' , Surface Width= 4.13'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 139.11 cfs

3.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 7.00'
Length= 686.0' Slope= 0.1808 '/'
Inlet Invert= 2,074.00', Outlet Invert= 1,950.00'





Summary for Reach 112R: stream

Inflow Area = 22.637 ac, 11.13% Impervious, Inflow Depth = 1.95" for 25-Year event
Inflow = 30.44 cfs @ 11.97 hrs, Volume= 3.677 af
Outflow = 28.43 cfs @ 12.04 hrs, Volume= 3.677 af, Atten= 7%, Lag= 4.5 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 8.14 fps, Min. Travel Time= 2.5 min
Avg. Velocity = 1.41 fps, Avg. Travel Time= 14.5 min

Peak Storage= 4,385 cf @ 12.00 hrs
Average Depth at Peak Storage= 0.63', Surface Width= 6.27'
Bank-Full Depth= 2.00' Flow Area= 14.0 sf, Capacity= 210.11 cfs

5.00' x 2.00' deep channel, n= 0.050 Mountain streams w/large boulders
Side Slope Z-value= 1.0 '/' Top Width= 9.00'
Length= 1,230.0' Slope= 0.1772 '/'
Inlet Invert= 1,950.00', Outlet Invert= 1,732.00'



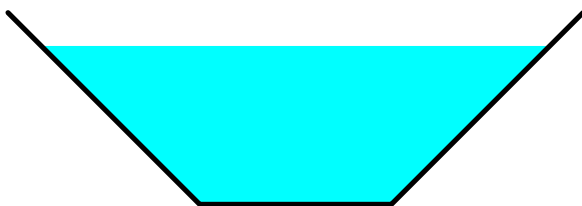
Summary for Reach 113R: ditch

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 2.03" for 25-Year event
Inflow = 32.02 cfs @ 12.14 hrs, Volume= 3.042 af
Outflow = 31.67 cfs @ 12.16 hrs, Volume= 3.042 af, Atten= 1%, Lag= 1.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 5.31 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 0.76 fps, Avg. Travel Time= 5.4 min

Peak Storage= 1,479 cf @ 12.15 hrs
Average Depth at Peak Storage= 1.65', Surface Width= 5.31'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 46.73 cfs

2.00' x 2.00' deep channel, n= 0.069
Side Slope Z-value= 1.0 '/' Top Width= 6.00'
Length= 245.0' Slope= 0.0694 '/'
Inlet Invert= 1,656.00', Outlet Invert= 1,639.00'



Summary for Reach 114R: dead end channel

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 2.17" for 25-Year event
Inflow = 27.17 cfs @ 12.12 hrs, Volume= 4.816 af
Outflow = 27.06 cfs @ 12.13 hrs, Volume= 4.816 af, Atten= 0%, Lag= 0.9 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 11.33 fps, Min. Travel Time= 0.6 min
Avg. Velocity = 2.41 fps, Avg. Travel Time= 2.8 min

Peak Storage= 957 cf @ 12.13 hrs
Average Depth at Peak Storage= 0.65' , Surface Width= 4.31'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 200.37 cfs

3.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 400.0' Slope= 0.3750 ' '
Inlet Invert= 1,750.00', Outlet Invert= 1,600.00'



Summary for Reach 115R: stream

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 1.81" for 25-Year event
Inflow = 41.82 cfs @ 12.41 hrs, Volume= 6.288 af
Outflow = 41.79 cfs @ 12.42 hrs, Volume= 6.288 af, Atten= 0%, Lag= 0.4 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs
Max. Velocity= 9.45 fps, Min. Travel Time= 0.2 min
Avg. Velocity = 3.55 fps, Avg. Travel Time= 0.6 min

Peak Storage= 575 cf @ 12.41 hrs
Average Depth at Peak Storage= 1.08' , Surface Width= 5.17'
Bank-Full Depth= 2.00' Flow Area= 10.0 sf, Capacity= 128.34 cfs

3.00' x 2.00' deep channel, n= 0.050
Side Slope Z-value= 1.0 ' ' Top Width= 7.00'
Length= 130.0' Slope= 0.1538 ' '
Inlet Invert= 1,844.00', Outlet Invert= 1,824.00'



**Summary for Pond 2P: Culvert 7C Driveway**

Inflow Area = 48.906 ac, 9.82% Impervious, Inflow Depth = 1.83" for 25-Year event  
Inflow = 47.32 cfs @ 12.36 hrs, Volume= 7.452 af  
Primary = 47.32 cfs @ 12.36 hrs, Volume= 7.452 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 3P: Culvert 7B -Road A**

Inflow Area = 47.746 ac, 9.75% Impervious, Inflow Depth = 1.83" for 25-Year event  
Inflow = 46.94 cfs @ 12.36 hrs, Volume= 7.283 af  
Primary = 46.94 cfs @ 12.36 hrs, Volume= 7.283 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 4P: trail culvert**

Inflow Area = 5.237 ac, 26.12% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 11.87 cfs @ 12.13 hrs, Volume= 0.894 af  
Primary = 11.87 cfs @ 12.13 hrs, Volume= 0.894 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 5P: Culvert 7A**

Inflow Area = 41.779 ac, 7.74% Impervious, Inflow Depth = 1.81" for 25-Year event  
Inflow = 41.82 cfs @ 12.41 hrs, Volume= 6.288 af  
Primary = 41.82 cfs @ 12.41 hrs, Volume= 6.288 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 7P: Culvert 6A**

Inflow Area = 24.822 ac, 24.69% Impervious, Inflow Depth = 2.21" for 25-Year event  
Inflow = 26.45 cfs @ 12.11 hrs, Volume= 4.567 af  
Primary = 26.45 cfs @ 12.11 hrs, Volume= 4.567 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 8P: new 36**

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af  
Outflow = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af, Atten= 0%, Lag= 0.0 min  
Primary = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

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Peak Elev= 2.38' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0400 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=31.19 cfs @ 12.12 hrs HW=2.36' (Free Discharge)↑**1=Culvert** (Inlet Controls 31.19 cfs @ 5.23 fps)**Summary for Pond 9P: new 36**

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 2.16" for 25-Year event  
 Inflow = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af  
 Outflow = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af, Atten= 0%, Lag= 0.0 min  
 Primary = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 2.29' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -1.05' S= 0.0150 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=29.67 cfs @ 12.12 hrs HW=2.28' (Free Discharge)↑**1=Culvert** (Inlet Controls 29.67 cfs @ 5.14 fps)**Summary for Pond 10P: new 36**

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 2.04" for 25-Year event  
 Inflow = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af  
 Outflow = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af, Atten= 0%, Lag= 0.0 min  
 Primary = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 2.70' @ 12.13 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>36.0" Round Culvert</b> L= 70.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.10' S= 0.0300 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 7.07 sf

**Primary OutFlow** Max=37.14 cfs @ 12.13 hrs HW=2.68' (Free Discharge)↑**1=Culvert** (Inlet Controls 37.14 cfs @ 5.57 fps)

**Summary for Pond 12P: new 48**

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 1.95" for 25-Year event  
 Inflow = 106.30 cfs @ 12.15 hrs, Volume= 12.172 af  
 Outflow = 106.30 cfs @ 12.15 hrs, Volume= 12.172 af, Atten= 0%, Lag= 0.0 min  
 Primary = 106.30 cfs @ 12.15 hrs, Volume= 12.172 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 5.09' @ 12.15 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	0.00'	<b>48.0" Round Culvert</b> L= 50.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 0.00' / -2.80' S= 0.0560 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 12.57 sf

**Primary OutFlow** Max=106.19 cfs @ 12.15 hrs HW=5.08' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 106.19 cfs @ 8.45 fps)

**Summary for Pond 13P: Culvert 6B**

Inflow Area = 26.607 ac, 23.56% Impervious, Inflow Depth = 2.17" for 25-Year event  
 Inflow = 27.17 cfs @ 12.12 hrs, Volume= 4.816 af  
 Primary = 27.17 cfs @ 12.12 hrs, Volume= 4.816 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 16P: trunk line from condos**

Inflow Area = 5.094 ac, 51.81% Impervious, Inflow Depth = 2.80" for 25-Year event  
 Inflow = 24.33 cfs @ 11.94 hrs, Volume= 1.189 af  
 Outflow = 24.33 cfs @ 11.94 hrs, Volume= 1.189 af, Atten= 0%, Lag= 0.0 min  
 Primary = 24.33 cfs @ 11.94 hrs, Volume= 1.189 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,714.95' @ 11.94 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,712.00'	<b>30.0" Round Culvert</b> L= 700.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,712.00' / 1,694.00' S= 0.0257 ' / ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 4.91 sf

**Primary OutFlow** Max=23.80 cfs @ 11.94 hrs HW=1,714.88' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 23.80 cfs @ 4.85 fps)

**Summary for Pond 18P: Culvert 5 - Trail**

Inflow Area = 17.941 ac, 14.03% Impervious, Inflow Depth = 2.03" for 25-Year event  
 Inflow = 32.27 cfs @ 12.12 hrs, Volume= 3.042 af  
 Primary = 32.27 cfs @ 12.12 hrs, Volume= 3.042 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 20P: road culvert**

Inflow Area = 16.549 ac, 14.99% Impervious, Inflow Depth = 2.03" for 25-Year event  
 Inflow = 31.84 cfs @ 12.11 hrs, Volume= 2.804 af  
 Outflow = 31.84 cfs @ 12.11 hrs, Volume= 2.804 af, Atten= 0%, Lag= 0.0 min  
 Primary = 31.84 cfs @ 12.11 hrs, Volume= 2.804 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,775.66' @ 12.11 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,774.00'	<b>72.0" Round Culvert w/ 24.0" inside fill</b> L= 50.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,772.00' / 1,771.00' S= 0.0200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 20.02 sf

**Primary OutFlow** Max=31.44 cfs @ 12.11 hrs HW=1,775.64' (Free Discharge)

↑1=Culvert (Inlet Controls 31.44 cfs @ 3.24 fps)

**Summary for Pond 21P: Pipe Down Slope**

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 2.09" for 25-Year event  
 Inflow = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af  
 Outflow = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af, Atten= 0%, Lag= 0.0 min  
 Primary = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Peak Elev= 1,814.19' @ 12.12 hrs Surf.Area= 0.001 ac Storage= 0.003 af

Plug-Flow detention time= 0.2 min calculated for 2.541 af (100% of inflow)

Center-of-Mass det. time= 0.2 min ( 967.8 - 967.6 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,812.00'	0.016 af	<b>8.00'D x 14.00'H Vertical Cone/Cylinder</b>

Device	Routing	Invert	Outlet Devices
#1	Primary	1,812.00'	<b>48.0" Round Culvert</b> L= 100.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,812.00' / 1,780.00' S= 0.3200 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

**Primary OutFlow** Max=27.64 cfs @ 12.12 hrs HW=1,814.17' (Free Discharge)

↑1=Culvert (Inlet Controls 27.64 cfs @ 3.96 fps)

**Summary for Pond 22P: Pipe Down Slope**

Inflow Area = 14.576 ac, 16.67% Impervious, Inflow Depth = 2.09" for 25-Year event  
 Inflow = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af  
 Outflow = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af, Atten= 0%, Lag= 0.0 min  
 Primary = 28.09 cfs @ 12.12 hrs, Volume= 2.541 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,823.92' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,822.00'	<b>48.0" Round Culvert</b> L= 100.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,822.00' / 1,818.00' S= 0.0400 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 12.57 sf

**Primary OutFlow** Max=27.66 cfs @ 12.12 hrs HW=1,823.90' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 27.66 cfs @ 4.70 fps)

**Summary for Pond 25P: road culvert**

Inflow Area = 5.782 ac, 8.73% Impervious, Inflow Depth = 1.97" for 25-Year event  
 Inflow = 11.77 cfs @ 12.16 hrs, Volume= 0.949 af  
 Primary = 11.77 cfs @ 12.16 hrs, Volume= 0.949 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 26P: road culvert**

Inflow Area = 2.870 ac, 11.22% Impervious, Inflow Depth = 2.13" for 25-Year event  
 Inflow = 8.70 cfs @ 12.04 hrs, Volume= 0.509 af  
 Primary = 8.70 cfs @ 12.04 hrs, Volume= 0.509 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 28P: road culvert**

Inflow Area = 11.506 ac, 14.02% Impervious, Inflow Depth = 2.10" for 25-Year event  
 Inflow = 21.16 cfs @ 12.11 hrs, Volume= 2.017 af  
 Primary = 21.16 cfs @ 12.11 hrs, Volume= 2.017 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 30P: Culvert 4 -Trail**

Inflow Area = 15.570 ac, 7.12% Impervious, Inflow Depth = 1.99" for 25-Year event  
 Inflow = 30.69 cfs @ 12.13 hrs, Volume= 2.584 af  
 Primary = 30.69 cfs @ 12.13 hrs, Volume= 2.584 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 31P: Trail Culvert**

Inflow Area = 49.423 ac, 9.08% Impervious, Inflow Depth = 1.88" for 25-Year event  
 Inflow = 63.39 cfs @ 12.14 hrs, Volume= 7.748 af  
 Outflow = 63.39 cfs @ 12.14 hrs, Volume= 7.748 af, Atten= 0%, Lag= 0.0 min  
 Primary = 63.39 cfs @ 12.14 hrs, Volume= 7.748 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,628.94' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,626.00'	<b>72.0" Round Culvert</b> L= 300.0' CMP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,626.00' / 1,610.00' S= 0.0533 '/ Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 28.27 sf

**Primary OutFlow** Max=62.79 cfs @ 12.14 hrs HW=1,628.92' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 62.79 cfs @ 4.59 fps)

**Summary for Pond 33P: Culvert 12 -Road**

Inflow Area = 36.642 ac, 8.77% Impervious, Inflow Depth = 1.89" for 25-Year event  
 Inflow = 37.87 cfs @ 12.11 hrs, Volume= 5.769 af  
 Primary = 37.87 cfs @ 12.11 hrs, Volume= 5.769 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 36P: trail culvert**

Inflow Area = 24.244 ac, 4.80% Impervious, Inflow Depth = 1.69" for 25-Year event  
 Inflow = 24.79 cfs @ 12.42 hrs, Volume= 3.409 af  
 Primary = 24.79 cfs @ 12.42 hrs, Volume= 3.409 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 37P: Road E Culvert**

Inflow Area = 27.875 ac, 6.15% Impervious, Inflow Depth = 1.77" for 25-Year event  
 Inflow = 28.46 cfs @ 12.46 hrs, Volume= 4.102 af  
 Primary = 28.46 cfs @ 12.46 hrs, Volume= 4.102 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 38P: Road A Culvert**

Inflow Area = 21.776 ac, 3.80% Impervious, Inflow Depth = 1.67" for 25-Year event  
 Inflow = 23.89 cfs @ 12.42 hrs, Volume= 3.035 af  
 Primary = 23.89 cfs @ 12.42 hrs, Volume= 3.035 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs



**Summary for Pond 41P: Culvert 3 - Trail 3**

Inflow Area = 58.284 ac, 2.15% Impervious, Inflow Depth = 1.89" for 25-Year event  
Inflow = 66.52 cfs @ 12.06 hrs, Volume= 9.188 af  
Primary = 66.52 cfs @ 12.06 hrs, Volume= 9.188 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 43P: Culvert 11 -Trail 3**

Inflow Area = 35.358 ac, 2.93% Impervious, Inflow Depth = 1.88" for 25-Year event  
Inflow = 53.70 cfs @ 12.31 hrs, Volume= 5.527 af  
Primary = 53.70 cfs @ 12.31 hrs, Volume= 5.527 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 44P: Culvert 13 -Road A**

Inflow Area = 26.451 ac, 1.62% Impervious, Inflow Depth = 1.82" for 25-Year event  
Inflow = 42.28 cfs @ 12.23 hrs, Volume= 4.008 af  
Primary = 42.28 cfs @ 12.23 hrs, Volume= 4.008 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 105P: Culvert 1 - Trail**

Inflow Area = 180.600 ac, 7.35% Impervious, Inflow Depth = 1.87" for 25-Year event  
Inflow = 160.09 cfs @ 12.54 hrs, Volume= 28.192 af  
Primary = 160.09 cfs @ 12.54 hrs, Volume= 28.192 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 106P: Culvert 2- Trail 2**

Inflow Area = 118.865 ac, 0.17% Impervious, Inflow Depth = 1.81" for 25-Year event  
Inflow = 151.82 cfs @ 12.38 hrs, Volume= 17.970 af  
Primary = 151.82 cfs @ 12.38 hrs, Volume= 17.970 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond 107P: Culvert 10 -Trail 2**

Inflow Area = 31.149 ac, 0.22% Impervious, Inflow Depth = 1.74" for 25-Year event  
Inflow = 42.77 cfs @ 12.30 hrs, Volume= 4.529 af  
Primary = 42.77 cfs @ 12.30 hrs, Volume= 4.529 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

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**Summary for Pond 108P: new 36**

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 1.83" for 25-Year event  
 Inflow = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af  
 Outflow = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af, Atten= 0%, Lag= 0.0 min  
 Primary = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Peak Elev= 1,743.47' @ 12.38 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	1,740.00'	<b>36.0" Round Culvert</b> L= 70.0' CMP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 1,740.00' / 1,738.00' S= 0.0286 '/' Cc= 0.900 n= 0.025 Corrugated metal, Flow Area= 7.07 sf

**Primary OutFlow** Max=47.70 cfs @ 12.38 hrs HW=1,743.46' (Free Discharge)  
 ↑1=Culvert (Inlet Controls 47.70 cfs @ 6.75 fps)

**Summary for Pond 109P: Culvert 9-Trail Crossing**

Inflow Area = 87.844 ac, 2.93% Impervious, Inflow Depth = 1.74" for 25-Year event  
 Inflow = 77.66 cfs @ 12.51 hrs, Volume= 12.737 af  
 Primary = 77.66 cfs @ 12.51 hrs, Volume= 12.737 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Pond P1: Condos Complex Wet Pond**

Inflow Area = 11.937 ac, 34.04% Impervious, Inflow Depth = 2.47" for 25-Year event  
 Inflow = 42.37 cfs @ 11.95 hrs, Volume= 2.459 af  
 Outflow = 11.62 cfs @ 12.20 hrs, Volume= 2.451 af, Atten= 73%, Lag= 14.9 min  
 Primary = 7.21 cfs @ 12.20 hrs, Volume= 2.049 af  
 Secondary = 4.41 cfs @ 12.20 hrs, Volume= 0.402 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,684.00' Surf.Area= 29,057 sf Storage= 54,189 cf  
 Peak Elev= 1,686.36' @ 12.20 hrs Surf.Area= 39,018 sf Storage= 104,265 cf (50,076 cf above start)

Plug-Flow detention time= 1,543.2 min calculated for 1.207 af (49% of inflow)  
 Center-of-Mass det. time= 708.0 min ( 1,523.1 - 815.1 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,678.00'	54,189 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,684.00'	66,450 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		120,639 cf	Total Available Storage

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Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,678.00	4,365	481.7	0	0	4,365
1,679.00	5,839	500.5	5,084	5,084	5,914
1,680.00	7,369	519.4	6,589	11,673	7,531
1,681.00	8,954	538.2	8,149	19,822	9,199
1,682.00	10,598	557.1	9,764	29,586	10,935
1,683.00	12,297	575.9	11,437	41,023	12,722
1,684.00	14,053	594.8	13,165	54,189	14,578

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,684.00	15,004	752.2	0	0	15,004
1,685.00	21,703	791.7	18,251	18,251	19,918
1,686.00	24,167	734.9	22,924	41,175	26,860
1,687.00	26,400	753.8	25,275	66,450	29,220

Device	Routing	Invert	Outlet Devices
#1	Primary	1,681.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,681.00' / 1,680.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,684.00'	<b>3.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,686.00'	<b>36.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,686.00'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=7.19 cfs @ 12.20 hrs HW=1,686.36' (Free Discharge)

- 1=Culvert (Passes 7.19 cfs of 24.94 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.48 cfs @ 7.17 fps)
- 3=Orifice/Grate (Weir Controls 6.71 cfs @ 1.97 fps)

**Secondary OutFlow** Max=4.39 cfs @ 12.20 hrs HW=1,686.36' (Free Discharge)

- 4=Broad-Crested Rectangular Weir (Weir Controls 4.39 cfs @ 1.52 fps)

**Summary for Pond P10: Lot R31 Soil Filter**

Inflow Area = 8.042 ac, 30.75% Impervious, Inflow Depth = 2.54" for 25-Year event  
 Inflow = 21.50 cfs @ 11.99 hrs, Volume= 1.700 af  
 Outflow = 6.03 cfs @ 12.48 hrs, Volume= 1.700 af, Atten= 72%, Lag= 29.0 min  
 Primary = 6.03 cfs @ 12.48 hrs, Volume= 1.700 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,975.33' Surf.Area= 4,651 sf Storage= 614 cf  
 Peak Elev= 1,982.42' @ 12.48 hrs Surf.Area= 9,530 sf Storage= 36,477 cf (35,863 cf above start)

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Plug-Flow detention time= 643.9 min calculated for 1.685 af (99% of inflow)  
Center-of-Mass det. time= 632.2 min ( 1,456.2 - 824.0 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,975.00'	53,120 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,975.00	4,651	326.9	0.0	0	0	4,651
1,976.50	4,651	326.9	40.0	2,791	2,791	5,141
1,978.00	4,651	326.9	40.0	2,791	5,581	5,632
1,980.00	6,726	364.6	100.0	11,313	16,895	7,818
1,982.00	9,027	402.3	100.0	15,697	32,591	10,244
1,984.00	11,554	440.0	100.0	20,529	53,120	12,907

Device	Routing	Invert	Outlet Devices
#1	Primary	1,974.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,974.00' / 1,972.00' S= 0.0200 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,975.33'	<b>2.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,975.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,982.00'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,982.70'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=5.97 cfs @ 12.48 hrs HW=1,982.42' (Free Discharge)

- ↑ 1=Culvert (Passes 5.97 cfs of 32.52 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.43 cfs @ 12.72 fps)
- ↑ 3=Exfiltration (Passes 0.43 cfs of 0.66 cfs potential flow)
- ↑ 4=Orifice/Grate (Weir Controls 5.54 cfs @ 2.11 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,975.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P11: Parking Lot G Wet Pond**

Inflow Area = 8.304 ac, 46.98% Impervious, Inflow Depth = 2.81" for 25-Year event  
 Inflow = 40.48 cfs @ 11.95 hrs, Volume= 1.944 af  
 Outflow = 3.19 cfs @ 12.50 hrs, Volume= 1.809 af, Atten= 92%, Lag= 33.2 min  
 Primary = 3.19 cfs @ 12.50 hrs, Volume= 1.809 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,534.10' Surf.Area= 24,527 sf Storage= 51,257 cf  
 Peak Elev= 1,536.81' @ 12.50 hrs Surf.Area= 32,738 sf Storage= 100,876 cf (49,619 cf above start)

**55310.01-West Mountain-PR**

Type II 24-hr 25-Year Rainfall=4.20"

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Plug-Flow detention time= 4,009.4 min calculated for 0.633 af (33% of inflow)  
 Center-of-Mass det. time= 1,626.5 min ( 2,429.7 - 803.2 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,527.00'	49,963 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,534.00'	77,661 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		127,624 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,527.00	3,398	312.2	0	0	3,398
1,528.00	4,364	331.3	3,871	3,871	4,428
1,529.00	5,386	350.1	4,866	8,737	5,502
1,530.00	6,465	369.0	5,917	14,654	6,642
1,531.00	7,600	387.8	7,025	21,679	7,836
1,532.00	8,792	406.7	8,189	29,868	9,095
1,533.00	10,040	425.5	9,409	39,277	10,408
1,534.00	11,345	444.4	10,686	49,963	11,787

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,534.00	12,700	621.7	0	0	12,700
1,535.00	17,927	661.0	15,239	15,239	16,762
1,536.00	19,949	587.1	18,929	34,168	24,129
1,537.00	21,739	606.0	20,838	55,005	26,020
1,538.00	23,585	624.8	22,656	77,661	27,961

Device	Routing	Invert	Outlet Devices
#1	Primary	1,530.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,530.00' / 1,528.00' S= 0.0200 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf
#2	Device 1	1,534.10'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,536.60'	<b>36.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,536.90'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=3.14 cfs @ 12.50 hrs HW=1,536.81' (Free Discharge)

- ↑1=Culvert (Passes 3.14 cfs of 61.92 cfs potential flow)
- ↑2=Orifice/Grate (Orifice Controls 0.17 cfs @ 7.80 fps)
- ↑3=Orifice/Grate (Weir Controls 2.97 cfs @ 1.50 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,534.10' (Free Discharge)

- ↑4=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P12: Drop-off Parking Lot Soil Filter**

Inflow Area = 4.069 ac, 25.29% Impervious, Inflow Depth = 2.48" for 25-Year event  
 Inflow = 11.95 cfs @ 11.94 hrs, Volume= 0.842 af  
 Outflow = 1.58 cfs @ 12.80 hrs, Volume= 0.842 af, Atten= 87%, Lag= 52.1 min  
 Primary = 1.58 cfs @ 12.80 hrs, Volume= 0.842 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,466.33' Surf.Area= 3,179 sf Storage= 420 cf  
 Peak Elev= 1,472.67' @ 12.80 hrs Surf.Area= 6,547 sf Storage= 20,992 cf (20,573 cf above start)

Plug-Flow detention time= 1,108.7 min calculated for 0.832 af (99% of inflow)  
 Center-of-Mass det. time= 1,087.4 min ( 1,909.8 - 822.4 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,466.00'	30,846 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,466.00	3,179	247.1	0.0	0	0	3,179
1,467.50	3,179	247.1	40.0	1,907	1,907	3,550
1,469.00	3,179	247.1	40.0	1,907	3,815	3,920
1,470.00	3,948	265.9	100.0	3,557	7,371	4,730
1,472.00	5,657	303.6	100.0	9,554	16,925	6,530
1,473.00	7,016	329.2	100.0	6,324	23,250	7,858
1,474.00	8,192	360.5	100.0	7,596	30,846	9,610

Device	Routing	Invert	Outlet Devices
#1	Primary	1,466.00'	<b>18.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,466.00' / 1,464.00' S= 0.0200 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf
#2	Device 1	1,466.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,466.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,472.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,473.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=1.55 cfs @ 12.80 hrs HW=1,472.67' (Free Discharge)  
 1=Outlet Culvert (Passes 1.55 cfs of 16.34 cfs potential flow)  
 2=Orifice/Grate (Orifice Controls 0.15 cfs @ 12.06 fps)  
 3=Exfiltration (Passes 0.15 cfs of 0.45 cfs potential flow)  
 4=Orifice/Grate (Weir Controls 1.40 cfs @ 1.34 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,466.33' (Free Discharge)  
 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P13: Parking Lot H Wet Pond**

Inflow Area = 2.921 ac, 40.05% Impervious, Inflow Depth = 2.73" for 25-Year event  
 Inflow = 14.91 cfs @ 11.93 hrs, Volume= 0.664 af  
 Outflow = 0.84 cfs @ 12.70 hrs, Volume= 0.662 af, Atten= 94%, Lag= 46.3 min  
 Primary = 0.84 cfs @ 12.70 hrs, Volume= 0.662 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,567.00' Surf.Area= 11,858 sf Storage= 14,847 cf  
 Peak Elev= 1,568.90' @ 12.70 hrs Surf.Area= 17,025 sf Storage= 32,014 cf (17,166 cf above start)

Plug-Flow detention time= 2,170.8 min calculated for 0.321 af (48% of inflow)  
 Center-of-Mass det. time= 1,117.1 min ( 1,921.9 - 804.8 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,561.00'	14,847 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,567.00'	30,200 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		45,047 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,561.00	495	188.6	0	0	495
1,566.00	4,031	282.9	9,898	9,898	4,224
1,567.00	5,929	467.9	4,950	14,847	15,284

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,567.00	5,929	467.9	0	0	5,929
1,568.00	9,766	479.1	7,768	7,768	6,897
1,569.00	11,246	454.1	10,497	18,265	8,811
1,570.00	12,637	473.0	11,935	30,200	10,280

Device	Routing	Invert	Outlet Devices
#1	Primary	1,560.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,560.00' / 1,559.00' S= 0.0100 '/' Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf
#2	Device 1	1,567.00'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,568.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,569.00'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=0.81 cfs @ 12.70 hrs HW=1,568.90' (Free Discharge)

- ↑ 1=Culvert (Passes 0.81 cfs of 73.10 cfs potential flow)
  - ↑ 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 6.49 fps)
  - ↑ 3=Orifice/Grate (Weir Controls 0.67 cfs @ 1.04 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,567.00' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P14: Timbers 1-7 Wet Pond**

Inflow Area = 7.622 ac, 23.79% Impervious, Inflow Depth = 2.13" for 25-Year event  
 Inflow = 31.40 cfs @ 11.93 hrs, Volume= 1.351 af  
 Outflow = 7.13 cfs @ 12.06 hrs, Volume= 1.347 af, Atten= 77%, Lag= 7.9 min  
 Primary = 6.76 cfs @ 12.06 hrs, Volume= 1.344 af  
 Secondary = 0.37 cfs @ 12.06 hrs, Volume= 0.003 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,721.00' Surf.Area= 19,738 sf Storage= 31,523 cf  
 Peak Elev= 1,722.87' @ 12.06 hrs Surf.Area= 26,781 sf Storage= 57,863 cf (26,340 cf above start)

Plug-Flow detention time= 1,459.1 min calculated for 0.623 af (46% of inflow)  
 Center-of-Mass det. time= 614.0 min ( 1,439.9 - 825.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,715.00'	31,523 cf	<b>Permanent Pool (Irregular)</b> Listed below (Recalc)
#2	1,721.00'	46,722 cf	<b>CPv (Irregular)</b> Listed below (Recalc)
		78,245 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,715.00	1,909	325.0	0	0	1,909
1,716.00	2,912	343.8	2,393	2,393	2,964
1,717.00	3,972	362.7	3,428	5,821	4,084
1,718.00	5,088	381.6	4,519	10,340	5,263
1,719.00	6,261	400.4	5,664	16,004	6,497
1,720.00	7,490	419.3	6,866	22,870	7,796
1,721.00	9,869	603.5	8,652	31,523	22,797

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,721.00	9,869	603.5	0	0	9,869
1,722.00	15,216	645.8	12,446	12,446	14,120
1,723.00	17,184	596.9	16,190	28,636	18,996
1,724.00	19,003	615.8	18,086	46,722	20,918

Device	Routing	Invert	Outlet Devices
#1	Primary	1,714.00'	<b>36.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,714.00' / 1,713.00' S= 0.0100 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 7.07 sf



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#2	Device 1	1,721.00'	<b>2.5" Vert. Orifice/Grate - Gravel Bench Underdrain</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	1,722.40'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#4	Secondary	1,722.80'	<b>8.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=6.60 cfs @ 12.06 hrs HW=1,722.86' (Free Discharge)

- ↑ 1=Culvert (Passes 6.60 cfs of 72.89 cfs potential flow)
- ↑ 2=Orifice/Grate - Gravel Bench Underdrain(Orifice Controls 0.22 cfs @ 6.38 fps)
- ↑ 3=Orifice/Grate (Weir Controls 6.38 cfs @ 2.21 fps)

**Secondary OutFlow** Max=0.28 cfs @ 12.06 hrs HW=1,722.86' (Free Discharge)

- ↑ 4=Broad-Crested Rectangular Weir(Weir Controls 0.28 cfs @ 0.59 fps)

**Summary for Pond P16: Timbers 10 Soil Filter**

Inflow Area =	0.660 ac, 35.00% Impervious, Inflow Depth = 2.37" for 25-Year event
Inflow =	2.94 cfs @ 11.92 hrs, Volume= 0.131 af
Outflow =	0.17 cfs @ 12.78 hrs, Volume= 0.133 af, Atten= 94%, Lag= 51.2 min
Primary =	0.17 cfs @ 12.78 hrs, Volume= 0.133 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 2,085.33' Surf.Area= 877 sf Storage= 116 cf  
 Peak Elev= 2,089.31' @ 12.78 hrs Surf.Area= 1,645 sf Storage= 2,683 cf (2,568 cf above start)

Plug-Flow detention time= (not calculated: outflow precedes inflow)  
 Center-of-Mass det. time= 160.7 min ( 977.7 - 817.0 )

Volume	Invert	Avail.Storage	Storage Description			
#1	2,085.00'	9,992 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,085.00	877	192.0	0.0	0	0	877
2,086.50	877	192.0	40.0	526	526	1,165
2,088.00	877	192.0	40.0	526	1,052	1,453
2,090.00	2,142	229.7	100.0	2,926	3,979	2,787
2,092.00	3,964	290.6	100.0	6,013	9,992	5,361

Device	Routing	Invert	Outlet Devices
#1	Primary	2,085.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,085.00' / 2,084.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	2,085.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 1	2,085.00'	<b>3.000 in/hr Exfiltration over Surface area</b>

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#4	Device 1	2,091.40'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	2,091.50'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=0.17 cfs @ 12.78 hrs HW=2,089.31' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 0.17 cfs of 21.74 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.56 fps)
- ↑ 3=Exfiltration (Exfiltration Controls 0.11 cfs)
- ↑ 4=Orifice/Grate ( Controls 0.00 cfs)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=2,085.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir ( Controls 0.00 cfs)

**Summary for Pond P17: Timbers 11-14 Soil Filter**

Inflow Area =	1.829 ac, 34.99% Impervious, Inflow Depth = 2.64" for 25-Year event
Inflow =	8.36 cfs @ 11.96 hrs, Volume= 0.402 af
Outflow =	1.74 cfs @ 12.13 hrs, Volume= 0.402 af, Atten= 79%, Lag= 10.4 min
Primary =	1.74 cfs @ 12.13 hrs, Volume= 0.402 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 2,119.33' Surf.Area= 2,430 sf Storage= 321 cf

Peak Elev= 2,123.88' @ 12.13 hrs Surf.Area= 3,887 sf Storage= 8,809 cf (8,488 cf above start)

Plug-Flow detention time= 591.9 min calculated for 0.394 af (98% of inflow)

Center-of-Mass det. time= 567.0 min ( 1,377.8 - 810.9 )

Volume	Invert	Avail.Storage	Storage Description
#1	2,119.00'	13,840 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
2,119.00	2,430	238.8	0.0	0	0	2,430
2,120.50	2,430	238.8	40.0	1,458	1,458	2,788
2,122.00	2,430	238.8	40.0	1,458	2,916	3,146
2,124.00	3,989	280.8	100.0	6,355	9,271	4,959
2,125.00	5,174	303.4	100.0	4,569	13,840	6,050

Device	Routing	Invert	Outlet Devices
#1	Primary	2,119.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 2,119.00' / 2,117.00' S= 0.0200 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	2,119.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	2,119.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	2,123.70'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600

#5	Secondary	2,124.00'	Limited to weir flow at low heads
			<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>
			Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64
			2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=1.70 cfs @ 12.13 hrs HW=2,123.88' (Free Discharge)

- 1=Outlet Culvert (Passes 1.70 cfs of 23.53 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.13 cfs @ 10.20 fps)
- 3=Exfiltration (Passes 0.13 cfs of 0.27 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 1.58 cfs @ 1.39 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=2,119.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P2: Townhomes 3-6 Soil Filter**

Inflow Area =	3.212 ac, 25.50% Impervious, Inflow Depth = 2.05" for 25-Year event
Inflow =	9.78 cfs @ 12.02 hrs, Volume= 0.548 af
Outflow =	1.34 cfs @ 12.46 hrs, Volume= 0.548 af, Atten= 86%, Lag= 26.1 min
Primary =	1.34 cfs @ 12.46 hrs, Volume= 0.548 af
Secondary =	0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,739.33' Surf.Area= 3,904 sf Storage= 515 cf

Peak Elev= 1,743.65' @ 12.46 hrs Surf.Area= 5,513 sf Storage= 12,416 cf (11,901 cf above start)

Plug-Flow detention time= 801.2 min calculated for 0.536 af (98% of inflow)

Center-of-Mass det. time= 770.0 min ( 1,606.2 - 836.2 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,739.00'	28,913 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,739.00	3,904	312.1	0.0	0	0	3,904
1,740.50	3,904	312.1	40.0	2,342	2,342	4,372
1,742.00	3,904	312.1	40.0	2,342	4,685	4,840
1,744.00	5,890	349.8	100.0	9,726	14,411	6,933
1,746.00	8,703	412.7	100.0	14,502	28,913	10,826

Device	Routing	Invert	Outlet Devices
#1	Primary	1,738.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,738.00' / 1,736.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,739.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,739.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,743.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

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#5 Secondary 1,744.00' **4.0' long x 8.0' breadth Broad-Crested Rectangular Weir**  
 Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00  
 2.50 3.00 3.50 4.00 4.50 5.00 5.50  
 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64  
 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=1.31 cfs @ 12.46 hrs HW=1,743.65' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 1.31 cfs of 25.75 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.12 cfs @ 9.93 fps)
- ↑ 3=Exfiltration (Passes 0.12 cfs of 0.38 cfs potential flow)
- ↑ 4=Orifice/Grate (Weir Controls 1.19 cfs @ 1.27 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,739.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P3: Townhomes 1-2 Soil Filter**

Inflow Area = 7.421 ac, 27.30% Impervious, Inflow Depth = 2.28" for 25-Year event  
 Inflow = 23.78 cfs @ 11.97 hrs, Volume= 1.411 af  
 Outflow = 1.67 cfs @ 13.01 hrs, Volume= 1.411 af, Atten= 93%, Lag= 62.4 min  
 Primary = 1.67 cfs @ 13.01 hrs, Volume= 1.411 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,751.33' Surf.Area= 5,240 sf Storage= 692 cf

Peak Elev= 1,757.99' @ 13.01 hrs Surf.Area= 9,714 sf Storage= 35,755 cf (35,063 cf above start)

Plug-Flow detention time= 1,004.3 min calculated for 1.395 af (99% of inflow)

Center-of-Mass det. time= 983.8 min ( 1,809.9 - 826.1 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,751.00'	57,886 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,751.00	5,240	336.6	0.0	0	0	5,240
1,752.50	5,240	336.6	40.0	3,144	3,144	5,745
1,754.00	5,240	336.6	40.0	3,144	6,288	6,250
1,756.00	7,373	374.3	100.0	12,552	18,840	8,498
1,758.00	9,731	412.0	100.0	17,050	35,890	10,984
1,760.00	12,316	449.7	100.0	21,996	57,886	13,709

Device	Routing	Invert	Outlet Devices
#1	Primary	1,750.00'	<b>18.0" Round Outlet Culvert</b> L= 50.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,750.00' / 1,748.00' S= 0.0400 '/' Cc= 0.900 n= 0.013, Flow Area= 1.77 sf
#2	Device 1	1,751.33'	<b>2.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,751.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,757.50'	<b>24.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,758.00'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>

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Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

**Primary OutFlow** Max=1.67 cfs @ 13.01 hrs HW=1,757.99' (Free Discharge)

- 1=Outlet Culvert (Passes 1.67 cfs of 18.07 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.27 cfs @ 12.34 fps)
- 3=Exfiltration (Passes 0.27 cfs of 0.67 cfs potential flow)
- 4=Orifice/Grate (Orifice Controls 1.40 cfs @ 2.37 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,751.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P4: Bottom Road A Soil Filter**

Inflow Area =	2.357 ac, 32.63% Impervious, Inflow Depth = 2.58" for 25-Year event
Inflow =	7.28 cfs @ 11.97 hrs, Volume= 0.508 af
Outflow =	1.49 cfs @ 12.40 hrs, Volume= 0.508 af, Atten= 80%, Lag= 25.8 min
Primary =	1.36 cfs @ 12.40 hrs, Volume= 0.505 af
Secondary =	0.12 cfs @ 12.40 hrs, Volume= 0.002 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,761.33' Surf.Area= 802 sf Storage= 106 cf

Peak Elev= 1,768.85' @ 12.40 hrs Surf.Area= 3,760 sf Storage= 11,445 cf (11,339 cf above start)

Plug-Flow detention time= 636.2 min calculated for 0.505 af (100% of inflow)

Center-of-Mass det. time= 628.0 min ( 1,445.5 - 817.5 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,761.00'	16,287 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,761.00	802	158.2	0.0	0	0	802
1,762.50	802	158.2	40.0	481	481	1,039
1,764.00	802	158.2	40.0	481	962	1,277
1,766.00	1,864	195.9	100.0	2,592	3,555	2,396
1,768.00	3,153	233.6	100.0	4,961	8,516	3,755
1,770.00	4,668	271.3	100.0	7,772	16,287	5,351

Device	Routing	Invert	Outlet Devices
#1	Primary	1,760.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,760.00' / 1,758.00' S= 0.0200 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,761.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,761.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,768.70'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,768.80'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b>

Head (feet)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

Primary OutFlow Max=1.34 cfs @ 12.40 hrs HW=1,768.85' (Free Discharge)

- 1=Outlet Culvert (Passes 1.34 cfs of 33.46 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.16 cfs @ 13.15 fps)
- 3=Exfiltration (Passes 0.16 cfs of 0.26 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 1.17 cfs @ 1.26 fps)

Secondary OutFlow Max=0.10 cfs @ 12.40 hrs HW=1,768.85' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Weir Controls 0.10 cfs @ 0.53 fps)

### Summary for Pond P5: Roads A and F Soil Filter

Inflow Area =	4.982 ac, 30.33% Impervious, Inflow Depth = 2.12" for 25-Year event
Inflow =	13.96 cfs @ 11.97 hrs, Volume= 0.881 af
Outflow =	5.06 cfs @ 12.23 hrs, Volume= 0.881 af, Atten= 64%, Lag= 15.6 min
Primary =	4.76 cfs @ 12.23 hrs, Volume= 0.878 af
Secondary =	0.29 cfs @ 12.23 hrs, Volume= 0.003 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

Starting Elev= 1,831.33' Surf.Area= 3,217 sf Storage= 425 cf

Peak Elev= 1,836.87' @ 12.23 hrs Surf.Area= 5,837 sf Storage= 16,663 cf (16,239 cf above start)

Plug-Flow detention time= 679.6 min calculated for 0.871 af (99% of inflow)

Center-of-Mass det. time= 663.0 min ( 1,495.5 - 832.5 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,831.00'	31,588 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,831.00	3,217	222.2	0.0	0	0	3,217
1,832.50	3,217	222.2	40.0	1,930	1,930	3,550
1,834.00	3,217	222.2	40.0	1,930	3,860	3,884
1,838.00	7,083	359.0	100.0	20,098	23,958	10,317
1,839.00	8,190	378.0	100.0	7,630	31,588	11,490

Device	Routing	Invert	Outlet Devices
#1	Primary	1,830.00'	<b>24.0" Round Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,830.00' / 1,828.00' S= 0.0200 '/ Cc= 0.900 n= 0.011 PVC, smooth interior, Flow Area= 3.14 sf
#2	Device 1	1,831.33'	<b>1.5" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,831.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,836.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,836.80'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00

	2.50	3.00	3.50	4.00	4.50	5.00	5.50			
Coef. (English)	2.43	2.54	2.70	2.69	2.68	2.68	2.66	2.64	2.64	2.64
	2.64	2.65	2.65	2.66	2.66	2.68	2.70	2.74		

Primary OutFlow Max=4.69 cfs @ 12.23 hrs HW=1,836.87' (Free Discharge)

- 1=Culvert (Passes 4.69 cfs of 28.92 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.14 cfs @ 11.27 fps)
- 3=Exfiltration (Passes 0.14 cfs of 0.41 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 4.55 cfs @ 1.98 fps)

Secondary OutFlow Max=0.25 cfs @ 12.23 hrs HW=1,836.87' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Weir Controls 0.25 cfs @ 0.63 fps)

**Summary for Pond P6: Lot R43 Soil Filter**

Inflow Area = 1.084 ac, 37.36% Impervious, Inflow Depth = 2.64" for 25-Year event  
 Inflow = 4.10 cfs @ 12.03 hrs, Volume= 0.238 af  
 Outflow = 0.06 cfs @ 19.54 hrs, Volume= 0.238 af, Atten= 99%, Lag= 450.6 min  
 Primary = 0.06 cfs @ 19.54 hrs, Volume= 0.238 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,823.33' Surf.Area= 2,234 sf Storage= 295 cf  
 Peak Elev= 1,827.80' @ 19.54 hrs Surf.Area= 3,929 sf Storage= 8,159 cf (7,864 cf above start)

Plug-Flow detention time= 1,618.6 min calculated for 0.231 af (97% of inflow)  
 Center-of-Mass det. time= 1,551.8 min ( 2,368.1 - 816.3 )

Volume	Invert	Avail.Storage	Storage Description
#1	1,823.00'	8,962 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,823.00	2,234	252.5	0.0	0	0	2,234
1,824.50	2,234	252.5	40.0	1,340	1,340	2,613
1,826.00	2,234	252.5	40.0	1,340	2,681	2,992
1,828.00	4,145	312.6	100.0	6,281	8,962	5,753

Device	Routing	Invert	Outlet Devices
#1	Primary	1,823.00'	<b>15.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,823.00' / 1,822.00' S= 0.0100 '/' Cc= 0.900 n= 0.013, Flow Area= 1.23 sf
#2	Device 1	1,823.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,823.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,827.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

Primary OutFlow Max=0.06 cfs @ 19.54 hrs HW=1,827.80' (Free Discharge)

- 1=Outlet Culvert (Passes 0.06 cfs of 9.53 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.06 cfs @ 10.13 fps)
- 3=Exfiltration (Passes 0.06 cfs of 0.27 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 0.00 cfs @ 0.10 fps)

**Summary for Pond P7: Lot R42 Soil Filter**

Inflow Area = 1.546 ac, 30.92% Impervious, Inflow Depth = 2.37" for 25-Year event  
 Inflow = 4.71 cfs @ 12.07 hrs, Volume= 0.306 af  
 Outflow = 0.81 cfs @ 12.51 hrs, Volume= 0.306 af, Atten= 83%, Lag= 26.5 min  
 Primary = 0.81 cfs @ 12.51 hrs, Volume= 0.306 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,878.33' Surf.Area= 1,972 sf Storage= 260 cf  
 Peak Elev= 1,882.90' @ 12.51 hrs Surf.Area= 3,109 sf Storage= 7,161 cf (6,901 cf above start)

Plug-Flow detention time= 776.4 min calculated for 0.300 af (98% of inflow)  
 Center-of-Mass det. time= 745.9 min ( 1,574.9 - 829.0 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,878.00'	26,005 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,878.00	1,972	181.3	0.0	0	0	1,972
1,879.50	1,972	181.3	40.0	1,183	1,183	2,244
1,881.00	1,972	181.3	40.0	1,183	2,366	2,516
1,883.00	3,173	219.0	100.0	5,098	7,464	3,782
1,885.00	4,600	256.7	100.0	7,729	15,193	5,286
1,887.00	6,254	294.4	100.0	10,812	26,005	7,029

Device	Routing	Invert	Outlet Devices
#1	Primary	1,878.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,878.00' / 1,876.00' S= 0.0200 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,878.33'	<b>1.2" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,878.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,882.80'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,883.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74



**Primary OutFlow** Max=0.76 cfs @ 12.51 hrs HW=1,882.90' (Free Discharge)

- 1=Outlet Culvert (Passes 0.76 cfs of 23.59 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.08 cfs @ 10.24 fps)
- 3=Exfiltration (Passes 0.08 cfs of 0.22 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 0.68 cfs @ 1.05 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,878.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Pond P8: Lot R40 Soil Filter**

Inflow Area = 1.823 ac, 26.66% Impervious, Inflow Depth = 2.29" for 25-Year event  
 Inflow = 5.72 cfs @ 12.05 hrs, Volume= 0.348 af  
 Outflow = 1.33 cfs @ 12.35 hrs, Volume= 0.348 af, Atten= 77%, Lag= 18.1 min  
 Primary = 1.33 cfs @ 12.35 hrs, Volume= 0.348 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,924.33' Surf.Area= 2,235 sf Storage= 295 cf  
 Peak Elev= 1,928.76' @ 12.35 hrs Surf.Area= 3,579 sf Storage= 7,651 cf (7,356 cf above start)

Plug-Flow detention time= 924.4 min calculated for 0.341 af (98% of inflow)  
 Center-of-Mass det. time= 892.0 min ( 1,722.1 - 830.1 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,924.00'	12,739 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,924.00	2,235	198.8	0.0	0	0	2,235
1,925.50	2,235	198.8	40.0	1,341	1,341	2,533
1,927.00	2,235	198.8	40.0	1,341	2,682	2,831
1,928.00	2,859	217.6	100.0	2,541	5,223	3,488
1,929.00	3,828	326.8	100.0	3,332	8,554	8,227
1,930.00	4,552	295.9	100.0	4,185	12,739	9,789

Device	Routing	Invert	Outlet Devices
#1	Primary	1,924.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,924.00' / 1,922.00' S= 0.0200 '/ Cc= 0.900 n= 0.013, Flow Area= 3.14 sf
#2	Device 1	1,924.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#3	Device 2	1,924.00'	<b>3.000 in/hr Exfiltration over Surface area</b>
#4	Device 1	1,928.60'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#5	Secondary	1,929.00'	<b>6.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

**Primary OutFlow** Max=1.32 cfs @ 12.35 hrs HW=1,928.76' (Free Discharge)

- ↑ 1=Outlet Culvert (Passes 1.32 cfs of 23.14 cfs potential flow)
- ↑ 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 10.08 fps)
- ↑ 3=Exfiltration (Passes 0.05 cfs of 0.25 cfs potential flow)
- ↑ 4=Orifice/Grate (Weir Controls 1.26 cfs @ 1.29 fps)

**Secondary OutFlow** Max=0.00 cfs @ 0.00 hrs HW=1,924.33' (Free Discharge)

- ↑ 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

### Summary for Pond P9: Lot R51 Soil Filter

Inflow Area = 1.248 ac, 21.63% Impervious, Inflow Depth = 2.17" for 25-Year event  
 Inflow = 4.61 cfs @ 11.97 hrs, Volume= 0.226 af  
 Outflow = 0.97 cfs @ 12.17 hrs, Volume= 0.226 af, Atten= 79%, Lag= 11.6 min  
 Primary = 0.97 cfs @ 12.17 hrs, Volume= 0.226 af  
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs  
 Starting Elev= 1,941.33' Surf.Area= 1,440 sf Storage= 190 cf  
 Peak Elev= 1,945.62' @ 12.17 hrs Surf.Area= 2,379 sf Storage= 4,794 cf (4,604 cf above start)

Plug-Flow detention time= 694.1 min calculated for 0.222 af (98% of inflow)  
 Center-of-Mass det. time= 666.9 min ( 1,492.6 - 825.6 )

Volume	Invert	Avail.Storage	Storage Description			
#1	1,941.00'	22,064 cf	<b>Custom Stage Data (Irregular)</b> Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Voids (%)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,941.00	1,440	179.7	0.0	0	0	1,440
1,942.50	1,440	179.7	40.0	864	864	1,710
1,944.00	1,440	179.7	40.0	864	1,728	1,979
1,946.00	2,631	217.4	100.0	4,012	5,740	3,235
1,948.00	4,049	255.1	100.0	6,629	12,369	4,729
1,950.00	5,693	292.8	100.0	9,695	22,064	6,462

Device	Routing	Invert	Outlet Devices															
#1	Primary	1,940.00'	<b>24.0" Round Outlet Culvert</b> L= 100.0' CPP, projecting, no headwall, Ke= 0.900 Inlet / Outlet Invert= 1,940.00' / 1,938.00' S= 0.0200 '/' Cc= 0.900 n= 0.013, Flow Area= 3.14 sf															
#2	Device 1	1,941.33'	<b>1.0" Vert. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads															
#3	Device 2	1,941.00'	<b>3.000 in/hr Exfiltration over Surface area</b>															
#4	Device 1	1,945.50'	<b>24.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads															
#5	Secondary	1,945.80'	<b>4.0' long x 8.0' breadth Broad-Crested Rectangular Weir</b> Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74															

Primary OutFlow Max=0.89 cfs @ 12.17 hrs HW=1,945.62' (Free Discharge)

- 1=Outlet Culvert (Passes 0.89 cfs of 25.66 cfs potential flow)
- 2=Orifice/Grate (Orifice Controls 0.05 cfs @ 9.92 fps)
- 3=Exfiltration (Passes 0.05 cfs of 0.16 cfs potential flow)
- 4=Orifice/Grate (Weir Controls 0.83 cfs @ 1.12 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=1,941.33' (Free Discharge)

- 5=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

**Summary for Link SP1:**

Inflow Area = 327.994 ac, 5.46% Impervious, Inflow Depth > 1.88" for 25-Year event  
 Inflow = 320.25 cfs @ 12.47 hrs, Volume= 51.390 af  
 Primary = 320.25 cfs @ 12.47 hrs, Volume= 51.390 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP10:**

Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP11:**

Inflow Area = 6.579 ac, 3.57% Impervious, Inflow Depth = 2.05" for 25-Year event  
 Inflow = 19.42 cfs @ 12.02 hrs, Volume= 1.123 af  
 Primary = 19.42 cfs @ 12.02 hrs, Volume= 1.123 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP12:**

Inflow Area = 20.993 ac, 12.16% Impervious, Inflow Depth = 2.04" for 25-Year event  
 Inflow = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af  
 Primary = 37.51 cfs @ 12.13 hrs, Volume= 3.563 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP13:**

Inflow Area = 12.275 ac, 33.70% Impervious, Inflow Depth > 2.46" for 25-Year event  
 Inflow = 12.09 cfs @ 12.19 hrs, Volume= 2.518 af  
 Primary = 12.09 cfs @ 12.19 hrs, Volume= 2.518 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP14:**

Inflow Area = 1.238 ac, 3.31% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 3.15 cfs @ 12.09 hrs, Volume= 0.211 af  
Primary = 3.15 cfs @ 12.09 hrs, Volume= 0.211 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP15:**

Inflow Area = 27.913 ac, 22.52% Impervious, Inflow Depth = 2.16" for 25-Year event  
Inflow = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af  
Primary = 29.86 cfs @ 12.12 hrs, Volume= 5.022 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP16:**

Inflow Area = 1.173 ac, 3.15% Impervious, Inflow Depth = 1.82" for 25-Year event  
Inflow = 2.60 cfs @ 12.09 hrs, Volume= 0.178 af  
Primary = 2.60 cfs @ 12.09 hrs, Volume= 0.178 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP17:**

Inflow Area = 4.548 ac, 20.07% Impervious, Inflow Depth = 2.02" for 25-Year event  
Inflow = 5.20 cfs @ 11.94 hrs, Volume= 0.767 af  
Primary = 5.20 cfs @ 11.94 hrs, Volume= 0.767 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP18:**

Inflow Area = 0.186 ac, 11.29% Impervious, Inflow Depth = 2.13" for 25-Year event  
Inflow = 0.74 cfs @ 11.95 hrs, Volume= 0.033 af  
Primary = 0.74 cfs @ 11.95 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP19:**

Inflow Area = 0.648 ac, 3.70% Impervious, Inflow Depth = 1.89" for 25-Year event  
Inflow = 1.77 cfs @ 12.04 hrs, Volume= 0.102 af  
Primary = 1.77 cfs @ 12.04 hrs, Volume= 0.102 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP2:**

Inflow Area = 1.275 ac, 5.49% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 2.69 cfs @ 12.16 hrs, Volume= 0.218 af  
Primary = 2.69 cfs @ 12.16 hrs, Volume= 0.218 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP20:**

Inflow Area = 50.264 ac, 9.71% Impervious, Inflow Depth = 1.83" for 25-Year event  
Inflow = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af  
Primary = 47.79 cfs @ 12.38 hrs, Volume= 7.683 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP21:**

Inflow Area = 7.874 ac, 25.98% Impervious, Inflow Depth = 2.27" for 25-Year event  
Inflow = 1.77 cfs @ 12.98 hrs, Volume= 1.488 af  
Primary = 1.77 cfs @ 12.98 hrs, Volume= 1.488 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP22:**

Inflow Area = 0.328 ac, 7.62% Impervious, Inflow Depth = 2.13" for 25-Year event  
Inflow = 1.00 cfs @ 12.04 hrs, Volume= 0.058 af  
Primary = 1.00 cfs @ 12.04 hrs, Volume= 0.058 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP23:**

Inflow Area = 2.727 ac, 29.63% Impervious, Inflow Depth = 2.53" for 25-Year event  
Inflow = 1.65 cfs @ 12.40 hrs, Volume= 0.576 af  
Primary = 1.65 cfs @ 12.40 hrs, Volume= 0.576 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP24:**

Inflow Area = 13.779 ac, 3.95% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af  
Primary = 31.67 cfs @ 12.12 hrs, Volume= 2.351 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP3:**

Inflow Area = 4.241 ac, 25.14% Impervious, Inflow Depth = 2.48" for 25-Year event  
Inflow = 1.63 cfs @ 12.80 hrs, Volume= 0.876 af  
Primary = 1.63 cfs @ 12.80 hrs, Volume= 0.876 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP4:**

Inflow Area = 62.647 ac, 2.01% Impervious, Inflow Depth = 1.90" for 25-Year event  
Inflow = 75.21 cfs @ 12.10 hrs, Volume= 9.904 af  
Primary = 75.21 cfs @ 12.10 hrs, Volume= 9.904 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP5:**

Inflow Area = 2.355 ac, 0.51% Impervious, Inflow Depth = 1.97" for 25-Year event  
Inflow = 4.27 cfs @ 12.21 hrs, Volume= 0.387 af  
Primary = 4.27 cfs @ 12.21 hrs, Volume= 0.387 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP6:**

Inflow Area = 75.057 ac, 9.07% Impervious, Inflow Depth = 1.95" for 25-Year event  
Inflow = 106.30 cfs @ 12.15 hrs, Volume= 12.172 af  
Primary = 106.30 cfs @ 12.15 hrs, Volume= 12.172 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP7:**

Inflow Area = 0.872 ac, 6.42% Impervious, Inflow Depth = 2.05" for 25-Year event  
Inflow = 2.45 cfs @ 12.05 hrs, Volume= 0.149 af  
Primary = 2.45 cfs @ 12.05 hrs, Volume= 0.149 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP8:**

Inflow Area = 0.344 ac, 19.19% Impervious, Inflow Depth = 2.29" for 25-Year event  
Inflow = 1.13 cfs @ 12.03 hrs, Volume= 0.066 af  
Primary = 1.13 cfs @ 12.03 hrs, Volume= 0.066 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs

**Summary for Link SP9:**

Inflow Area = 0.148 ac, 24.32% Impervious, Inflow Depth = 2.37" for 25-Year event  
Inflow = 0.51 cfs @ 12.03 hrs, Volume= 0.029 af  
Primary = 0.51 cfs @ 12.03 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-120.00 hrs, dt= 0.05 hrs