

Site Plans

Issued for	Review
Date Issued	April 29, 2022
Latest Issue	April 29, 2022

Sugarloaf West Mountain Development

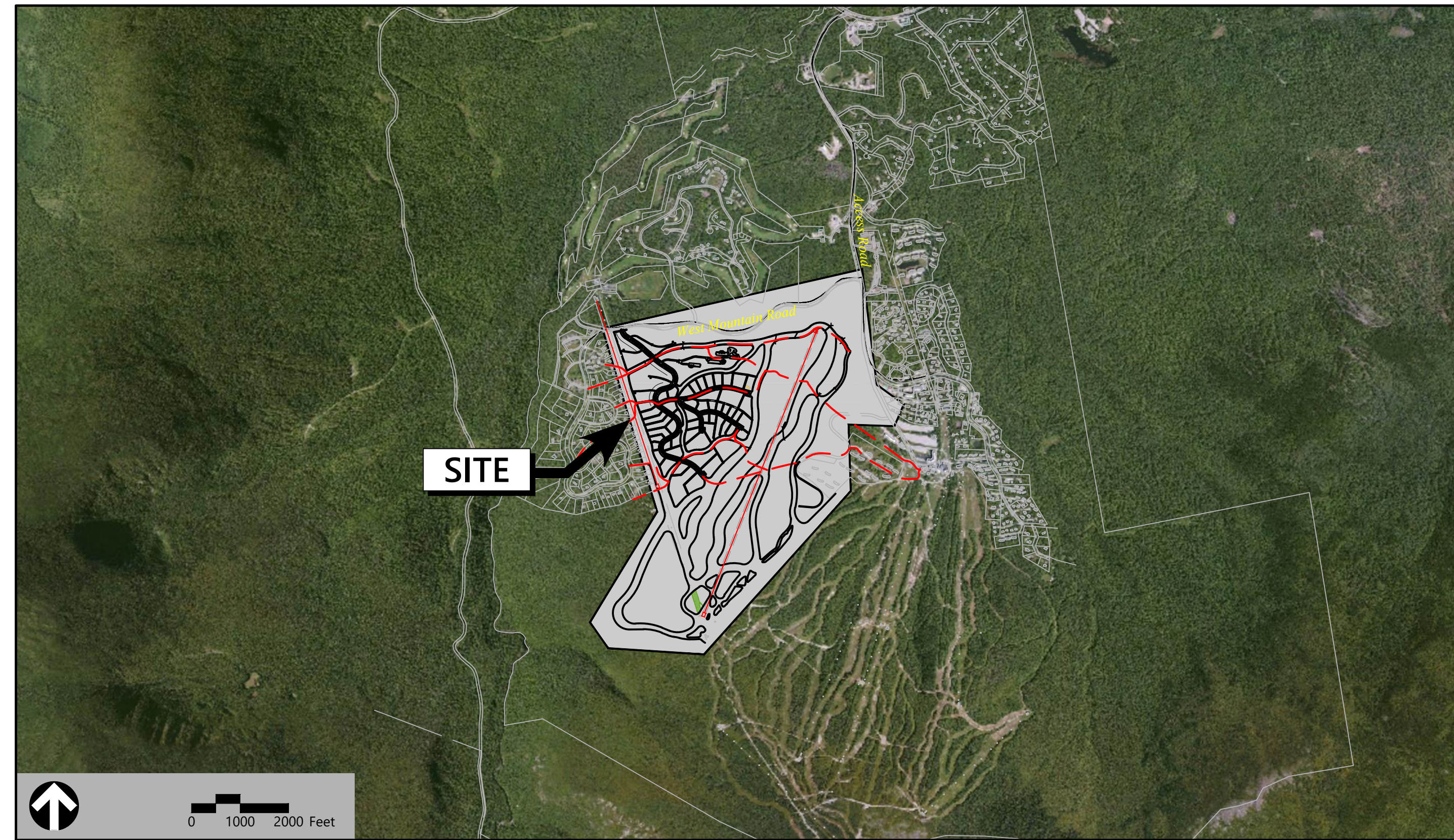
5092 Sugarloaf Access Road
Carrabassett Valley, ME 04947

Owner

Sugarloaf Mountain Corporation
c/o Boyne USA, Inc.
3951 Charlevoix Avenue
Petoskey, MI 49770

Applicant

Sugarloaf Mountain Corporation
c/o Boyne USA, Inc.
3951 Charlevoix Avenue
Petoskey, MI 49770



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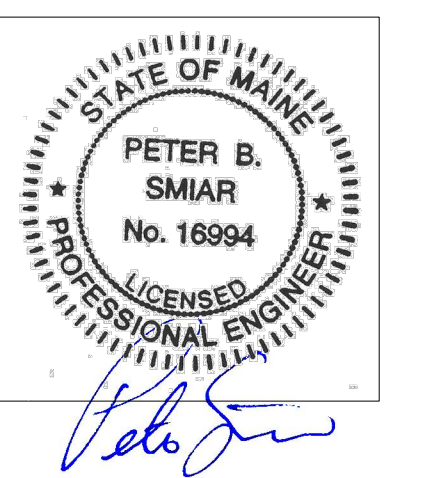
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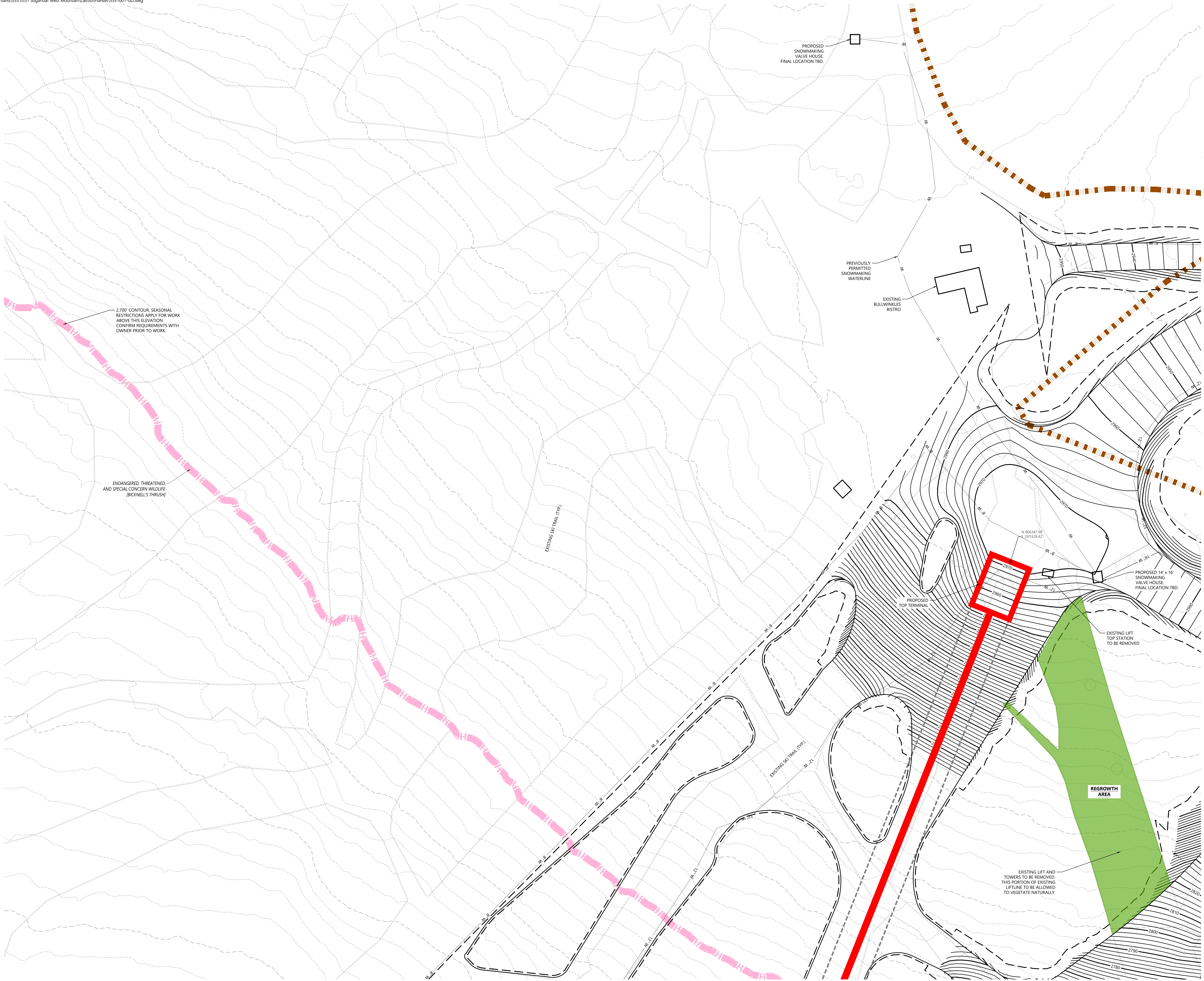
Reference Drawings

SD-1 through SD-8 Subdivision Plan of Land, by VHB, Dated August 20, 2021

Notes

Drawings indicated with ~~strike-through~~ are not included with these revised submitted plans.





2,700' CONTOUR. SEASONAL RESTRICTIONS APPLY FOR WORK ABOVE THIS ELEVATION. CONFIRM REQUIREMENTS WITH OWNER PRIOR TO WORK.

ENDANGERED, THREATENED AND SPECIAL CONCERN WILDLIFE (BICKNELL'S THRUSH)

EXISTING SKI TRAIL (TYP)

EXISTING SKI TRAIL (TYP)

REGROWTH AREA

EXISTING LIFT AND TOWERS TO BE REMOVED. THIS PORTION OF EXISTING LIFTLINE TO BE ALLOWED TO VEGETATE NATURALLY.

EXISTING LIFT TOP STATION TO BE REMOVED

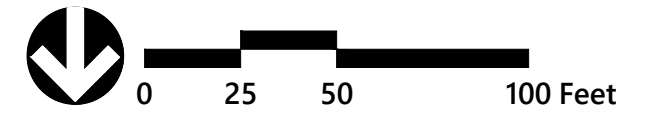
PROPOSED 14' x 16' SNOWMAKING VALVE HOUSE. FINAL LOCATION TBD.

PREVIOUSLY PERMITTED SNOWMAKING WATERLINE

EXISTING BULLWINKLES BISTRO

PROPOSED TOP TERMINAL

N 80°34' 00" E 2913.08 ± 42'

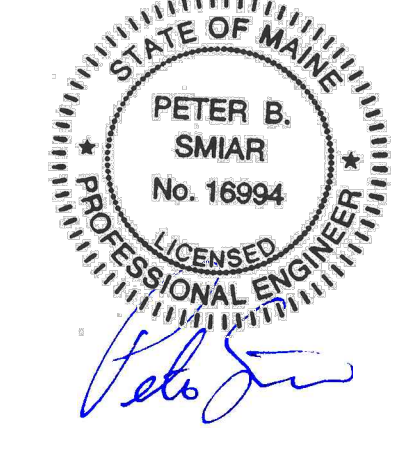


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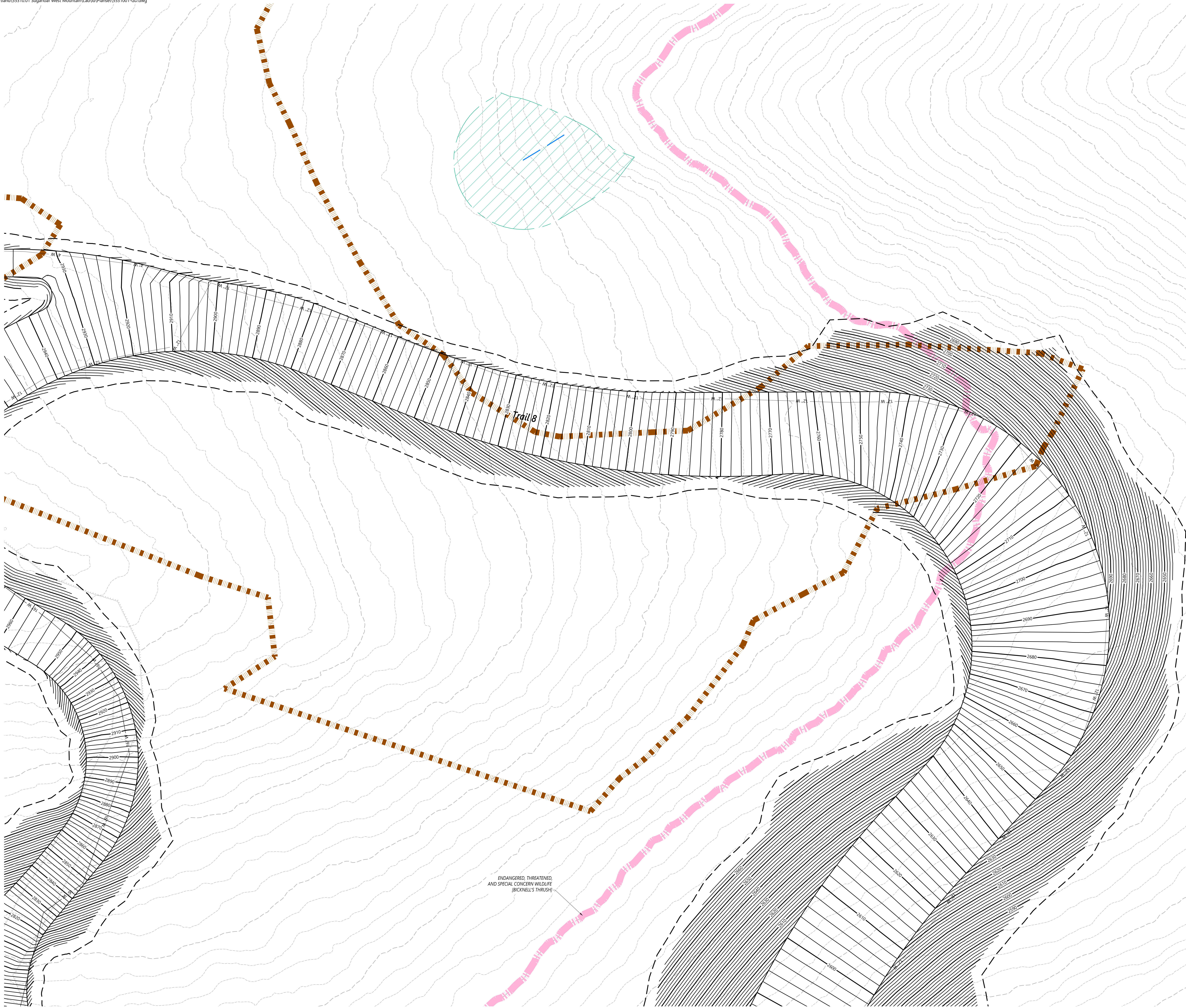
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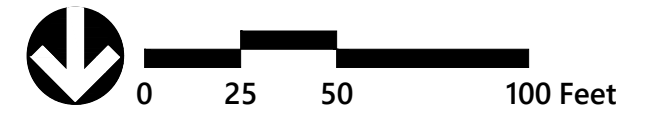
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ENDANGERED, THREATENED,
AND SPECIAL CONCERN WILDLIFE
(BICKNELL'S THRUSH)



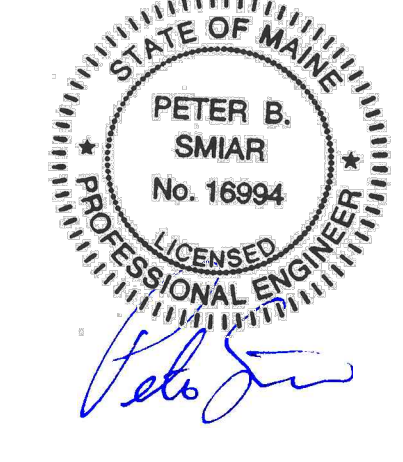
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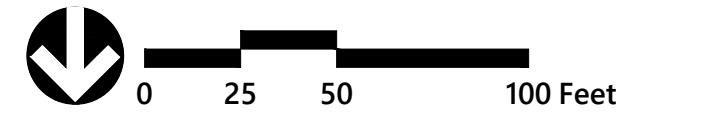
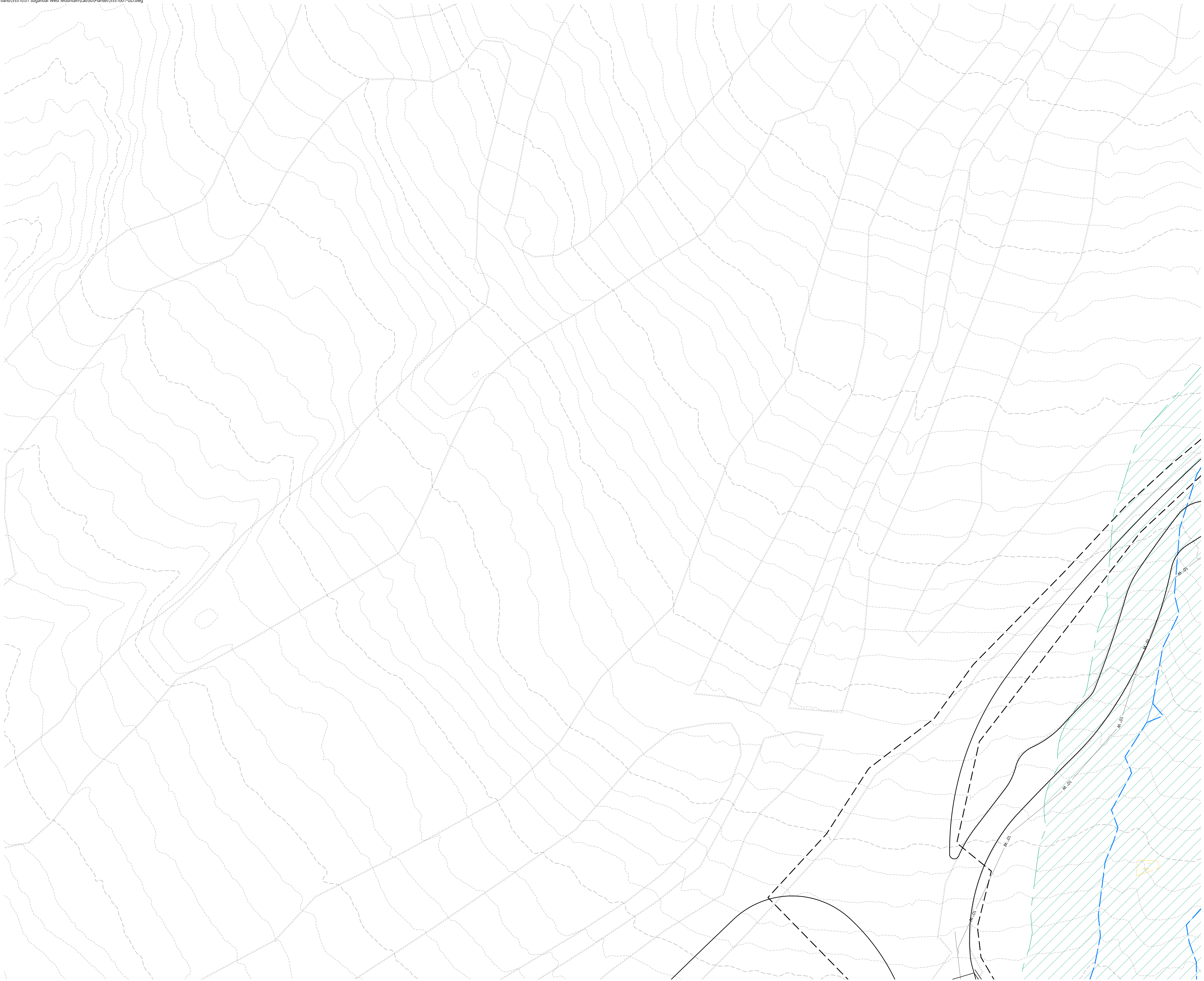
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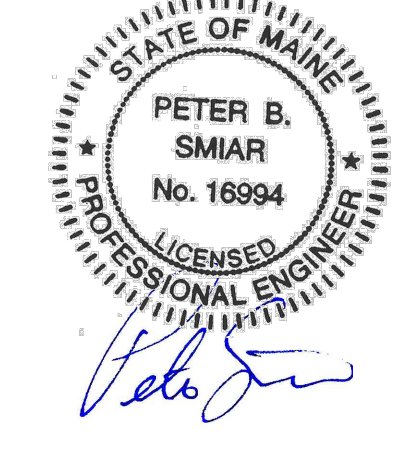


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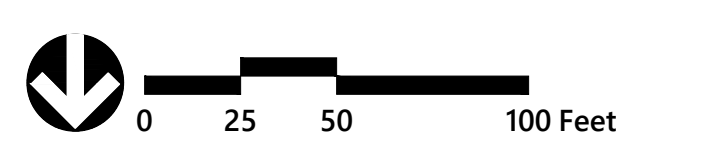
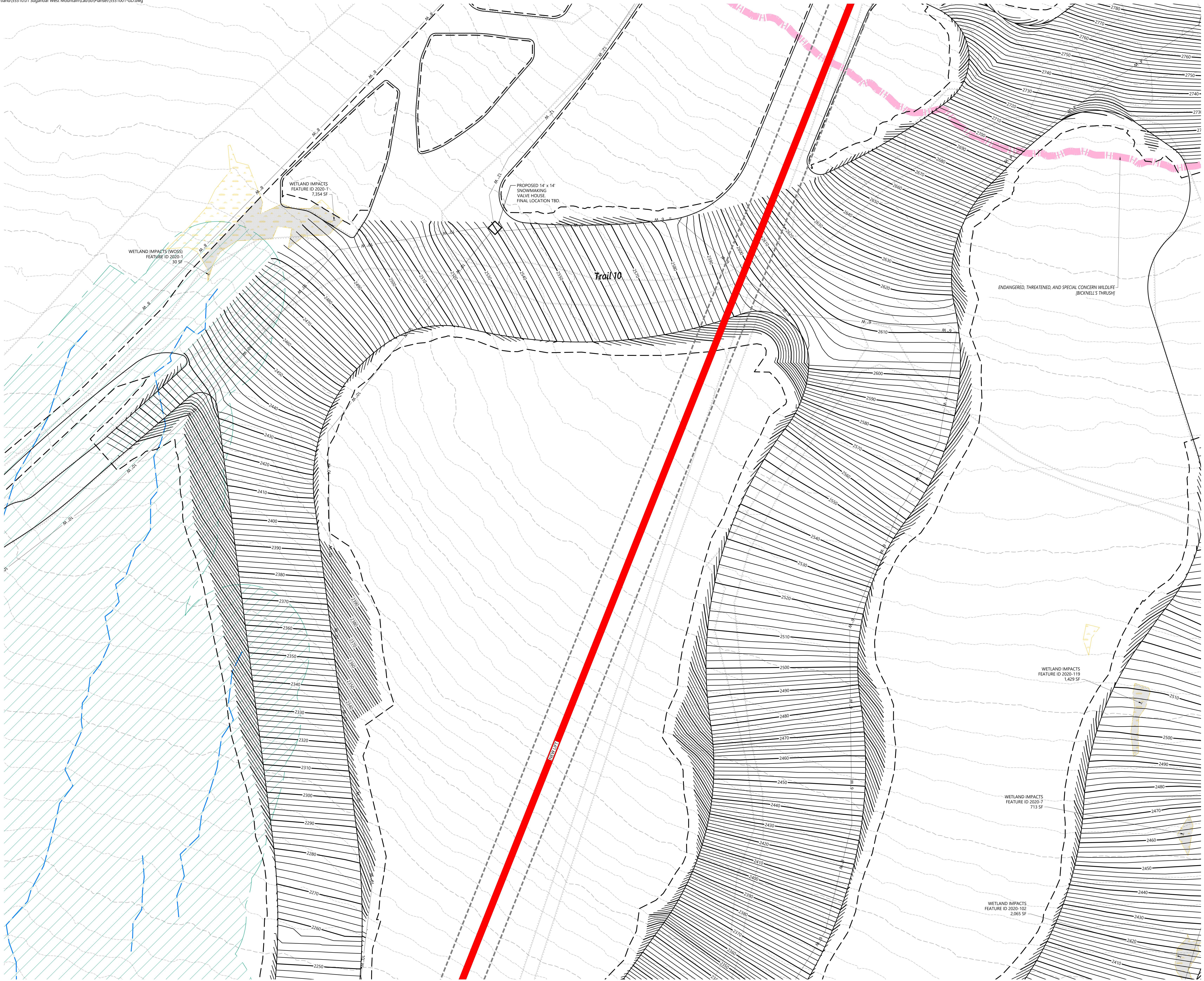
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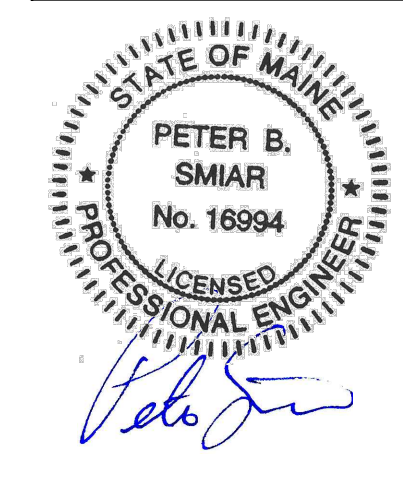


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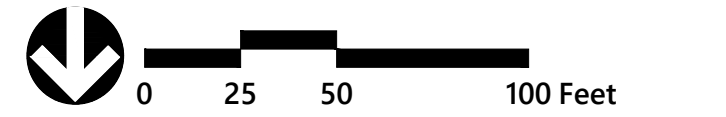
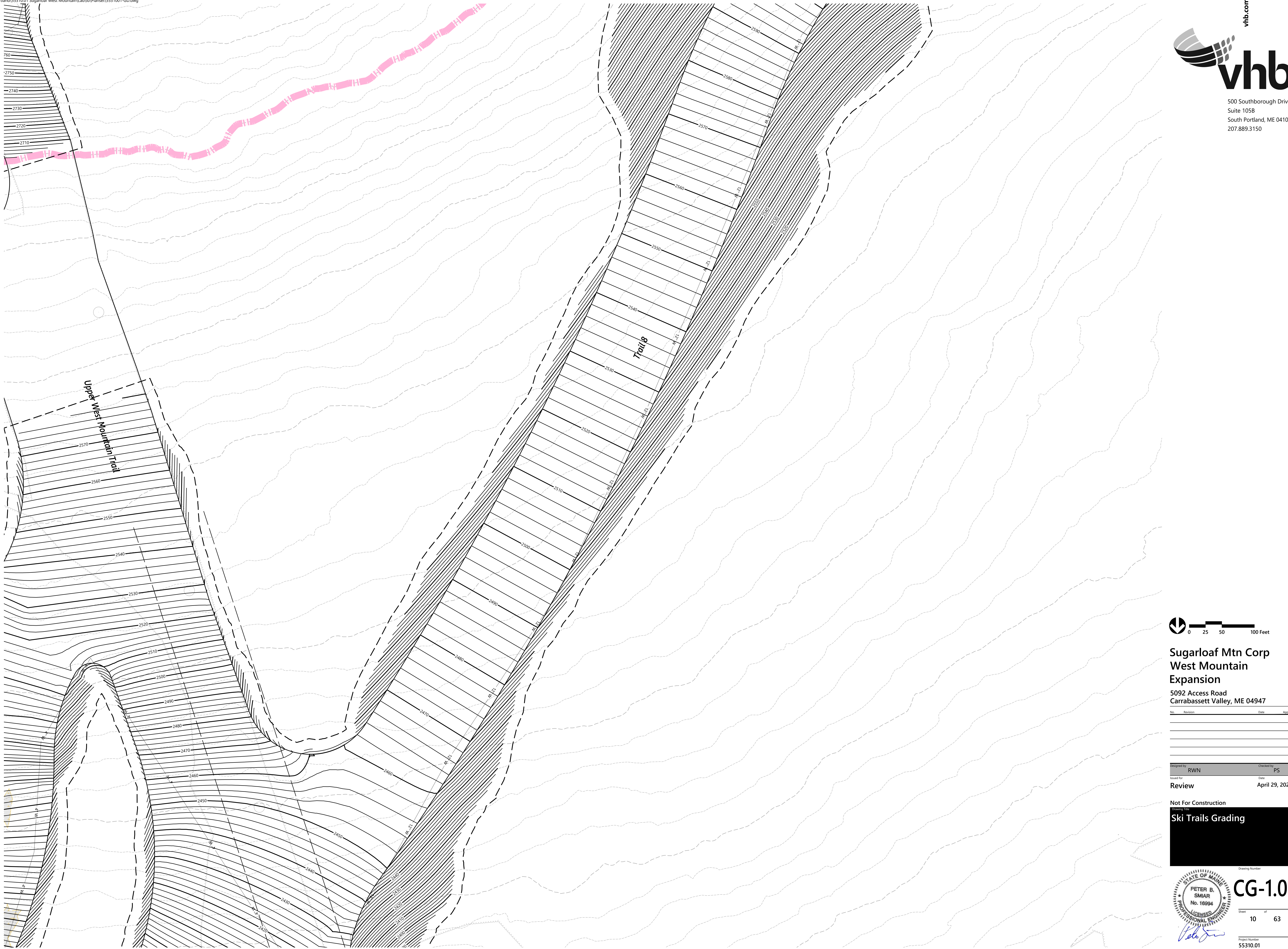
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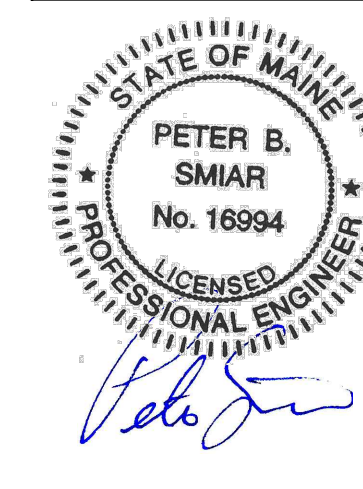
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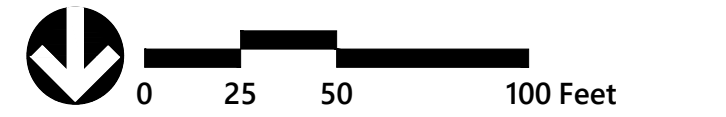
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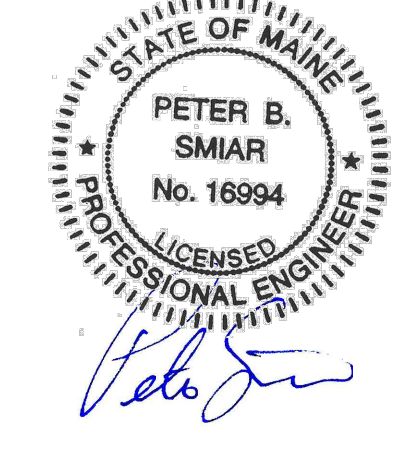


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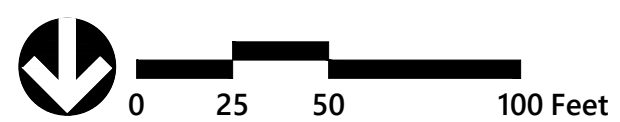
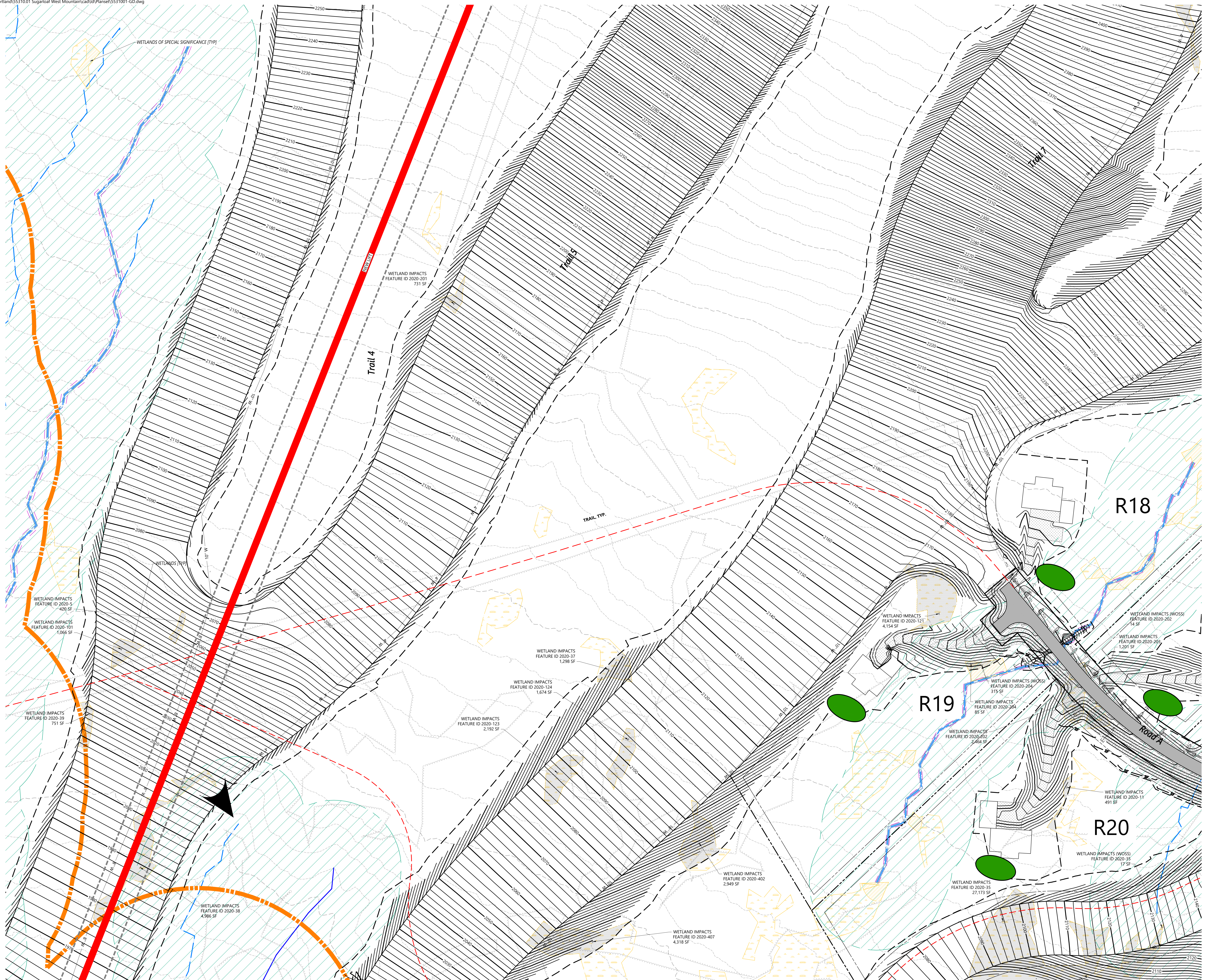
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CG-1.06

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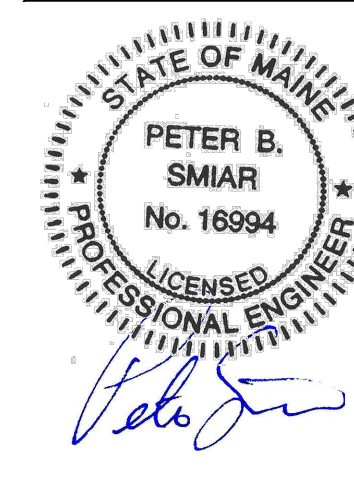


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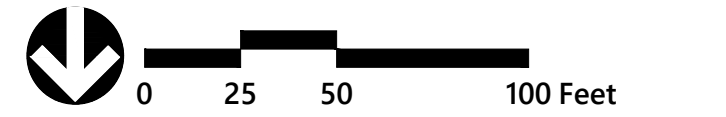
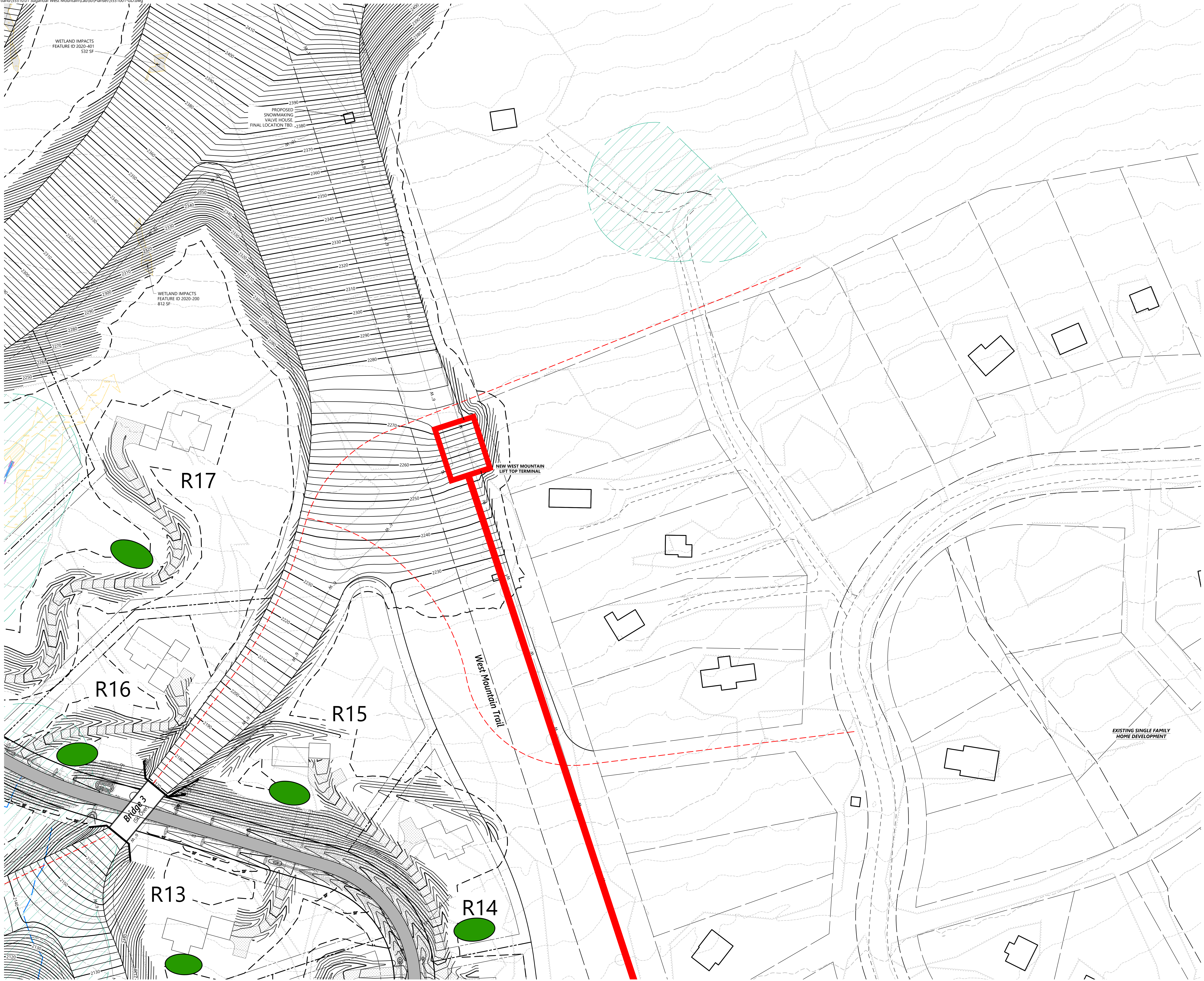
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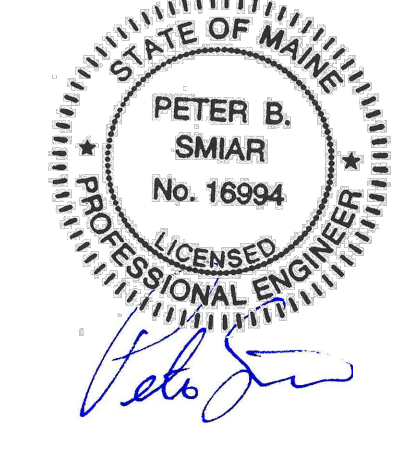


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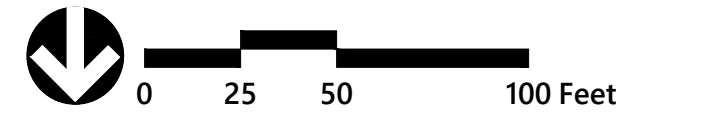
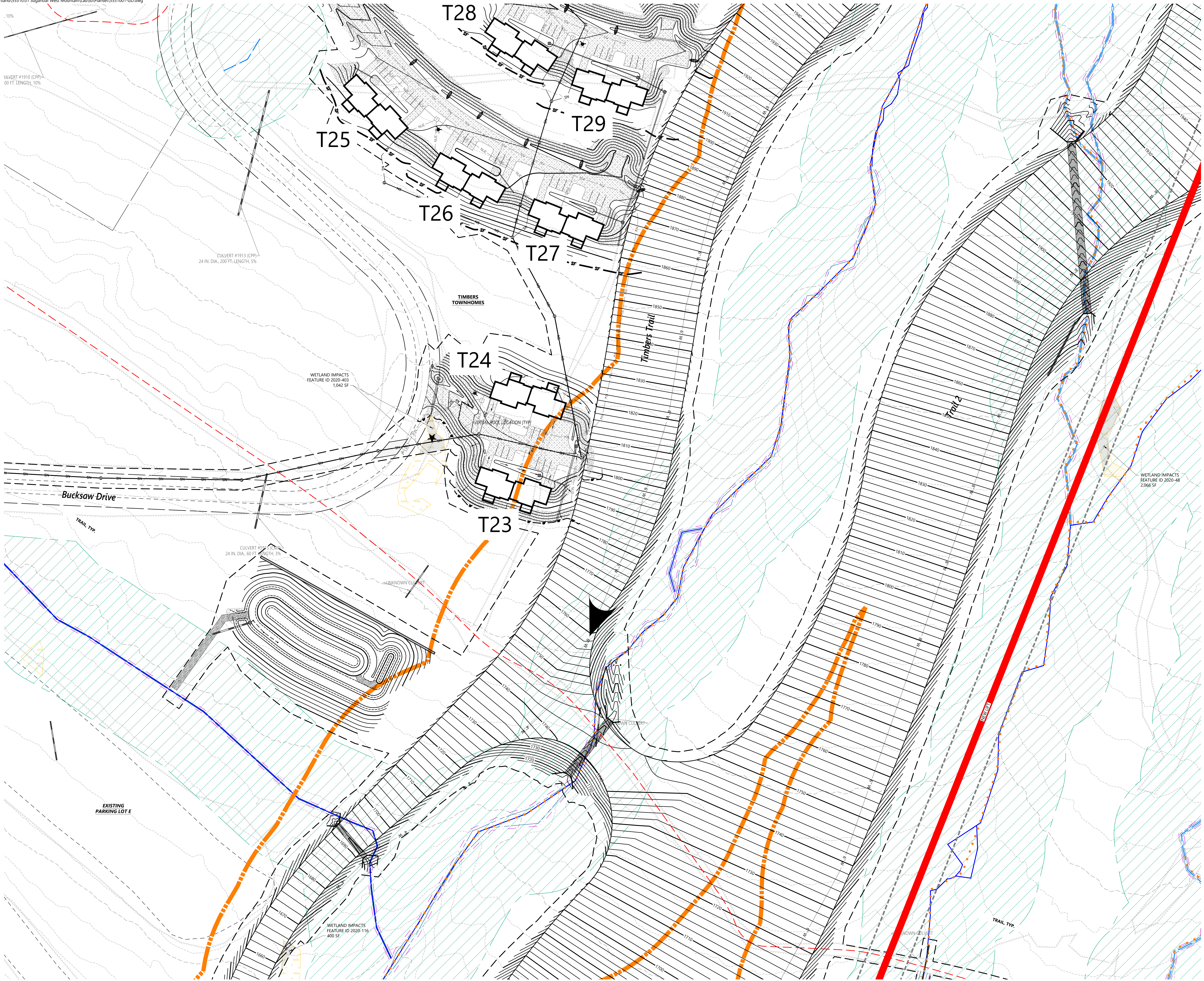
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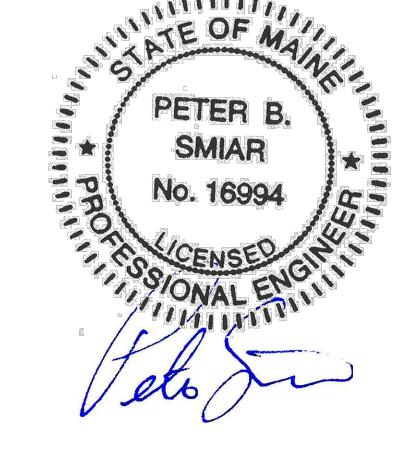


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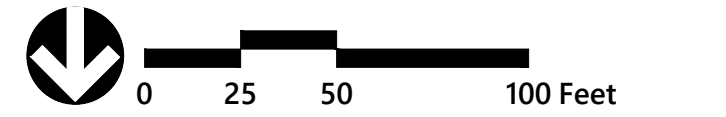
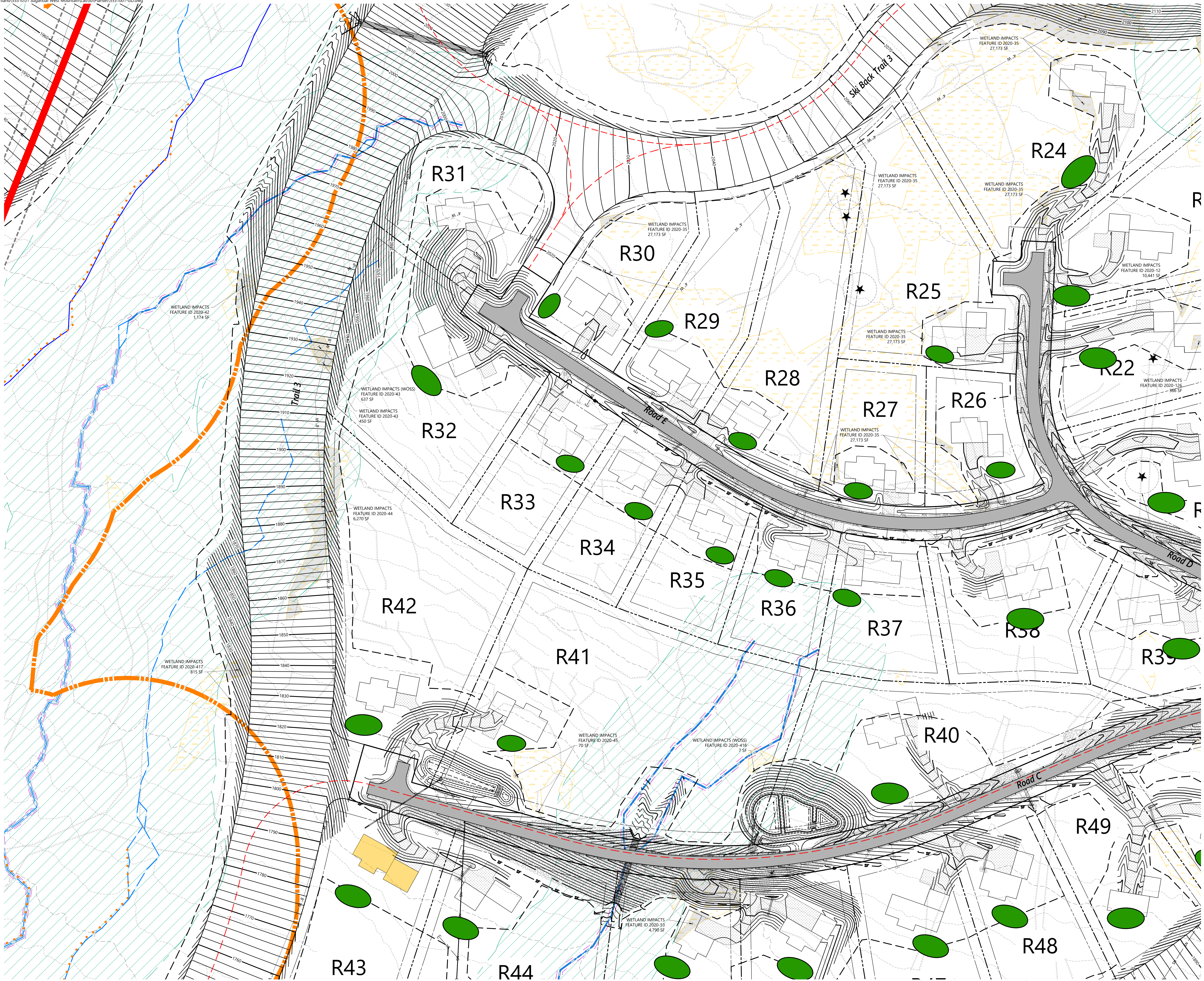
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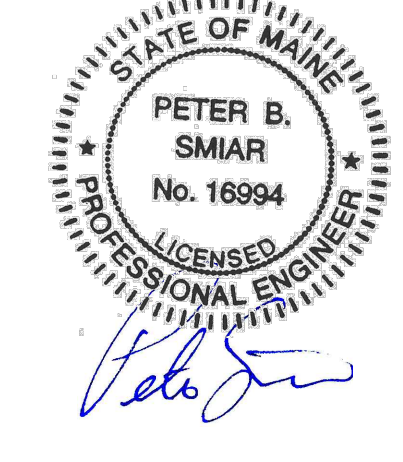


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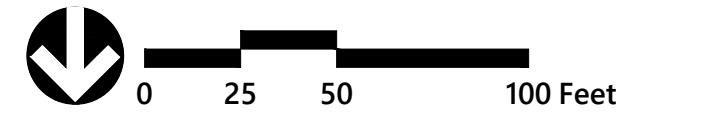
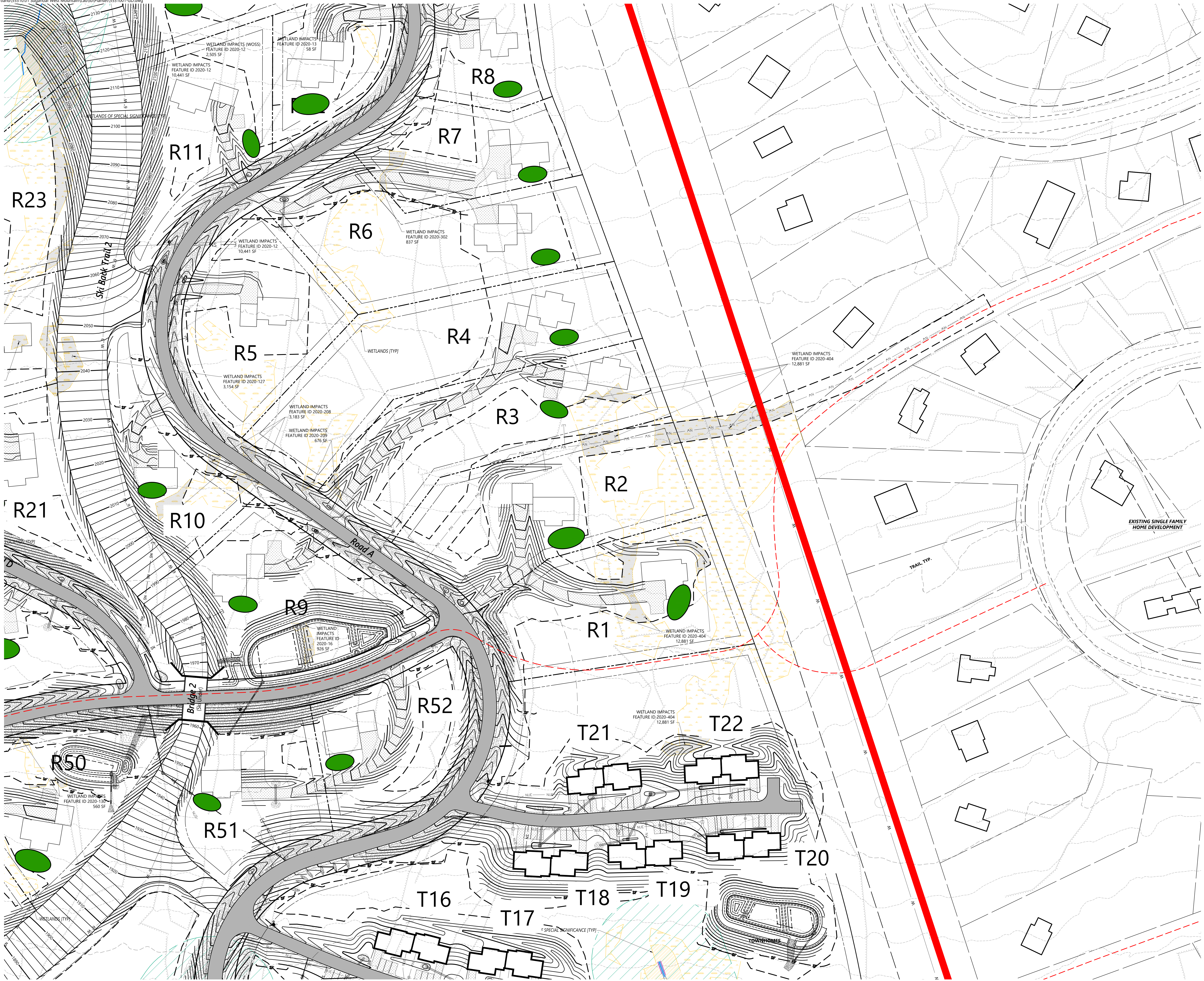
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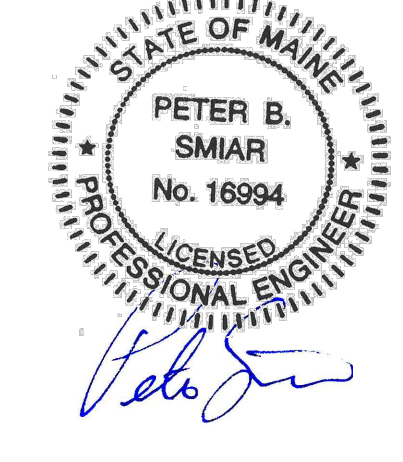
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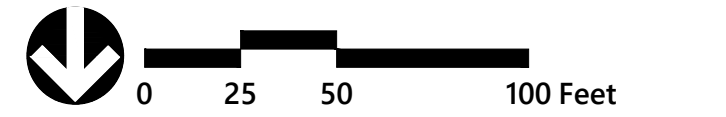
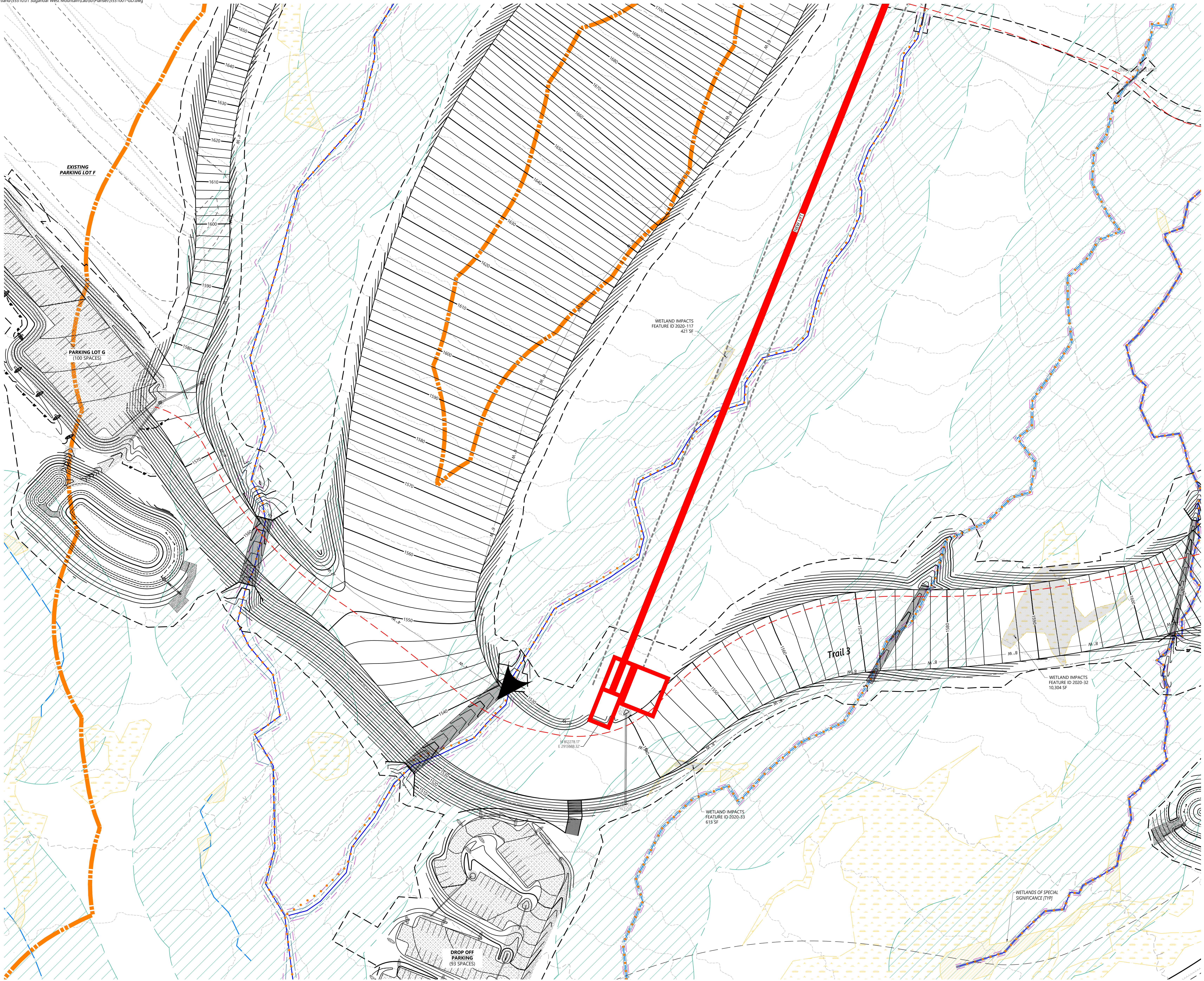
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PETER B. SMIAR
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LICENSED PROFESSIONAL ENGINEER

CG-1.11

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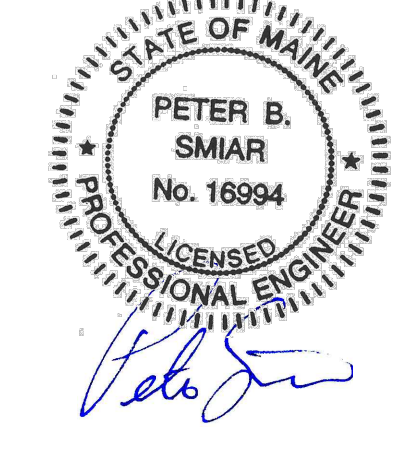


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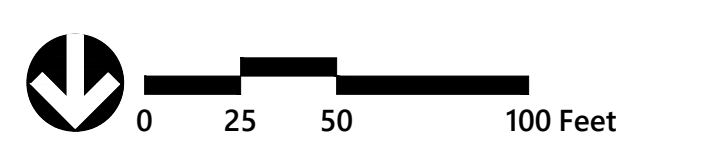
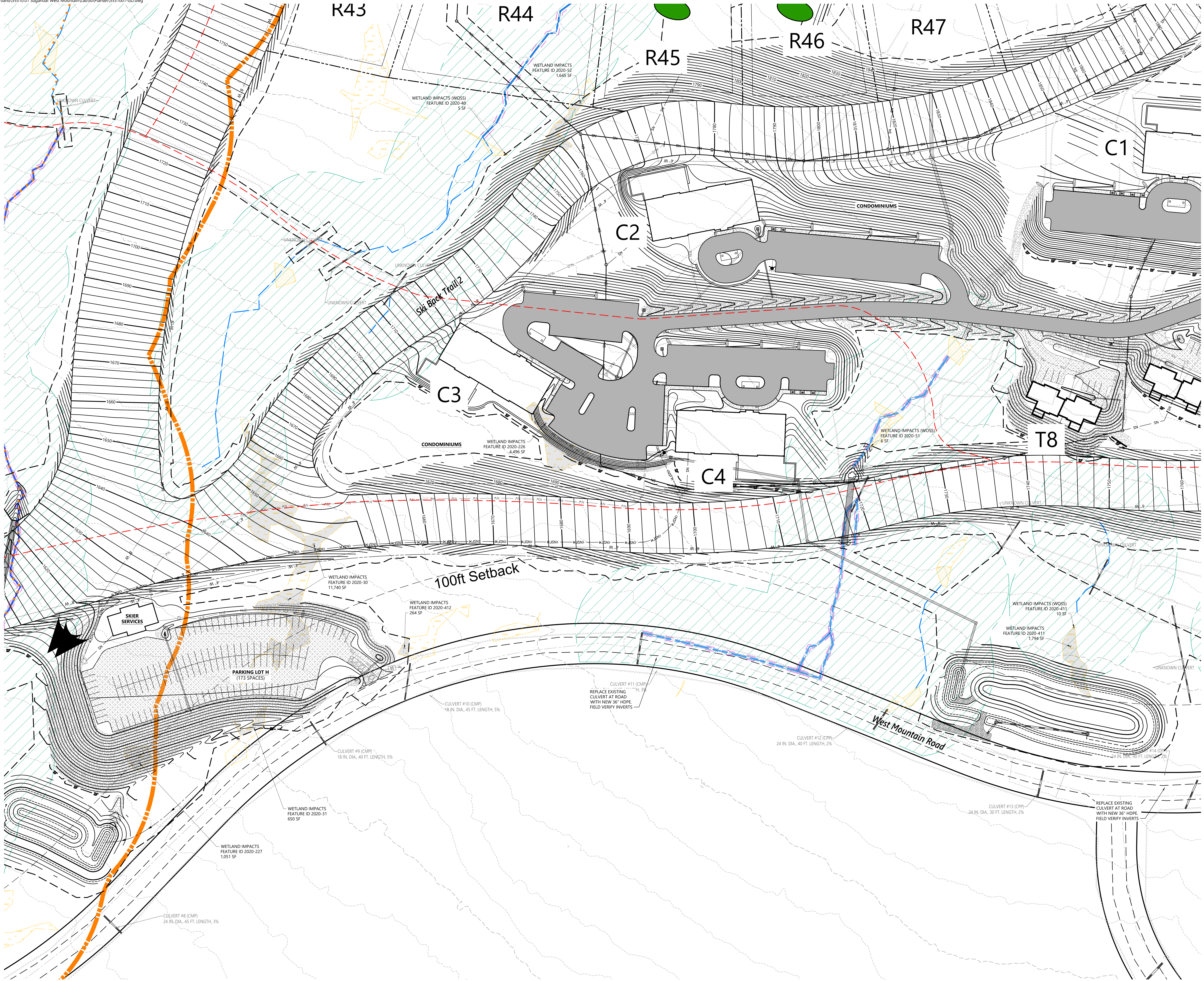
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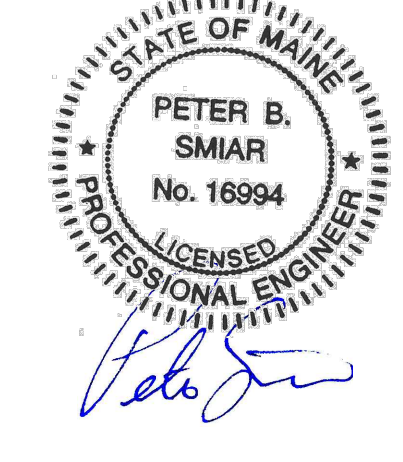


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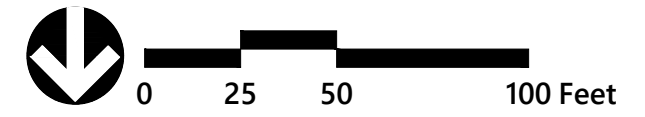
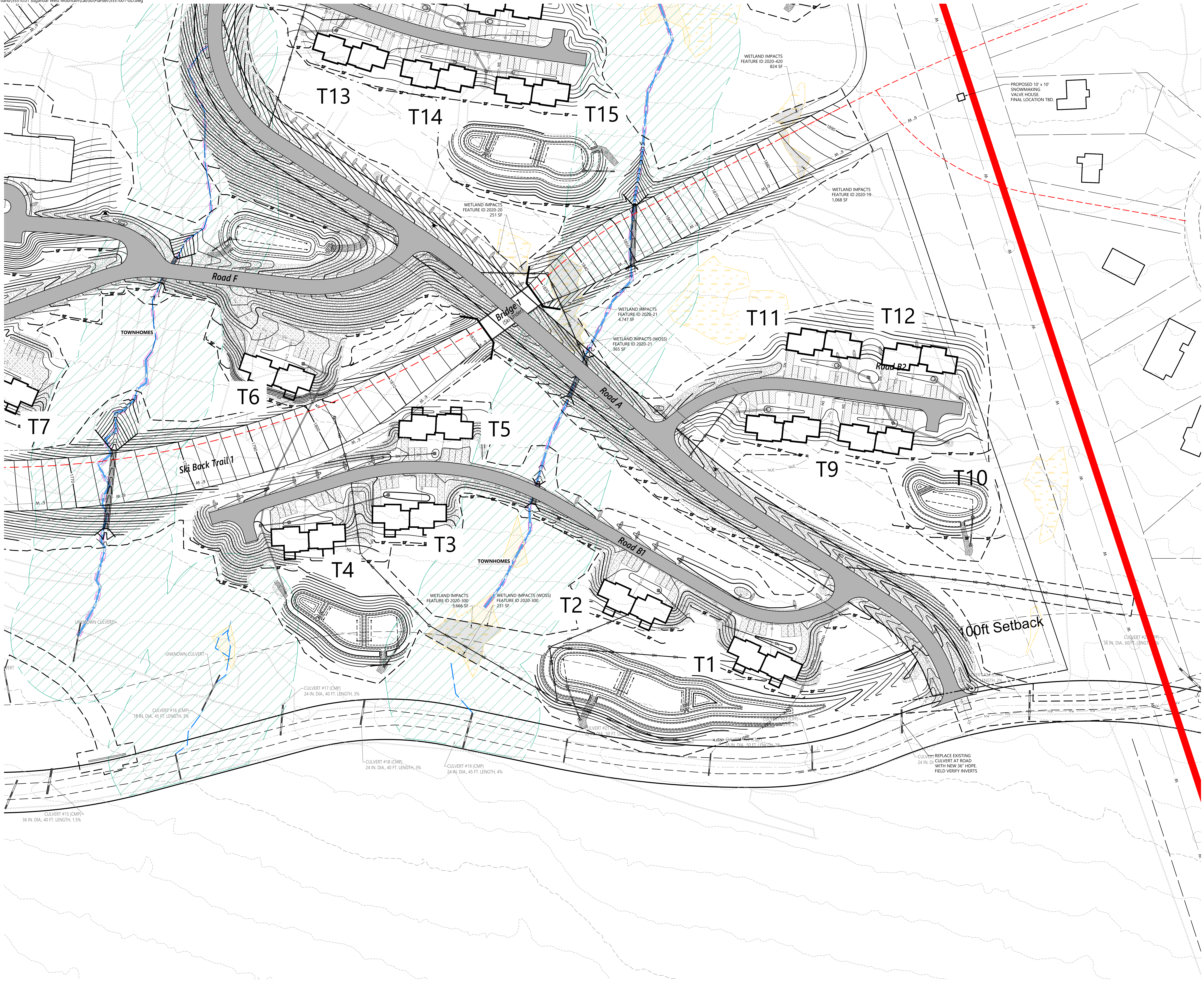
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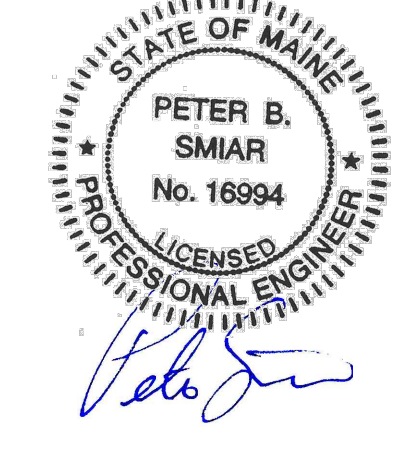


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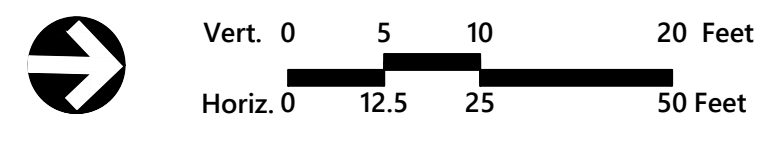
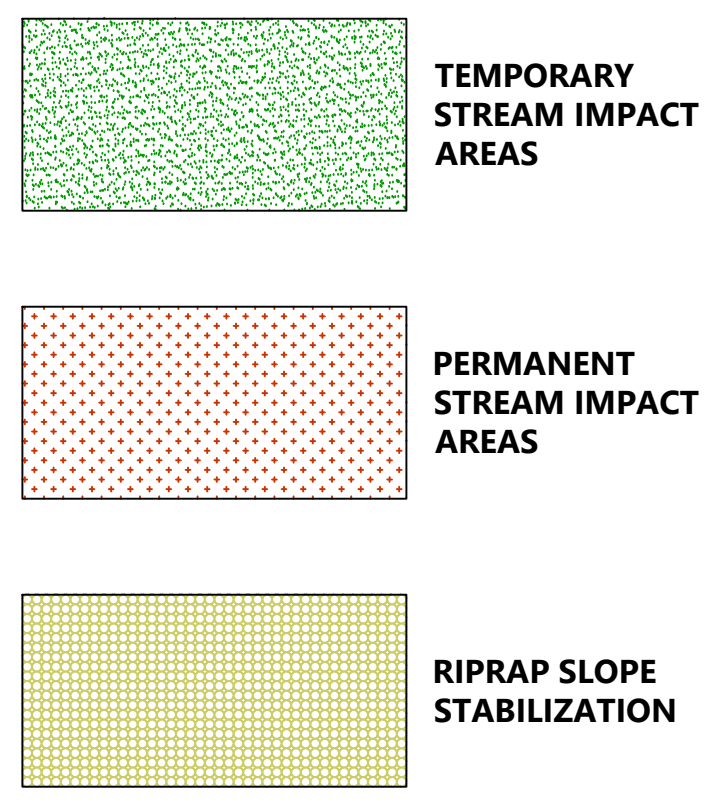
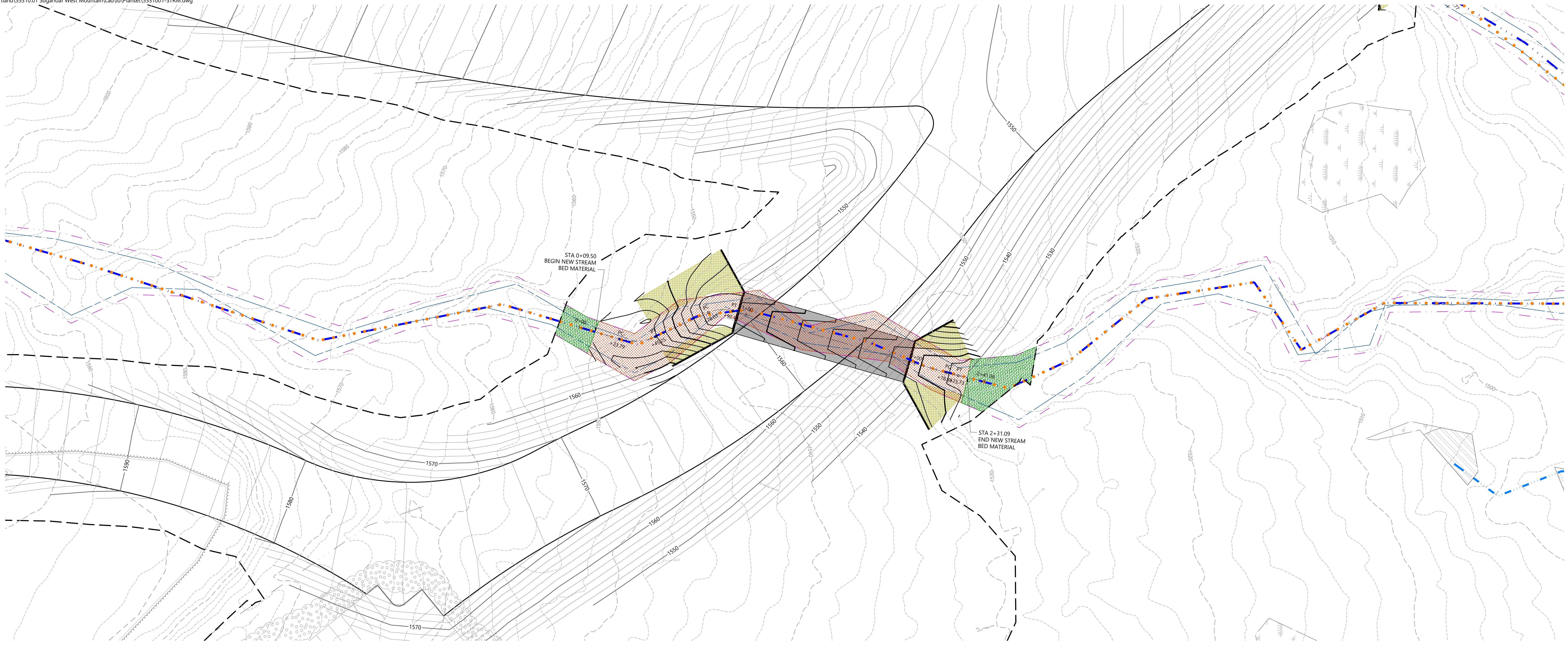
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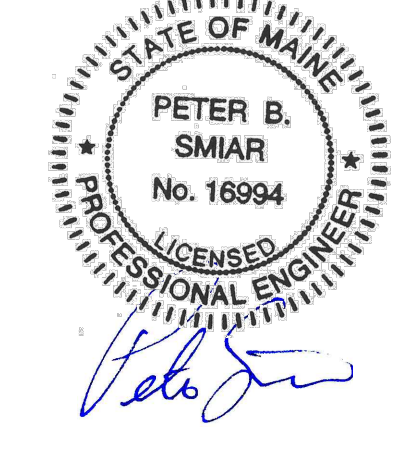


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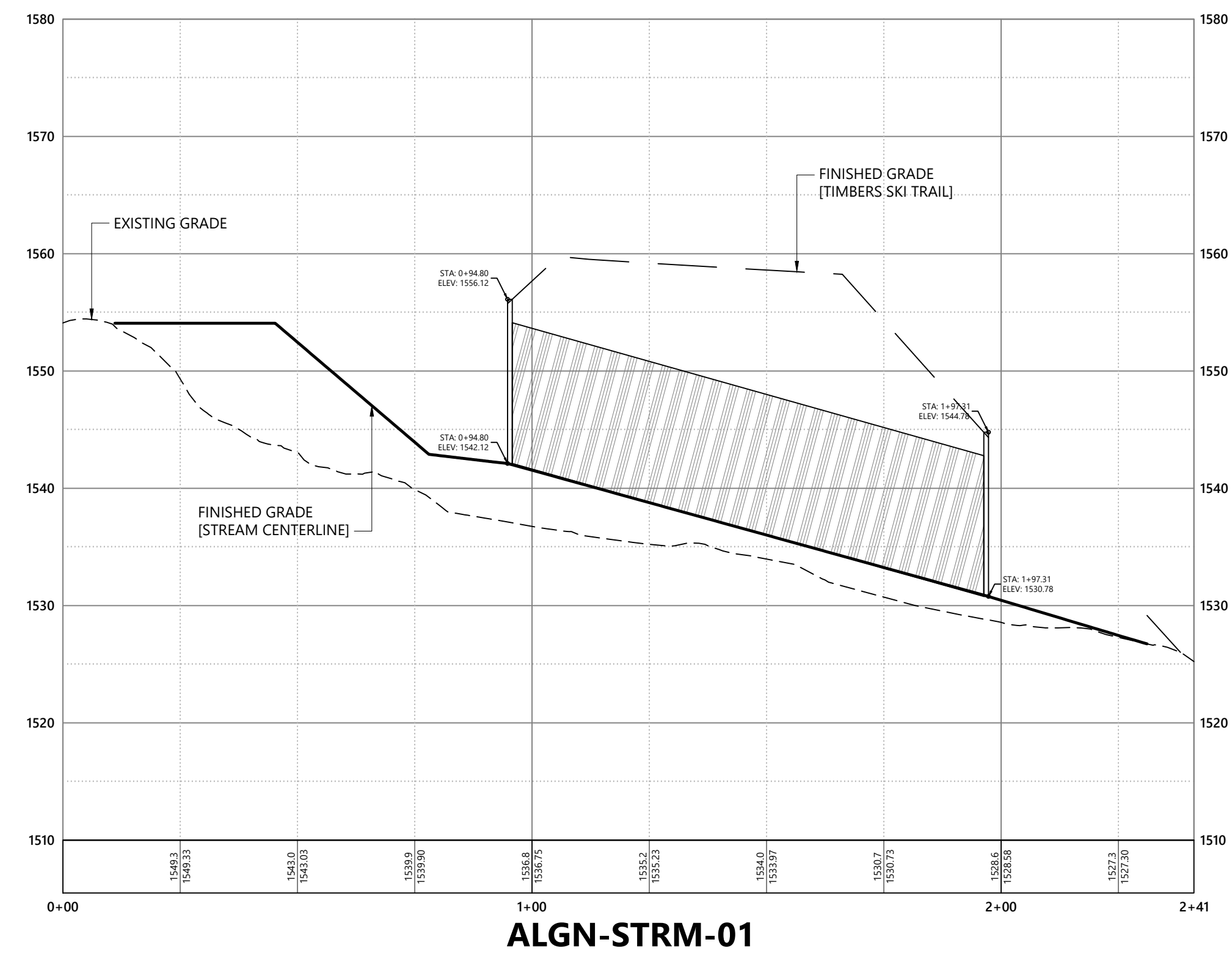
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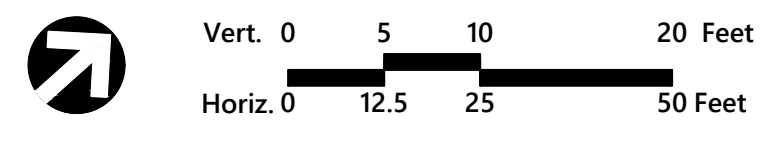
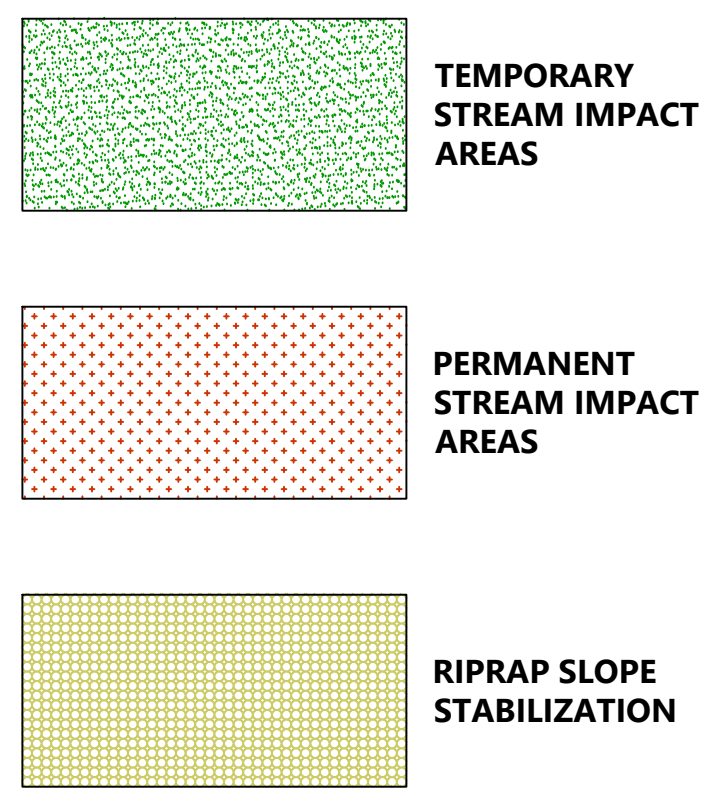
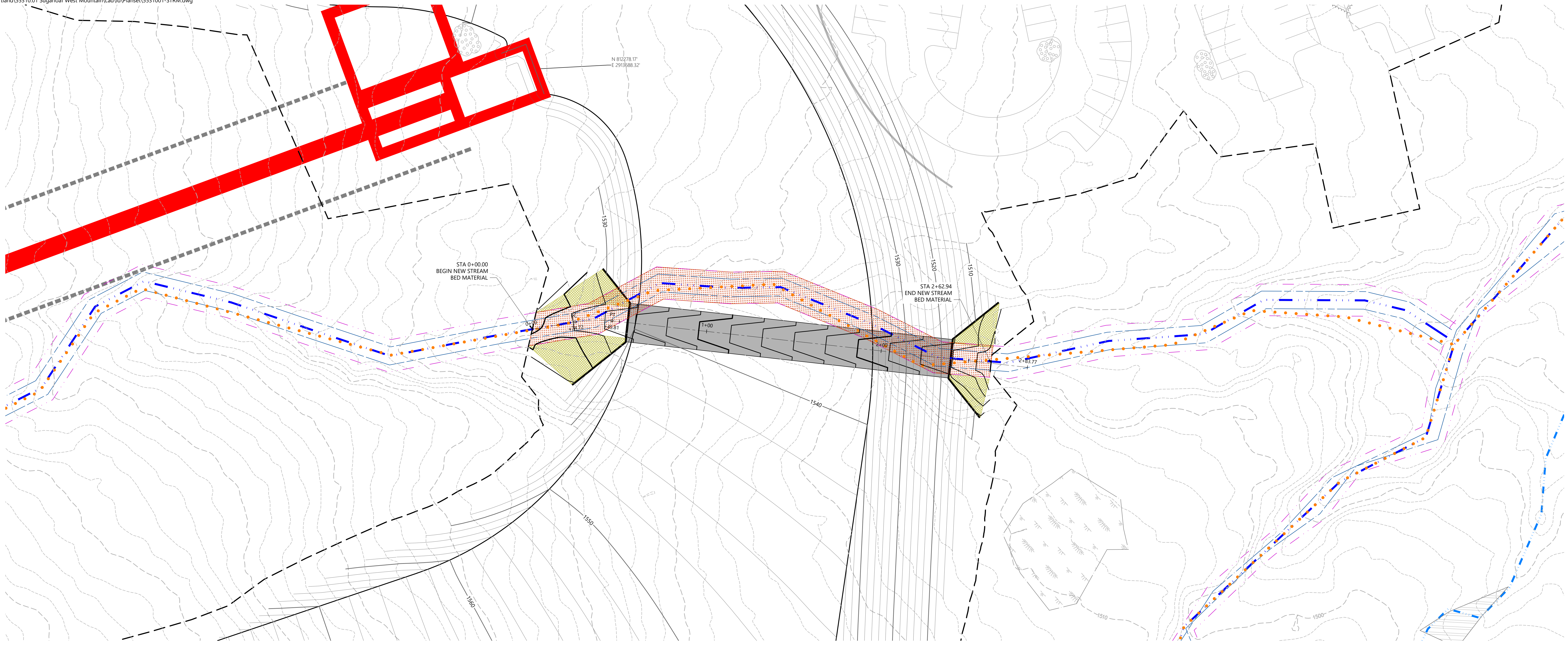
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STREAM CROSSING 1

SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	102.5± Feet
PIPE DIMENSIONS	24' SPAN X 12' RISE
UPSTREAM INVERT	1542.12± Feet
DOWNSTREAM INVERT	1530.78± Feet
SLOPE	0.11 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



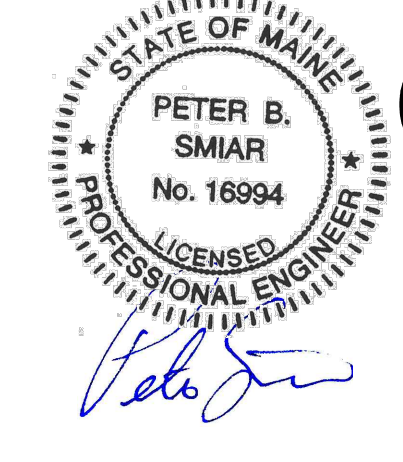


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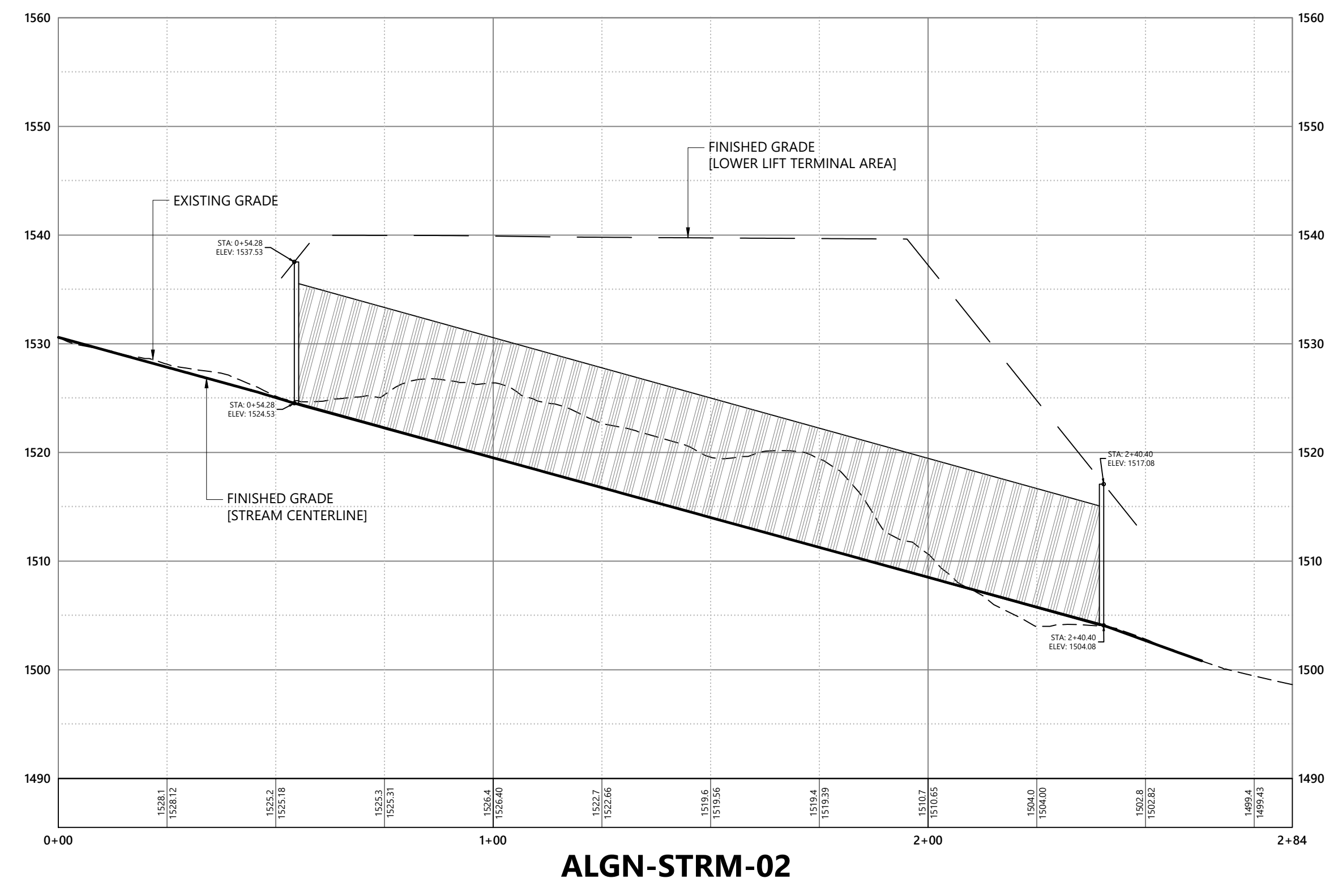
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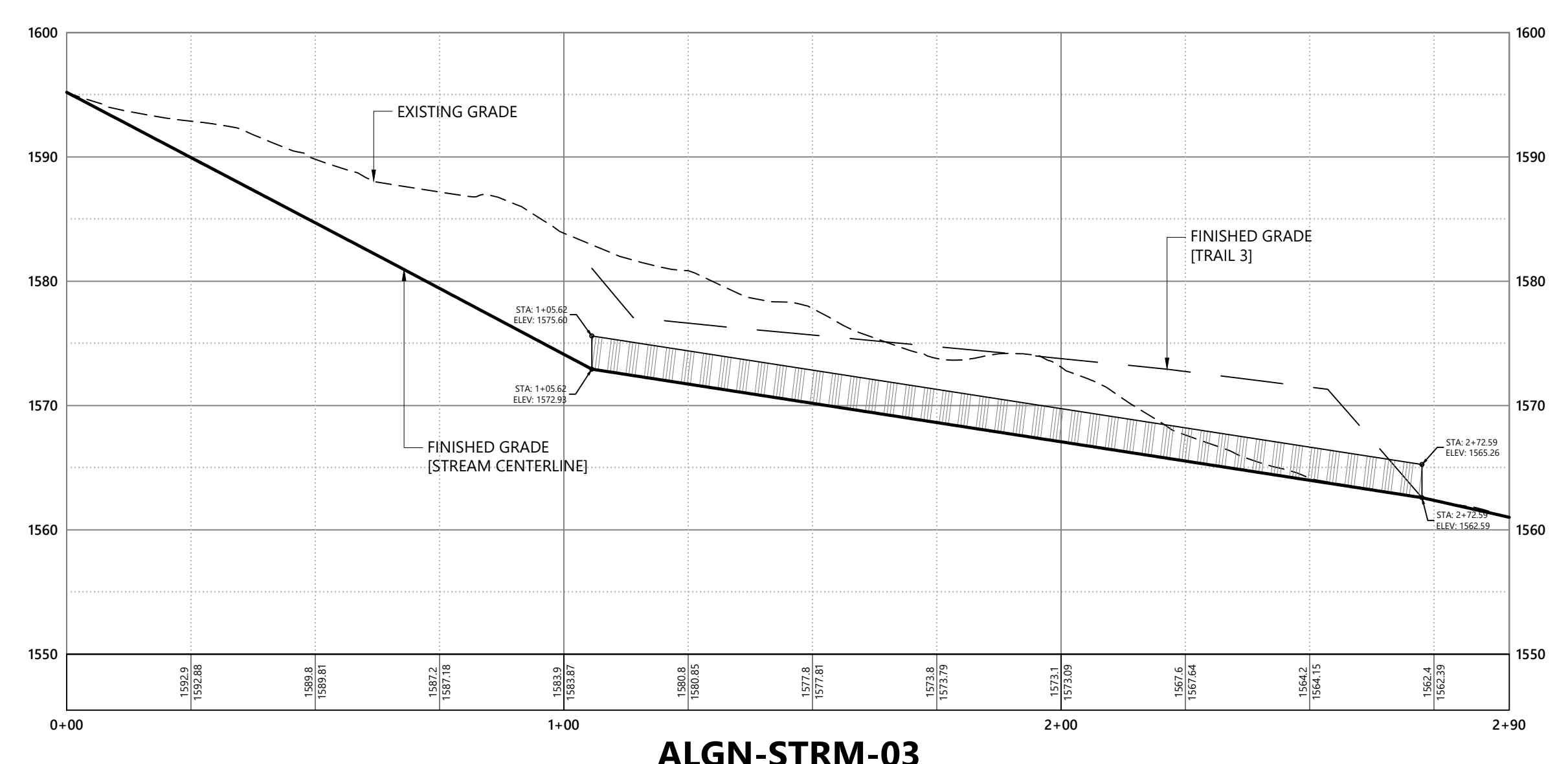
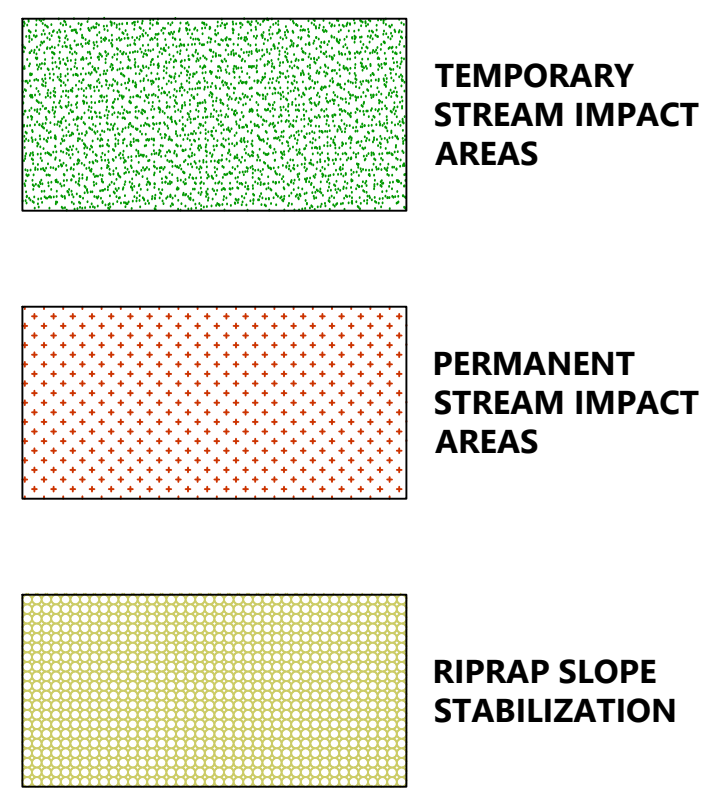
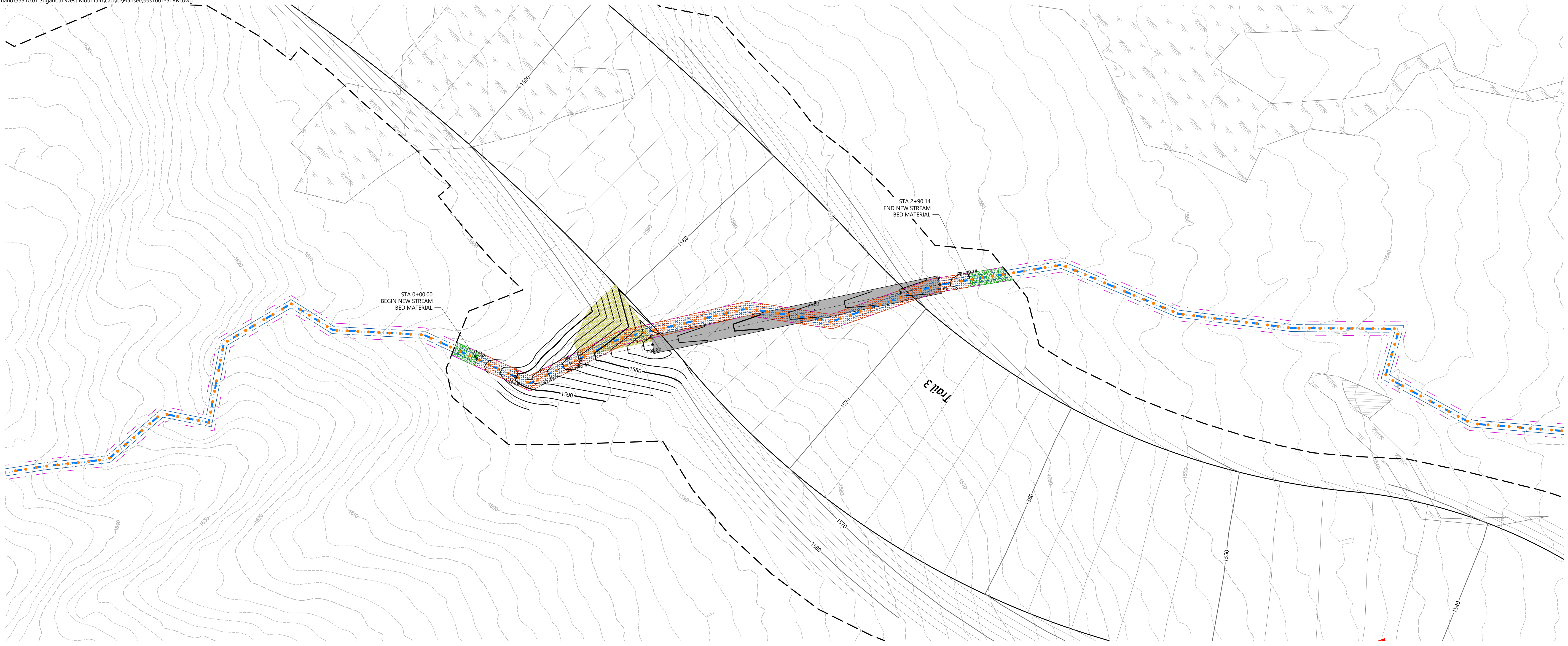
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STREAM CROSSING 2

SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	186.0± Feet
PIPE DIMENSIONS	22' SPAN X 11' RISE
UPSTREAM INVERT	1524.53± Feet
DOWNSTREAM INVERT	1504.08± Feet
SLOPE	0.11 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

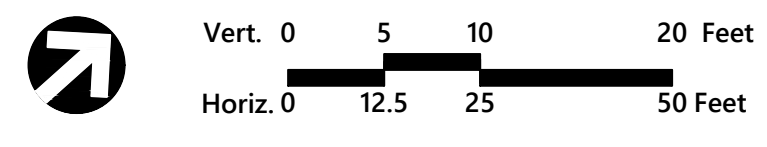


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STREAM CROSSING 3

BOX

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	167.0± Feet
PIPE DIMENSIONS	10.17' SPAN X 2.67' RISE
UPSTREAM INVERT	1572.93± Feet
DOWNSTREAM INVERT	1562.59± Feet
SLOPE	0.06 FT/FT
WINGWALLS	N/A
UPSTREAM ENDWALL DIMENSION	N/A
DOWNSTREAM ENDWALL DIMENSION	N/A

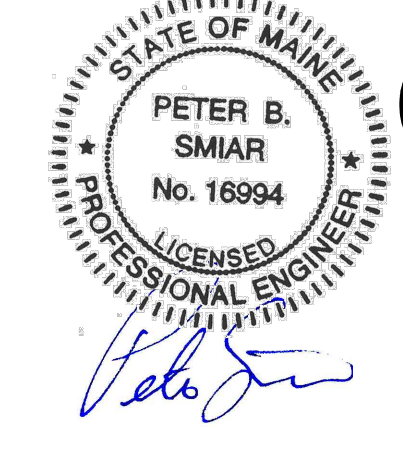


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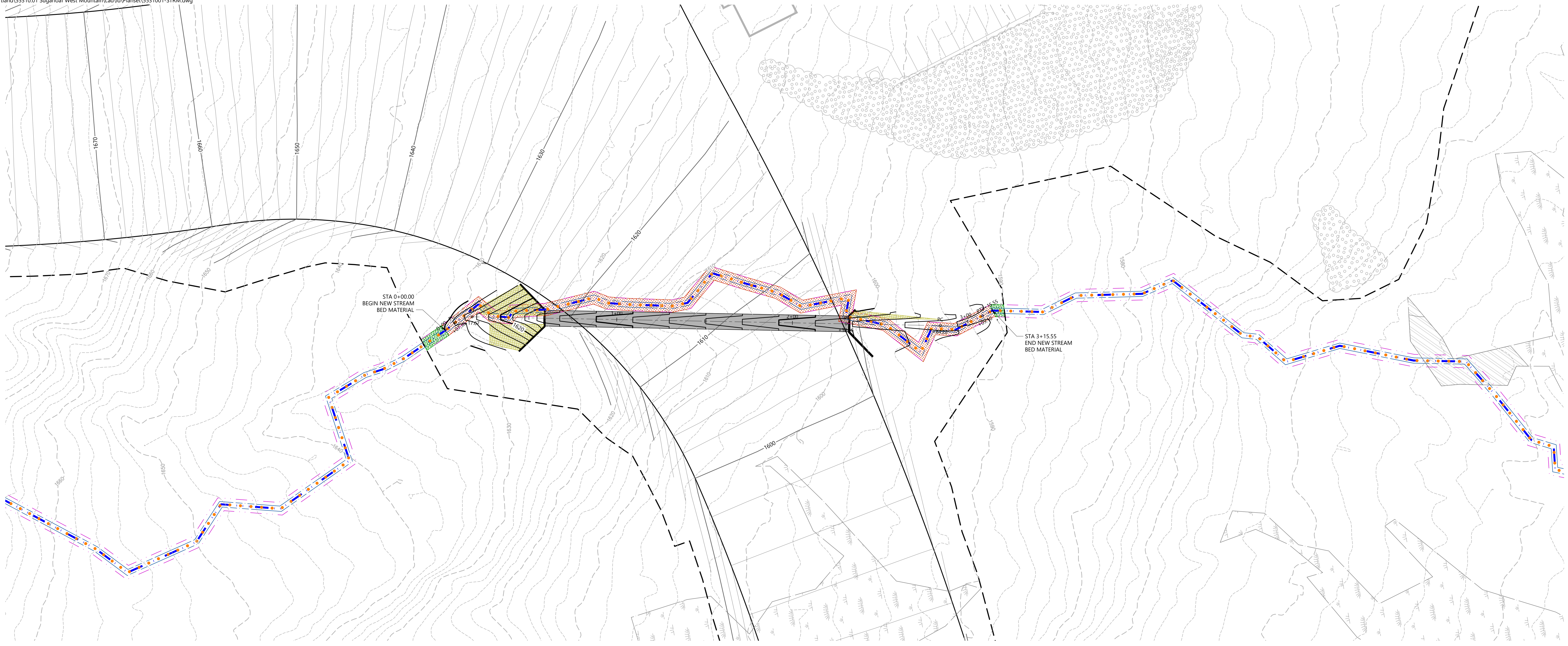
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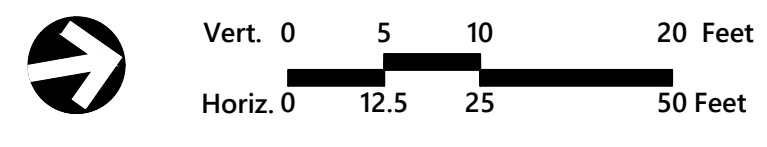
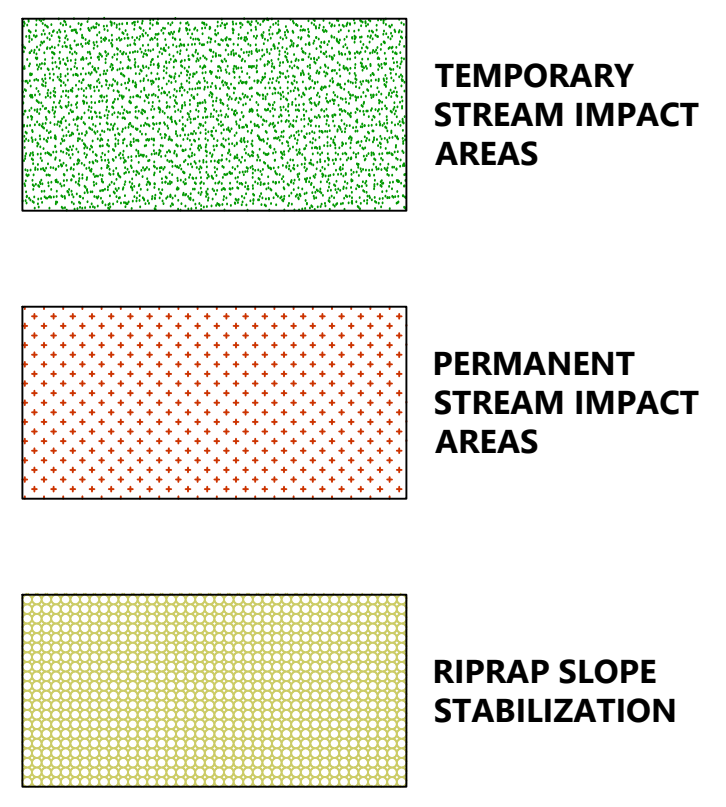


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STA 0+00.00
BEGIN NEW STREAM
BED MATERIAL

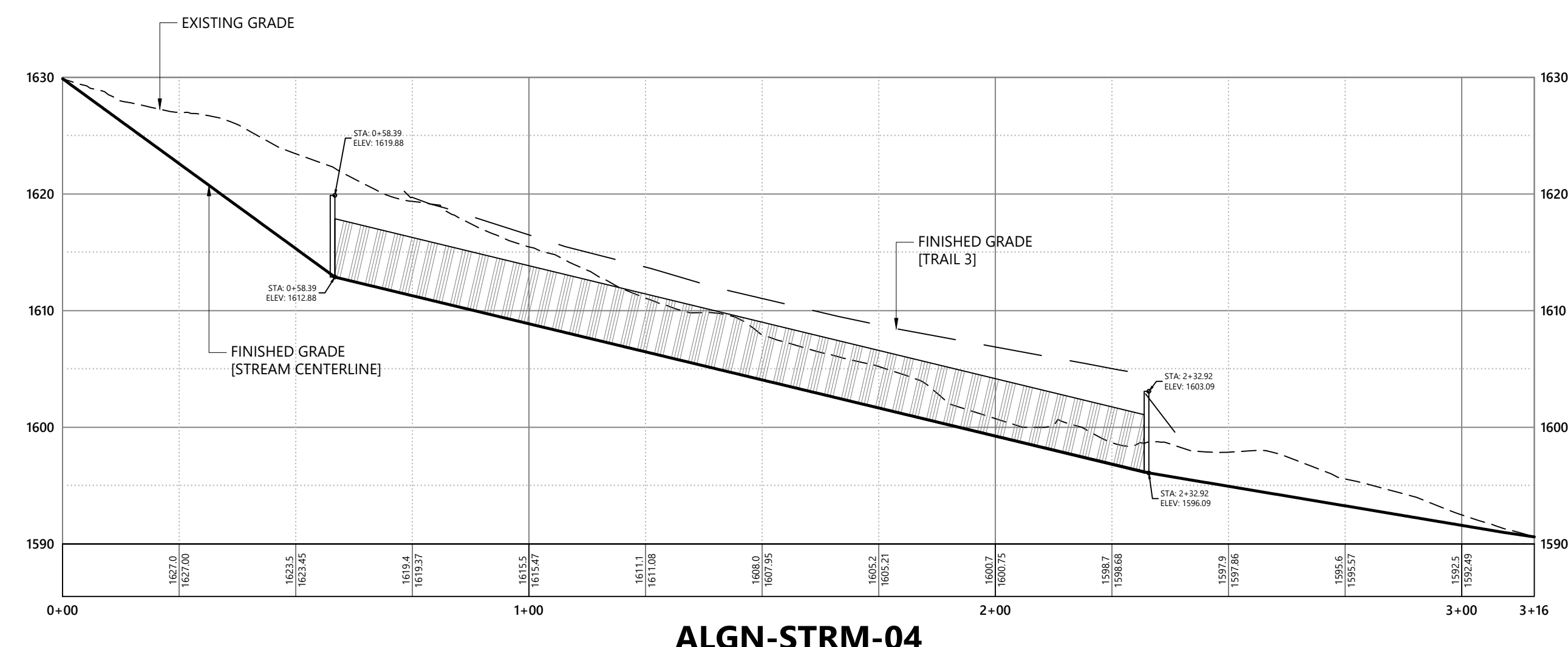
STA 3+15.55
END NEW STREAM
BED MATERIAL



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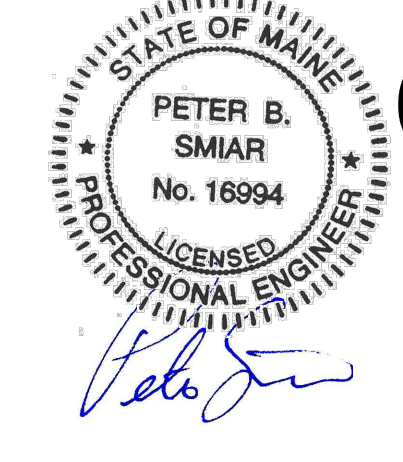
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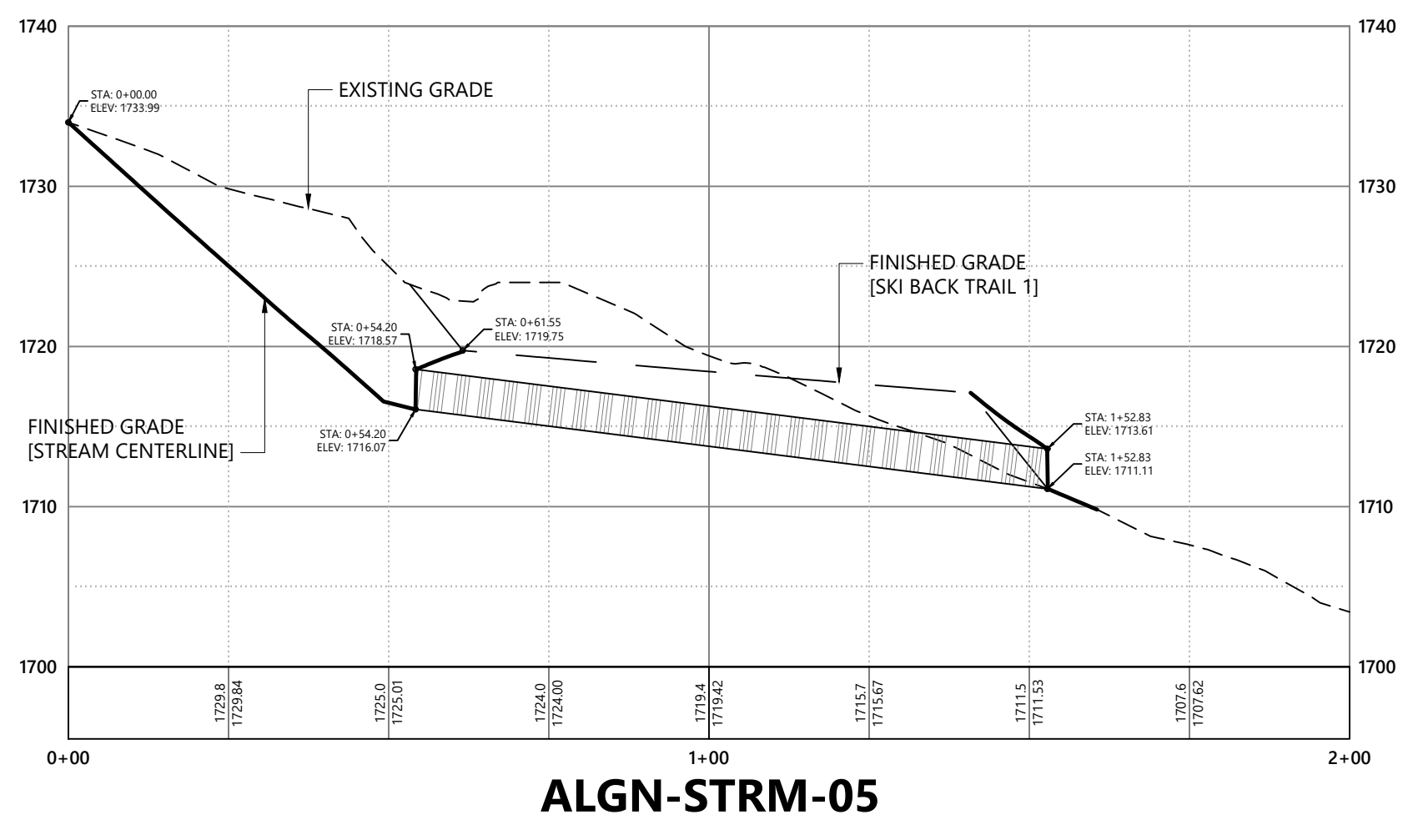
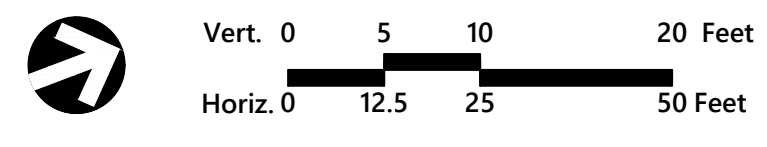
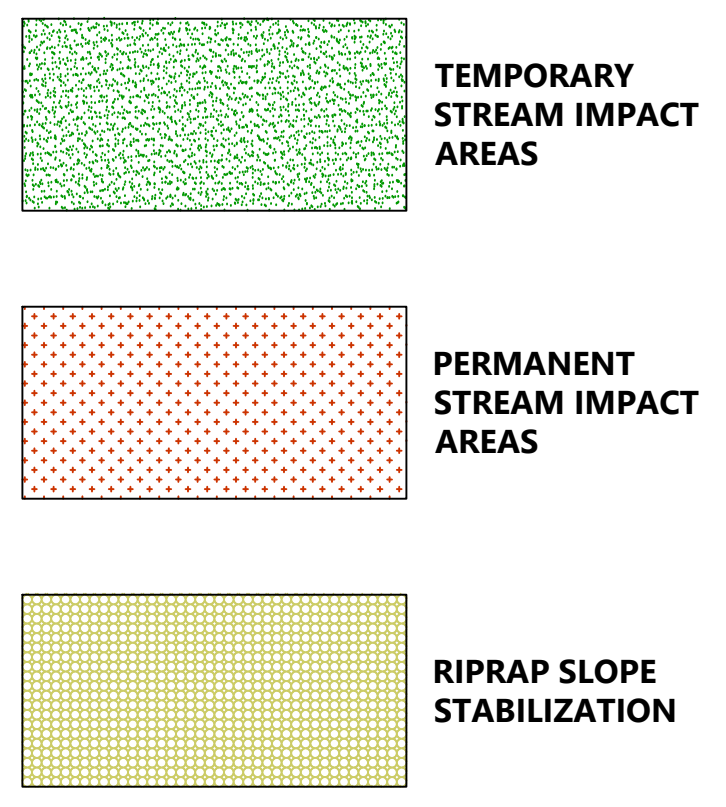
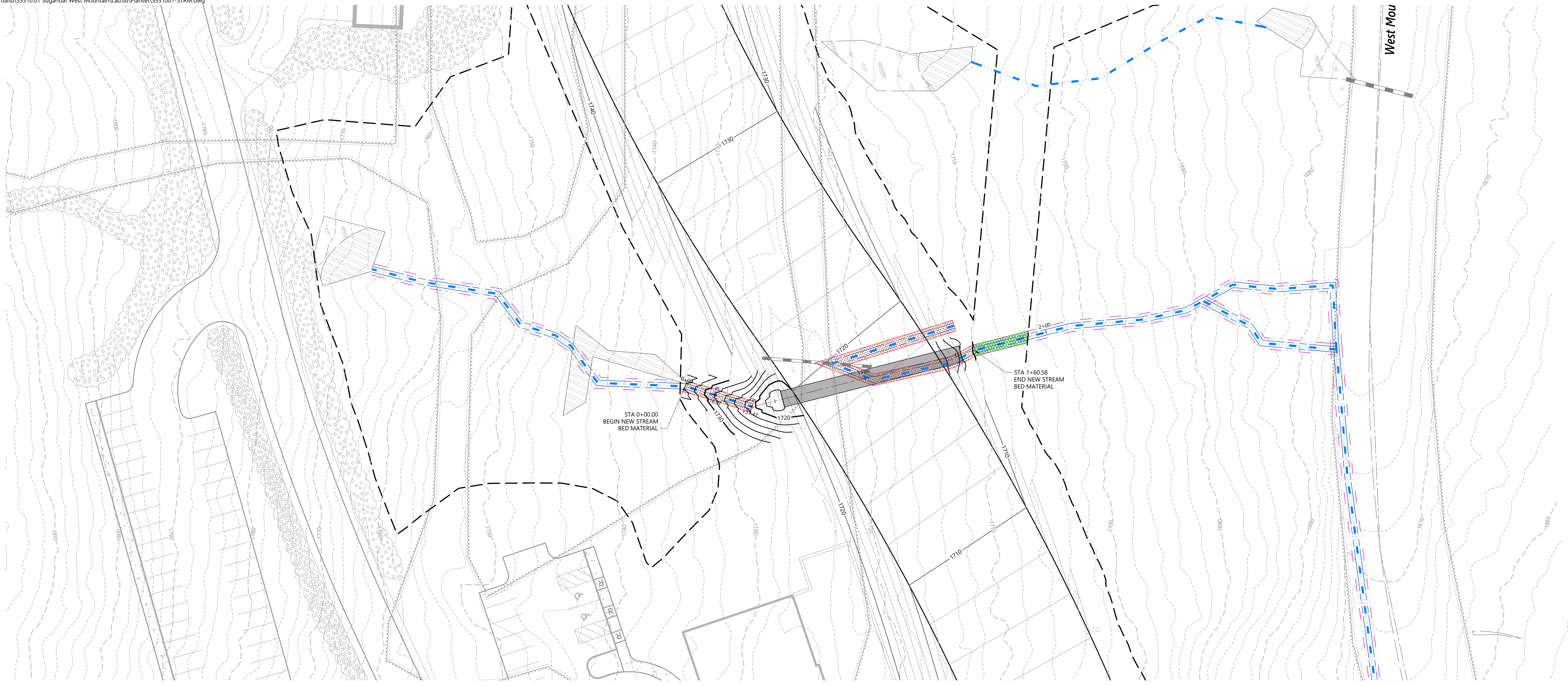
STREAM CROSSING 4
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	174.5± Feet
PIPE DIMENSIONS	9' SPAN X 5' RISE
UPSTREAM INVERT	1612.88± Feet
DOWNSTREAM INVERT	1596.09± Feet
SLOPE	0.10 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

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STREAM CROSSING 5

BOX

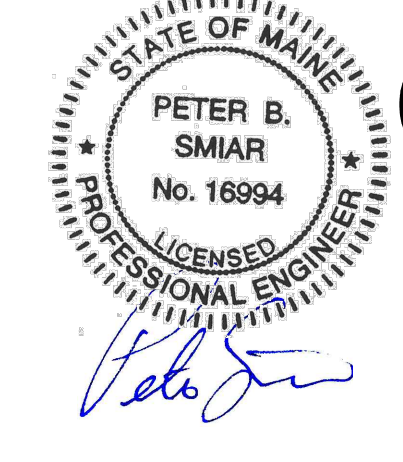
PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	98.5± Feet
PIPE DIMENSIONS	8.75' SPAN X 2.50' RISE
UPSTREAM INVERT	1716.07± Feet
DOWNSTREAM INVERT	1711.11± Feet
SLOPE	0.05 FT/FT
WINGWALLS	N/A
UPSTREAM ENDWALL DIMENSION	N/A
DOWNSTREAM ENDWALL DIMENSION	N/A

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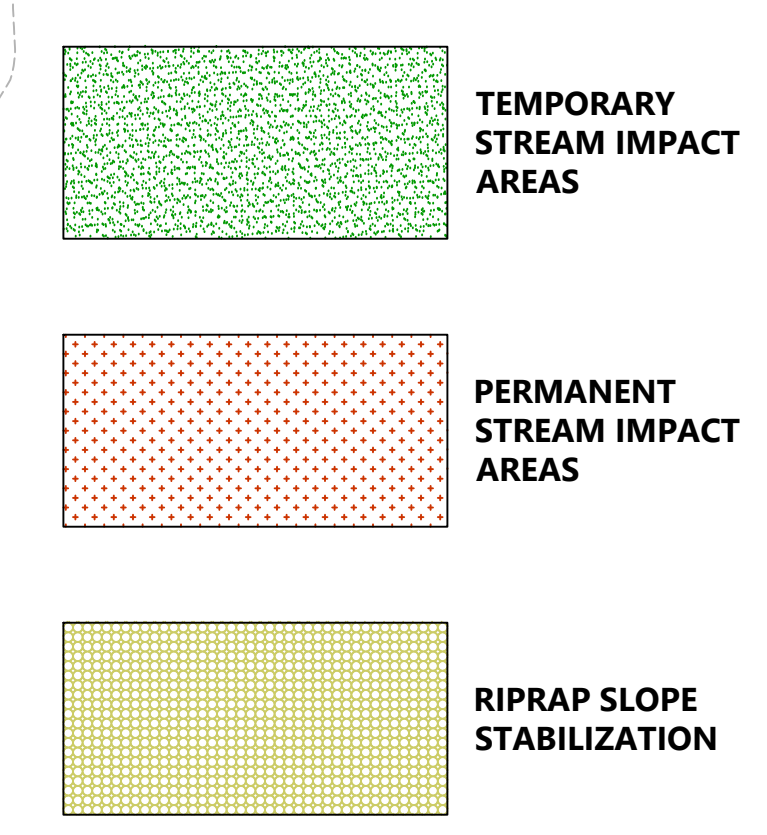
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STREAM CROSSING 6A

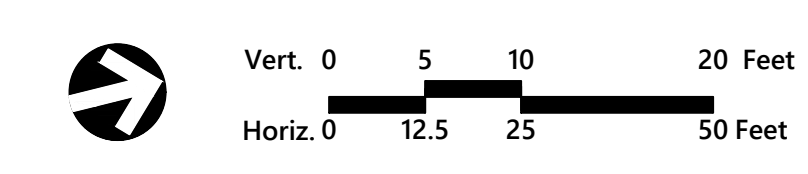
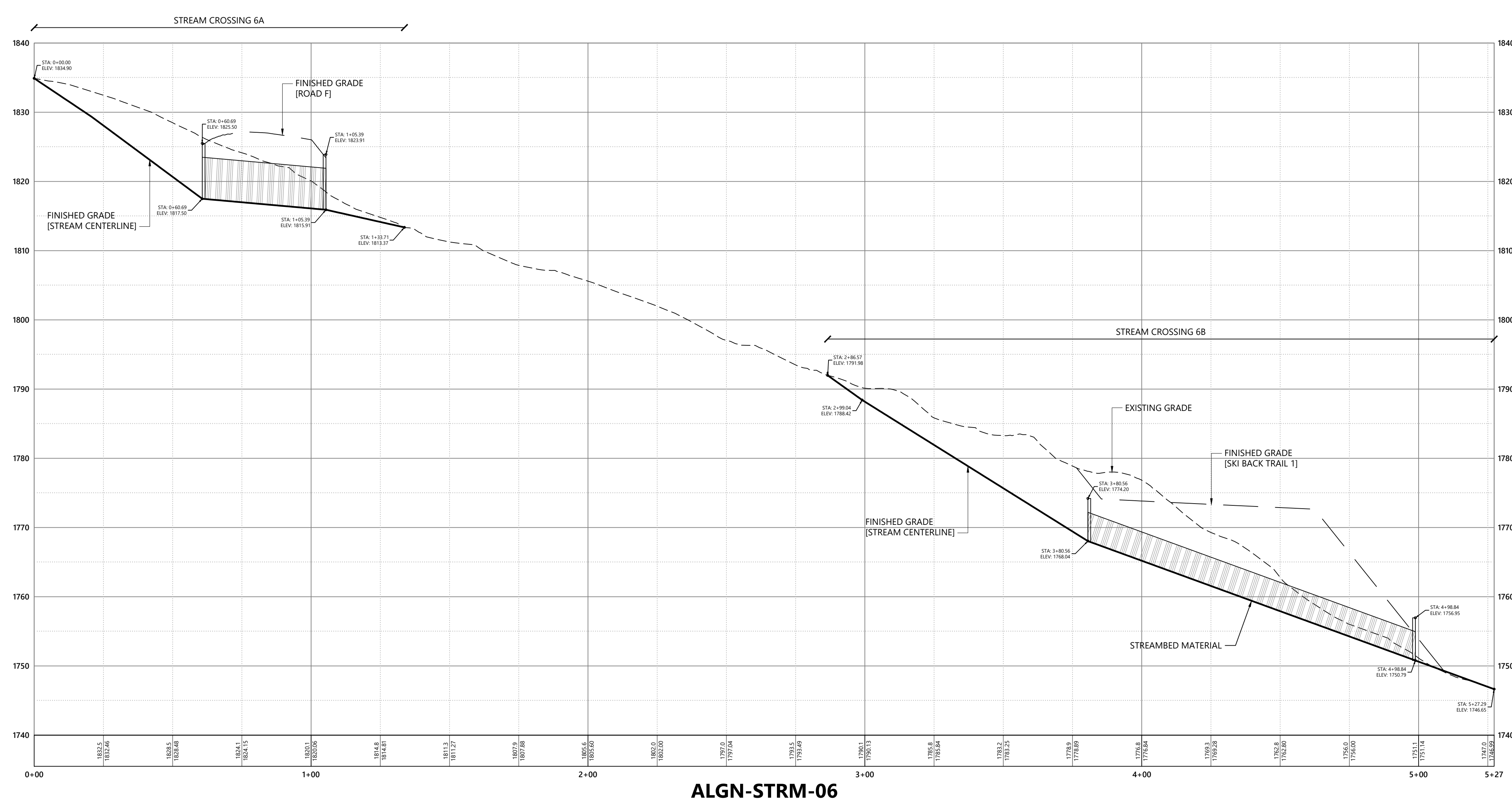
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	12
PIPE LENGTH	44.5± Feet
PIPE DIMENSIONS	6' SPAN X 3.2' RISE
UPSTREAM INVERT	1817.50± Feet
DOWNSTREAM INVERT	1815.91± Feet
SLOPE	0.04 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

STREAM CROSSING 6B

SINGLE RADIUS ARCH

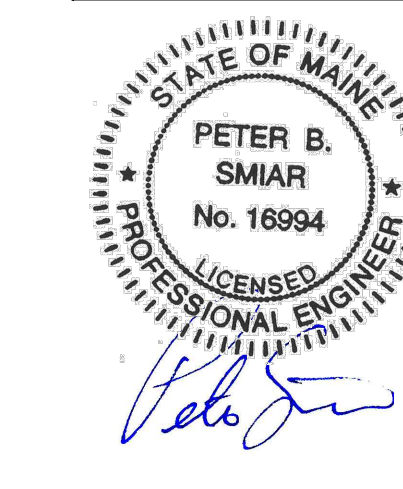
PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	118.5± Feet
PIPE DIMENSIONS	8' SPAN X 4.2' RISE
UPSTREAM INVERT	1768.04± Feet
DOWNSTREAM INVERT	1750.79± Feet
SLOPE	0.15 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



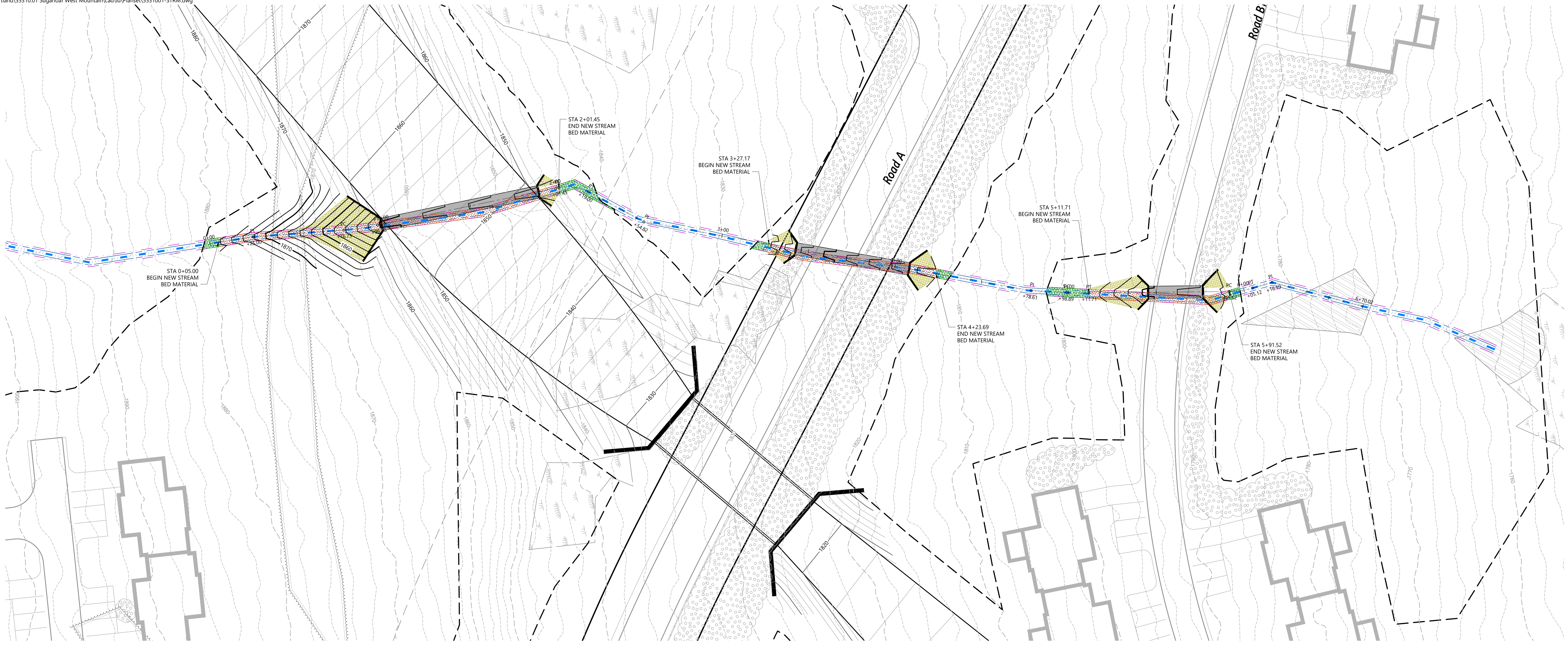
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STREAM CROSSING 7A

SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	92.5± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1849.85± Feet
DOWNSTREAM INVERT	1842.92± Feet
SLOPE	0.07 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

STREAM CROSSING 7B

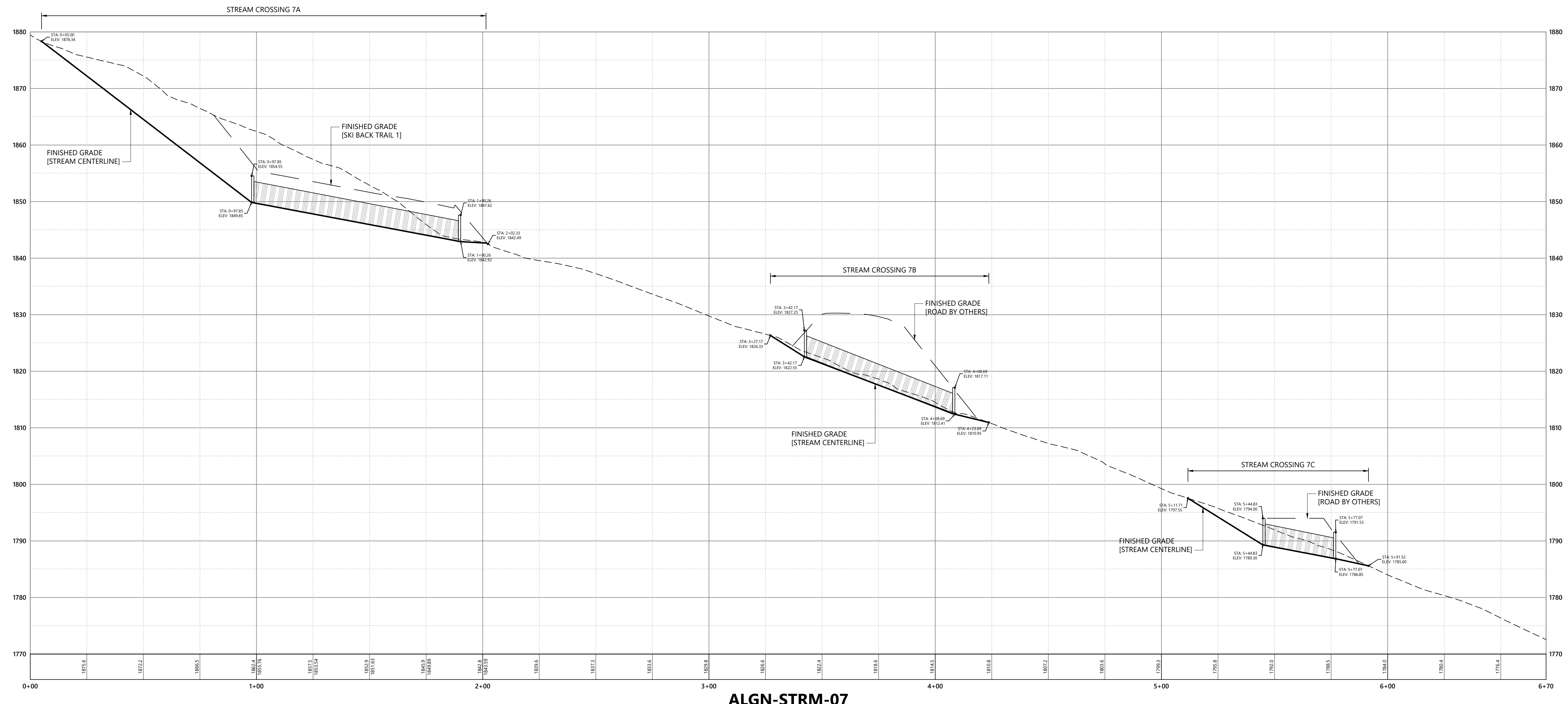
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	66.5± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1823.29± Feet
DOWNSTREAM INVERT	1813.86± Feet
SLOPE	0.15 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

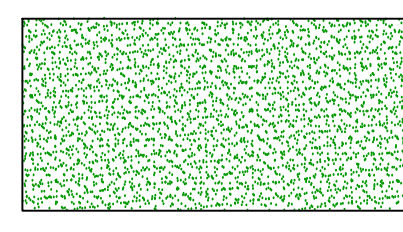
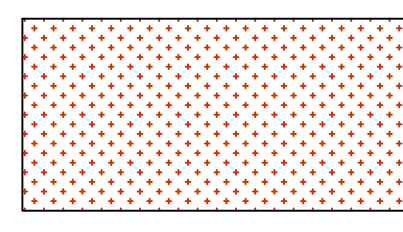
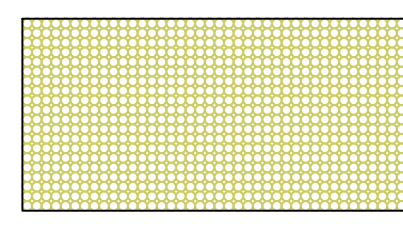
STREAM CROSSING 7C

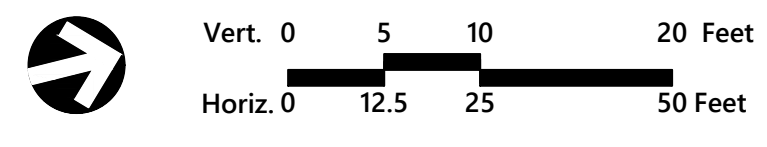
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	32.0± Feet
PIPE DIMENSIONS	7' SPAN X 3.7' RISE
UPSTREAM INVERT	1789.30± Feet
DOWNSTREAM INVERT	1786.85± Feet
SLOPE	0.08 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



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-  TEMPORARY STREAM IMPACT AREAS
-  PERMANENT STREAM IMPACT AREAS
-  RIPRAP SLOPE STABILIZATION

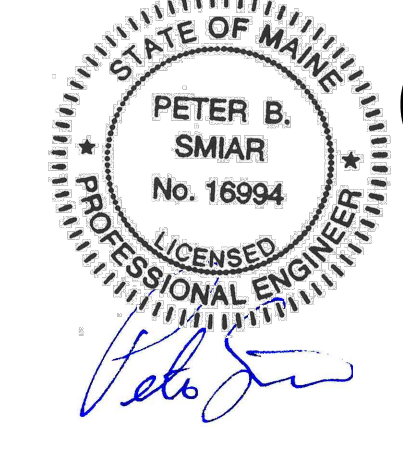


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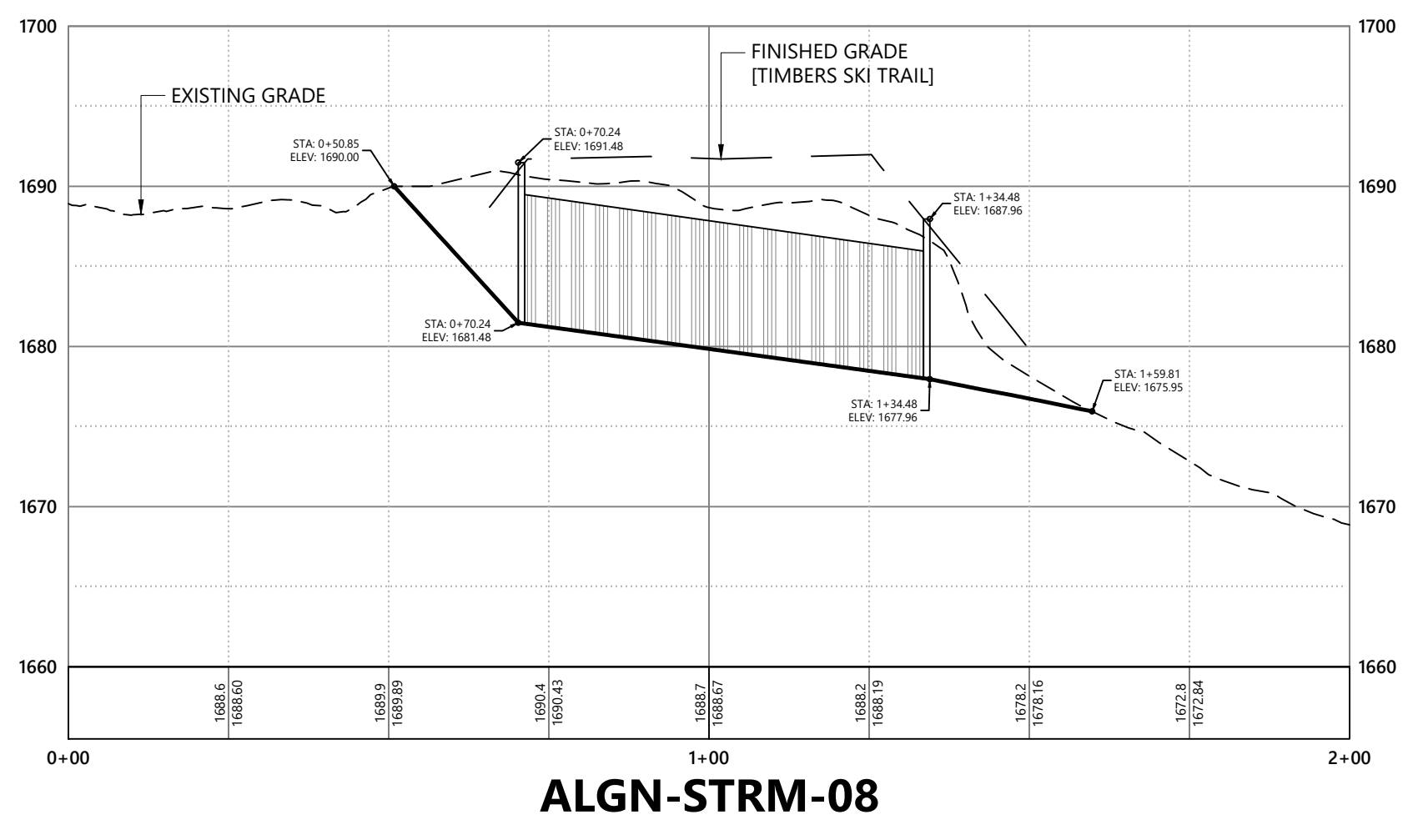
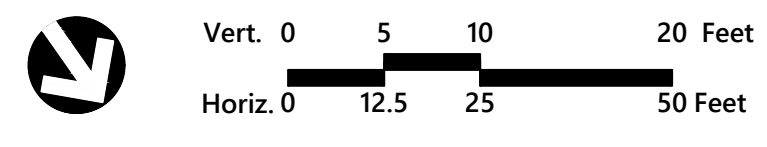
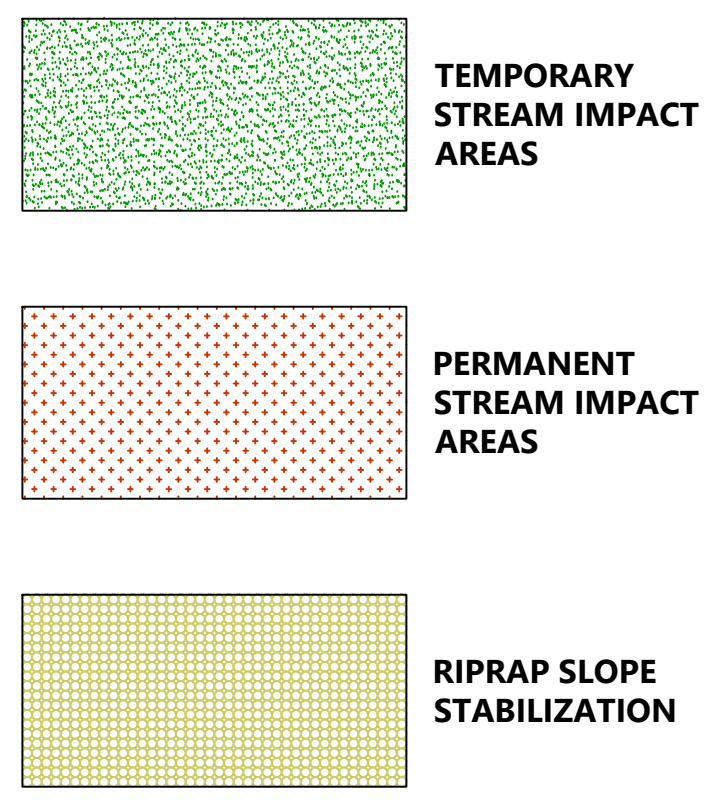
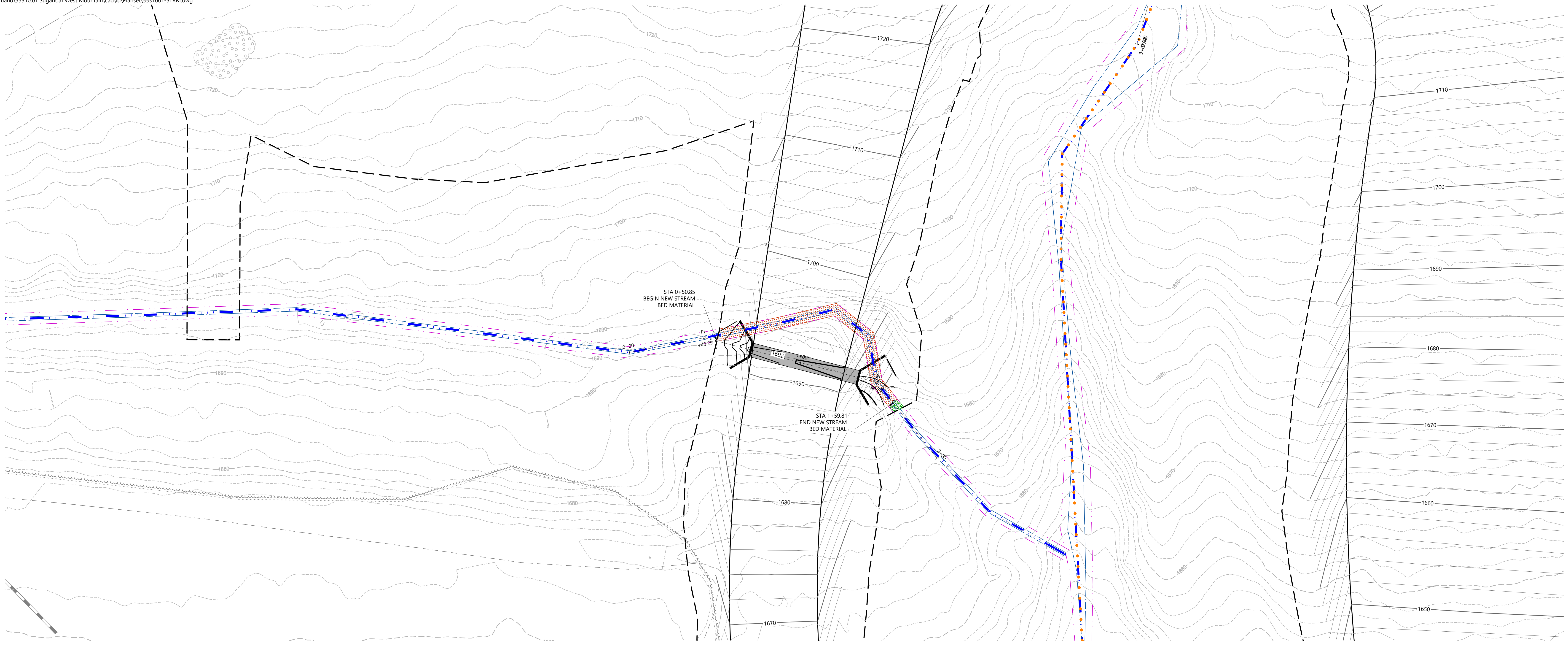
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STREAM CROSSING 8
SINGLE RADIUS ARCH

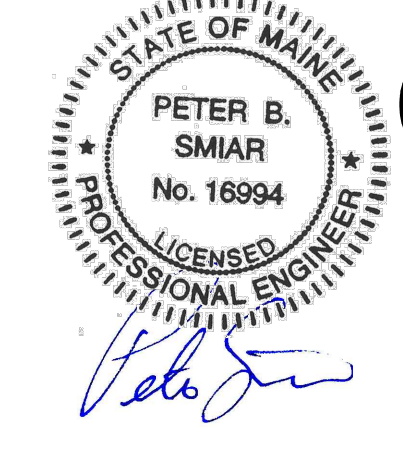
PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	64.0± Feet
PIPE DIMENSIONS	8' SPAN X 4.2' RISE
UPSTREAM INVERT	1681.48± Feet
DOWNSTREAM INVERT	1677.96± Feet
SLOPE	0.06 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

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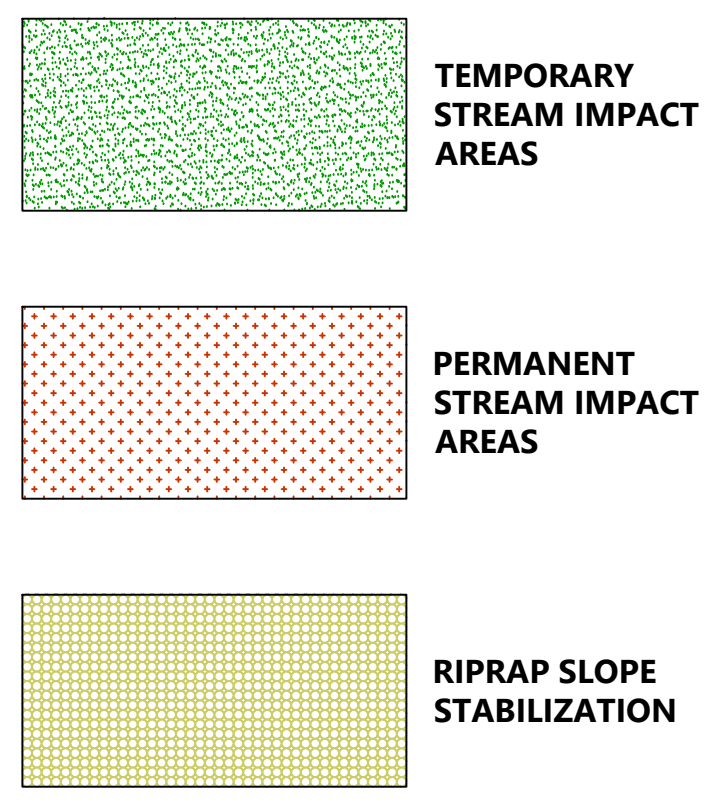
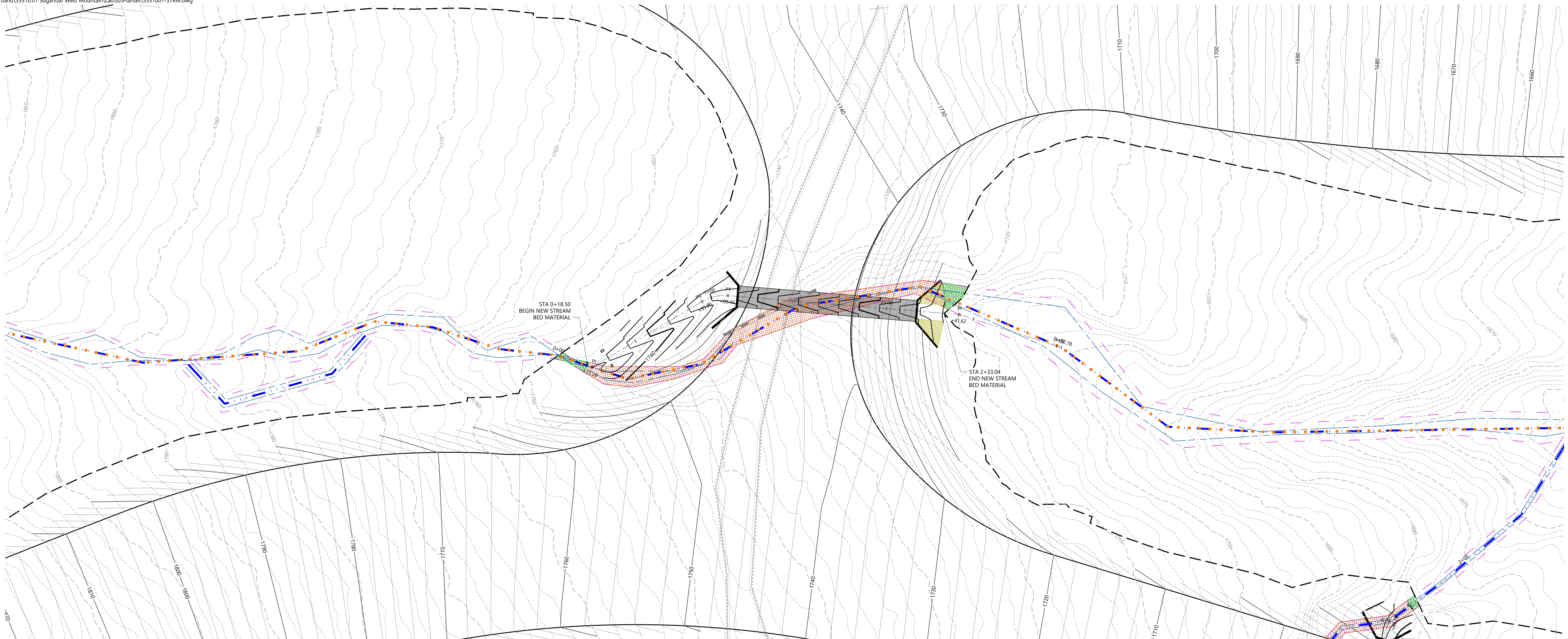
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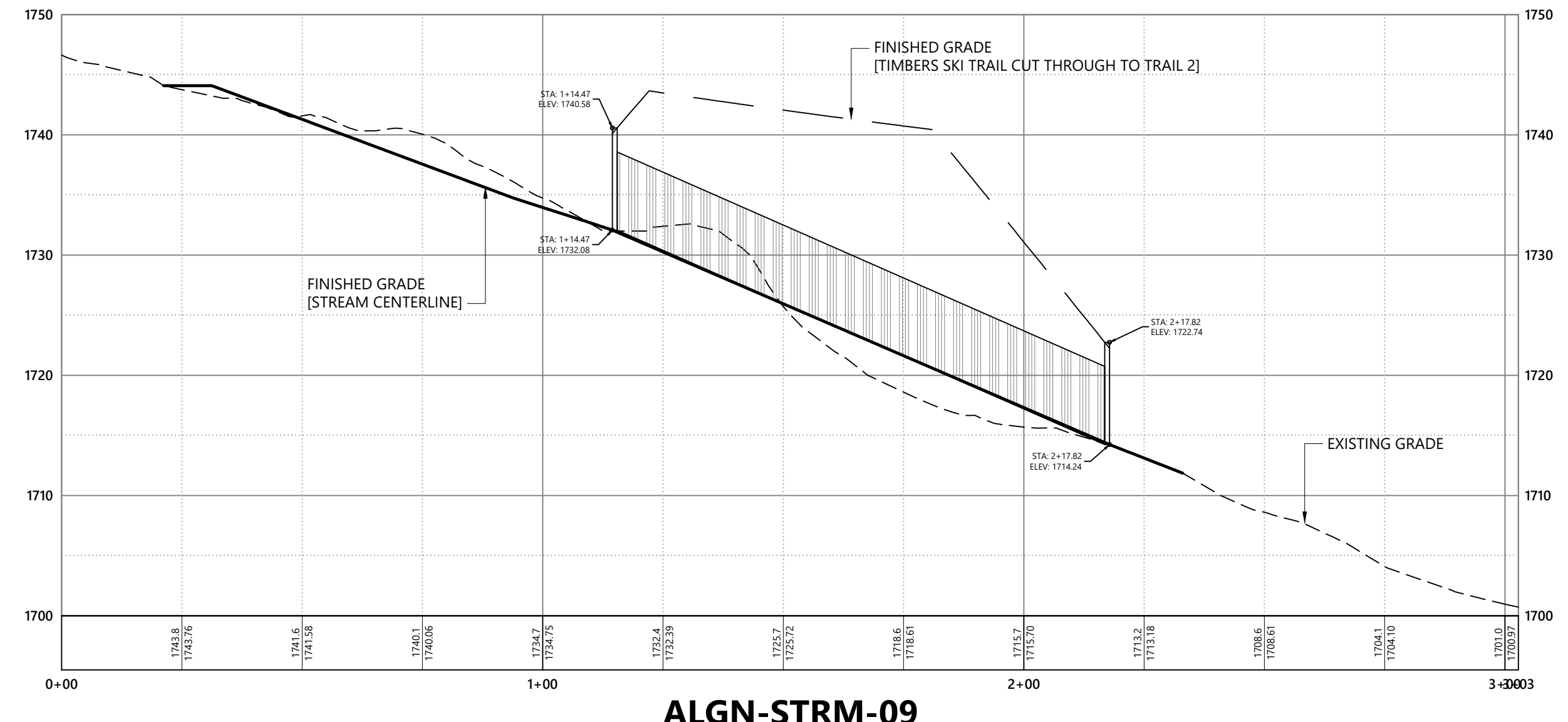
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PETER B. SMIAI
No. 16994
LICENSED PROFESSIONAL ENGINEER

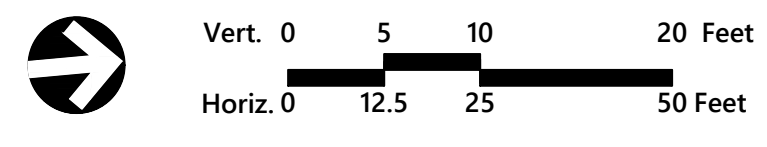
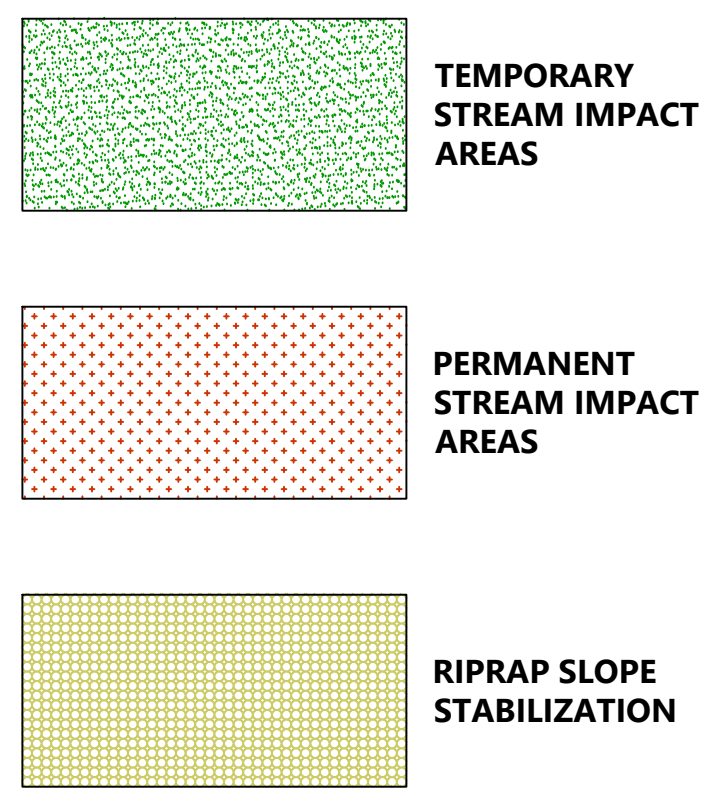
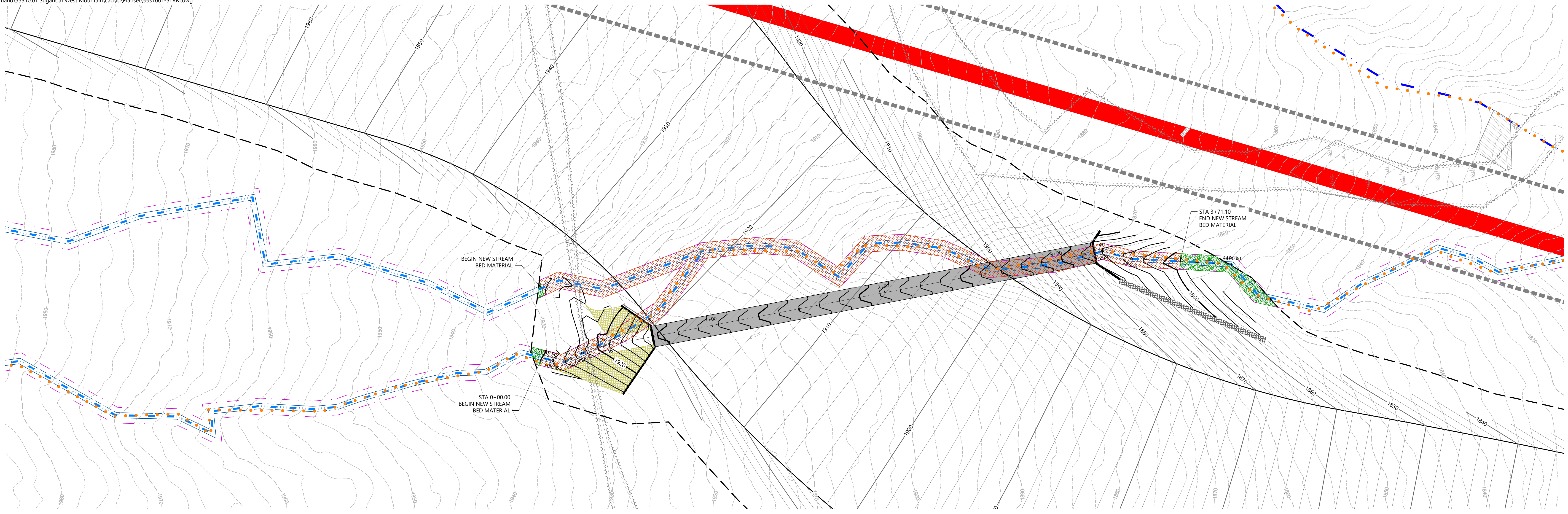
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STREAM CROSSING 9
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	103.0± Feet
PIPE DIMENSIONS	12' SPAN X 6.5' RISE
UPSTREAM INVERT	1732.08± Feet
DOWNSTREAM INVERT	1714.24± Feet
SLOPE	0.18 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

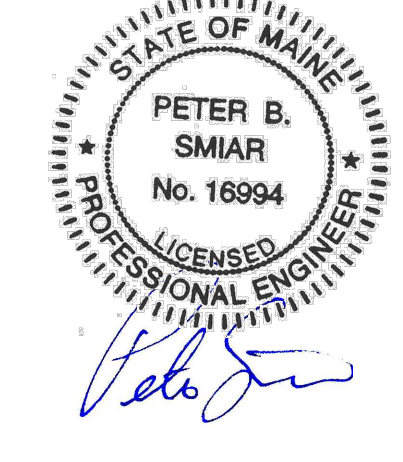


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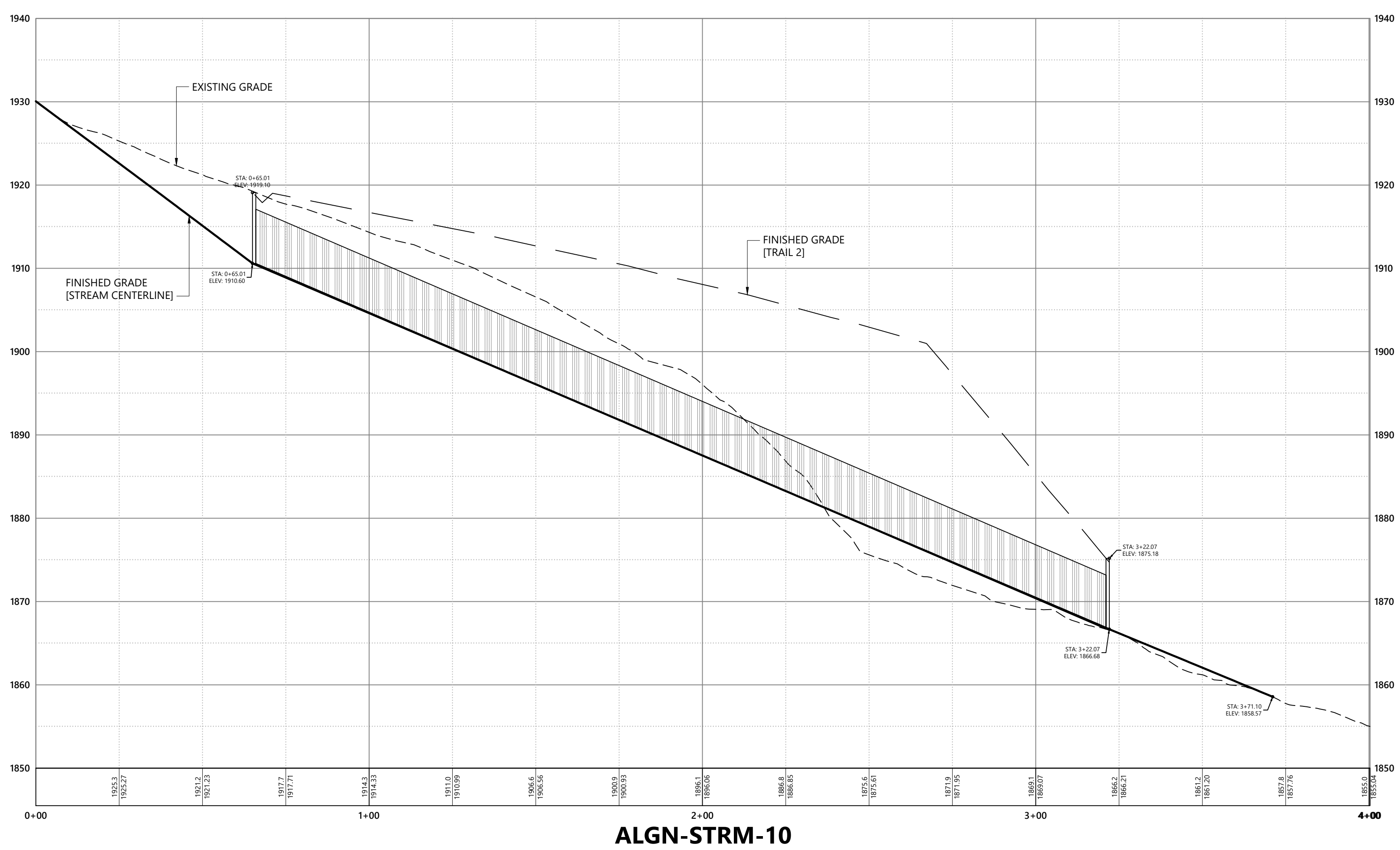
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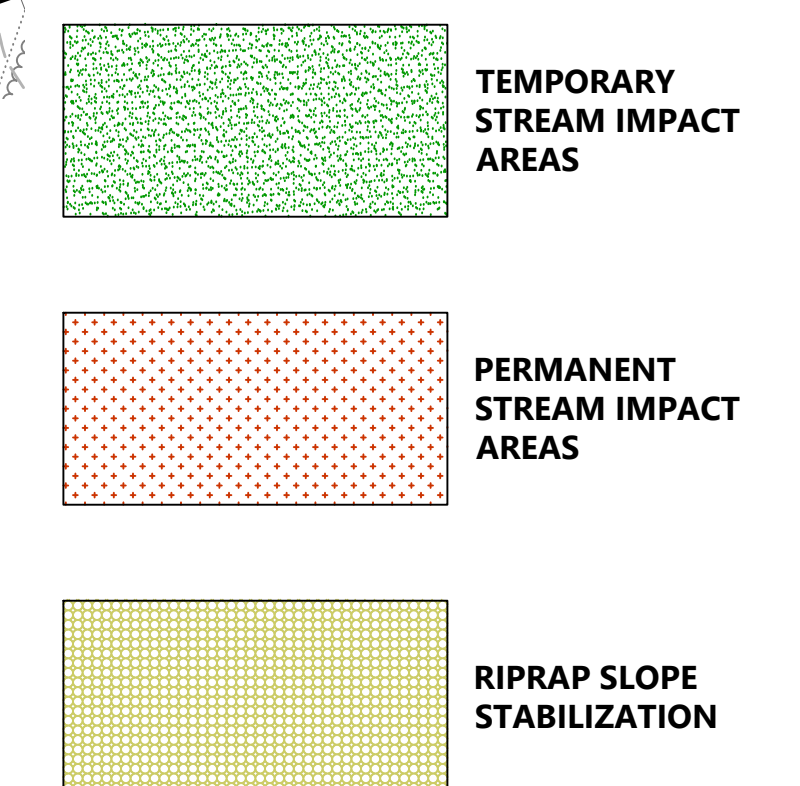
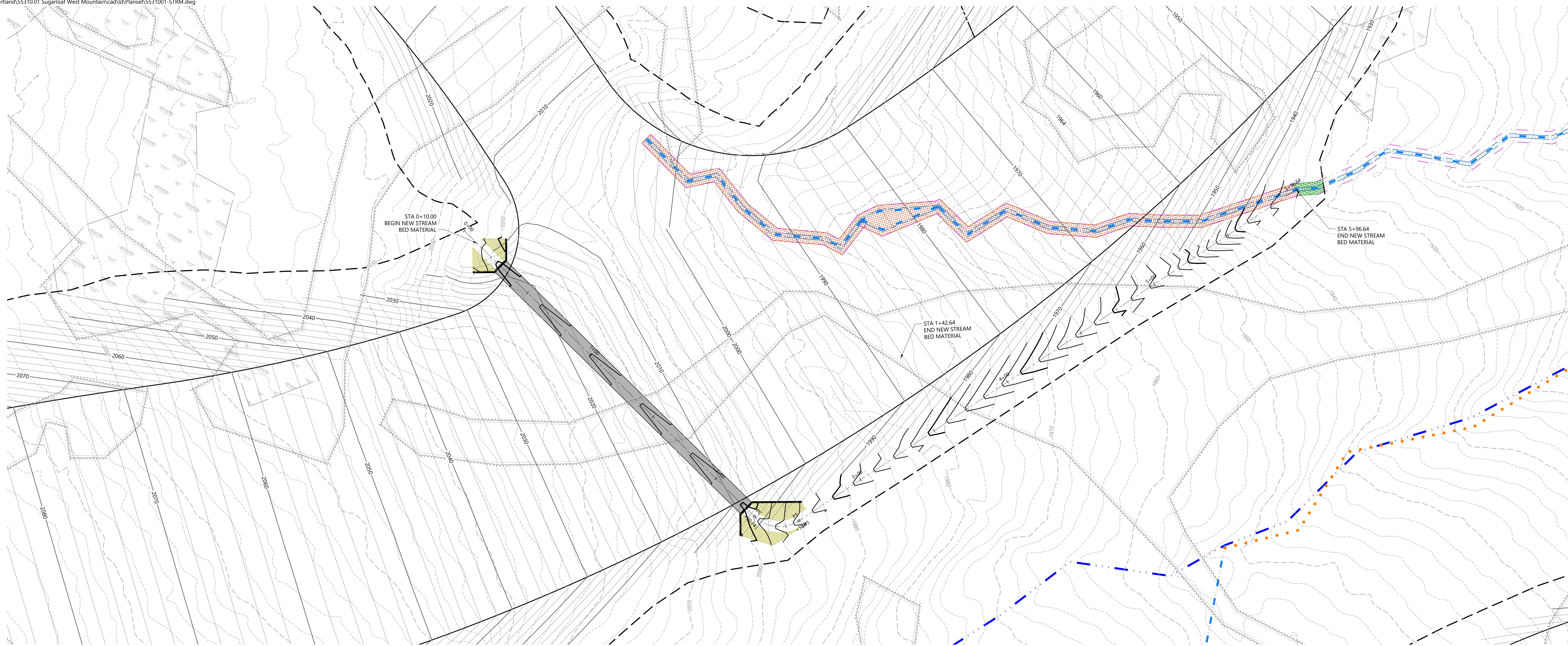
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**STREAM CROSSING 10
SINGLE RADIUS ARCH**

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	257.0± Feet
PIPE DIMENSIONS	12' SPAN X 6.5' RISE
UPSTREAM INVERT	1910.60± Feet
DOWNSTREAM INVERT	1866.68± Feet
SLOPE	0.17 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



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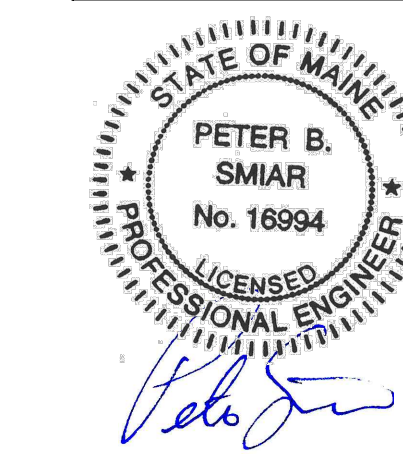


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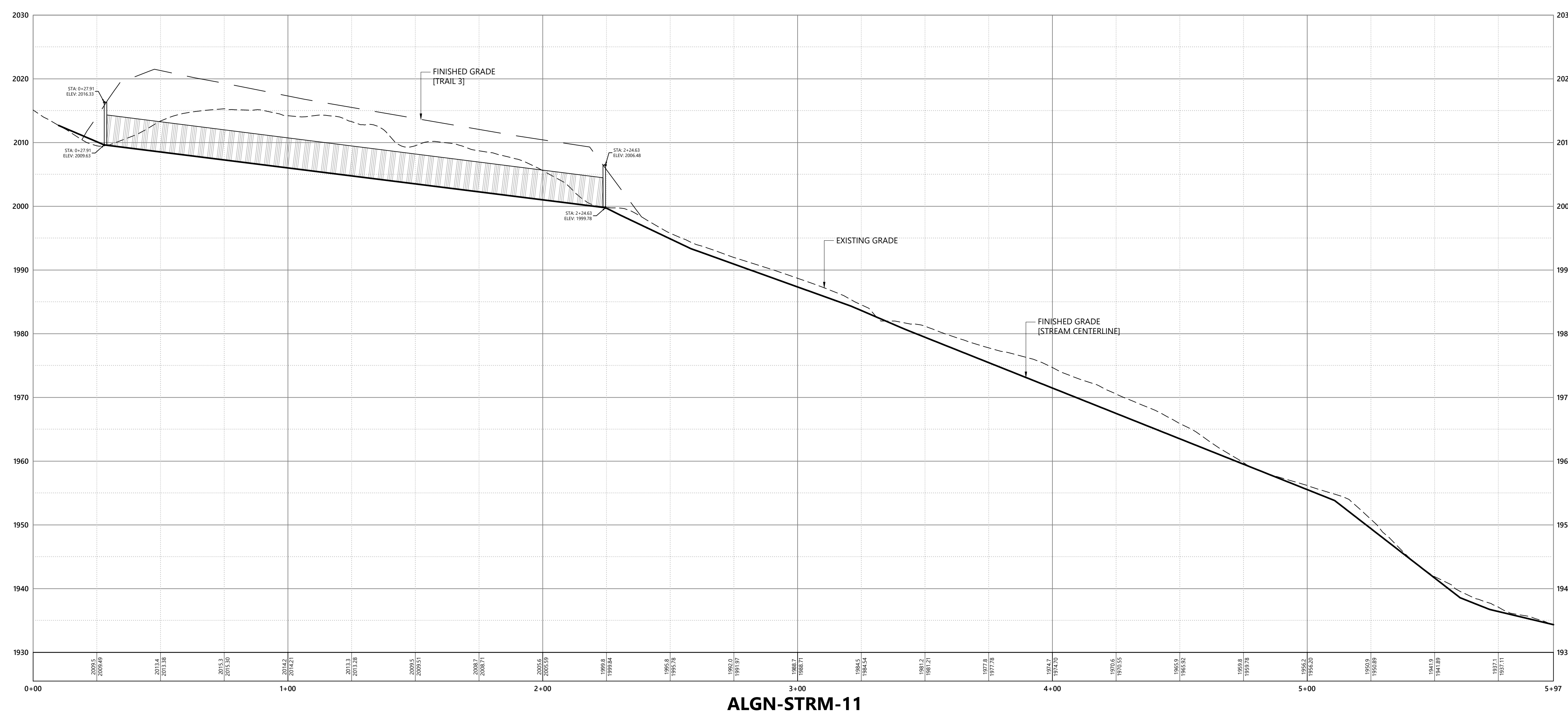
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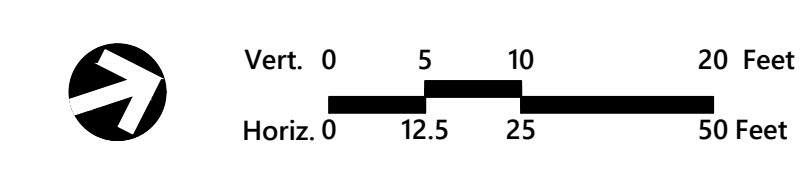
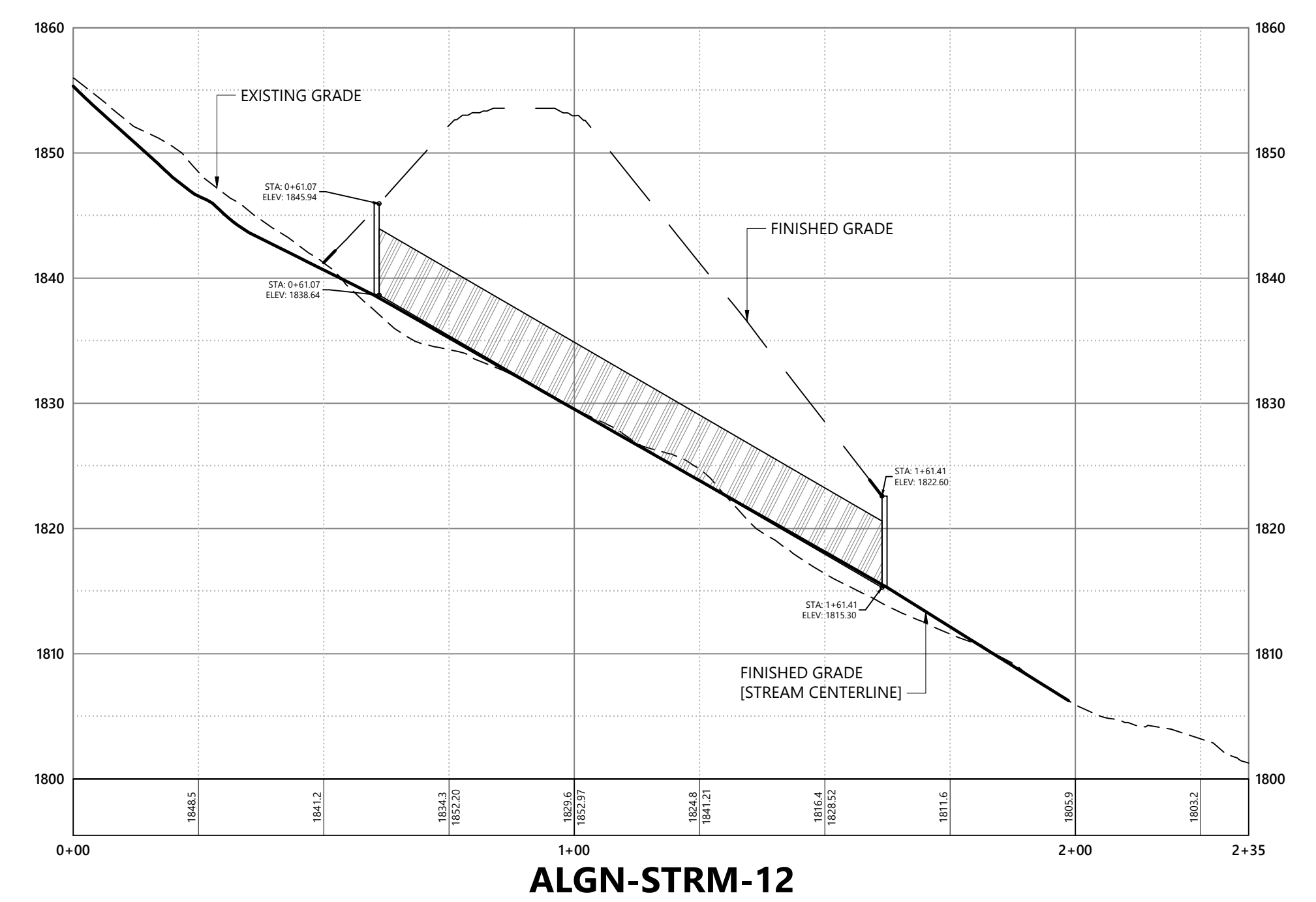
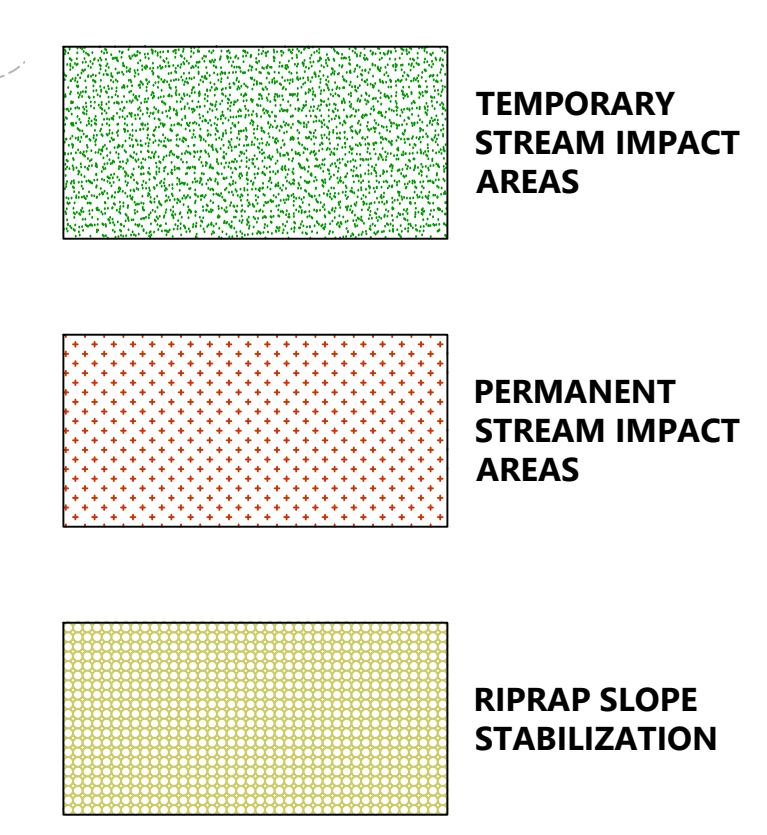
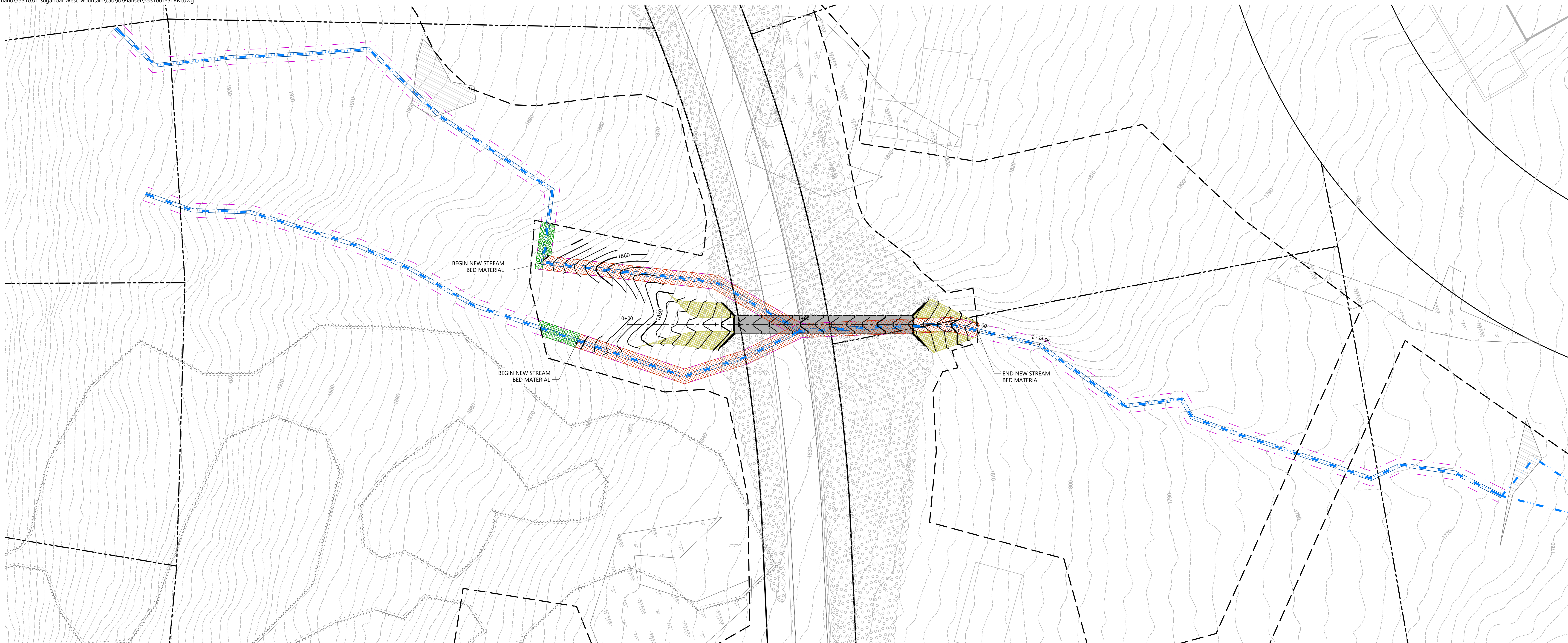
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STREAM CROSSING 11
SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	197.0± Feet
PIPE DIMENSIONS	9' SPAN X 4.7' RISE
UPSTREAM INVERT	2009.63± Feet
DOWNSTREAM INVERT	1999.78± Feet
SLOPE	0.05 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD



ALGN-STRM-11

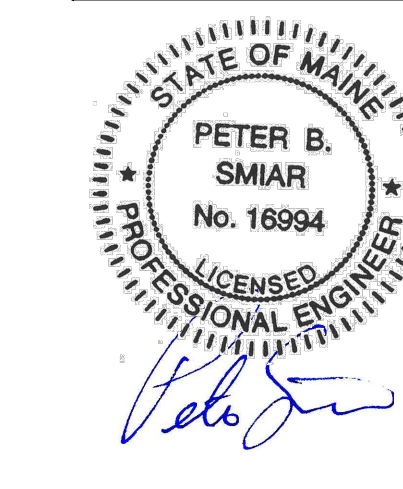


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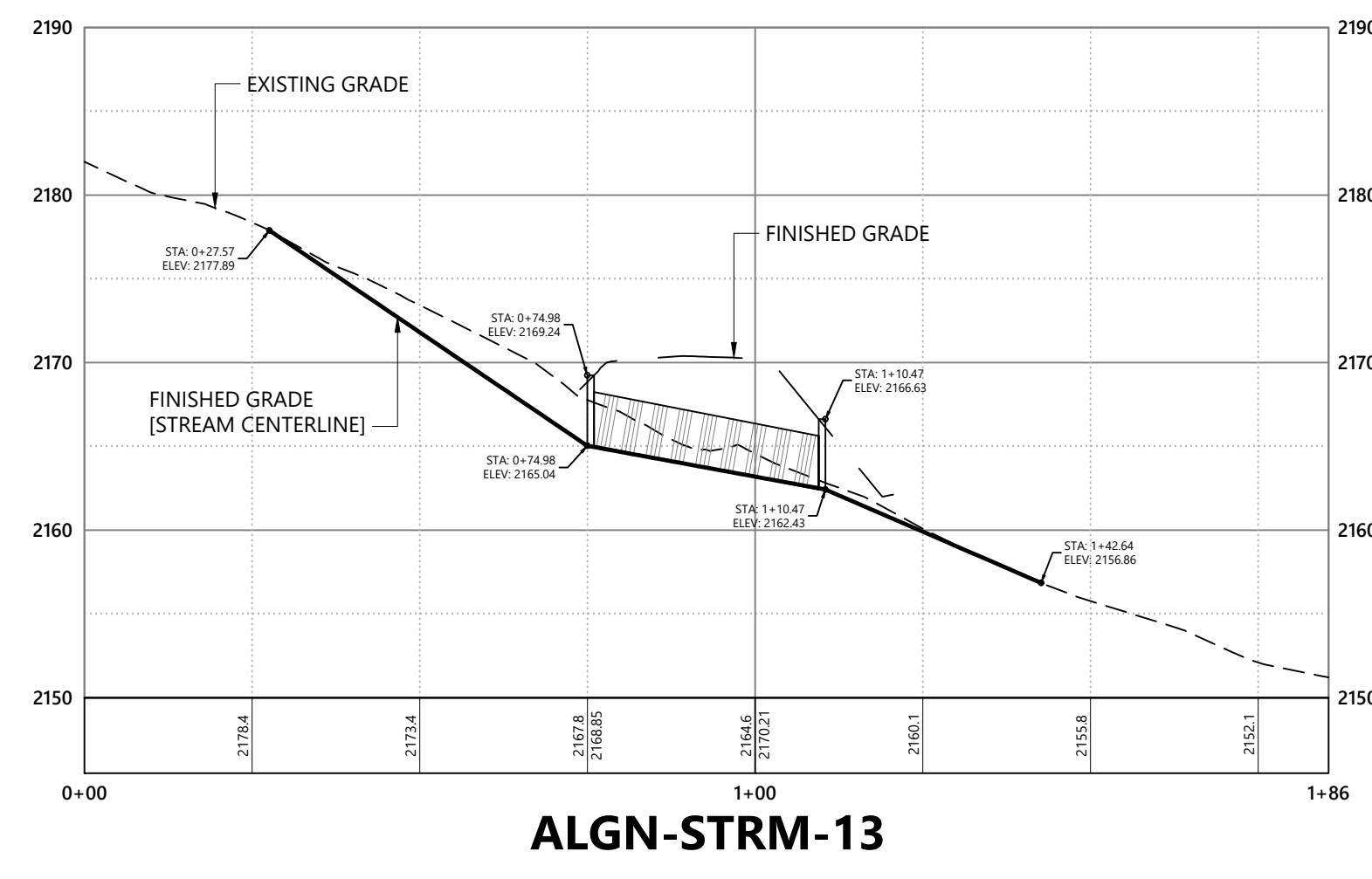
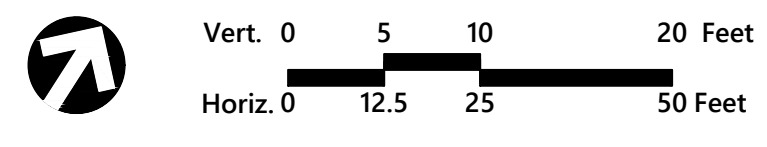
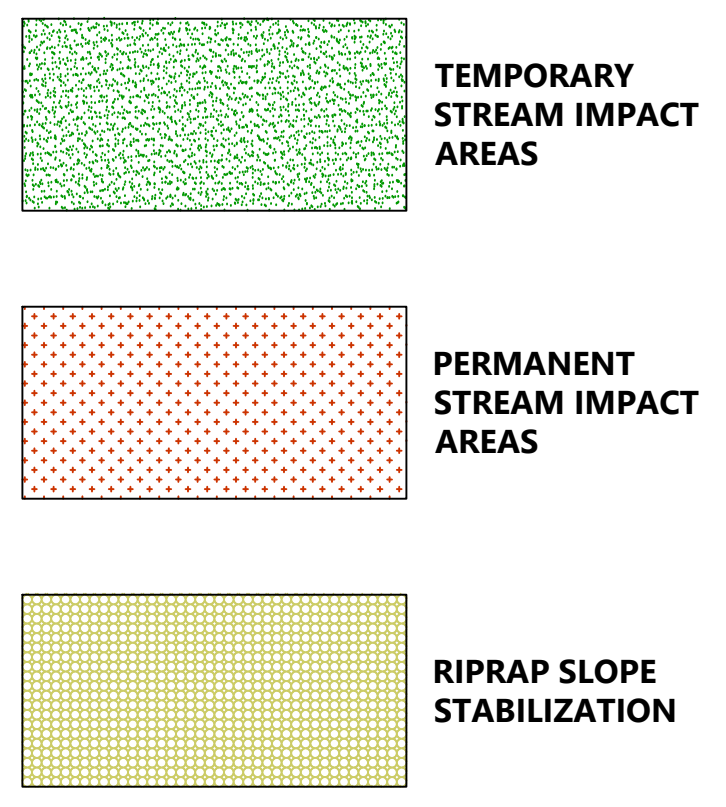
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STREAM CROSSING 12

SINGLE RADIUS ARCH

PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	100.0± Feet
PIPE DIMENSIONS	10' SPAN X 5.3' RISE
UPSTREAM INVERT	1838.64± Feet
DOWNSREAM INVERT	1815.30± Feet
SLOPE	0.23 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSREAM ENDWALL DIMENSION	TBD



ALGN-STRM-13

STREAM CROSSING 13
SINGLE RADIUS ARCH

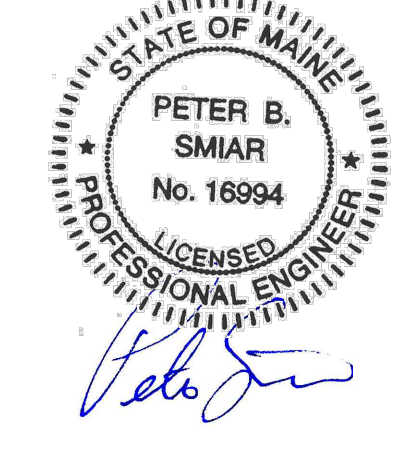
PIPE MATERIAL	TBD
PIPE GAGE	TBD
PIPE LENGTH	35.5± Feet
PIPE DIMENSIONS	6' SPAN X 3.2' RISE
UPSTREAM INVERT	2165.04± Feet
DOWNSTREAM INVERT	2162.43± Feet
SLOPE	0.08 FT/FT
WINGWALLS	TBD
UPSTREAM ENDWALL DIMENSION	TBD
DOWNSTREAM ENDWALL DIMENSION	TBD

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Issued for: **Review** Date: **April 29, 2022**

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Drawing Title: **Stream Crossing Plan and Profile**



PETER B. SMIAR
No. 16894
LICENSED PROFESSIONAL ENGINEER

CG-2.13

Sheet 33 of 63
Project Number 55310.01

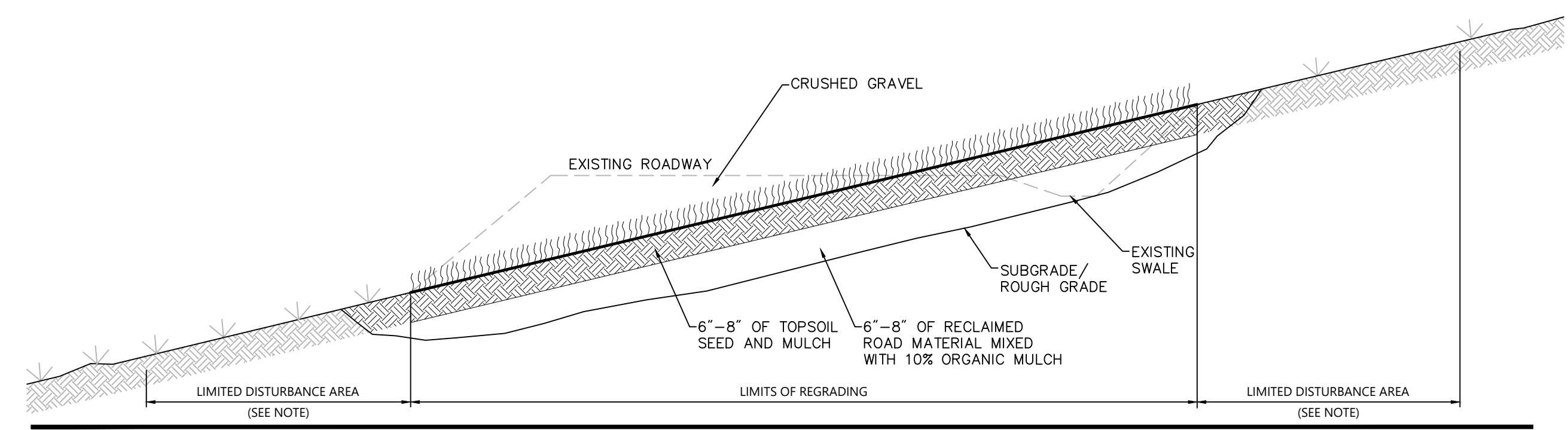
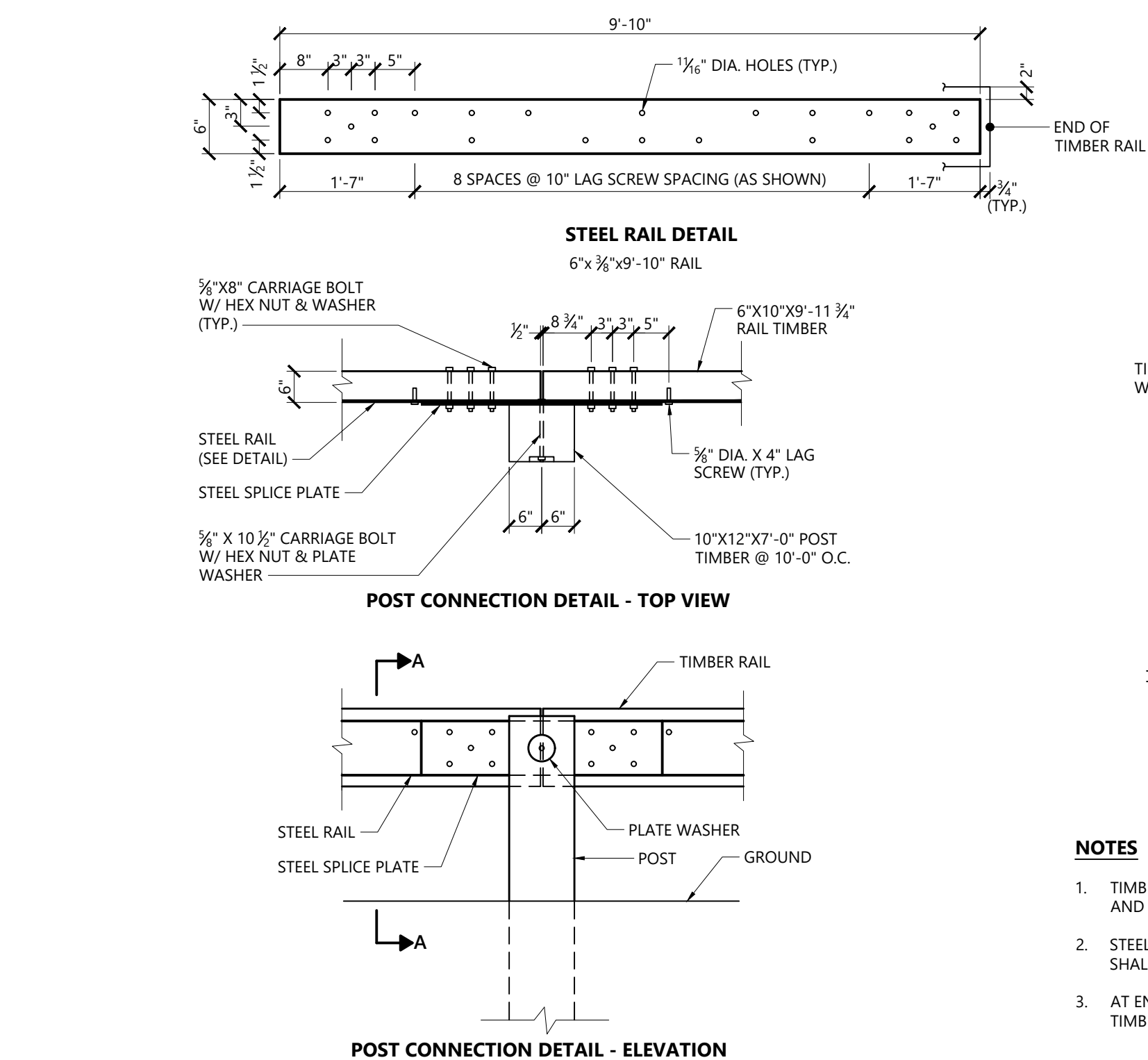
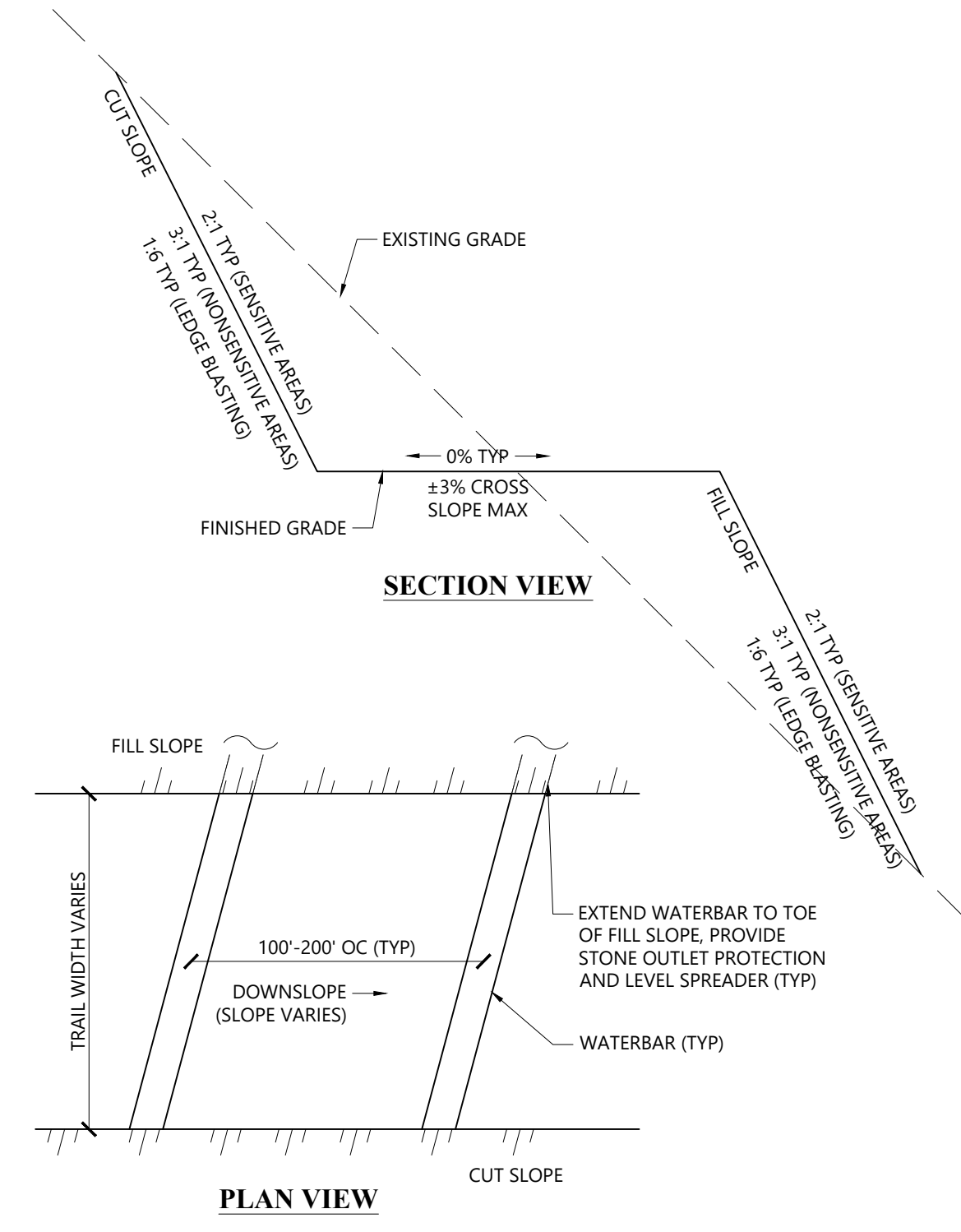


TABLE 1

COMMON NAME	SCIENTIFIC NAME
RED FESCUE	FESTUCA RUBRA
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM
SWITCH GRASS	PANICUM VIRGATUM
ANNUAL RYE	ELYMUS VIRGINICUS
BIG BLUESTEM	ANDROPOGON GERARDII
INDIAN GRASS	SORGHASTRUM NUTANS
DEER TONGUE	PANICUM CLAUDEI-STIMM
PARTRIDGE PEA	CHAMAECRISTA FASCICULATA
SOFT RUSH	JUNCUS EFFUSUS
PAITH RUSH	JUNCUS TENNIS
ROUGH BENTGRASS	AGROSTIS SCABRA

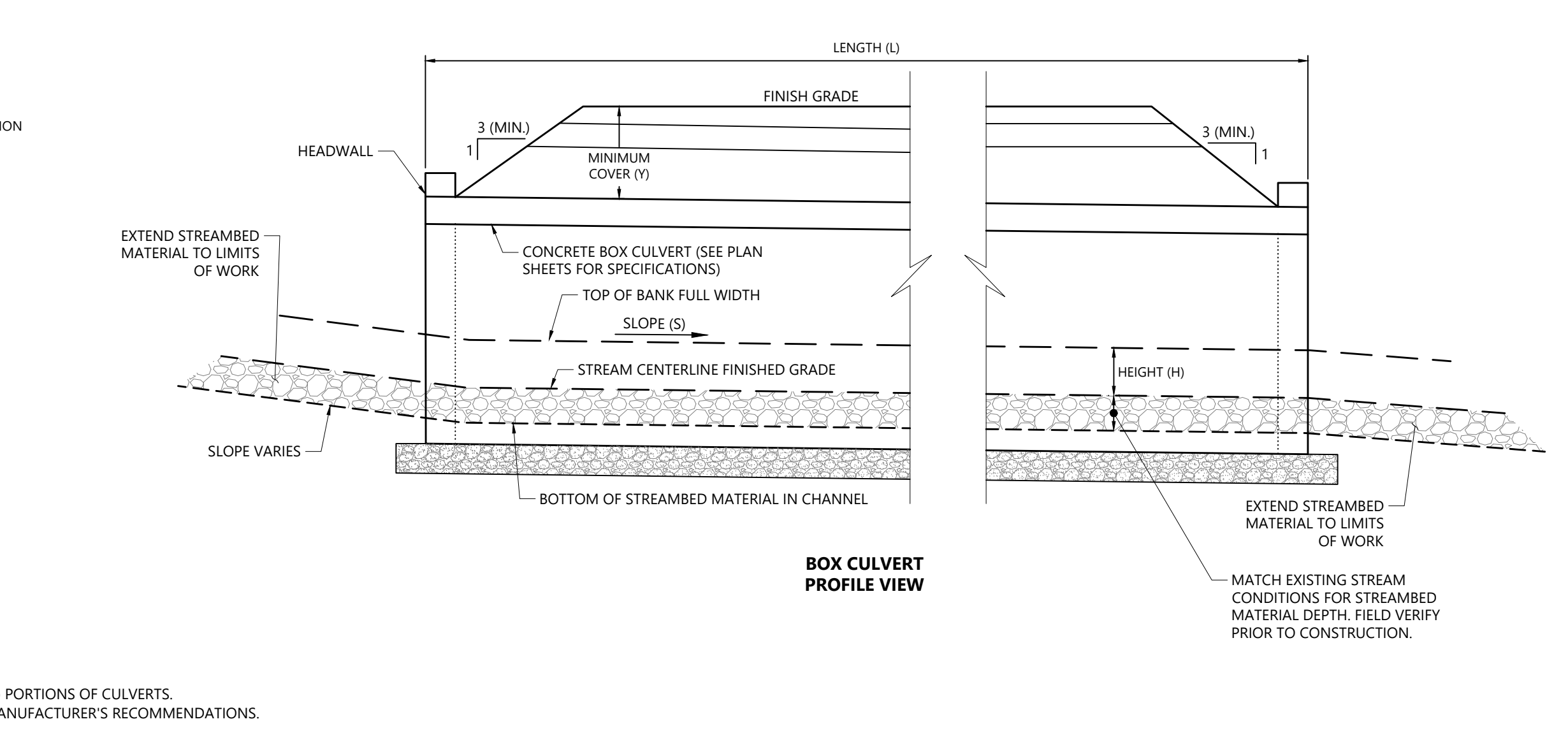
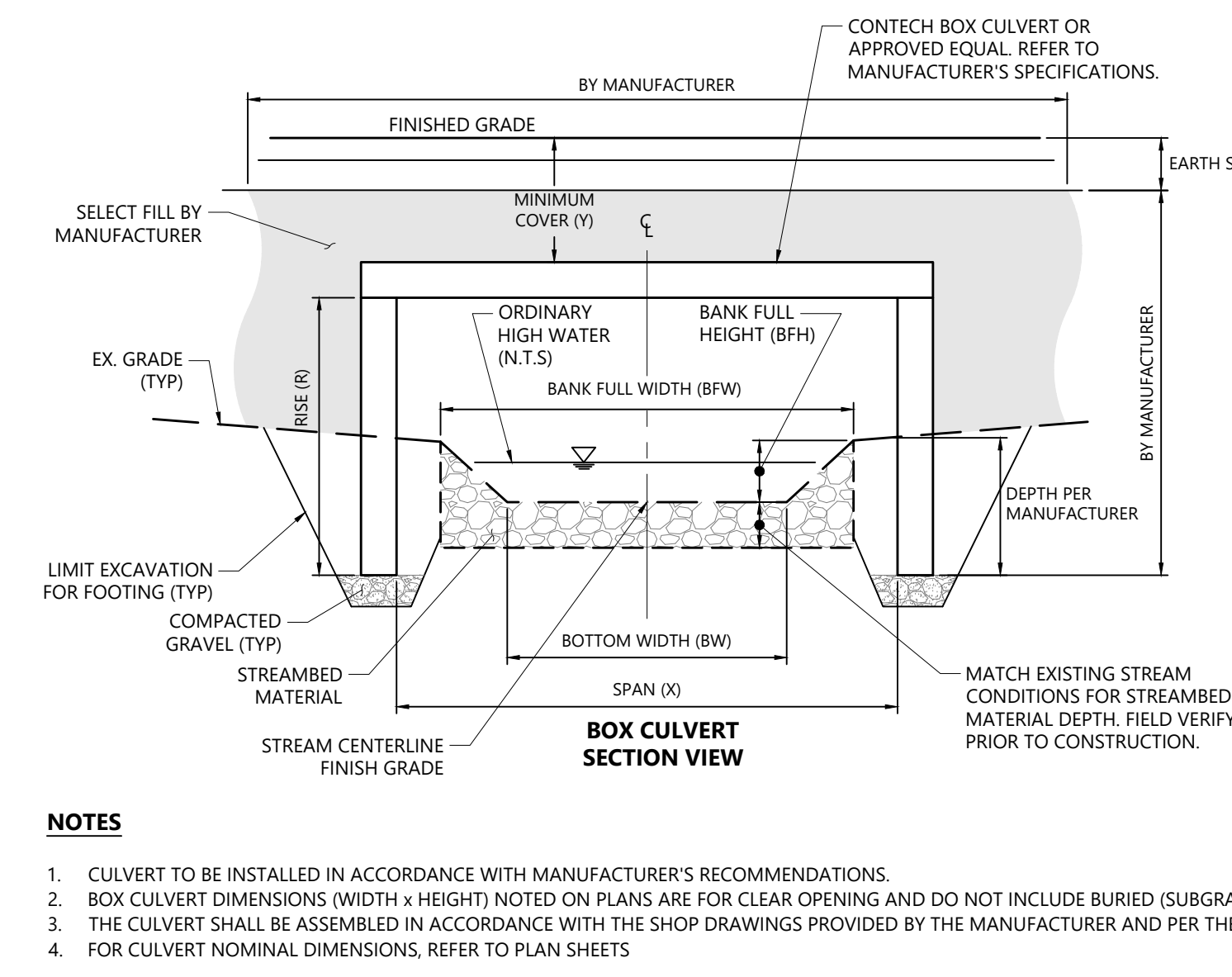
* SPECIFIED SEED MIX IS THE NEW ENGLAND LOGGING ROAD MIX (PROPRIETARY BLEND) FROM NEW ENGLAND NURSERY PLANTS, INC. HTTP://WWW.NEP.COM - OR APPROVED EQUIVALENT SHOULD BE APPLIED AT A MINIMUM RATE OF 20 LBS/ACRE (1 LB / 2,000 SF)



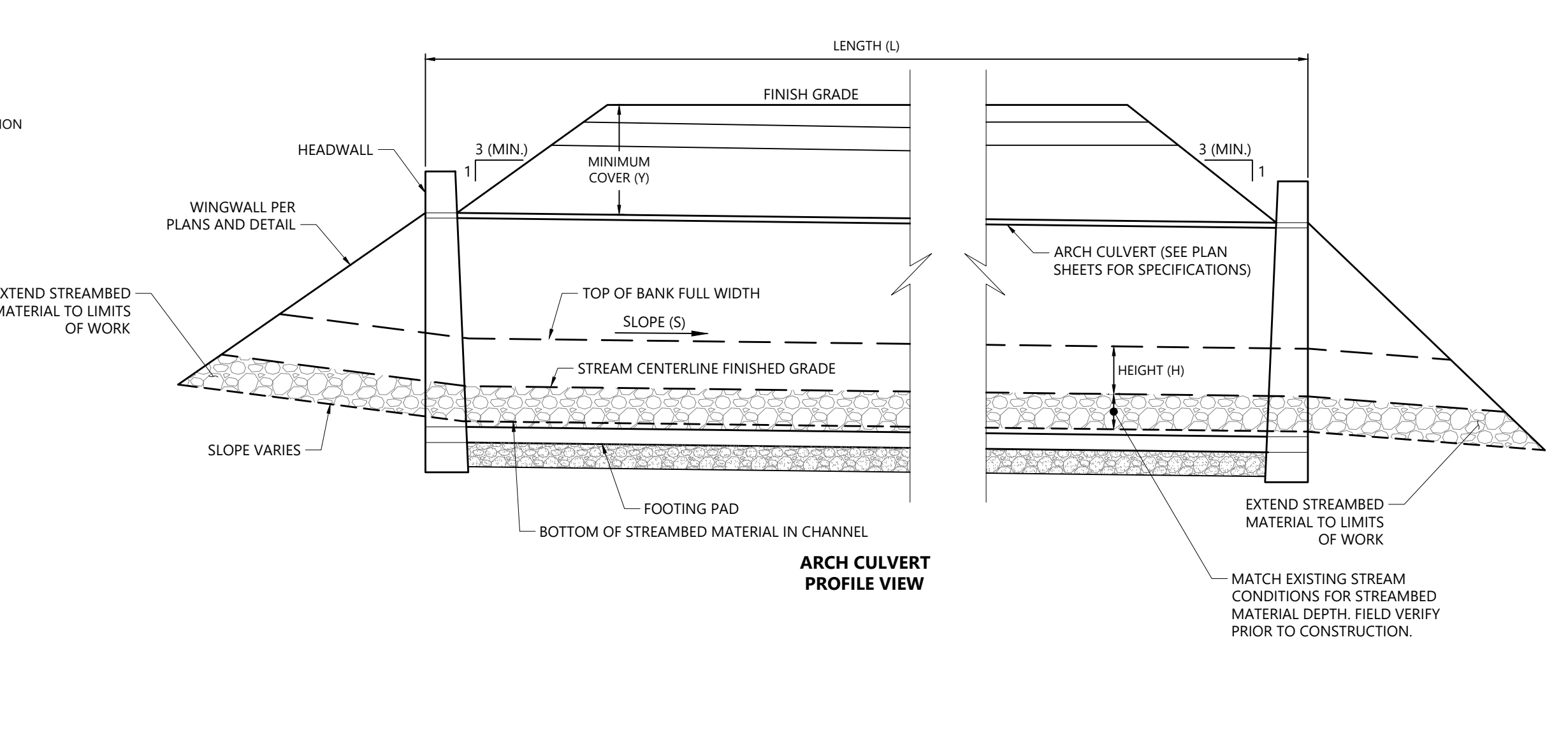
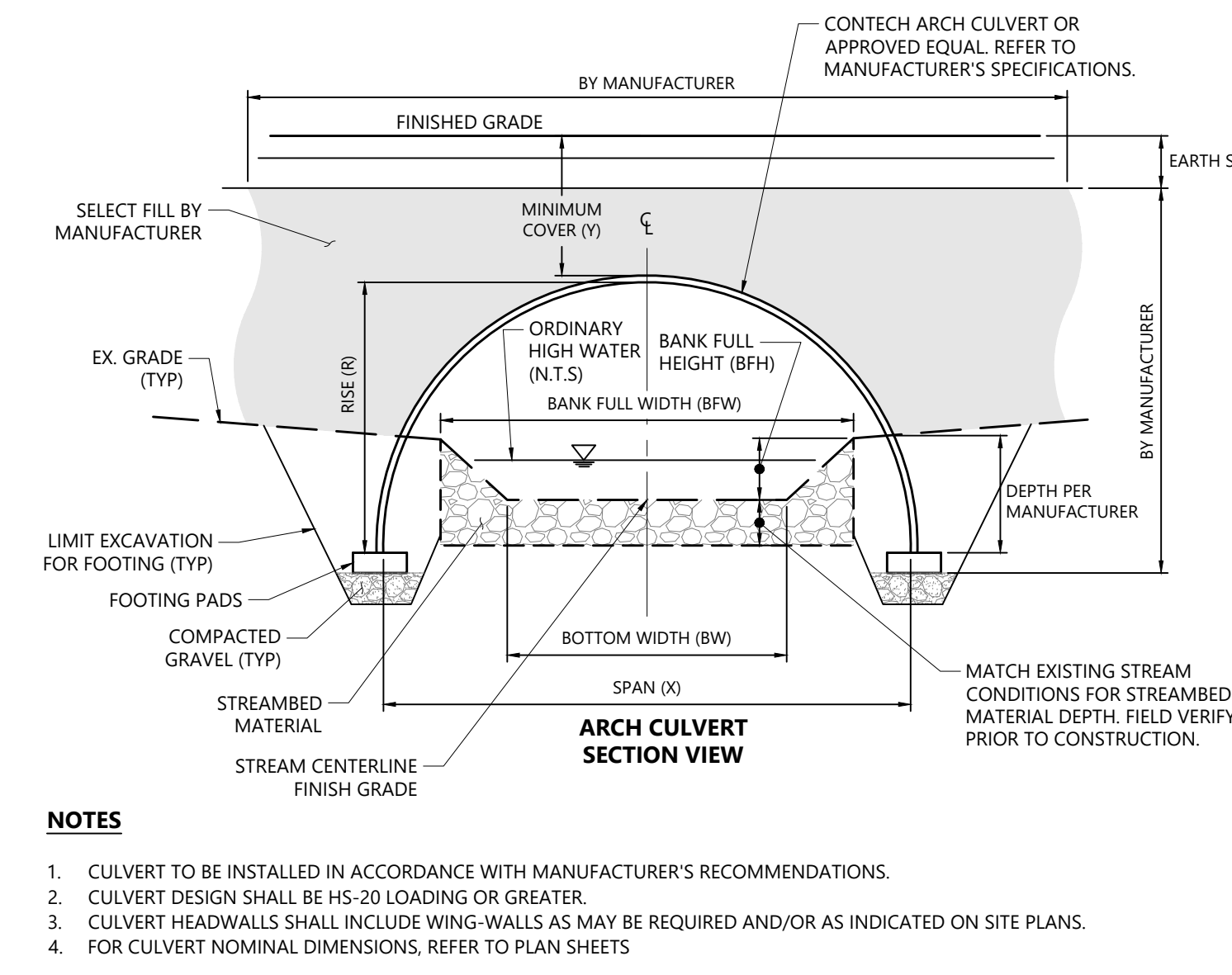
Roadway Reclamation Detail ST-06
N.T.S. Source: VHB

Typical Ski Trail Design 6/16
N.T.S. Source: VHB

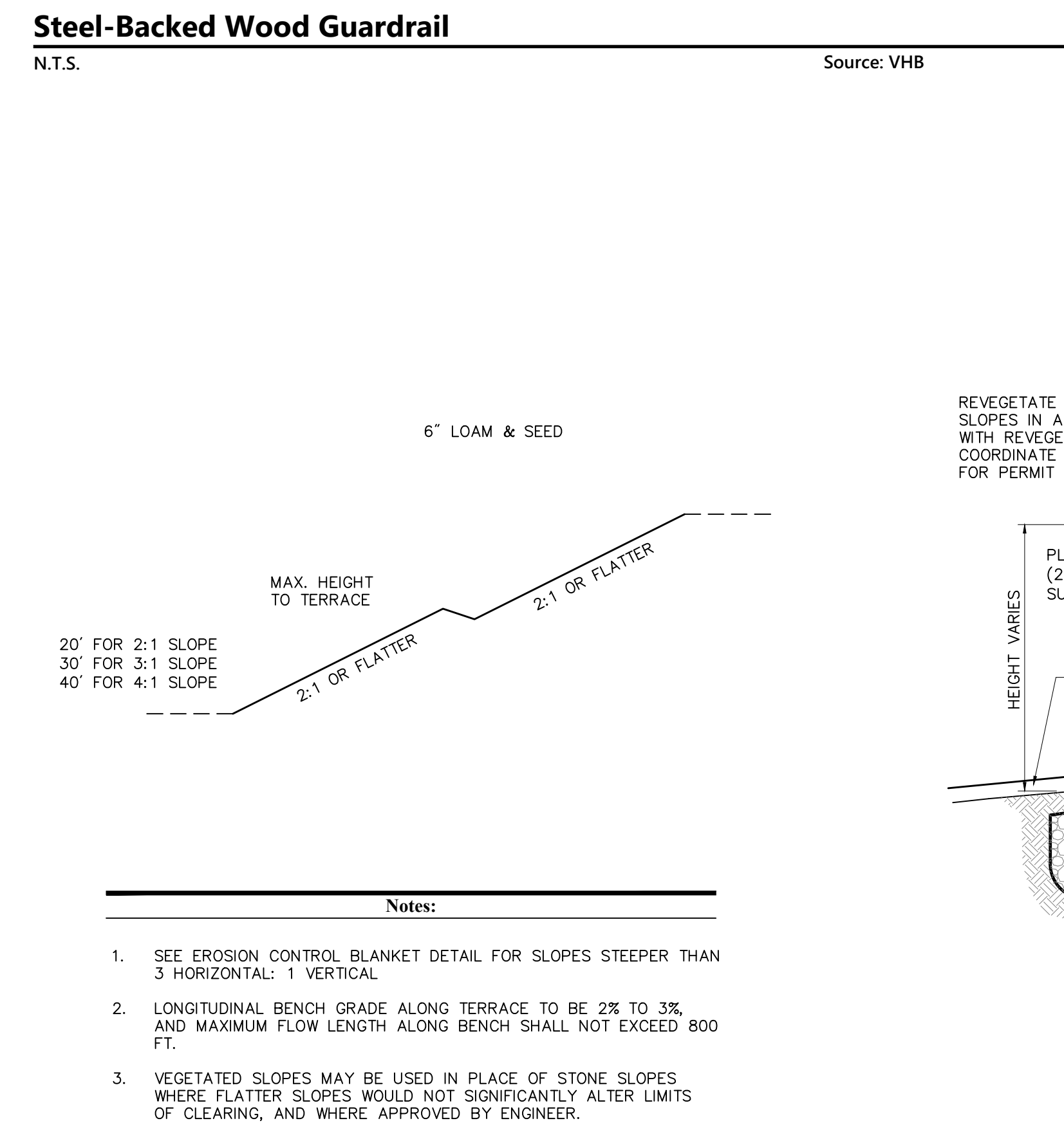
Steel-Backed Wood Guardrail 1/16
N.T.S. Source: VHB



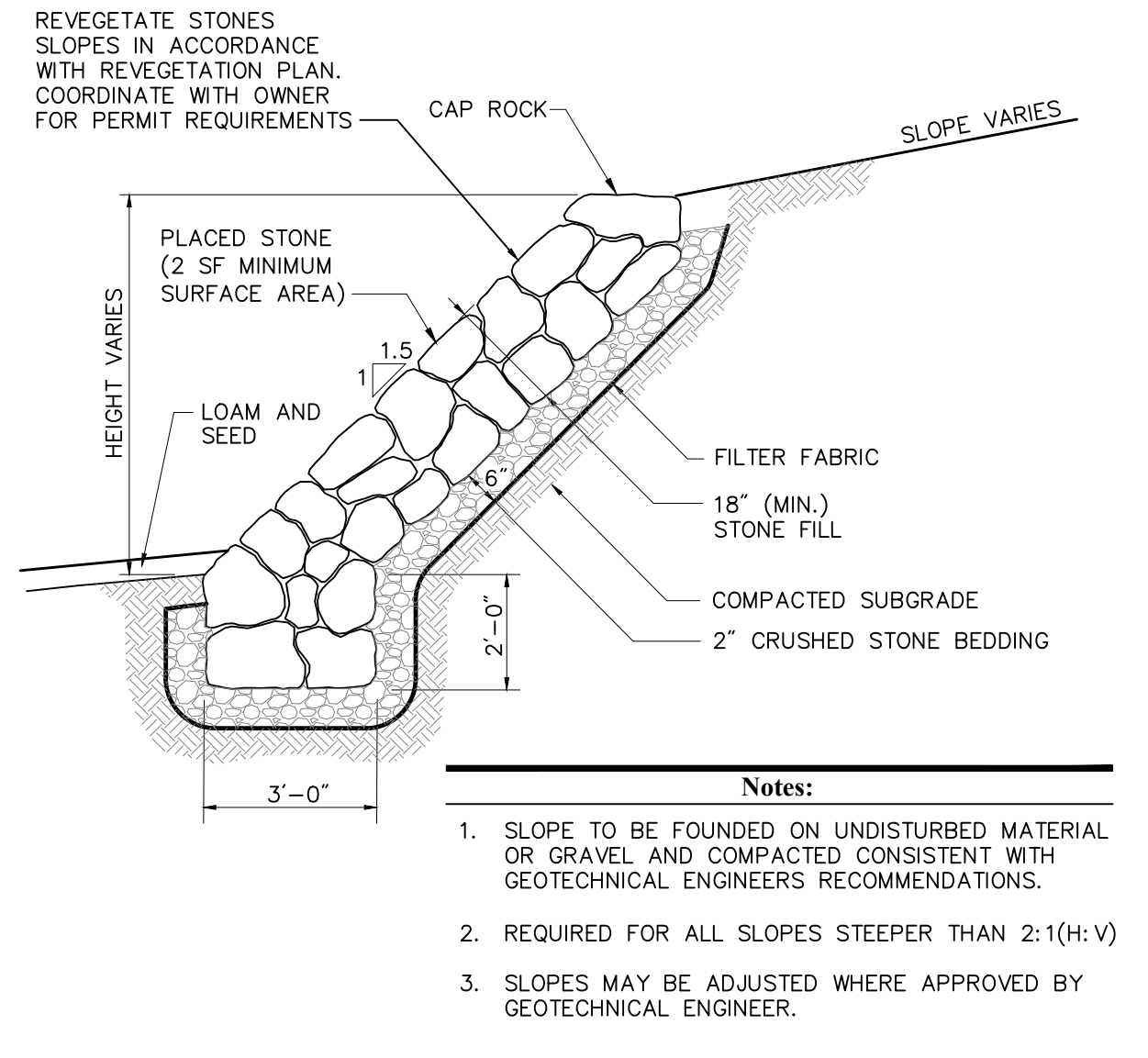
Typical Stream Crossing (Box Culvert) 1/16
N.T.S. Source: VHB/CONTECH



Typical Stream Crossing (Arch Culvert) 1/16
N.T.S. Source: VHB/CONTECH



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



Placed Stone Slope EV-11
N.T.S. Source: VHB

STREAMBED MATERIAL FOR CHANNEL FORMATION AND OUTLET PROTECTION

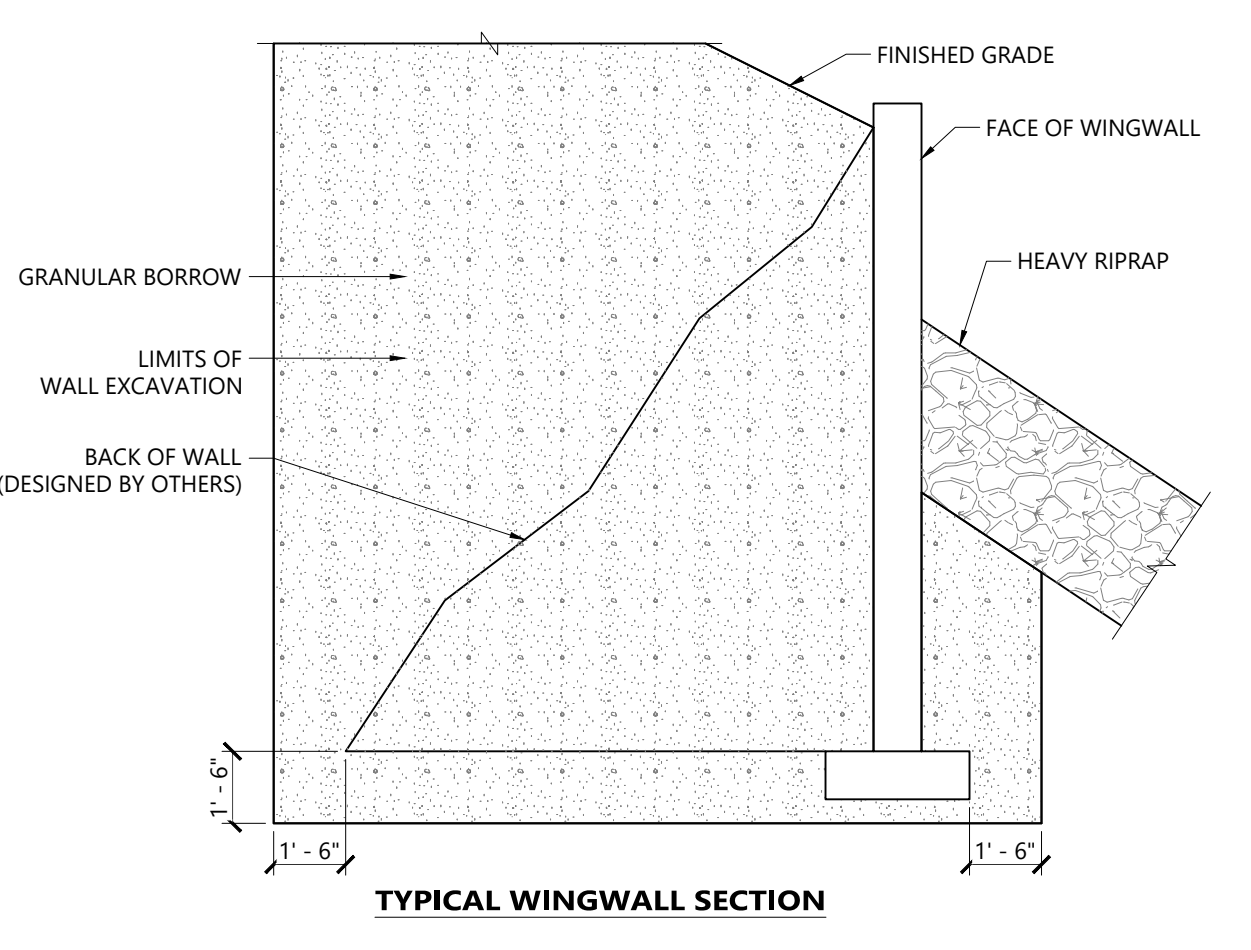
THE BOULDER-COBBLE-GRAVEL-SAND MATERIAL SPECIFIED BELOW MUST BE APPROVED BY THE ENGINEER AT THE CONTRACTOR'S PROPOSED SOURCE PRIOR TO BEING PLACED IN THE STREAM CHANNEL.

Cumulative Percent of particles finer than indicated particle size	PARTICLE SIZE (inches)	PARTICLE TYPE
D10	< 0.04	gravel
D15	1.0-2.0	gravel
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**
- ALL IMPORTED BEDDING MATERIAL SHALL CONSIST OF FIELD STONE OR NATURAL RIVER ROCK SIMILAR IN COLOR AND APPEARANCE TO IN-SITU MATERIALS.
 - CRUSHED STONE SHALL NOT BE PERMITTED.
 - 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).
 - SAND SHALL BE WELL MIXED AND PREDOMINANTLY 1.0 TO 2.0 MILLIMETERS IN SIZE AND HAVE NATURAL COLOR (BROWN, TAN, YELLOW, OR WHITE).
 - THE GRADATION OF IMPORTED MATERIALS SHALL FALL WITHIN THE ENVELOPE AS INDICATED IN THE TABLE ABOVE.
 - 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 1/16
N.T.S. Source: VHB



Typical Wingwall 1/16
N.T.S. Source:

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

No. Revision Date App'd.

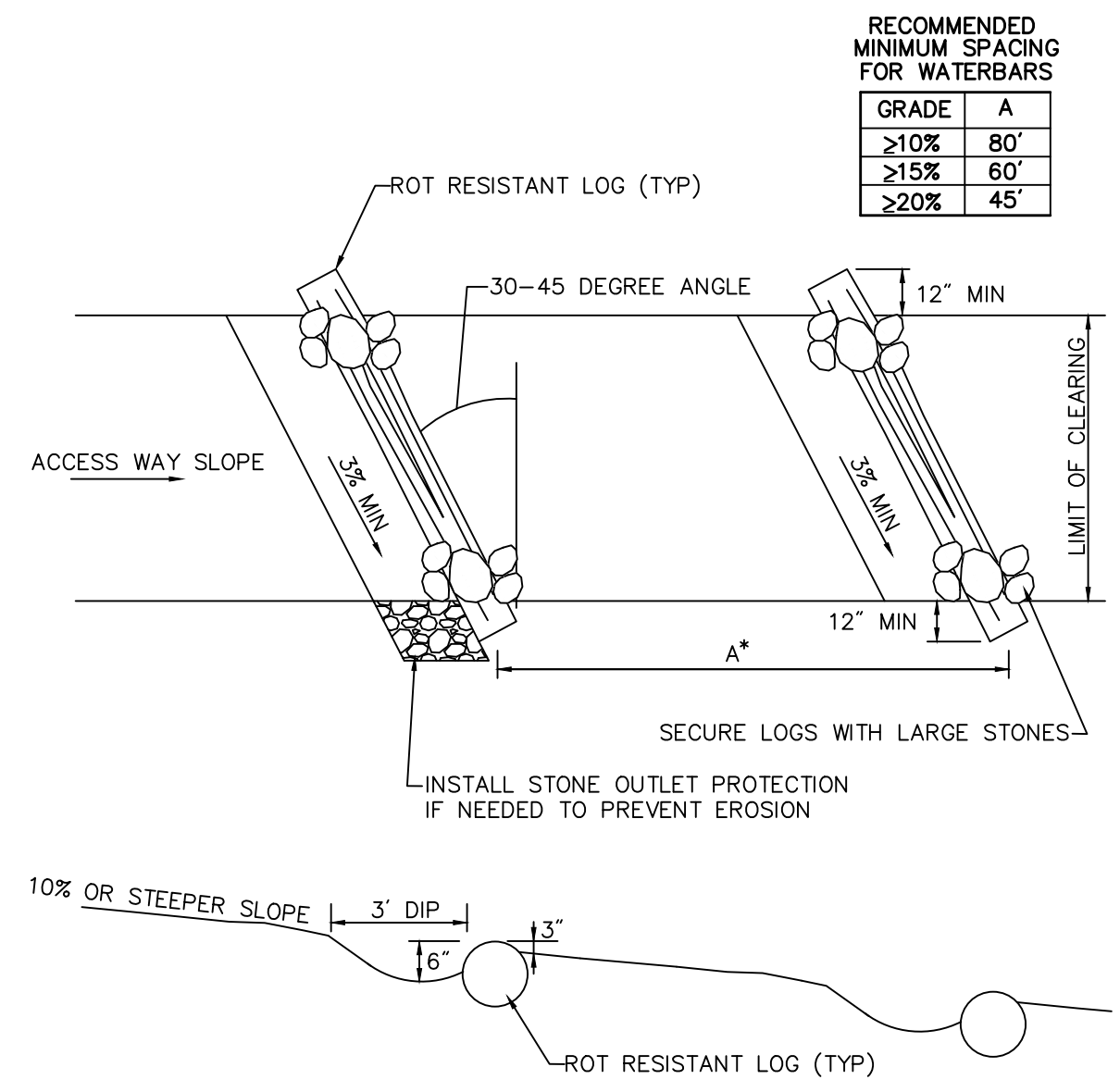
Designed by: RWN Checked by: PS
Issued for: Date: April 29, 2022

Review

Not For Construction
Drawing Title: **Site Details**

STATE OF MAINE
PETER B. SMAR
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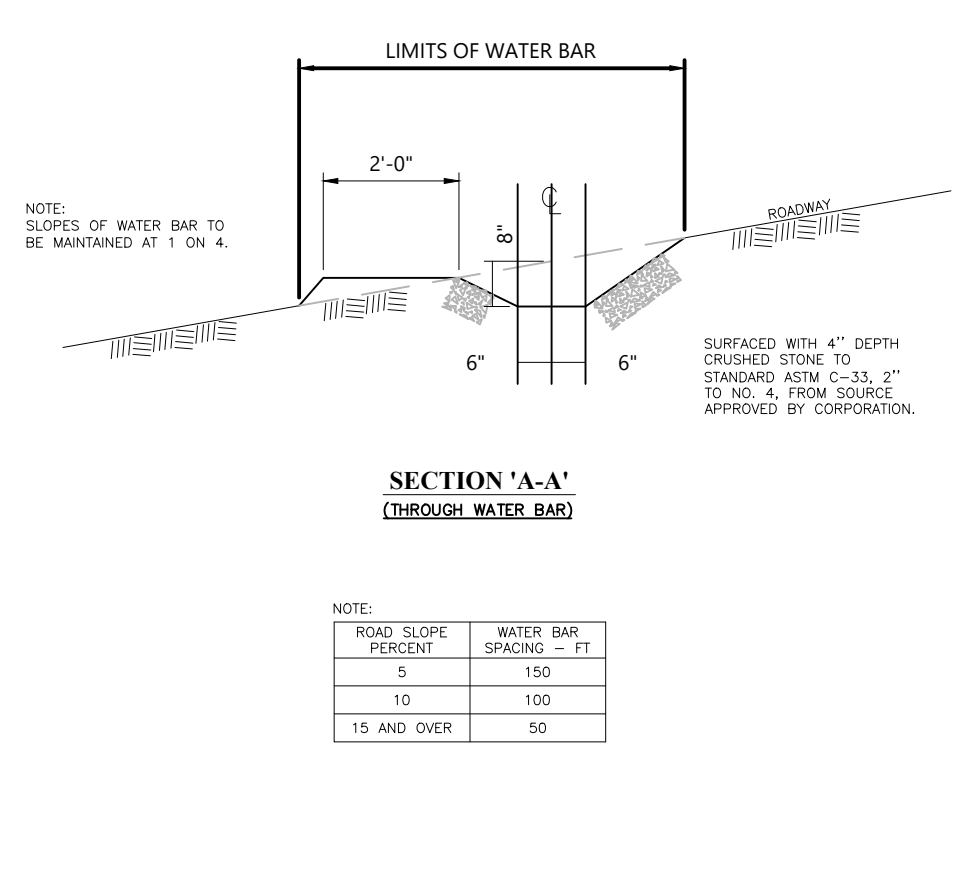
Drawing Number: **C-1.02**
Sheet 58 of 63
Project Number: 55310.01



- Notes:**
- WATERBARS SHOULD BE INSTALLED IN SECTIONS WITH SLOPES GREATER THAN OR EQUAL TO 10%.
 - WATERBARS SHALL BE CONSTRUCTED WITH 10" DIAMETER MINIMUM PRELID LOGS, HELD IN PLACE WITH LARGE STONES. APPROPRIATE SPECIES INCLUDE SPRUCE, HICKORY, BEECH, AND OAK.
 - CONTRACTOR TO OBSERVE THE CLEARINGS DURING A RAINFALL TO DETERMINE IF ADDITIONAL WATERBARS OR ADJUSTMENTS TO WATERBARS ARE NEEDED.
 - 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.
 - 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

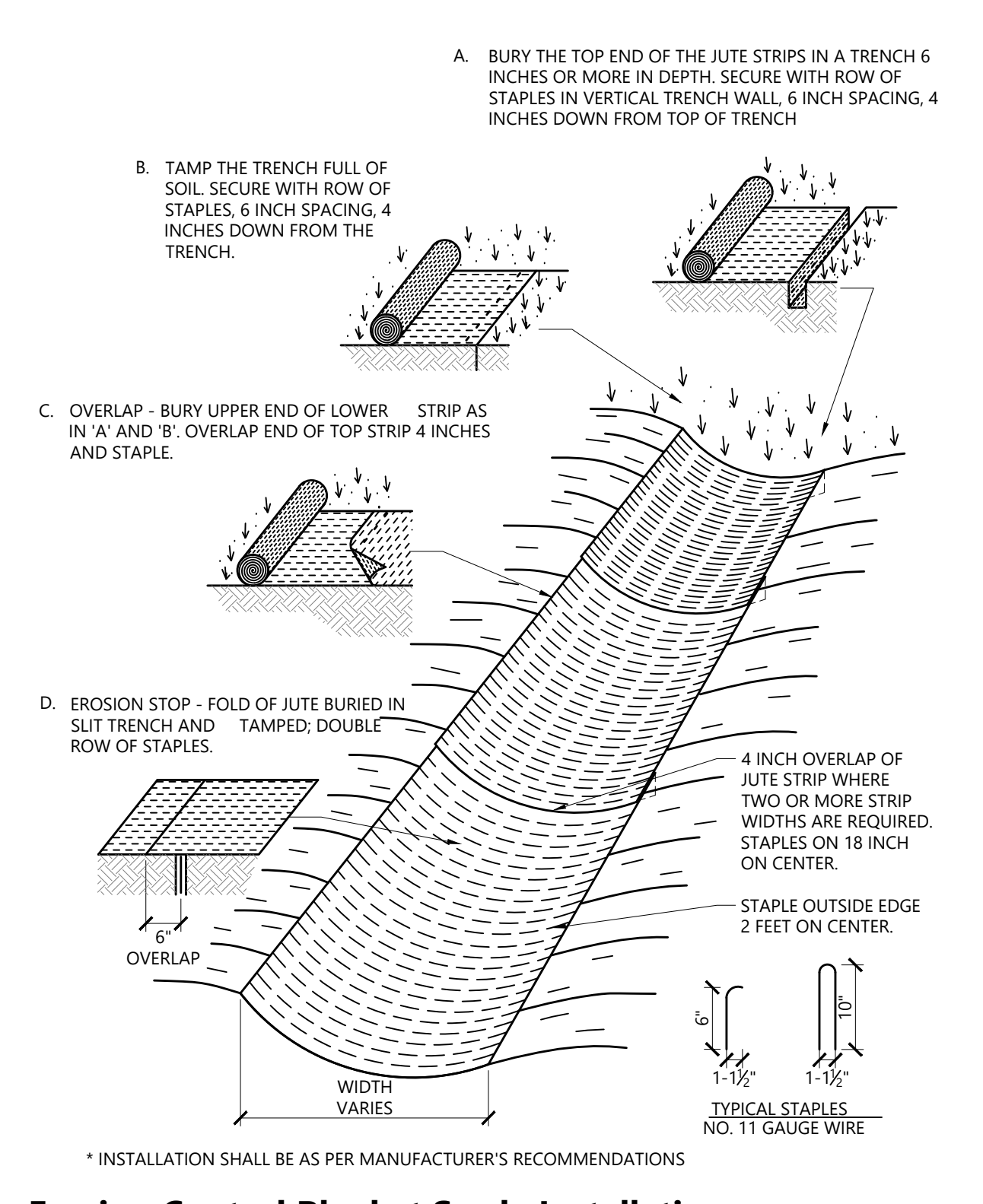
N.T.S. Source: VHB



- Notes:**
- INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
 - STRIP EXISTING SOD FROM BASE OF DIVERSION RIDGE PRIOR TO PLACING FILL.
 - TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
 - VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED.
 - 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.
 - INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.
 - WATERBAR SLOPE SHALL NOT EXCEED 2% AS SHOWN.
 - FEDERAL, STATE, AND/OR LOCAL REQUIREMENTS MAY OVERRIDE THESE SPECIFICATIONS AND/OR THE USE OF THIS MEASURE.

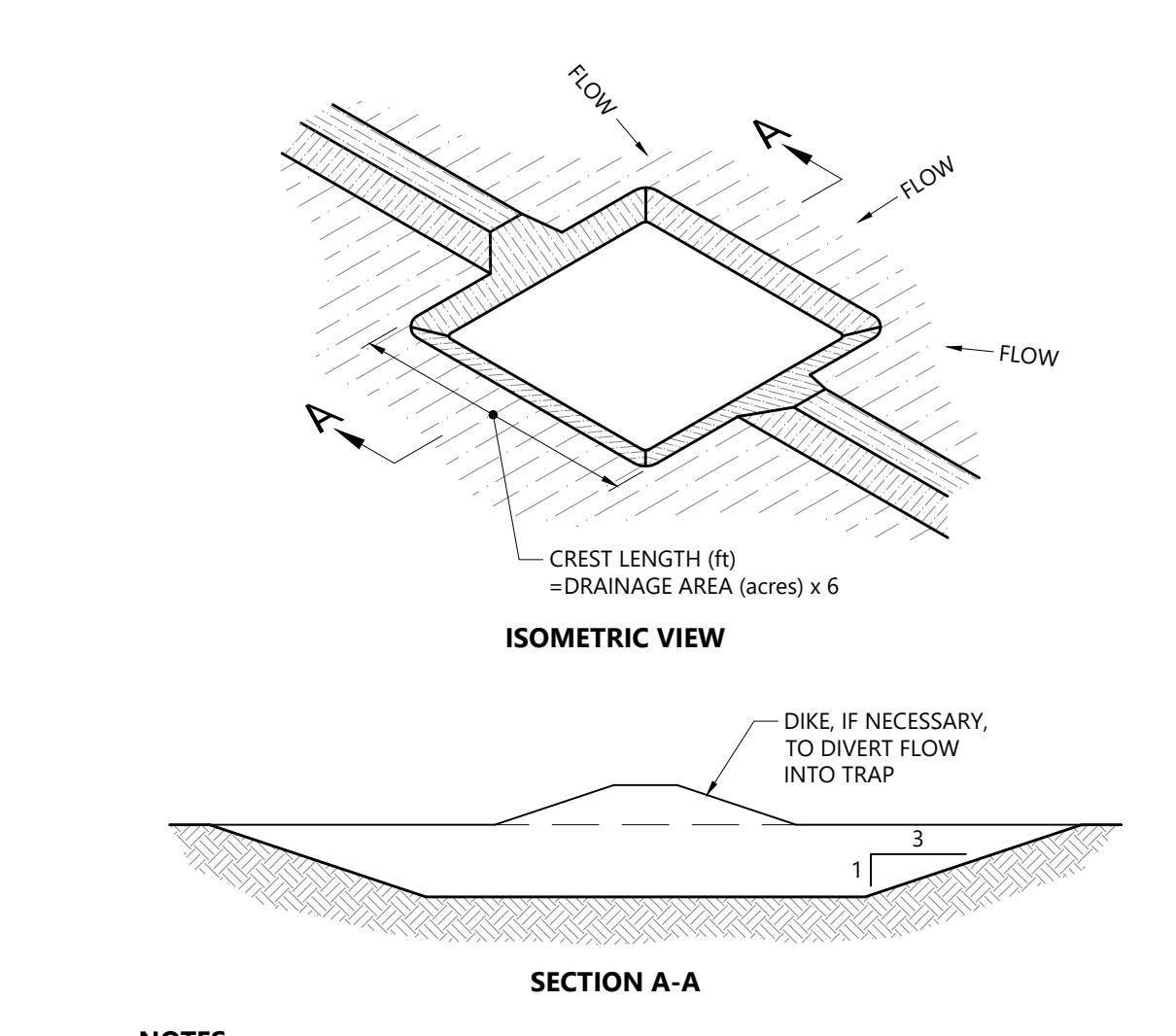
Typical Water Bar Detail ER-04

N.T.S. Source: VHB



Erosion Control Blanket Swale Installation 1/16

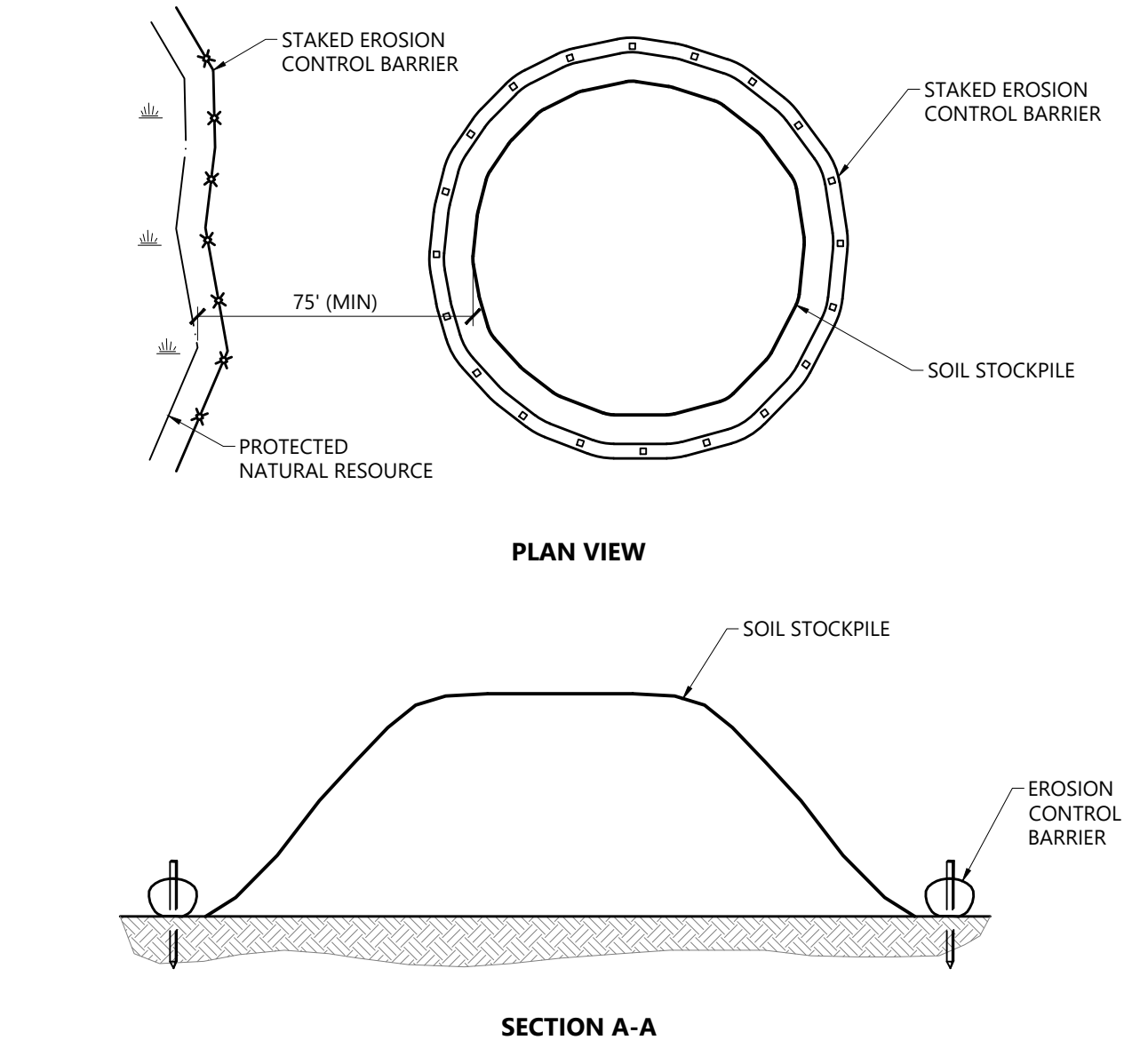
N.T.S. Source: VHB



- Notes:**
- THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
 - THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
 - THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
 - THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
 - 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.
 - THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
 - THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.
 - 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 1/16

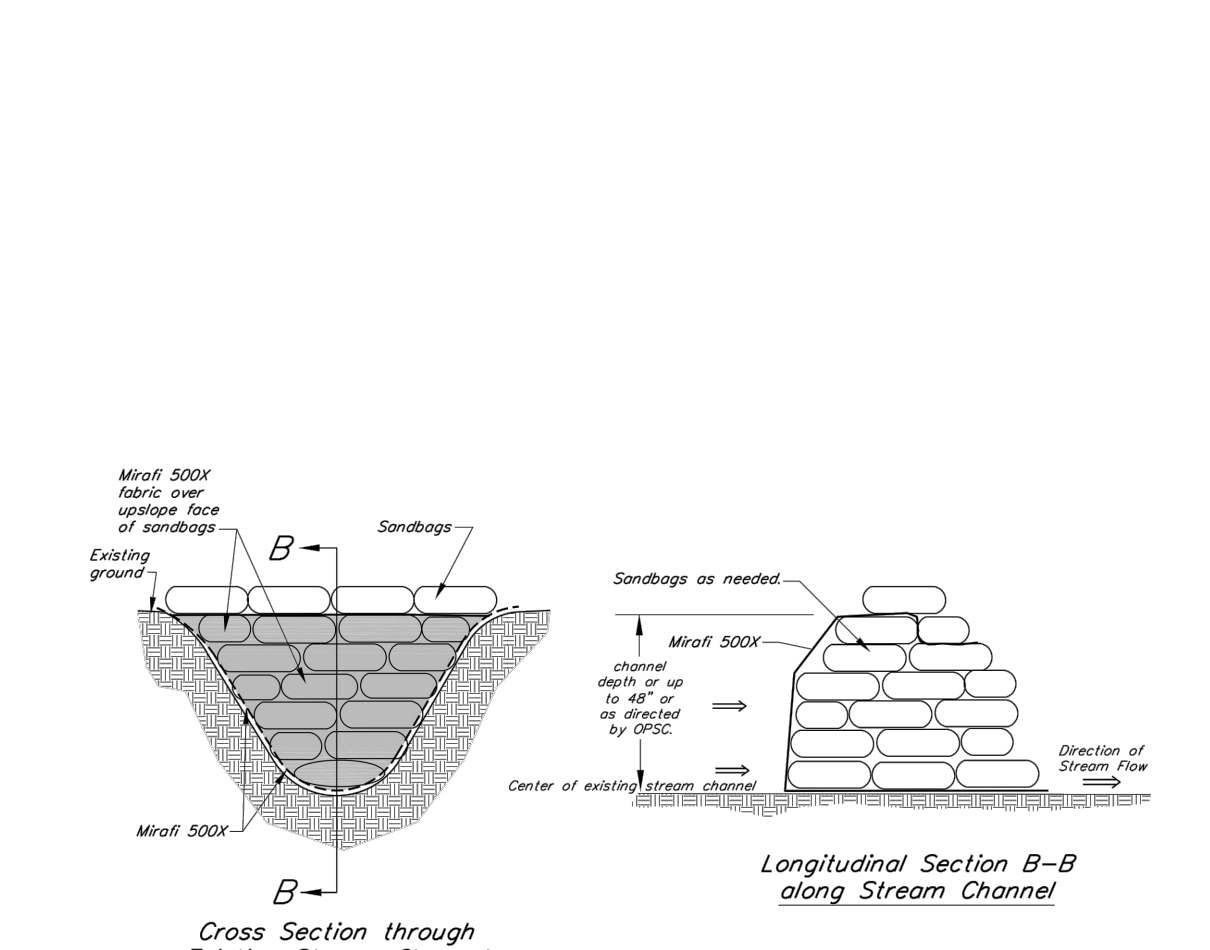
N.T.S. Source: VHB



- Notes:**
- STOCKPILES SHALL BE PLACED A MINIMUM OF 75 FEET AWAY FROM PROTECTED NATURAL RESOURCES.
 - STOCKPILES REMAINING UNSTABILIZED FOR A PERIOD OF MORE THAN 15 DAYS SHALL BE TEMPORARILY MULCHED.
 - 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 1/16

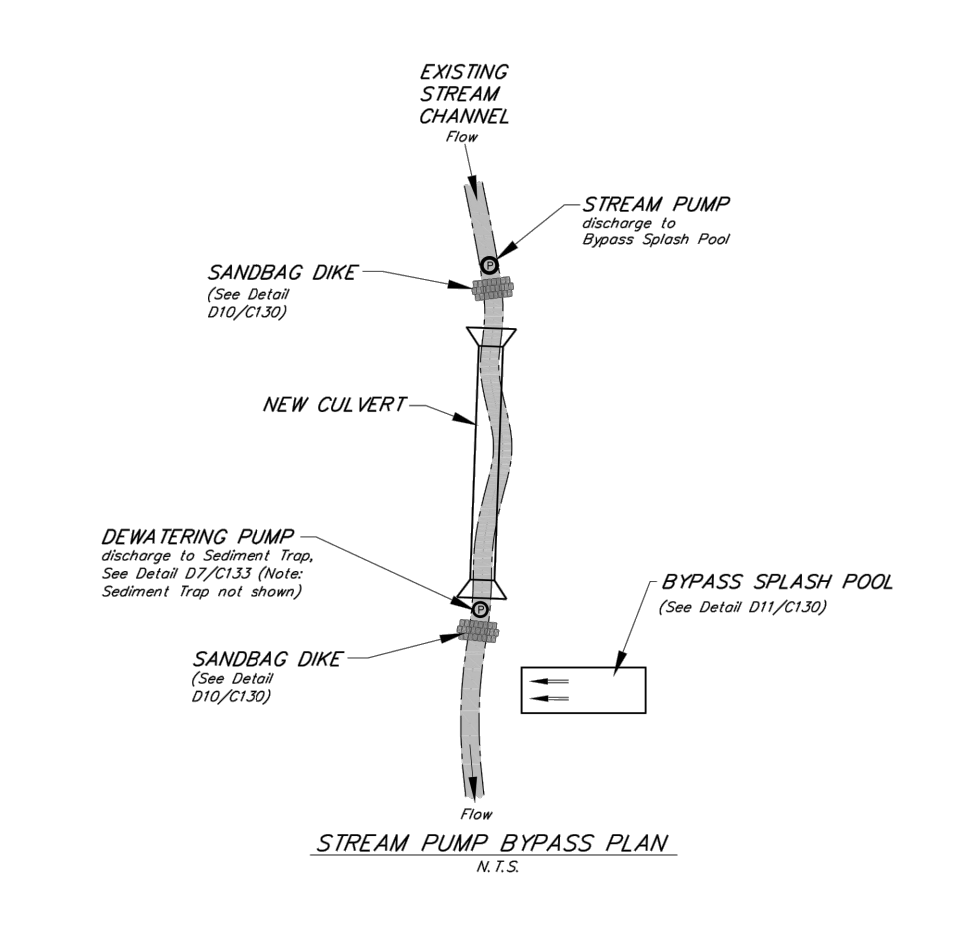
N.T.S. Source: VHB



- 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 sediment pool on the down-drift side of the work area. The sediment pool shall be located at a location approved by the DPSC and/or the DPSC specialist such that the flow returning from the sediment pool to the stream channel flow through rock stone on fabric.
 - The Contractor shall have a pre-construction meeting with the DPSC Specialist and the DPSC 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 procedure. This meeting shall occur at least 2 days prior to the stream culvert installation.
 - Whenever practical, work within a stream bed shall be done during low flow conditions. The Contractor shall conform the work schedule with the DPSC at least 48 hours prior to the work. New culvert, pump, or outlet and channel length (if required) shall be completed in one day. If work can not be completed in one day, the stream bypass shall be removed overnight.
 - Contractor shall have all equipment inside 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 culvert. Install pumps at upstream side of dike. Pump capacity shall be 2 times estimated flow. Keep suction end of pump piping 12" off bottom of the stream, where 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 Channel Sandbag Dike Detail EV-02

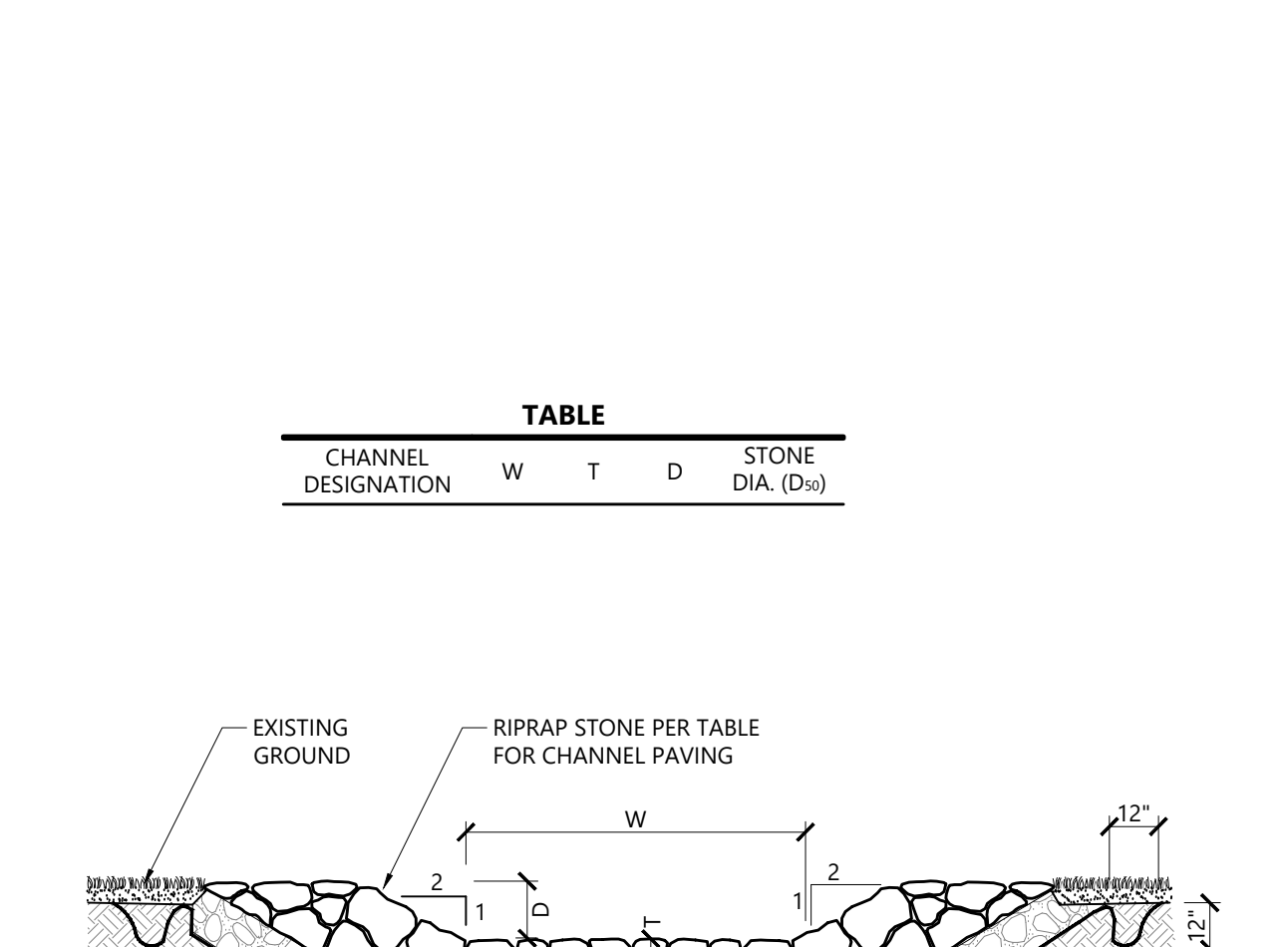
N.T.S. Source: VHB



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

Stream Culvert Installation Procedure EV-07

N.T.S. Source: VHB



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

Riprap Channel 1/16

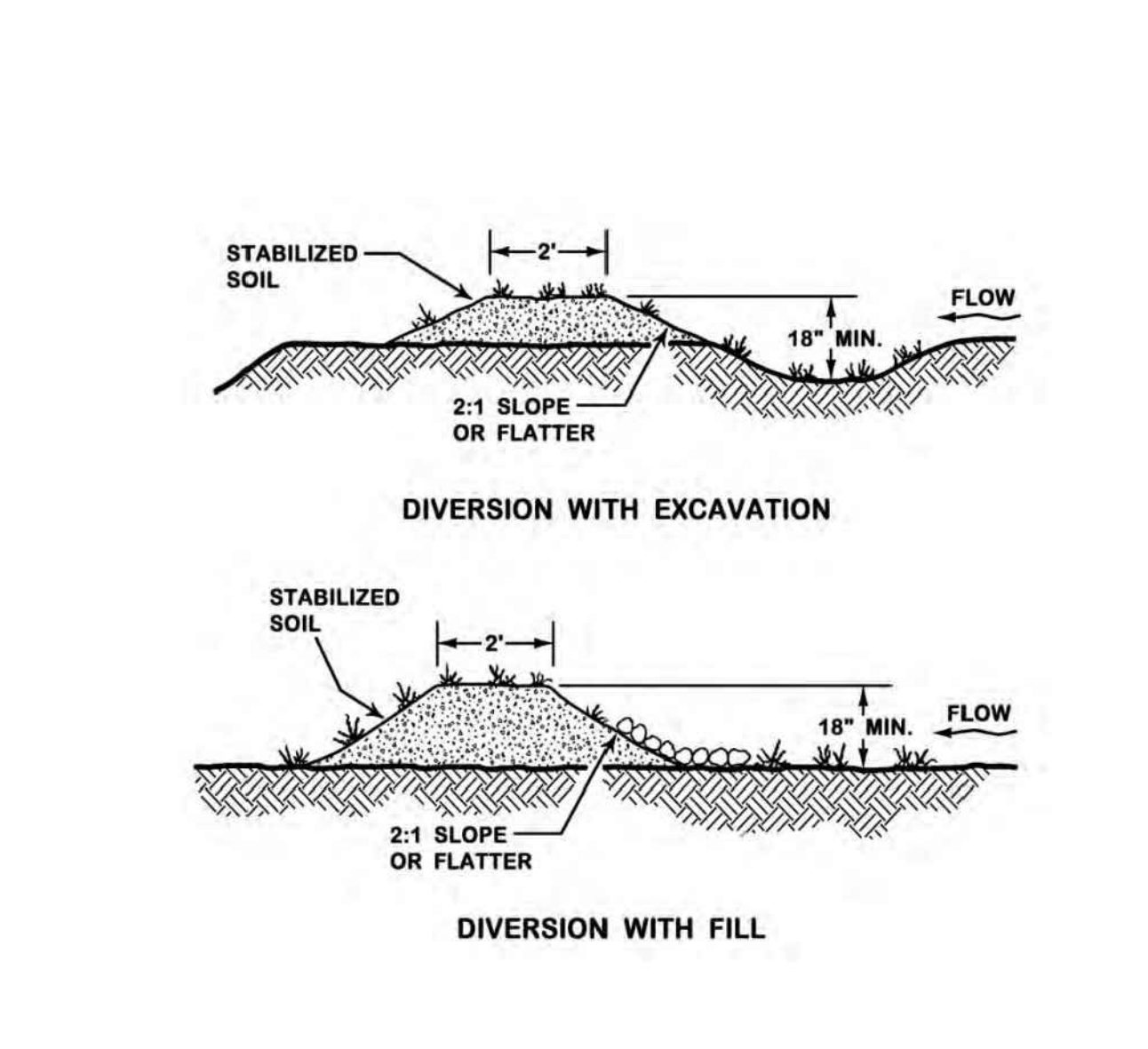
N.T.S. Source: VHB

MULCH MATERIAL	QUALITY STANDARDS	PER 1,000 SQ-FT	PER ACRE	DEPTH OF APPLICATION
WOOD CHIPS OR SHAVINGS	AIR DRIED, FREE OF OBJECTIONABLE MATERIAL	500 - 900 LBS	10 - 20 TONS	2-4"*
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, CRUSHED STONE OR SLAG	WASHED, SIZE 28 OR 3A - 1 1/2"	9 CY	405 CY	3"
HAY OR STRAW	AIR-DRIED, FREE OF UNDESIRABLE SEEDS AND CORN MATERIALS	90 - 100 LBS	2 TONS (100-120 BALES)	COVER ABOUT 90% SURFACE
COMPOST	UP TO 1" PIECES, MODERATELY TO HIGHLY STABLE	3 - 9 CY	3 - 9 CY	1-3"
Erosion Control Mat	WELL-GRADED MIXTURE OF PARTICLE SIZES. ORGANIC CONTENT BETWEEN 80-100% DRY WEIGHT. PARTICLE SIZE SHALL PASS # 20 SCREEN (100%)			*Slopes 2(H):1(V) = 2 inch depth plus additional 1/2 inch depth per 20 ft. of slope up to 100 ft. **Slopes between 2(H):1(V) and 3(H):1(V) = 4 inch depth plus additional 1/2 inch per 20 ft. of slope up to 100 ft. ***Slopes steeper than 2(H):1(V) applicability to specific site and mulch depth to be reviewed and approved prior to use by DPSC or DPSC Specialist

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

Mulch Table EV-08

N.T.S. Source: VHB



- Notes:**
- 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 MANE DEP BEFORE STORMWATER IS DIRECTED TO IT.
 - 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 EV-08

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

- EROSION PREVENTION AND SEDIMENT CONTROL NOTES**
- INSTALLATION**
- INSTALL SEDIMENT BARRIERS ON YOUR SITE BEFORE DISTURBING SOILS. SEE THE "SEDIMENT BARRIERS" MEASURE FOR DETAILS ON INSTALLATION AND MAINTENANCE.
 - CONSTRUCT A DIVERSION DITCH TO KEEP UPSLOPE RUNOFF OUT OF WORK AREA.
 - MARK CLEARING LIMITS ON THE SITE TO KEEP EQUIPMENT OUT OF AREAS WITH STEEP SLOPES, CHANNELIZED FLOW, OR ADJACENT SURFACE WATERS.
 - PRESERVE BUFFERS BETWEEN THE WORK AREA AND ANY DOWNSTREAM SURFACE WATERS AND WETLANDS.
 - USE TEMPORARY MULCH AND RYE-SEED TO PROTECT DISTURBED SOILS OUTSIDE THE ACTIVE CONSTRUCTION AREA. SEE THE "MULCHING MEASURE AND RE-VEGETATION" MEASURES FOR DETAILS AND SPECIFICATIONS FOR THESE CONTROLS.
 - PERMANENTLY SEED AREAS NOT TO BE PAVED WITHIN SEVEN DAYS OF COMPLETING FINAL GRADING. SEE "RE-VEGETATION" MEASURE FOR INFORMATION ON PROPER SEEDING.
 - GRADE DEVELOPMENT TO DRAIN TO RAIN GARDEN. ENSURE AREAS UPDRILL OF THE DEVELOPMENT ARE DIVERTED AWAY FROM THE RAIN GARDEN.

- MAINTENANCE**
- ALL MEASURES WILL BE INSPECTED WEEKLY AND BEFORE AND AFTER EVERY SIGNIFICANT STORM EVENT DURING CONSTRUCTION.
- EVERY MONTH THE FIRST YEAR AFTER CONSTRUCTION AND YEARLY THEREAFTER, INSPECT FOR AREAS SHOWING EROSION OR POOR VEGETATION GROWTH. FIX THESE PROBLEMS AS SOON AS POSSIBLE. EACH SPRING REMOVE ANY ACCUMULATION OF DEBRIS OR WINTER SAND THAT WOULD IMPEDE RUNOFF FROM ENTERING A RAIN GARDEN OR DITCH.
- NOTE: PLEASE REFERENCE THE WRITTEN EROSION AND SEDIMENTATION CONTROL PLAN FOR ADDITIONAL GUIDANCE.

Sugarloaf Mtn Corp West Mountain Expansion

5092 Access Road
Carrabassett Valley, ME 04947

No.	Revision	Date	App'd.

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Issued for: Date: April 29, 2022
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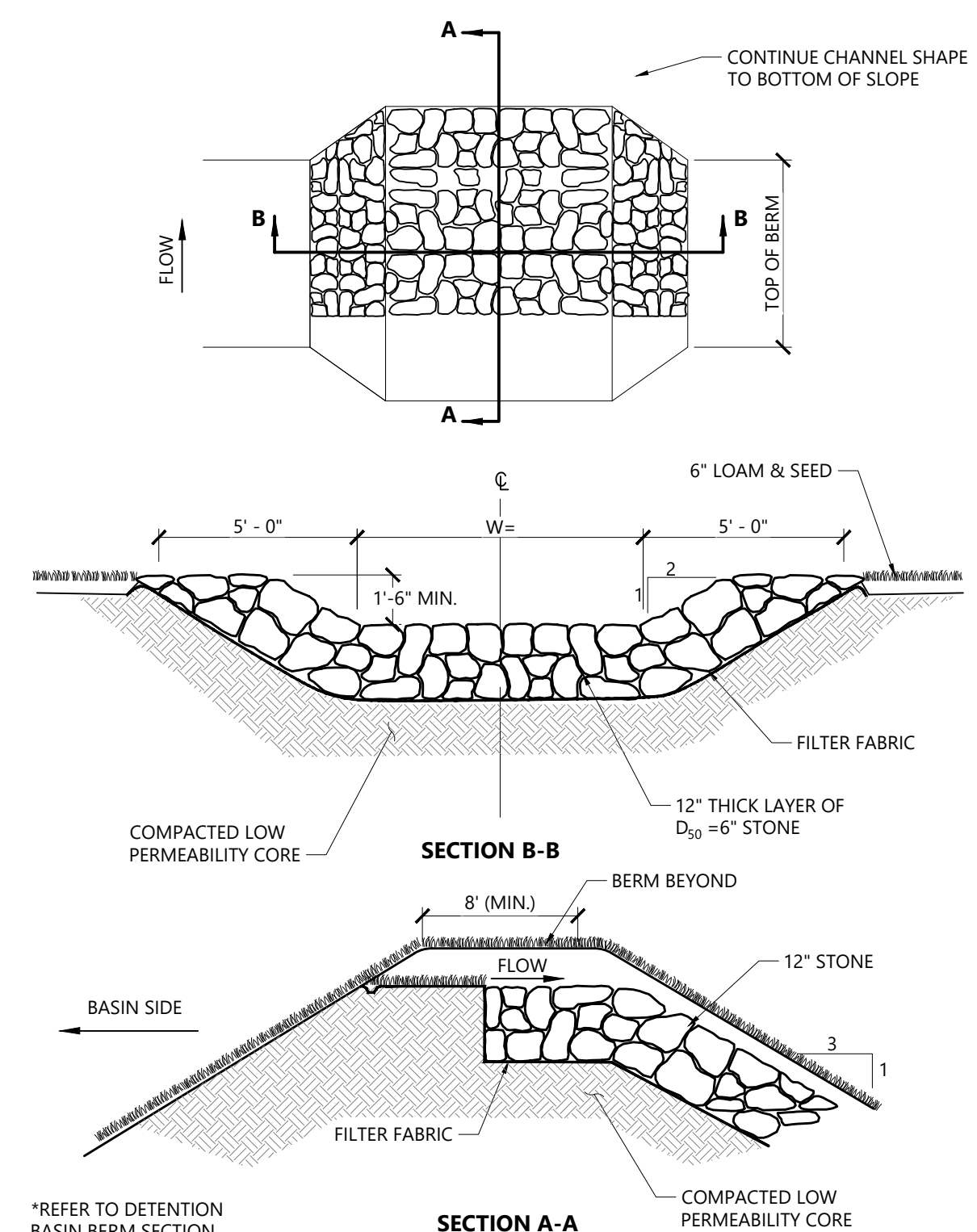
Erosion Prevention and Sediment Control Details

STATE OF MAINE
PETER B. SMIAAR
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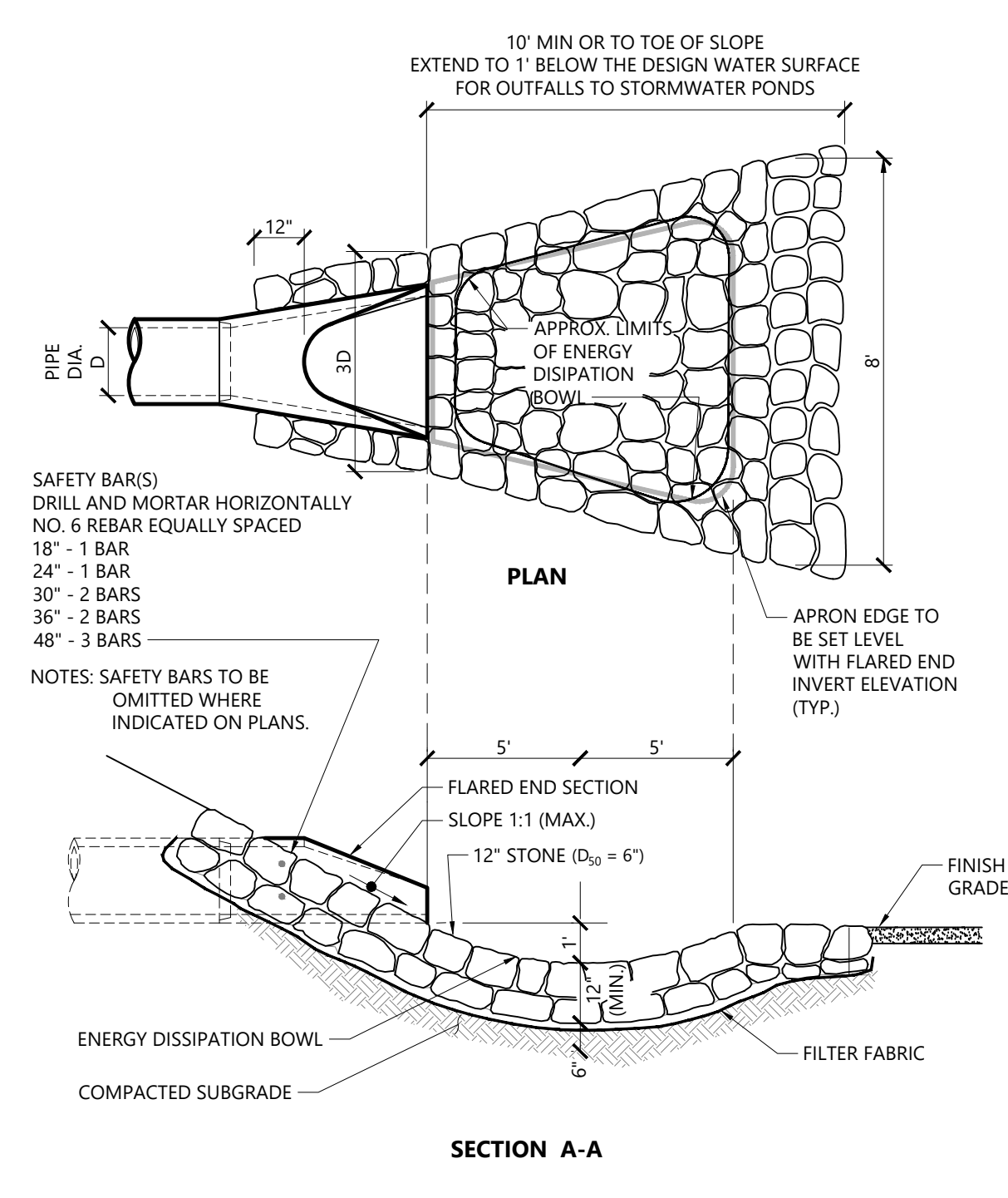
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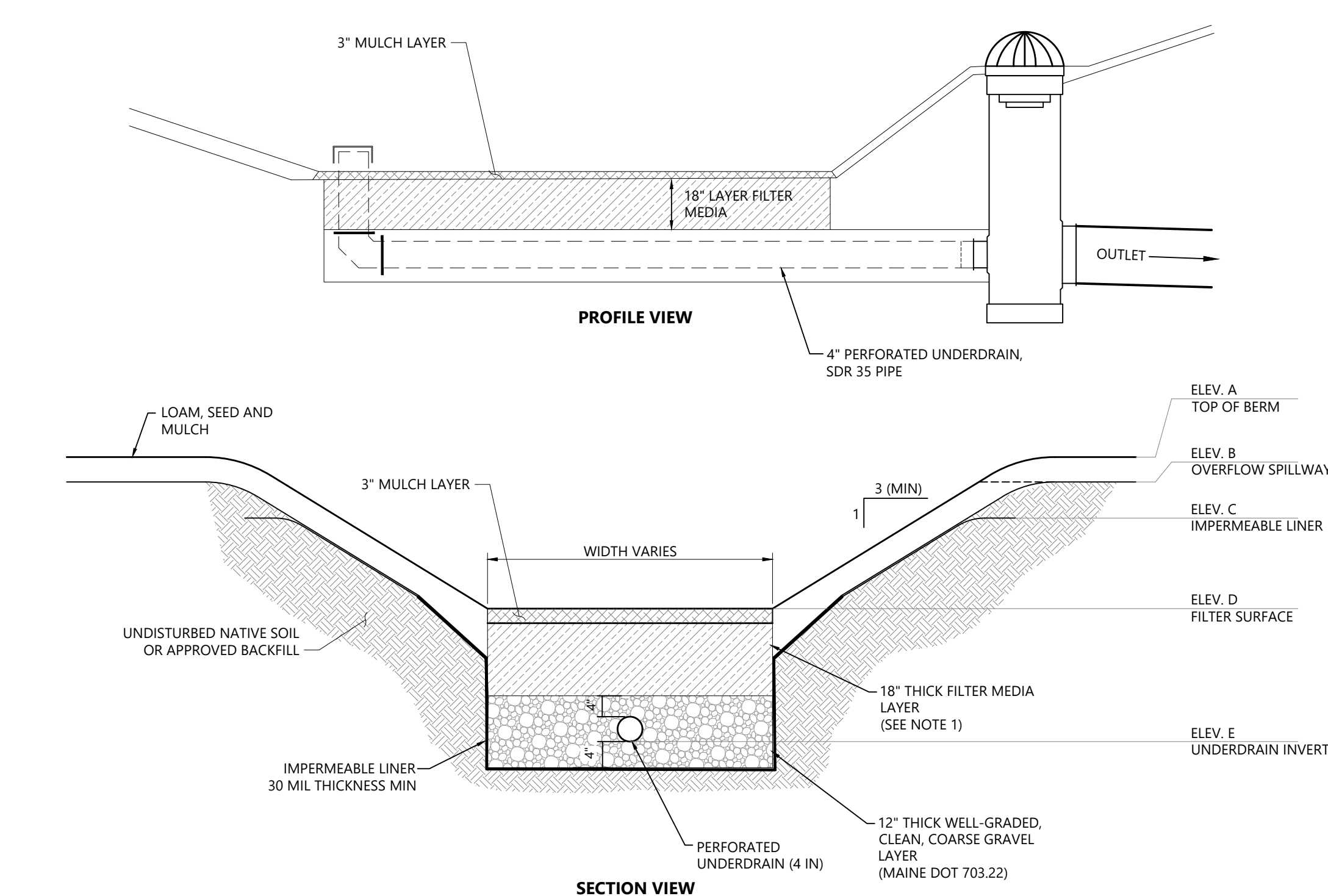
Project Number 55310.01



Overflow Stone Spillway 1/16
N.T.S. Source: VHB LD_161



Flared End Section (FES) with Stone Protection 1/16
N.T.S. Source: VHB LD_134



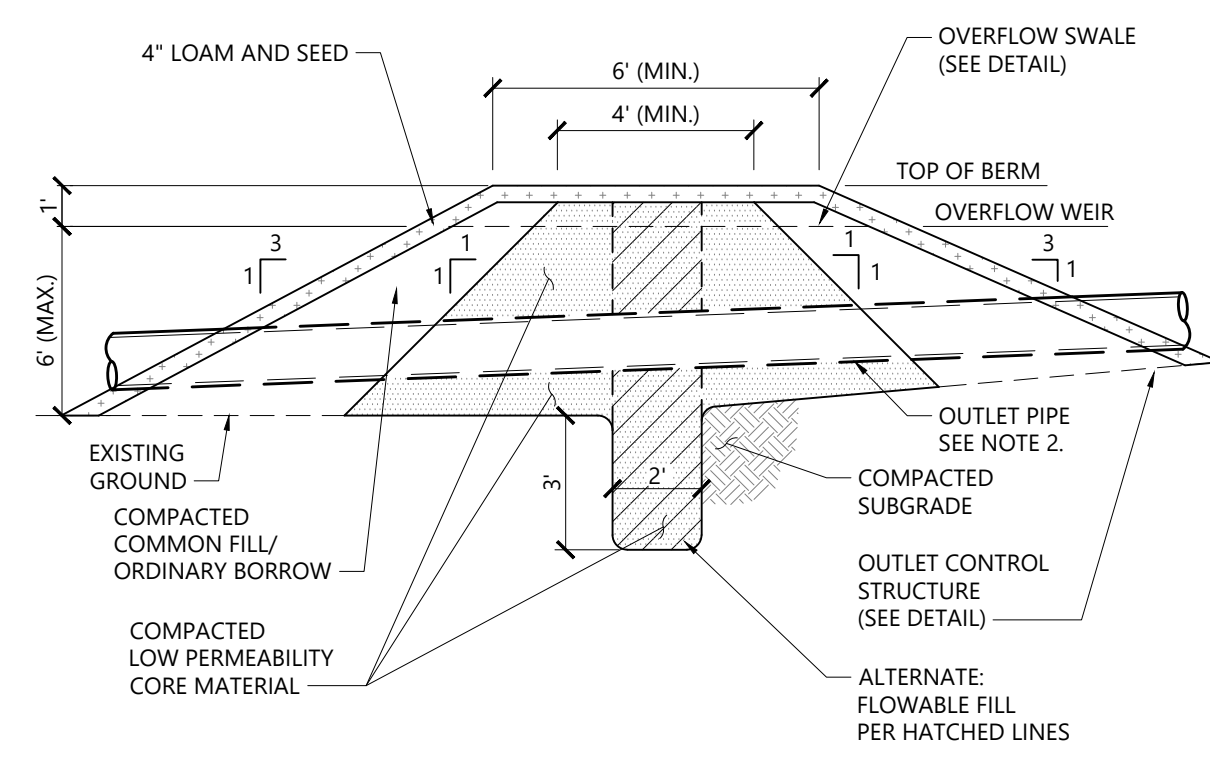
Vegetated Soil Filter (VSF) Detail 2/17
N.T.S. Source: VHB

- NOTES**
- VEGETATED SOIL FILTER REQUIREMENTS PER MAINE DEP CHAPTER 500 AND MAINE STORMWATER MANAGEMENT DESIGN MANUAL VOLUME III LATEST EDITIONS. MINIMUM REQUIREMENTS PER THE DEVELOPMENT
 - DRAIN TIME = 24-48 HOURS, ASSUMES RATE OF 3 INCHES/HOUR.
 - FILTER MEDIA SHALL CONSIST (BY VOLUME) OF:
 - 50% SAND (ASTM C-33 CONCRETE SAND),
 - 20% SANDY LOAM TO FINE SANDY LOAM CONFORMING TO THE FOLLOWING GRADATION:

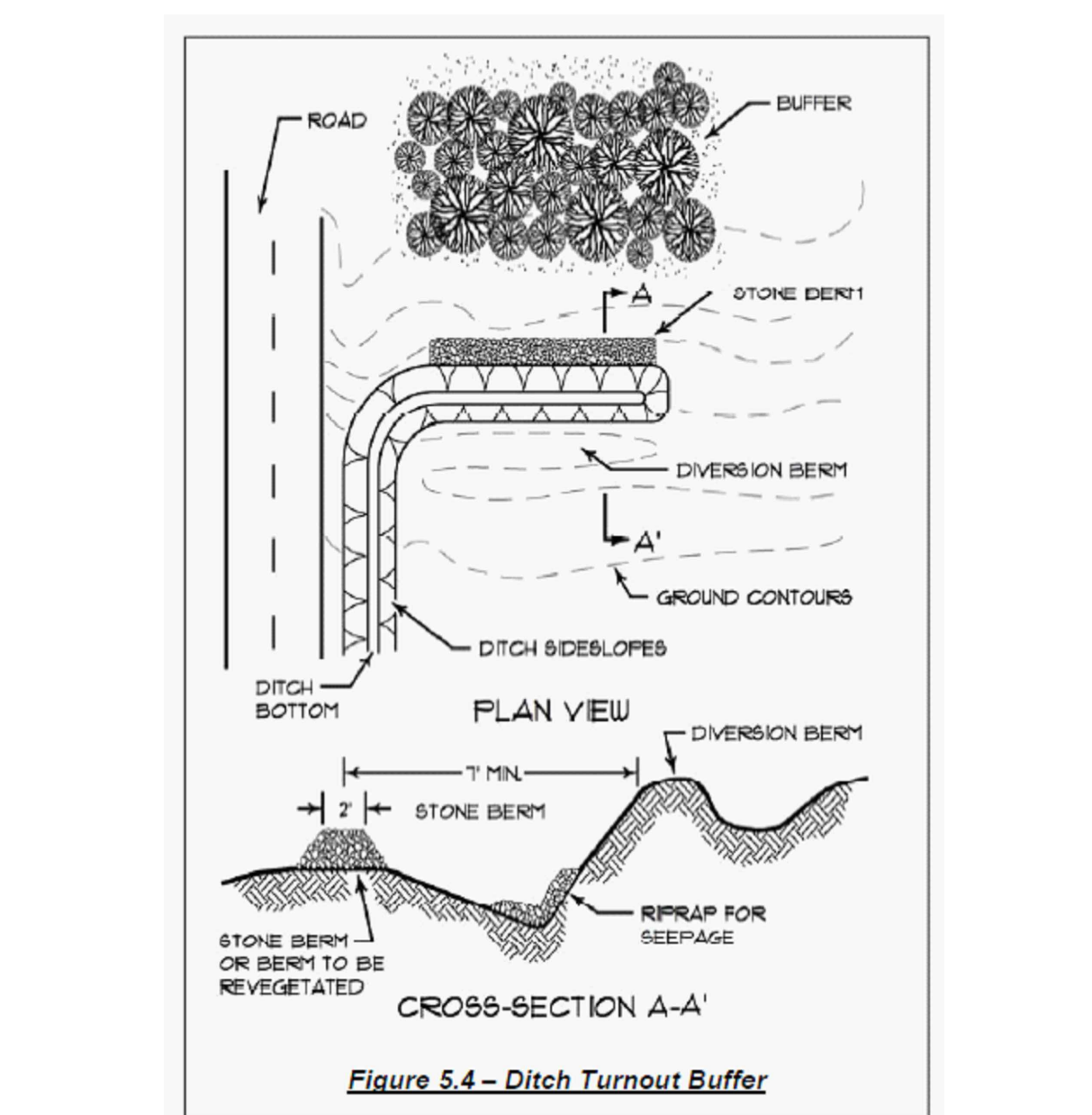
SIEVE (ASTM D422)	PERCENT PASSING BY WEIGHT
NO. 4	75-95
NO. 10	60-90
NO. 40	35-65
NO. 200	20-70
200 (CLAY SIZE)	< 2.0
 - 30% MATURE COMPOSTED WOODY FIBERS AND FINE SHREDDED BARK MULCH, SUPERHUMUS OR EQUIVALENT.
 - RESULTING MIXTURE SHALL HAVE 8% TO 12% PASSING THE NO. 200 SIEVE AND A CLAY CONTENT OF LESS THAN 2%.
 - FILTER MEDIA SHALL BE FIELD TESTED TO INSURE DRAINAGE WITHIN 24 TO 48 HOURS AND HAVE SUFFICIENT FINES TO ENSURE FILTRATION OF FINE PARTICLES. GRADATION SHALL BE ADJUSTED, IF REQUIRED, TO MEET THE REQUIRED DRAIN DOWN TIME. ADJUSTED GRADATIONS AND DRAINAGE TIME SHALL BE SUBMITTED TO DESIGN ENGINEER FOR REVIEW AND APPROVAL.
 - SURFACE AND SIDE SLOPES OF FILTER SHALL BE SEEDED WITH A CONSERVATION TYPE SEED MIX AND MULCHED.
 - PERFORATED UNDERDRAIN PIPE SHALL BE LAID AS SHOWN IN PLAN VIEW, NO GREATER THAN 15' ON CENTER, TO DRAIN THE ENTIRE FILTER AREA.

VEGETATED SOIL FILTER ELEVATION TABLE

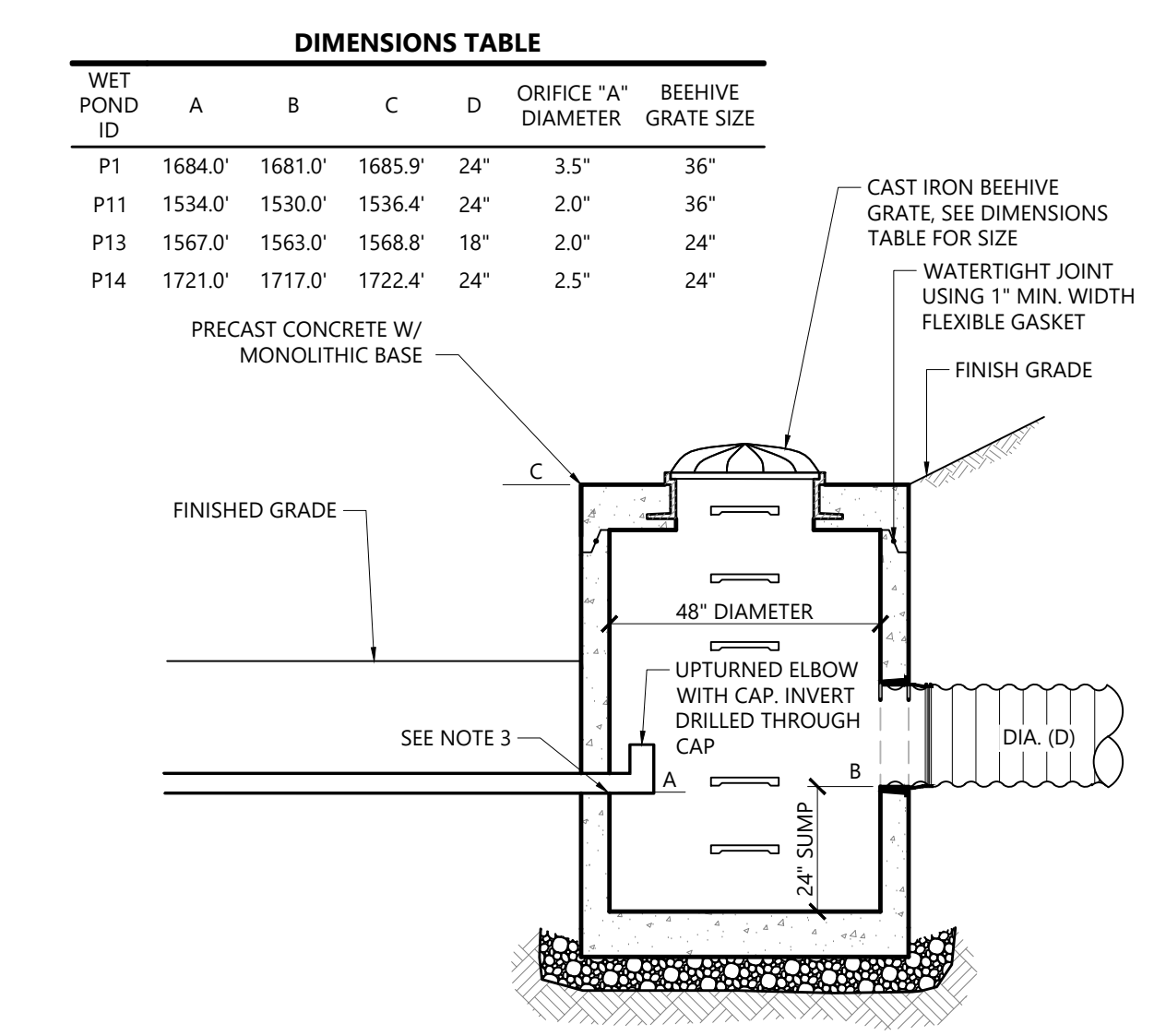
VSF #	A	B	C	D	E
P4	1808.00	1805.80	1805.80	1802.00	1799.33
P5	1838.00	1837.00	1837.00	1834.00	1831.33
P6	1828.00	1827.80	1827.80	1826.00	1823.33
P9	1950.00	1945.80	1945.80	1944.00	1941.33
P12	1474.00	1473.00	1473.00	1469.00	1466.33
P15	2090.00	2088.30	2088.30	2086.00	2083.33
P16	2125.00	2124.00	2124.00	2430.00	2119.33



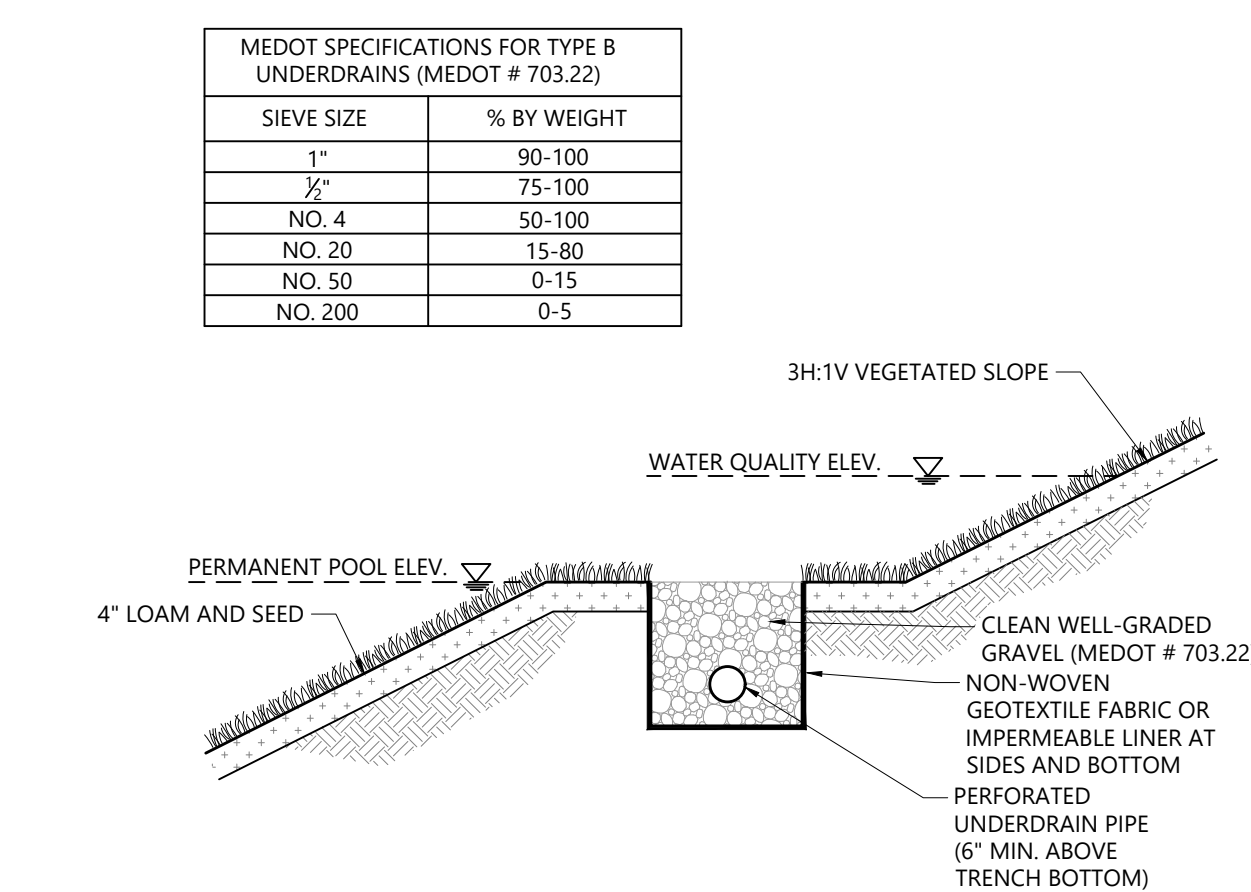
Detention Basin Berm Section 1/16
N.T.S. Source: VHB LD_160



Ditch Turnout Buffer 1/16
N.T.S. Source: MDEP LD_134



Wet Pond Outlet Control Structure 1/16
N.T.S. Source: VHB LD_171



Wet Pond Gravel Bench 1/16
N.T.S. Source: VHB LD_171

DIMENSIONS TABLE

WET POND ID	A	B	C	D	ORIFICE "A" DIAMETER	BEEHIVE GRATE SIZE
P1	1684.0'	1681.0'	1685.9'	24"	3.5"	36"
P11	1534.0'	1530.0'	1536.4'	24"	2.0"	36"
P13	1567.0'	1563.0'	1568.8'	18"	2.0"	24"
P14	1721.0'	1717.0'	1722.4'	24"	2.5"	24"

MEDOT SPECIFICATIONS FOR TYPE B UNDERDRAINS (MEDOT # 703.22)

SIEVE SIZE	% BY WEIGHT
1"	90-100
2"	75-100
NO. 4	50-100
NO. 20	15-80
NO. 50	0-15
NO. 200	0-5

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

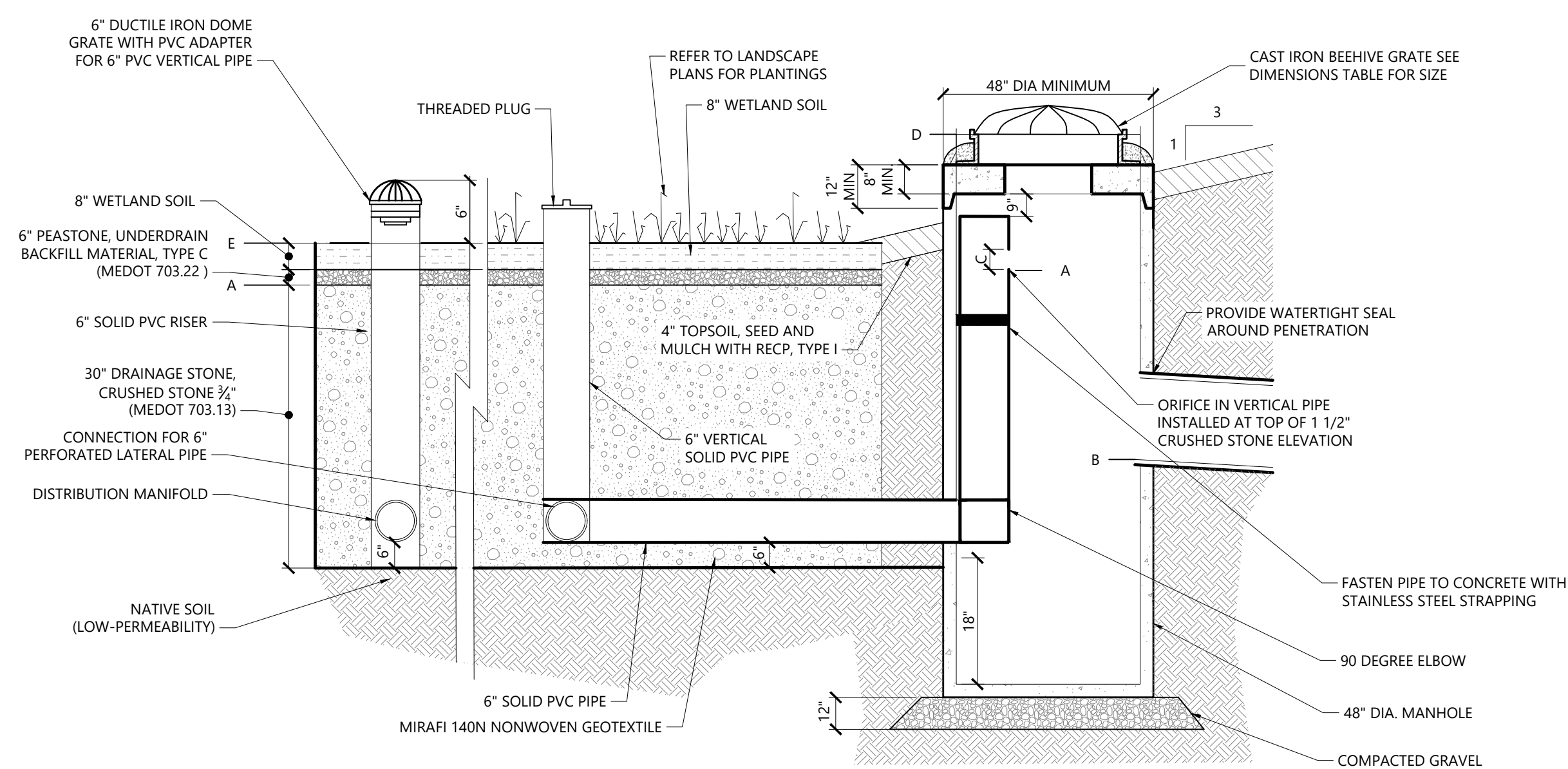
Designed by: **RWN** Checked by: **PS**
Issued for: Review Date: **April 29, 2022**

Not For Construction
Drawing Title: **Stormwater Details**

STATE OF MAINE
PETER B. SMAR
No. 16894
LICENSED PROFESSIONAL ENGINEER

C-1.06

Sheet 62 of 63
Project Number: 55310.01



GW #	A	B	C	D	E	Beehive Grate Size
P2	1746.66	1746.00	1" Ø	1749.00	1747.00	24" Ø
P3	1750.66	1750.00	1" Ø	1754.60	1752.50	24" Ø
P7	1878.66	1878.00	1" Ø	1882.00	1879.00	24" Ø
P8	1932.66	1932.00	1" Ø	1935.50	1933.00	24" Ø
P10	1977.66	1977.00	1" Ø	1983.00	1978.00	30" Ø
P17	1874.66	1874.00	1" Ø	1877.70	1875.00	24" Ø

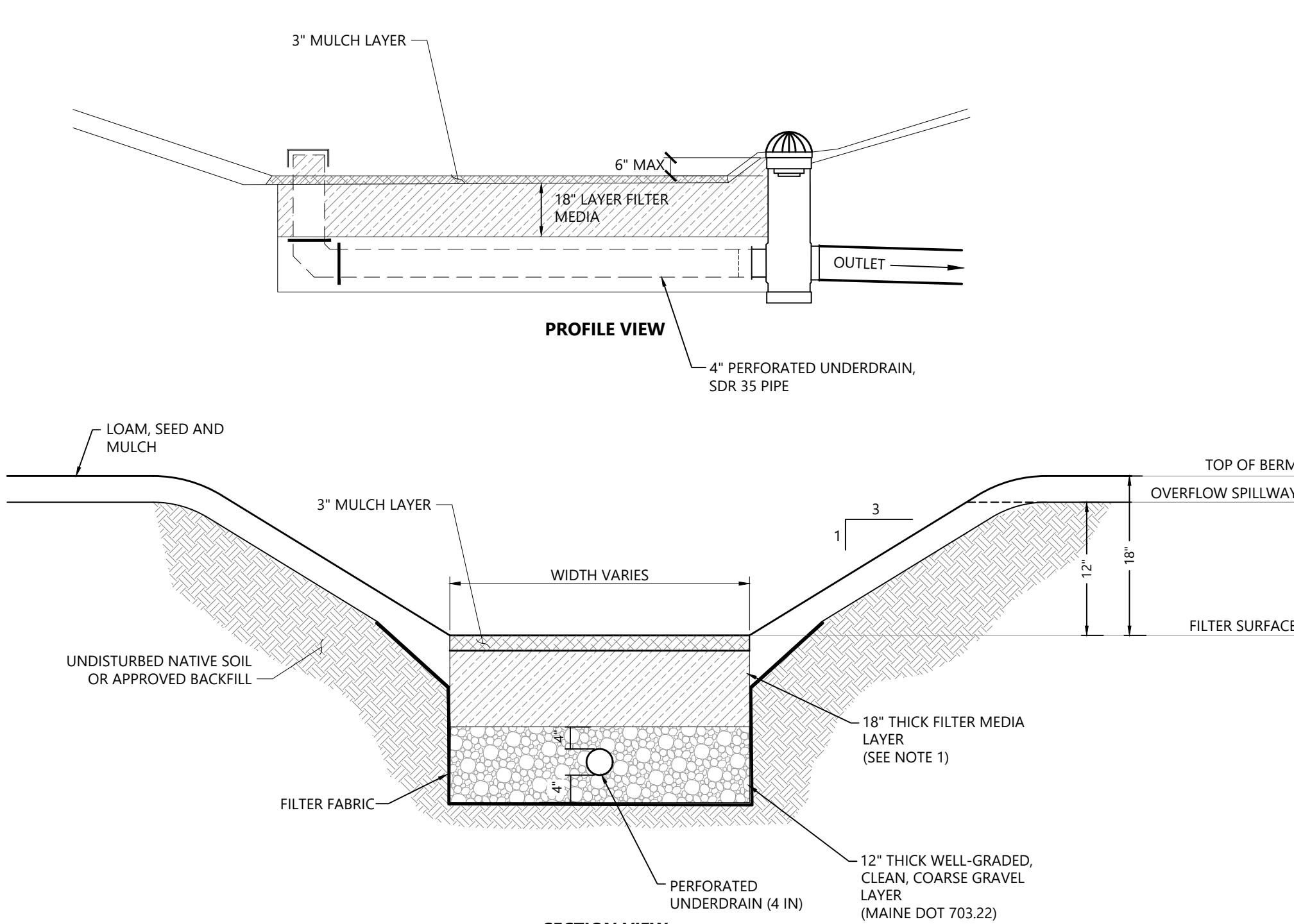
GRAVEL WETLAND TYPICAL

Gravel Wetland (Single Bay)

N.T.S. Source: VHB 10/21 LD_VT

RAIN GARDEN ELEVATION TABLE

Lot ID	Rain Garden ID	Max Impervious Surface (SF)	Max Landscape Area - Lawn (SF)	Max Total Drainage Area (SF)	Min. Filter Surface Area (SF)	Orifice Diameter (in.)	WQv (CF)
R1	RG 1	10,000	20,700	30,700	1,321	1	1,523
R2	RG 2	10,000	20,700	30,700	1,321	1	1,523
R3	RG 3	7,000	10,000	17,000	790	1	917
R4	RG 4	7,000	10,000	17,000	790	1	917
R6	RG 6	7,000	10,000	17,000	790	1	917
R7	RG 7	7,000	10,000	17,000	790	1	917
R8	RG 8	7,000	10,000	17,000	790	1	917
R9	RG 9	7,000	10,000	17,000	790	1	917
R10	RG 10	7,000	10,000	17,000	790	1	917
R11	RG 11	7,000	10,000	17,000	790	1	917
R12	RG 12	10,000	20,700	30,700	1,321	1	1,523
R13	RG 13	10,000	20,700	30,700	1,321	1	1,523
R14	RG 14	13,000	24,000	37,000	1,630	1	1,883
R15	RG 15	13,000	24,000	37,000	1,630	1	1,883
R16	RG 16	13,000	24,000	37,000	1,630	1	1,883
R17	RG 17A	15,250	28,300	43,550	1,917	1	2,214
R17	RG 17B	15,250	28,300	43,550	1,917	1	2,214
R18	RG 18	13,000	24,000	37,000	1,630	1	1,883
R19	RG 19	13,000	24,000	37,000	1,630	1	1,883
R20	RG 20	13,000	24,000	37,000	1,630	1	1,883
R21	RG 21	10,000	20,700	30,700	1,321	1	1,523
R22	RG 22	10,000	20,700	30,700	1,321	1	1,523
R23	RG 23	10,000	20,700	30,700	1,321	1	1,523
R24	RG 24	13,000	24,000	37,000	1,630	1	1,883
R25	RG 25	7,000	10,000	17,000	790	1	917
R26	RG 26	7,000	10,000	17,000	790	1	917
R27	RG 27	7,000	10,000	17,000	790	1	917
R28	RG 28	7,000	10,000	17,000	790	1	917
R29	RG 29	7,000	10,000	17,000	790	1	917
R30	RG 30	7,000	10,000	17,000	790	1	917
R31	RG 31	10,000	20,700	30,700	1,321	1	1,523
R32	RG 32	10,000	20,700	30,700	1,321	1	1,523
R33	RG 33	7,000	10,000	17,000	790	1	917
R34	RG 34	7,000	10,000	17,000	790	1	917
R35	RG 35	7,000	10,000	17,000	790	1	917
R36	RG 36	7,000	10,000	17,000	790	1	917
R37	RG 37	7,000	10,000	17,000	790	1	917
R38	RG 38	10,000	20,700	30,700	1,321	1	1,523
R39	RG 39	10,000	20,700	30,700	1,321	1	1,523
R40	RG 40	10,000	20,700	30,700	1,321	1	1,523
R41	RG 41	7,000	10,000	17,000	790	1	917
R42	RG 42	10,000	20,700	30,700	1,321	1	1,523
R43	RG 43	10,000	20,700	30,700	1,321	1	1,523
R44	RG 44	10,000	20,700	30,700	1,321	1	1,523
R45	RG 45	10,000	20,700	30,700	1,321	1	1,523
R46	RG 46	10,000	20,700	30,700	1,321	1	1,523
R47	RG 47	10,000	20,700	30,700	1,321	1	1,523
R48	RG 48	10,000	20,700	30,700	1,321	1	1,523
R49	RG 49	10,000	20,700	30,700	1,321	1	1,523
R50	RG 50	10,000	20,700	30,700	1,321	1	1,523
R51	RG 51	7,000	10,000	17,000	790	1	917
R52	RG 52	7,000	10,000	17,000	790	1	917



NOTES

- RAINGARDEN REQUIREMENTS PER MAINE DEP CHAPTER 500 AND MAINE STORMWATER MANAGEMENT DESIGN MANUAL VOLUME III, LATEST EDITIONS. MINIMUM REQUIREMENTS PER THE DEVELOPMENT:
 - DRAIN TIME = 24-48 HOURS. ASSUMES RATE OF 3 INCHES/HOUR.
- FILTER MEDIA SHALL CONSIST (BY VOLUME) OF:
 - 70-80% COARSE LOAMY SAND, MEETING THE FOLLOWING GRADATION:

SIEVE (ASTM D422)	PERCENT PASSING BY WEIGHT
NO. 10	85-100
NO. 20	70-100
NO. 60	15-40
NO. 200	8-10
 - 20-30% MULCH, MODERATELY FINE, SHREDDED BARK OR WOOD FIBER MULCH WITH LESS THAN 5% PASSING THE NO. 200 SIEVE.
 - RESULTING MIXTURE SHALL HAVE NO MORE THAN 10% PASSING THE NO. 200 SIEVE.
 - FILTER MEDIA SHALL BE FIELD TESTED TO INSURE DRAINAGE WITHIN 24 TO 48 HOURS AND HAVE SUFFICIENT FINES TO ENSURE FILTRATION OF FINE PARTICLES. GRADATION SHALL BE ADJUSTED, IF REQUIRED, TO MEET THE REQUIRED DRAW DOWN TIME. ADJUSTED GRADATIONS AND DRAINAGE TIME SHALL BE SUBMITTED TO DESIGN ENGINEER FOR REVIEW AND APPROVAL.
- SURFACE AND SIDE SLOPES OF FILTER SHALL BE SEEDED WITH A CONSERVATION TYPE SEED MIX AND MULCHED.
- PERFORATED UNDERDRAIN PIPE SHALL BE LAID AS SHOWN IN PLAN VIEW, NO GREATER THAN 15" ON CENTER, TO DRAIN THE ENTIRE FILTER AREA.
- MINIMUM FILTER BED SURFACE SHALL BE 7% OF THE CONTRIBUTING IMPERVIOUS AREA PLUS 3% OF THE CONTRIBUTING LANDSCAPING AREA.
- MAXIMUM CONTRIBUTING AREA TO ANY SINGLE RAINGARDEN = 1 ACRE.
- RUNOFF FROM OFFSITE DRAINAGE AREAS SHALL BE DIVERTED AROUND THE FILTER.
- AVOID COMPACTING UNDERDRAIN BEDDING AND SOIL FILTER MEDIA DURING CONSTRUCTION. OVER-COMPACTED SOILS WILL NOT ALLOW PROPER WATER MIGRATION THROUGH THE SOIL SECTION; FILTER BEDS ARE INTENDED TO DRAIN DRY WITHIN 24 HOURS.
- ALL DEVELOPED AREA ON THE LOT MUST DRAIN TO A RAIN GARDEN. PROVIDE ONE FILTER FOR THE LOT WITH THE TOTAL AREA NOTED, OR SPLIT THE AREA INTO MULTIPLE SMALLER GARDENS. SHAPES CAN VARY TO ACCOMMODATE NATIVE TERRAIN AND/OR LANDSCAPING.
- EACH HOMEOWNER OF A LOT THAT REQUIRES A RAIN GARDEN MUST CHOOSE BETWEEN A GRASSED GARDEN OR A PLANTED GARDEN. SEE NOTES TO RIGHT.
- CONSTRUCT FILTER SUCH THAT BERM IS NO MORE THAN 18" ABOVE THE MULCH SURFACE.
- UNDERDRAIN GRANULAR MATERIAL SHALL BE WELL GRADED, CLEAN, COARSE GRAVEL MEETING THE MEDOT SPECIFICATION 703.22 UNDERDRAIN TYPE B FOR UNDERDRAIN BACKFILL SIEVE (ASTM D422)

SIEVE (ASTM D422)	PERCENT PASSING BY WEIGHT
1"	90-100
2"	75-100
NO. 4	50-100
NO. 20	15-80
NO. 50	0-15
NO. 200	0-5
- UNDERDRAINS SHALL MAINTAIN A MINIMUM OF 1% FOR POSITIVE DRAINAGE.

Rain Garden (RG) Detail

N.T.S. Source: VHB 2/17

**Sugarloaf Mtn Corp
West Mountain
Expansion**

5092 Access Road
Carrabasset Valley, ME 04947

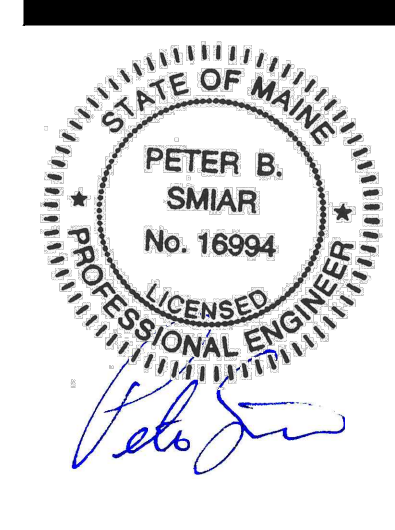
No. Revision Date App'd.

Designed by: **RWN** Checked by: **PS**

Issued for: Review Date: April 29, 2022

Not For Construction

Stormwater Details



C-1.07

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Project Number 55310.01