Three Rivers Solar Power, LLC
MEDEP Site Location of Development Application
Section 12. STORMWATER MANAGEMENT



12.0 STORMWATER MANAGEMENT

Acheron Engineering Services (Acheron) has developed a comprehensive stormwater management and control plan for the Three Rivers Solar Power Project.

The Stormwater Management Plan addresses each approval criterion set forth in Section 12, Stormwater Management of the State of Maine, Department of Environmental Protection, Site Location of Development (38 MRSA §§481-490) Permit Application. The stormwater control plan focuses on minimizing permanent impacting areas within the project area and incorporates appropriate Best Management Practices (BMPs) into the project design to minimize concentration of stormwater flows at the project site. See Exhibit 12-1 for the full stormwater management plan and erosion and sedimentation control plan.

Three Rivers Solar Power, LLC
MEDEP Site Location of Development Application
Section 12. STORMWATER MANAGEMENT



Exhibit 12-1

Three Rivers Solar Stormwater Management Plan



STORMWATER MANAGEMENT PLAN

Submitted by:

THREE RIVERS SOLAR POWER **TOWNSHIP 16 MD BPP** HANCOCK COUNTY, MAINE

Prepared by:

Acheron Engineering Services

147 Main Street

24466 Powell Road Newport, Maine 04953 Brooksville, Florida 34602 (207) 368-5700 (352) 796-6236



DATE:

OCTOBER, 2019

This Stormwater Management Plan addresses each approval criterion set forth in Section 12, Stormwater Management of the State of Maine, Department of Environmental Protection, Site Location of Development (38 MRSA §§481-490) Permit Application.

1.0 Development Description

Location: Three Rivers Solar Power, LLC proposes to develop a 100 megawatt utility scale solar facility located in Township 16MD, BPP, Hancock County, Maine (Project). The project parcel is approximately 1,115 acres in size. 696 acres within the parcel has recently been rezoned allowing utility scale solar projects and is considered the Project Area. Please refer to the Appendix E for site plans for parcel and project area configurations and Appendix A for site location map.

Land Cover & General Topography: The Project Area is considered undeveloped land containing a mixture of forestland and agricultural field with several intersecting gravel agricultural and forestry access roads. Most of the forestland appears to have been harvested within the past 10 years, however, some harvests appear older than that. The area contains several topographic "hills" that are dominated by well and moderately well drained glacial till and glacial outwash sediments. Within the Project area are six individual areas have been selected for the installation of solar panels, associated equipment and substation. The six solar fields total approximately 465 acres.

<u>Surface Waters:</u> Surface waters within the Project Area includes; scrub-shrub, isolated forested and emergent wetlands along with three unnamed streams. Surface water abutting the site include West Branch Narraguagus River and Colson Branch. Please see the Protected Natural Resource report prepared by Atlantic Resources for specific details.

Downstream Ponds or Lakes and Flooding: There are no downstream ponds or lakes from the Project. In addition, there are no known areas, buildings or facilities that historically flood or will be affected by stormwater runoff from the Project. Natural drainage ways will not be altered by the Project.

Alterations to Land Cover: Proposed areas that will be stripped, regraded and not revegetated included; approximately 7.1 acres of existing gravel roads and approximately, 1.8 acres to support the construction of the substation, 0.3 acres for inverters and 0.1 acres of support posts. Roads within the project area will remain gravel or be revegetated. Up to the time of filing the application, the six areas to house the project have been cleared of trees and approximately 100 acres have been destumped and boulders removed for the cultivation of wild blueberries. Once all approvals from regulatory agencies have been obtained, preparing the land cover for the cultivation of blueberries for the remaining 365 acres will restart. Land cover will be converted to allow the wild blueberries

to take hold prior to the installation of solar panels or equipment in the remaining 365 acres. Based on this information, the Basic, General and Flooding standards apply to the project.

<u>Assumptions:</u> To evaluate the Project impact to peak runoff rates from the parcel, the following assumptions were made:

- All forestry and agricultural activities within the parcel occurred after October 1, 1975 and the preexisting land cover in the project area is considered wooded, with a hydraulic condition of good.
- Once developed, the land cover within the solar field is considered brush with a hydraulic condition of good.
- Roads that exist within the project area are gravel with a CN value of 96 soil conditions.
- Concrete pads for inverters and substation equipment are considered impervious with a CN value of 98 for all HSG soils.
- Cross sectional area for panel support posts is considered impervious with a CN value of 98 for all HSG soils.
- The crushed stone surface within the substation area is considered to have a CN value of 55 for HSG soils A, B & C and 60 for HSG D soils.
- Runoff curve number based on; Table 2-2c found in Urban Hydrology for Small Watersheds, TR-55 and Department approved cure values for substations and switchyards.

<u>Water Quantity Control (Flooding Standard):</u> To evaluate the potential change in peak stormwater runoff and the need for control methods, the pre and post combined runoff curves for each of the six solar fields were calculated. Results can be found in the following table:

Table 1								
Solar Field Combined Curve Number Valuves								
CN								
		Post						
	Preexisting	Development						
Solar Field	Condition	Condition						
1	65	60						
2	69	64						
3	69	65						
4	73	68						
5	76	72						
6	72	64						

Results show that the post development condition CN value for each of the development areas is less than the preexisting condition. Based on these results and the fact that the project only

includes minimal topography change, the peak runoff from the parcel will be less in the post development condition, meeting the flooding standard. Please see Section 4.0 Flooding Standard Submission and plan sheet C-2 for detailed calculations.

Water Quality Treatment (General Standards): Per Chapter 500, the project stormwater management plan must provide treatment of no less than 95% of the impervious area and 80% of the developed area. For the linear portion of the project, this plan applies exemption 5(c) Linear portion of the project, where 75% of the impervious area must be treated. How this standard is met is described below.

Linear Portion of the Project: Approximately 43,900 feet (16.1 acres) of gravel roads were constructed within the project boundary to support past timber and agricultural activities. One road within the project boundary is used by the general public for timber harvesting, wind farm access and a thoroughfare between the towns of Eastbrook and Deblois and is identified as Road "A" on attached plans. Due to its current and past use, Road "A" has been excluded from stormwater treatment calculations. Road "A" is approximately 7,100 ft (2.6 acres). In addition, 17,400 feet (6.4 acres) of existing road are not needed to support the project and will be revegetated. The remaining 19,400 feet (7.1 acres) will be regraded to obtain a treatment level of 76%. Meadows or forested buffers adjacent to the side of a road are utilized to meet the treatment requirement. Please refer to the General Standards Submission Section and attached plans for specific details.

Nonlinear Portion of the Project: Nonlinear portion of the project includes, solar panel support post (0.10 acres), inverter pads (0.31 acres) and the substation (3.9 acres). Developed and impervious area associated with solar panel support posts and inverters pads are considered self-buffering meeting the general standards. Developed and impervious area associated with the substation has been designed to meet a treatment level of 100% of the impervious and 87% of the developed. The developed area includes the crushed stone area, concrete equipment foundations, access drive, buildings, ditch and swale. The crushed stone area soil profile includes 6-inches of crushed stone (50:50 mix of 1.5" and 34") overlaying 18" of MDOT Type A gravel. This profile will detain and provide treatment meeting the General standards. Treatment for the remaining developed, including impervious is provided by a meadow buffer with stone bermed level lip spreader.

2.0 Basic Standard Submission

Erosion and sedimentation control plan details and notes can be found on the design plans located in Appendix E. See Appendix B for the Erosion & Sedimentation Control Inspection and Maintenance Plan. A site location Plan is included in Appendix B.

3.0 General Standards Submission

Narrative: Please refer to Section 1.0 Project Description for a description of site layout and hydrology. The flowing table details of disturbed, developed and impervious area associated with the project.

	Table 2								
			F	Project Area S	Summary				
	Surface area Area of Area of Substation Substation								
	Disturbed Area	of Panels	Posts	Roads	Inverter pads	Impervious	area		
Description	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Notes	
Field 1	329.3	68.90	0.06	4.5	0.21	N/A	N/A	Roads: L ,J ,I, H	
Field 2	38.9	7.57	0.01	0.7	0.03	N/A	N/A	Roads: F & G	
Field 3	32.6	6.73	0.01	1.7	0.03	N/A	N/A	Roads: B	
Field 4	10.7	2.17	0.00	0.0	0.01	N/A	N/A		
Field 5	14.1	2.89	0.00	0.1	0.02	N/A	N/A	Roads: D	
Field 6	39.5	7.28	0.01	0.0	0.02	0.16	3.92		
Totals	465.10	95.53	0.09	7.13	0.31	0.16	3.92		
	Total Disturbed	465.10	acres						
	Total Developed	11.61	acres						
	Total Impervious	7.69	acres						

Nonlinear Portion of the Project: The nonlinear portion of the project is design to meet treatment level of at least 95% of the impervious and 80% of the developed area. These areas are specifically the area associated with the solar panel support posts, concrete inverter locations and the substation. Support post and inverters are located with in the solar fields and are considered self-buffering and achieve treatment levels of 100% of the developed area and 100% of the impervious area. Treatment for the impervious and developed area for the substation is provided by a meadow buffer with stoned bermed level spreader and the soil profile of the substation foot print. An 81-foot level spreader that discharged to a 150-foot-long meadow buffer provides treatment for the impervious area within the substation and the landscaped area associated with regrading the area. The soil profile of 6" of crushed stone, 50:50 mix of 1.5" & 34" stone over 18" of MDOT Type A gravel. Provides treatment for the non-impervious area within the footprint of the substation. Seasonal high groundwater table has been determined to

Table 3										
	Substation Stormwater Treatment Table									
Proposed Area (SF) Amout of Area Treated (SF)										
Description	Developed	Impervious	Developed	BMP	Impervious	BMP				
Substaion Foot Print (480' x 250')	120,000	6,932	113,068	Stone & Gravel Base	6,932	Meadow Buffer				
Regraded Area	50,645	0	35,928	Meadow Buffer	0	Meadow Buffer				
Totals	170,645	6,932	148,996		6,932					
Precent of Developed Area Treated	87%									
Precent of Impervious Area Treated	100%									
Note: Regraded Gravel Access Part of	Linear Portion o									

be greater than 2-feet below finish grade within the footprint of the substation. Table 3 provide a summary of the treatment calculations for the substation development.

Refer to Appendix C for soil test pit logs for all buffers and soils survey report for test pit logs within the footprint of the substation. Calculations for level length can be found on plan sheet C-7. Below is a photo of the proposed substation buffer.



Photo: Substation Buffer Location

Linear Portion of the Project: Roads identified that required treatment include; Roads B, D, F, G, H, I, J and L. Please refer to plan sheet C-1 for the specific location of each road. Each of the roads will be regraded so the road surface is super elevated promoting stormwater to flow from the full width of road surface directly to meadows or forested buffers adjacent to the side of a road. Attached plan sheets C-6, C-7, & C-8, provide road stationing, direction of super elevation, and location of each buffer. Table 3 is a summary of treatment level calculations for each road and demonstrates that as designed, the linear portion of the project achieves a treatment level of 76%. Proposed deed restriction language is provided in Appendix D. Test pitting was performed by Atlantic Resources Co, to confirm that buffers are not within wetland soils. Please see Appendix C for test pit logs.

The following photograph was taken of Buffer H2 in Field #1 where stumps and boulders have been removed and blueberry growth has been established. The land cover shown will be typical of all meadow buffers proposed.



Photo: Meadow Buffer H2

The following photo is of forested buffer D1 and is typical of all forested buffers.



Photo: Forested Buffer D1

Table 4					
Linear Portion of the Project					
Stormwater Treatment					

Decription	Impervious Area (acres)	Area Treated (acres)	Percent of Area Treated	Stormwater BMP	Description
				Meadow Buffers, B3 through B8	
Road-B	1.75	1.20	69	Forested Buffer, B1, B2, B9 and B10	Road connects, Solar Fields 1,3, 4 & 6
Road-D	0.14	0.04	29	Forested Buffer, D1	Road to Solar Field 5
Road-F	0.54	0.37	69	Meadow Buffers, F1 through F4	Road for Solar Field 2
Road-G	0.17	0.11	65	Meadow Buffers, G1 and G2	Road for Solar Field 2
Road-H	1.44	1.13	78	Meadow Buffers, H1 through H10	Road for Solar Field 1
Road-I	1.26	1.14	90	Meadow Buffers, I1 through I5	Road for Solar Field 1
Road-J	1.38	1.09	79	Meadow Buffers, J1 through J8	Road for Solar Field 1
Road-L	0.44	0.33	75	Forested Buffer, L1 through L3	Road for Solar Field 1
Total	7.12	5.41	76%		

4.0 Flooding Standards Submission:

The following calculation tables support the conclusion that the peak runoff from the project will be less in the post condition by change of landcover associated with the project:

		Solar Field #1			
	Pre Sit	e Law	Prop	osed	
	Area		Area		
Area Description	(acres)	CN	(acres)	CN	
Woods, Hyd Condition - Good, HSG-A	16.05	34			
Woods, Hyd Condition - Good, HSG-B	79.54	55			
Woods, Hyd Condition - Good, HSG-C	200.85	70			
Woods, Hyd Condition - Good, HSG-D	32.86	77			
Brush, Hyd Condition - Good, HSG-A			16.05	30	
Brush, Hyd Condition - Good, HSG-B			79.54	48	
Brush, Hyd Condition - Good, HSG-C			196.04	65	
Brush, Hyd Condition - Good, HSG-D			32.86	73	
Gravel Roads, Hyd Condition - Good, HSG - A, B, C, & D			4.53	96	
Concrete, Hyd Condition - Good, HSG - A, B, C, & D			0.21	98	
Support Posts, Hyd Condition - Good, HSG - A, B, C, & D			0.06	98	
Substation, Hyd Condition - Good, HSG - A, B, & C			0.00	55	
Total	329.30	_	329.30		
Weighted Average		65		60	

	Solar Field #2				
	Pre Sit	e Law	Prop	osed	
	Area		Area		
Area Description	(acres)	CN	(acres)	CN	
Woods, Hyd Condition - Good, HSG-A					
Woods, Hyd Condition - Good, HSG-B	3.69	55			
Woods, Hyd Condition - Good, HSG-C	34.92	70			
Woods, Hyd Condition - Good, HSG-D	0.29	77			
Brush, Hyd Condition - Good, HSG-A					
Brush, Hyd Condition - Good, HSG-B			3.69	48	
Brush, Hyd Condition - Good, HSG-C			34.18	65	
Brush, Hyd Condition - Good, HSG-D			0.29	73	
Gravel Roads, Hyd Condition - Good, HSG - A, B, C, & D			0.71	96	
Concrete, Hyd Condition - Good, HSG - A, B, C, & D			0.03	98	
Support Posts, Hyd Condition - Good, HSG - A, B, C, & D		•	0.01	98	
Substation, Hyd Condition - Good, HSG - A, B, & C		•	0.00	55	
Total	38.90		38.90		
Weighted Average		69		64	

		Solar Field #3			
	Pre Sit	e Law	Prop	osed	
	Area		Area		
Area Description	(acres)	CN	(acres)	CN	
Woods, Hyd Condition - Good, HSG-A	2.82	34			
Woods, Hyd Condition - Good, HSG-B	0.00	55			
Woods, Hyd Condition - Good, HSG-C	18.04	70			
Woods, Hyd Condition - Good, HSG-D	11.74	77			
Brush, Hyd Condition - Good, HSG-A			2.82	30	
Brush, Hyd Condition - Good, HSG-B			0.00	48	
Brush, Hyd Condition - Good, HSG-C			18.04	65	
Brush, Hyd Condition - Good, HSG-D			11.74	73	
Gravel Roads, Hyd Condition - Good, HSG - A, B, C, & D			0.00	96	
Concrete, Hyd Condition - Good, HSG - A, B, C, & D			0.00	98	
Support Posts, Hyd Condition - Good, HSG - A, B, C, & D			0.00	98	
Substation, Hyd Condition - Good, HSG - A, B, & C			0.00	55	
Tota	1 32.60		32.60		
Weighted Average	9	69		65	

	Solar Field #4				
	Pre Sit	e Law	Prop	Proposed	
	Area		Area		
Area Description	(acres)	CN	(acres)	CN	
Woods, Hyd Condition - Good, HSG-A					
Woods, Hyd Condition - Good, HSG-B	2.12	55			
Woods, Hyd Condition - Good, HSG-C	-0.01	70			
Woods, Hyd Condition - Good, HSG-D	8.59	77			
Brush, Hyd Condition - Good, HSG-A					
Brush, Hyd Condition - Good, HSG-B			2.12	48	
Brush, Hyd Condition - Good, HSG-C			-0.02	65	
Brush, Hyd Condition - Good, HSG-D			8.59	73	
Gravel Roads, Hyd Condition - Good, HSG - A, B, C, & D			0.00	96	
Concrete, Hyd Condition - Good, HSG - A, B, C, & D			0.01	98	
Support Posts, Hyd Condition - Good, HSG - A, B, C, & D			0.00	98	
Substation, Hyd Condition - Good, HSG - A, B, & C			0.00	55	
Total	10.70		10.70		
Weighted Average		73		68	

	Solar Field #5			
	Pre Sit	e Law	Prop	osed
	Area		Area	
Area Description	(acres)	CN	(acres)	CN
Woods, Hyd Condition - Good, HSG-A				
Woods, Hyd Condition - Good, HSG-B	0.00	55		
Woods, Hyd Condition - Good, HSG-C	2.95	70		
Woods, Hyd Condition - Good, HSG-D	11.15	77		
Brush, Hyd Condition - Good, HSG-A				
Brush, Hyd Condition - Good, HSG-B			0.00	48
Brush, Hyd Condition - Good, HSG-C			2.79	65
Brush, Hyd Condition - Good, HSG-D			11.15	73
Gravel Roads, Hyd Condition - Good, HSG - A, B, C, & D			0.14	96
Concrete, Hyd Condition - Good, HSG - A, B, C, & D			0.02	98
Support Posts, Hyd Condition - Good, HSG - A, B, C, & D			0.00	98
Substation, Hyd Condition - Good, HSG - A, B, & C			0.00	55
Total	14.10		14.10	
Weighted Average		76		72

		Solar Field #6			
	Pre Site Law Area (acres) CN (acres) 2.98 55 21.52 70 15.00 77		Prop	osed	
	Area		Area		
Area Description	(acres)	CN	(acres)	CN	
Woods, Hyd Condition - Good, HSG-A					
Woods, Hyd Condition - Good, HSG-B	2.98	55			
Woods, Hyd Condition - Good, HSG-C	21.52	70			
Woods, Hyd Condition - Good, HSG-D	15.00	77			
Brush, Hyd Condition - Good, HSG-A					
Brush, Hyd Condition - Good, HSG-B			2.98	48	
Brush, Hyd Condition - Good, HSG-C			17.58	65	
Brush, Hyd Condition - Good, HSG-D			15.00	73	
Gravel Roads, Hyd Condition - Good, HSG - A, B, C, & D			0.00	96	
Concrete, Hyd Condition - Good, HSG - A, B, C, & D			0.01	98	
Support Posts, Hyd Condition - Good, HSG - A, B, C, & D			0.02	98	
Substation, Hyd Condition - Good, HSG - A, B, & C			3.92	55	
Total	39.50		39.50		
Weighted Average		72		60	

5.0 Plan Summary:

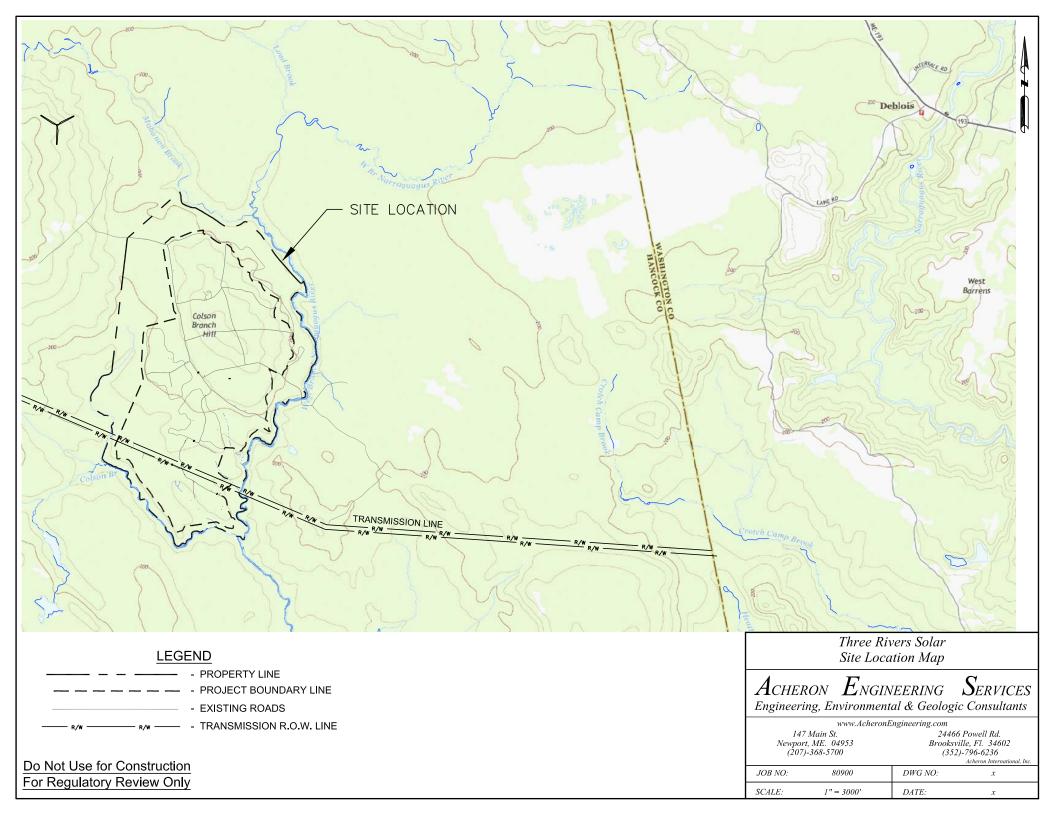
Below is a summary of how the project meets the State stormwater standards as designed:

Basic Standard: As submitted, construction activity associated with the project, will not impede or otherwise alter drainageways so as to have an unreasonable adverse impact on a wetland or waterbody, or an adjacent downslope parcel. Project plans includes details and specifications for erosion control measures. Including temporary stabilization, mulch, buffers, stormwater channels and winter construction. The attached, Erosion and Sedimentation Control, Inspection and Maintenance Plan, provides detail inspection, maintenance and housekeeping procedures.

General Standards: As design the project provides stormwater treatment for 100% of the substation impervious area and 87% of the developed. BMPs designed to achieve the treatment level includes; A 150-foot long meadow buffer, with level spreader and the substation gravel/crushed stone subbase profile. In addition, the project will meet a treatment level of 76% of the linear portion of the project, by revegetating existing gravel roads and regrading project roads to sheet flow to downgradient meadow buffers.

Flooding Standard: The change of land cover within the development area, from forested that predated the Site Location of Development Act to brush dominated by wild blueberries, effectively reduces the peak stormwater runoff rates form the project site. Meeting the flooding standard.

Appendix A Site Location Plan



Appendix B Erosion & Sedimentation Control Inspection & Maintenance Plan



EROSION AND SEDIMENTATION CONTROL INSPECTION AND MAINTENANCE PLAN

Submitted by:

THREE RIVERS SOLAR POWER

TOWNSHIP 16 MD BPP HANCOCK COUNTY, MAINE

Prepared by:

Acheron Engineering Services

147 Main Street Newport, Maine 04953 (207) 368-5700

24466 Powell Road Brooksville, Florida 34602 (352) 796-6236

DATE:

OCTOBER, 2019

1.0 Introduction

The purpose of this plan is to establish an inspection and maintenance process to employ during construction of the project and is intended to meet the requirements set forth in Chapter 500, Section 4(B) of the Stormwater Management Rules. The following section includes:

- A description of the project.
- Responsible parties for implementing the plan.
- Inspection and maintenance procedures during construction.
- Inspection and maintenance procedures after construction.

This plan was prepared by or under the supervision of, Kirk Ball, P.E., Acheron Engineering Services, 147 Main Street Newport, Maine 04953.

2.0 Project Description

Three Rivers Solar proposes to develop a 100 megawatt utility scale solar facility located in Township 16MD, BPP, Hancock County, Maine (Project). The project parcel is approximately 1,115 acres in size.

The scope of work includes, but is not limited to:

- Stump and boulder removal.
- Stump grinding and or burning.
- Road regrading.
- Revegetation of gravel roads.
- Installation of solar panels with up to 100 megawatt capacity and associated support structures.
- Installation of 35 inverters.
- Installation of buried collector lines.
- Construction of a 115kV substation.

The stormwater management BMPs include forested and meadow buffers. Please see that attached plan for specific locations of the BMPs.

3.0 Responsible Parties

During construction Elliott Jordan & Son will be responsible to ensure that the inspections are performed as described in the following sections. Following construction, the Three Rivers Solar's Environmental Manager will be responsible for overseeing or conducting the inspections and record keeping as described in Section 5. Recertification requirement, within three months of the expiration of each five-year interval from the date of issuance of the permit, the permittee shall certify the following to the Department:

- 1. All areas of the project site have been inspected for areas of erosion, and appropriate steps have been taken to permanently stabilize these areas.
- 2. All aspects of the stormwater control system are operating as approved, have been inspected for damage, wear, and malfunction, and appropriate steps have been taken to repair or replace the system, or portions of the system, as necessary.
- 3. The stormwater maintenance plan for the site is being implemented as approved by the Department, and the maintenance log is being maintained.

Contact Information:

Three Rivers Solar Power, LLC 89 Main Street Yarmouth, ME 04096 Tel. 857-315-5292

General Contractor:

Elliott Jordan & Son 456 Cave Hill Rd, Waltham, ME 04605 Tel. 207-584-5403

4.0 Inspection and Maintenance During Construction

This plan applies to all temporary and permanent erosion control features/structures. During construction, all stormwater features and erosion control structures that remain in place shall be inspected weekly, or after each rainstorm producing 1" or greater rainfall, whichever is more frequent. All inspections shall be conducted/performed by an individual with knowledge of erosion and stormwater control practices and the conditions of the stormwater management permit issued by the Maine Department of Environmental Protection. All erosion and sedimentation controls structures shall be inspected and maintained for, but not limited to, the following:

A. Sediment Barriers

- 1. Inspect weekly, before and after a storm.
- 2. Verify that barriers are installed prior to any soil disturbance.
- 3. Verify if silt fence is keyed properly and tight.
- 4. Repair and/or replace barriers as needed.
- 5. Verify barriers are removed when the site is stabilized. Silt fence should be cut at the ground surface.
- 6. Water that is flowing under the silt-fence without treatment requires resetting the silt fence so the bottom of the fabric is buried into or covered with soil or stone.
- 7. Sediments that have built up behind silt fence should be removed and the section of the silt fence reset (with new fabric and posts if signs of damage are evident).

8. Rips or holes in fabric require replacement of the section of silt fence with new fabric from post to post. Examine area for cause of problem and remove the threat.

B. Temporary Stabilization

- 1. Inspect disturbed areas weekly, before and after a storm.
- 2. Verify that areas that are idle for more than 14 days have been stabilized.
- 3. Verify that disturbed areas within 100 feet of a natural resource are stabilized each day.

C. Mulch

- 1. Inspect disturbed areas weekly, before and after a storm.
- 2. Verify that areas are seeded and mulched within 7 days of obtaining final grade.
- 3. Verify that erosion control mix is 4-6 inches thick.
- 4. Verify that erosion control blankets or hay mulch are anchored.

D. Stormwater Channels

- 1. Inspect disturbed areas weekly, before and after a storm.
- 2. Verify that ditches and swales are clear of obstruction, accumulated sediments or debris.
- 3. Verify that ditch lining/bottoms are free of erosion.

E. Buffers

- 1. Inspect before and after a storm.
- 2. Verify that areas that buffer are free of erosion and concentrated flows.
- 3. Verify that area downgradient of level spreaders is stable.
- 4. Inspect and remove any sediment accumulation within the level spreaders.

F. Winter Construction (Nov 1st to April 15th)

- 1. Inspect erosion control measures daily.
 - i. Ensure final graded areas are mulched twice the normal rate and anchored.
 - ii. Ensure that newly constructed ditches are lined with riprap.

If any corrective correction actions are needed based on inspections, they shall be started by the end of the following work day and completed within seven days or prior to the next rain event. Document the corrective actions and maintain with inspection forms. Inspection forms and corrective action documents shall be maintained for three years after permanent stabilization is achieved.

(See Appendix B for Inspection and Maintenance Log)

5.0 Inspection and Maintenance After Construction

After construction is finished, inspections must take place once per quarter, or after each rainstorm producing at least 1 inch of rainfall, whichever is more frequent (Appendix A). Such inspections are necessary to ensure the structures are functioning properly and are necessary as part of the 5-year recertification process for long-term maintenance of stormwater systems. If any structures are not functioning properly, they shall be repaired or replaced. All inspections shall be conducted/performed by an individual with knowledge of erosion and stormwater control practices and the conditions of the stormwater management permit issued by the Maine Department of Environmental Protection. All control structures shall be inspected and maintained for, but not limited to, the following:

A. Ditches and Swales

- a. Inspect annually, in spring and late fall and after heavy rains.
- b. Sediment deposits shall be removed if the depth is greater than 3".
- c. If erosion has scoured the ditch inverts, they shall be repaired with new loam, seed, fertilizer, and protective mulch or mesh until a new catch of grass is established.
- d. Slumping of the banks which should be repaired, seeded, and protected with mulch until a new catch of grass is established.
- e. Water is flowing by or around check dams which shall be rebuilt or repaired with more stone.
- f. Remove any woody vegetation growing through riprap.
- g. Repair riprap where underlying filter fabric or gravel is showing or stone has been dislodged.

B. <u>Level Spreaders:</u>

- a. Inspect annually in fall and after heavy rains for sand accumulation and debris that may reduce level spreader capacity.
- b. Sediment build up within the level spreader should be removed when it has accumulated to approximately 25% of design volume or channel capacity. Dispose of sediments appropriately.
- c. Remove debris, such as leaf litter, branches, and tree growth, as needed from the spreader.
- d. Vegetated spreaders may require mowing.

Document the corrective actions and maintain with inspection forms. Inspection forms and corrective action documents shall be maintained for five years after permanent stabilization is achieved.

(See Appendix B for Inspection and Maintenance Log)

6.0 Housekeeping

A. Spill Prevention & Response

Controls must be used to prevent pollutants from construction and waste materials stored on site to enter stormwater, which includes storage practices to minimize exposure of the materials to stormwater. The site contractor or operator must develop, and implement as necessary, appropriate spill prevention, containment, and response planning measures.

NOTE: Any spill or release of toxic or hazardous substances must be reported to the Maine Department of Environmental Protection. For oil spills, call 1-800-482-0777 which is available 24 hours a day. For spills of toxic or hazardous material, call 1-800-452-4664 which is available 24 hours a day. For more information, visit the Department's website at: http://www.maine.gov/dep/spills/emergspillresp/

Clean-up assistance:

Clean Harbors Environmental: 207-772-2201

B. Groundwater protection

During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater may not be stored or handled in areas of the site draining to an infiltration area. An "infiltration area" is any area of the site that by design or as a result of soils, topography and other relevant factors accumulates runoff that infiltrates into the soil. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials. Any project proposing infiltration of stormwater must provide adequate pre-treatment of stormwater prior to discharge of stormwater to the infiltration area, or provide for treatment within the infiltration area, in order to prevent the accumulation of fines, reduction in infiltration rate, and consequent flooding and destabilization. During dry months, all access roads should be wet down weekly or as needed.

C. Fugitive Sediment and Dust

Actions must be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil may not be used for dust control, but other water additives may be considered as needed. A stabilized construction entrance (SCE) should be included to minimize tracking of mud and sediment. If off-site tracking occurs, public roads should be swept immediately and no less than once a week and prior to significant storm events. Operations during dry months, that experience fugitive dust problems, should wet down unpaved access roads once a week or more frequently as needed with a water additive to suppress fugitive sediment and dust.

D. Debris and Other Materials

Minimize the exposure of construction debris, building and landscaping materials, trash, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials to precipitation and stormwater runoff. These materials must be prevented from becoming a pollutant source.

E. Excavation Dewatering

Excavation de-watering is the removal of water from trenches, foundations, coffer dams, ponds, and other areas within the construction area that retain water after excavation. In most cases the collected water is heavily silted and hinders correct and safe construction practices. The collected water removed from the ponded area, either through gravity or pumping, must be spread through natural wooded buffers or removed to areas that are specifically designed to collect the maximum amount of sediment possible, like a cofferdam sedimentation basin. Avoid allowing the water to flow over disturbed areas of the site. Equivalent measures may be taken if approved by the Maine Department of Environmental Protection.

F. Authorized Non-stormwater Discharges

Identify and prevent contamination by non-stormwater discharges. Where allowed non-stormwater discharges exist, they must be identified and steps should be taken to ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge. Authorized non-stormwater discharges are:

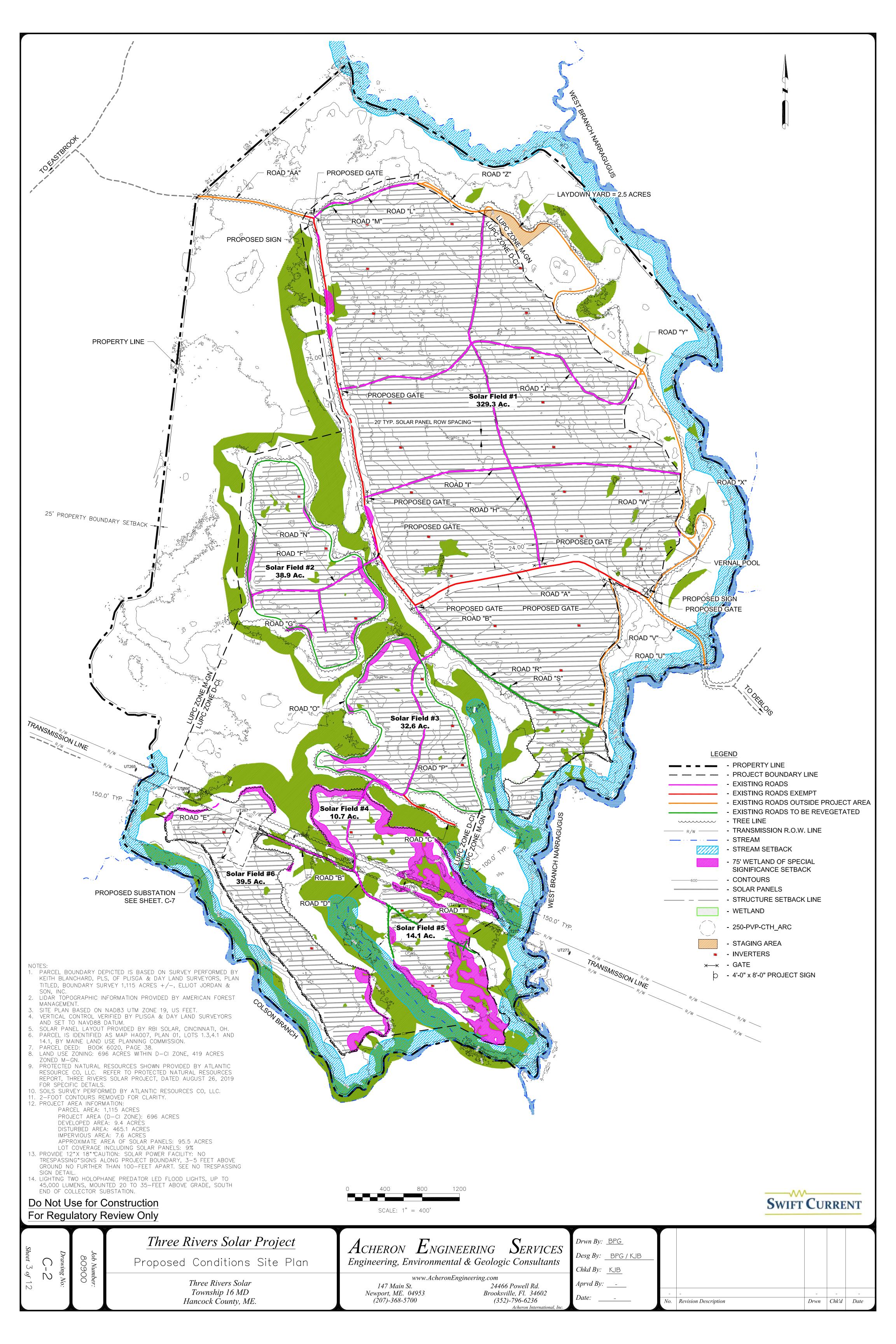
- 1. Discharges from firefighting activity;
- 2. Fire hydrant flushings;
- 3. Vehicle wash water if detergents are not used and washing is limited to the exterior of vehicles (engine, undercarriage and transmission washing is prohibited);
- 4. Dust control runoff in accordance with permit conditions;
- 5. Routine external building wash down, not including surface paint removal, that does not involve detergents;
- 6. Pavement wash water (where spills/leaks of toxic or hazardous materials have not occurred, unless all spilled material had been removed) if detergents are not used;
- 7. Uncontaminated air conditioning or compressor condensate;
- 8. Uncontaminated groundwater or spring water;
- 9. Foundation or footer drain-water where flows are not contaminated;
- 10. Uncontaminated excavation dewatering;
- 11. Potable water sources including waterline flushings; and
- 12. Landscape irrigation.

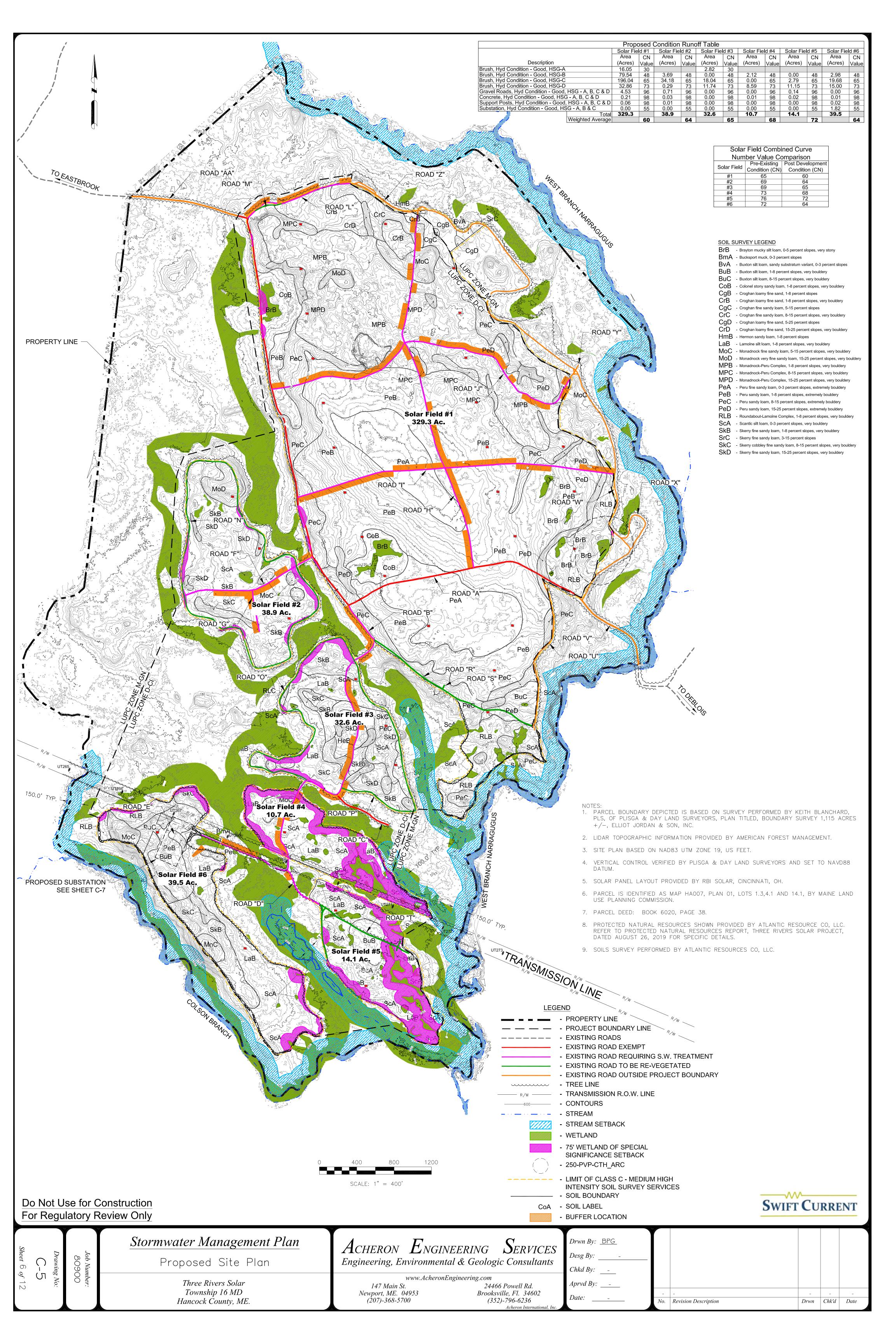
G. Unauthorized Non-stormwater Discharges

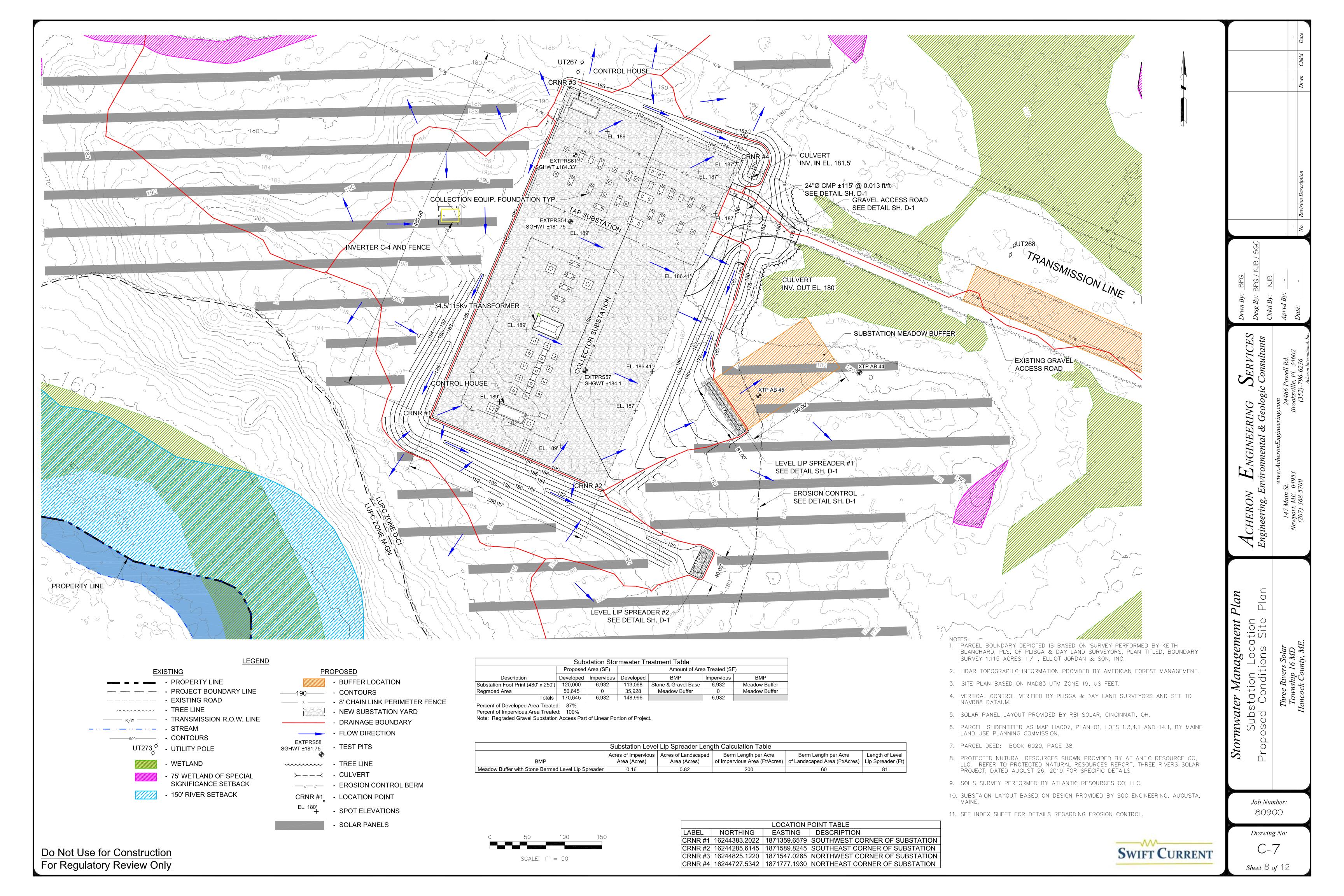
The Maine Department of Environmental Protections' approval does not authorize a discharge that is mixed with a source of non-stormwater, other than those discharges in compliance with Department regulations. Specifically, the Department's approval does not authorize discharges of the following:

- 1. Wastewater from the washout or cleanout of concrete, stucco, paint, form release oils, curing compounds or other construction materials;
- 2. Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance;
- 3. Soaps, solvents, or detergents used in vehicle and equipment washing; and
- 4. Toxic or hazardous substances from a spill or other release.

APPENDIX A: PLAN







APPENDIX B: INSPECTION CHECK LISTS

THREE RIVERS SOLAR CONSTRUC	CTION INSPECTION F	ORM FOR ERC	SION AND S	SEDIMENT CONT	ROL	
General Information:						
Site Name:	Date:		Inspecte	ed by:		
Owner:				-		
Retained 3PI:	Last Rain Date:			Amount:		
Reason for Inspection:	Weekly	Winter	Final			
	vveekiy	winter	ГШа	Rain Event	Complaint	
Description of disturbed area:						
Photos:						
	YES/NO/NA			COMMENTS		
1. Is an Erosion and Sediment Control Plan available	e?					
ESC plan on-site and followed						
Other:						
2 . Are all erosion control practices installed proper	rly, maintained and fu	nctioning?				
Disturbed areas stable						
Concentrated flow inlet/outlet protection						
All areas at final grade						
Disturbed dormant areas stabilized						
Access roads and parking						
Hillsides and stockpiles						
Other:						
3. Are all sedimentation control practices installed p	roperly, maintained a	nd functioning	?			
Construction entrance			-			
Sedimentation basins/traps/diversions						
Perimeter controls						
Check dams						
Other:						
4. Is maintenance of ESC measures, construction ac	tivities and housekee	ning kent-un?				
Sedimentation/erosion in ditches	TIVILIES UNA NOUSCREE	ping kept up:				
Tracked Sediment or dust at exits						
Hazardous material storage and spill						
control practices						
Waste management (concrete, hazardous material, etc.)						
Other:						
	•	•				
5. Violation, Corrective Actions, Recommendations Sediment discharged from site?						
Corrective action required?						
Site compliant with all permits?						
Notice of violation or stop work order						
issued?						
Comments/Corrective Actions (complete corrective action	ons before the next rain	event and with	n 7 day)			

Date:				
Date:				
Date:				
1		Inspected I	Inspected by:	
Last Rain Date:			Amount:	
Rain	Monthly	Quarterly		
Event				
Yes/No	Comments	}		
		Rain Monthly Event	Rain Monthly Quarterly Event	

Appendix C Test Pit Logs for Stormwater Buffers



www.arc-env.com

ARC #B18-006 October 04, 2019

Three Rivers Solar Power, LLC Attention: Dave Fowler, Director 89 Main Street Yarmouth. ME 04096

Subject: Soil Documentation Report for Stormwater Management Plan

Three Rivers Solar Project

T16MD, Maine

Dear Dave,

We are pleased to present this Soil Documentation Report for a stormwater management plan at the proposed Three Rivers Solar Power, LLC project in T16MD, Maine. The purpose of our services was to document and classify soils in test pits in proposed stormwater management areas near to the substation and gravel roads, to be designed by Acheron Engineering Services.

Exploration and Methodology

The proposed substation location and nearby test pit locations were shown on a plan e-mailed to us by Acheron Engineering Services, Inc. on January 18, 2019. Test pit locations along gravel roads were laid out in the field and shown on plans by Acheron Engineering Services dated May 09, 2019.

A Maine Certified Soil Scientist from Atlantic Resource Co, LLC visited the site on November 21, 2018, and January 18, June 05, and September 17, 2019 to document and classify soils in test pits in proposed stormwater management areas. The twenty-three test pits, labeled EXTP-RS-30, EXTP-RS-55, EXTP-RS-56, EXTP-RS-60, and EXTP-AB-1 through 17, 44 and 45, are located as shown on the Stormwater Test Pit Map attached in Appendix B. The test pits were dug with an excavator by Elliott Jordan & Son, Inc. of Deblois, Maine.

At each test pit, soil horizon depths, soil texture, color, consistence, structure, depth of observed fill, depth to seasonal water table, depth to observed seeping, and depth to ledge were documented (if observed). Test pit logs are attached in Appendix C.



Using the collected soil data, we then classified the soils to the closest Maine soil series based on data published by the Natural Resources Conservation Service (NRCS). We used published NRCS data on the soil series to report the soil's hydrologic soil group. Soil classification and hydrologic soil group are included below. The hydrologic soil groups presented are based on NRCS published soils data and do not represent laboratory or in-situ testing results.

Findings

Table 1, below, presents a summary of our findings.

Table 1 – Test Pit Documentation Summary							
Test Pit	Depth of Test Pit	Depth to Seasonal Water Table	Depth to Restrictive Layer	Depth to Bedrock	Soil Series	Hydrologic Soil Group (NRCS)	
EXTP-RS-30	60"	33"	33"	N.O.	Buxton silt loam, variant	С	
EXTP-RS-55	60"	N.O.	N.O.	N.O.	Hermon sandy loam	Α	
EXTP-RS-56	60"	13"	13"	N.O.	Lamoine silt loam	D	
EXTP-RS-60	66"	15"	15"	N.O.	Lamoine silt loam, variant	D	
EXTP-AB-1	72"	14"	14"	N.O.	Swanton very fine sandy loam, variant	D	
EXTP-AB-2	72"	45"	N.O.	N.O.	Monadnock very fine sandy loam	В	
EXTP-AB-3	72"	37"	37"	N.O.	Peru fine sandy loam	С	
EXTP-AB-4	72"	39"	39"	N.O.	Skerry fine sandy loam	С	
EXTP-AB-5	72"	44"	44"	N.O.	Monadnock fine sandy loam	В	
EXTP-AB-6	72"	N.O.	N.O.	N.O.	Monadnock gravelly loamy sand	В	
EXTP-AB-7	72"	34"	34"	N.O.	Peru fine sandy loam	С	
EXTP-AB-8	72"	24"	24"	N.O.	Peru fine sandy loam	С	
EXTP-AB-9	72"	16"	32"	N.O.	Skerry fine sandy loam	С	
EXTP-AB-10	72"	24"	24"	N.O.	Skerry fine sandy loam	С	
EXTP-AB-11	36"	36"	N.O.	36"	Skerry cobbly fine sandy loam	С	



Table 1 – Test Pit Documentation Summary (continued)								
Test Pit	Depth of Test Pit	Depth to Seasonal Water Table	Depth to Restrictive Layer	Depth to Bedrock	Soil Series	Hydrologic Soil Group (NRCS)		
EXTP-AB-12	60"	16"	16"	N.O.	Croghan fine sandy loam	В		
EXTP-AB-13	65"	48"	48"	N.O.	Roundabout silt loam, buried	С		
EXTP-AB-14	66"	21"	21"	N.O.	Croghan fine sandy loam	В		
EXTP-AB-15	72"	16"	27"	N.O.	Roundabout silt loam	С		
EXTP-AB-16	66"	9"	18"	N.O.	Lamoine silt loam	D		
EXTP-AB-17	60"	18"	18"	N.O.	Buxton silt loam	D		
EXTP-AB-44	72"	21"	21"	N.O.	Peru gravelly fine sandy loam	С		
EXTP-AB-45	48"	8"	8"	N.O.	Lamoine silt loam	D		

Closure

We appreciate the opportunity to assist you during this phase of your project. If you have any questions, please contact us.

Sincerely,

Atlantic Resource Co, LLC

Aleita M. Burman, C.W.S., C.S.S., L.S.E.

an u. Rum

Senior Soil and Wetland Scientist

posef

Roger St.Amand, CSS, LSE, LPF, CPESC, PWS PRINCIPAL | ATLANTIC RESOURCE CO, LLC

cc: Kirk Ball, Acheron Engineering Services



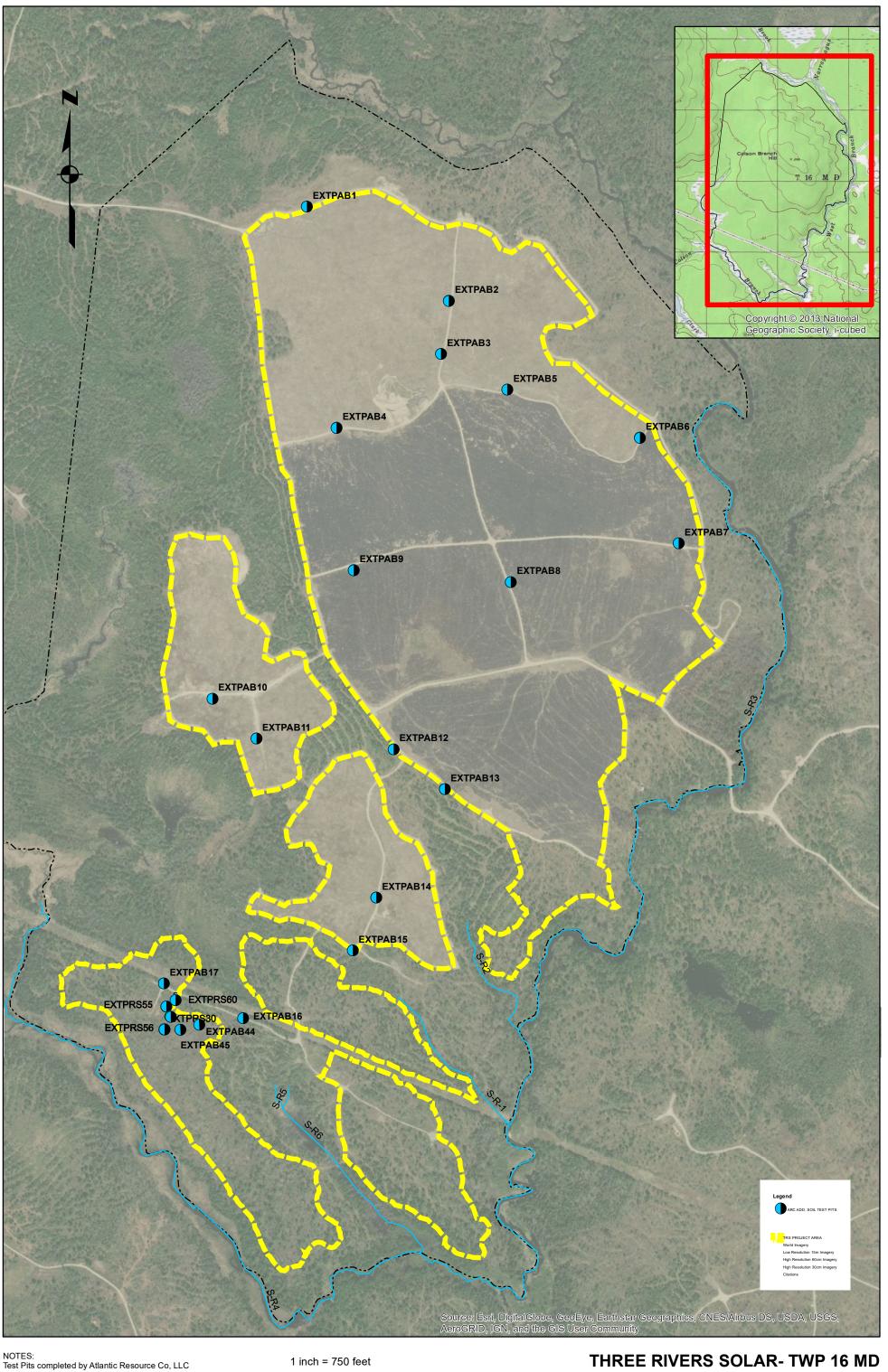


APPENDIX A Limitations

Appendix A – Limitations

The scope of Atlantic Resource Co, LLC services has been limited to soil documentation services for a stormwater management plan at the Three Rivers Solar Power, LLC project in T16MD, Maine. This Report has been prepared for the exclusive use of Three Rivers Solar Power, LLC. No warranty, expressed or implied, is made. The conclusions made in this report are based on the data obtained from the areas explored at the time of services.

APPENDIX B Stormwater Test Pit Map



APPENDIX C Test Pit Logs

Soil Description and Classification Form

C.S.S.

Name:

Aleita M. Burman

Symbo	ol:			O Horizon Thi	ckness: 2"	Symbo	ol:		ОН	orizon Thickr	ness: Z
Test P	it	EXTP	AB-I	Hydric (y/n)	No	Test P	it	EXTP	AB-Z	Hydric (y/ı	n) No
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Horiz	0	Texture	Consistency		Mottling Mottling	Horiz	0	Texture	Consistency	Color	Mottling
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	2					B 5	2			7.54R4/6	
Bs	3			104R4/b			3				
	4	very					4	very			
	5	fine	friuble		none		5	Fine			
	6	Sandy			observed	B	6	sandy		JOYN4/6	
	7	loam					7	loam			
	8			10YR9/4			8				
Bs	9						9				none
-	10					Ep	10		Friable	104R6/3	observed
	12					Cp	12			_	
	14						14				
	16						16			***********	
	18	****					18	****			
- 0	20					BC	20	loamy		2.545/4	
RBC	30	311+	firm	2.544/3			25	Very			
	35	loam			545/2		30	fine	24"-	one side of	n rock
	40						35	sand		one side a	+ TP
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Date:

License #:

06/05/19

#SS430

Applicant Name:

Three Rivers Solar Power, LL &

Soil Description and Classification Form

Three Rivers Solar

Project Name:

C.S.S.

Name:

Aleita M. Burman

		O Horizon Thio	ckness: Z''	Symbo	Symbol: O Horizon Thickness: Z						
Test Pi			AB-3	Hydric (y/n)	No	Test P	it	EXTPR	B-4	Hydric (y/	n) No
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	6						6			Tanika ili salika ili	
	7						7	fine			
	8	***	Friable		none		8	Sandy	Friable	7.54416	none
	9	***********			observed	Bs	9	loam			observed
	10	very		-		100	10				
Bs	12	fine		2.515/4			12				
	14	sandy					14				
	16	loam					16				
	18					B	18			2.545/6	
	20						20				
	25						25			All the Confession of the Conf	
	30	***				0.0	30			2.54.5/4	
	35					BC	35				
	40						40	gravelly			
	45						45	loamy			
	50	very					50	Ane			
01	55	6ne	firm	2.544/4	CCF	7	55	sand	Firm	2.5414	cmf
La	60	Sandy			2,54 414	C	60				2.5/5/2
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Date:

License #:

06/05/19

#SS430

Soil Description and Classification Form
Three Rivers Solar

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	3	fine				~ ~ ~ ~ ~ ~ ~ ~ ~		3				
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Bs	5	loam		7.54R4/6			E	5	/ /			
	6	7					-	6	gravelly	Friabl	e	
	7							7	loamy			
	8							8	fine			
	9	gravely	Fridble	104R5/6	none			9	sand		7.54R4/6	
B	10	Sine			obser		B5	10				none
	12	sandy						12				observed
	14	loam						14				
	16			-100 c (2012) (20				16	Aban s Av			
	18							18	2/52		2.5/4/4	
	20	loamy					BC	20				
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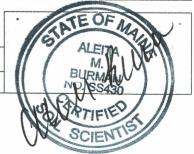
C.S.S.	Name:	Aleita M. Burman	Date:	06/05/19
0.0.0.	riame.	Alcita IVI. Dullilali	License #:	#86430



Soil Description and Classification Form

Symbo	l:			O Horizon Thic	kness: 2	Symbo	ol:		ОН	orizon Thickn	iess: 3"
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Horiz	0	Texture	Consistency	Color	Mottling	Horiz	0	Texture	Consistency	Color	Mottling
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	5	sandy		7-10-1			5	10011			
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	8			-	none	DSZ	8	gravely	77.14.04	1.3.18.3/7	observed
	9		Friable		observed		9	Ane			O D DON DE VI
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	12	very					12	loam			
	14	fine		2.5/5/4			14				
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C.S.S.	Name:	Aleita M. Burman	Date:	06/05/19
0.0.0.	riame.	Aleita M. Bullilaii	License #:	#88430



Soil Description and Classification Form
Project Name: Three Rivers Solar

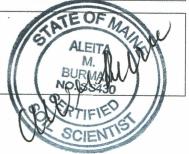
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C.S.S.	Name:	Aleita M. Burman	Date:	06/05/19
	110	Aleita W. Burnan	License #:	#SS430

Soil Description and Classification Form

Projec	t Nan	ne:	Three Rive	rs Solar		Applicant	Nam	e: Three	Three Rivers Solar Power, LLC		
Symbo	ol:			O Horizon Thic	ckness: 2"	Symbo	ol:		OH	orizon Thickr	ness: 3"
Test P	it	EX TF	AB-11	Hydric (y/n)	No	Test P	it	EX TP 1	2B-17	Hydric (y/	n) N0
Soil Na	ame:			uy fine su	ndy loam	Soil Na	ame:	Crogi	A	e sandy	100
Horiz	0	Pinh www.	T	- T	<u> </u>		1	T	T		T
HOHZ		Texture	Consistency	Color	Mottling	Horiz	0	Texture	Consistency	Color	Mottling
Λ	1					HE	1		ļ	************	
Hp	2			10.483/Z			2			2.5.46/2	
	3	~~~~~~~~~~				1 0	3				
B5	4			7.5YR3/4		B5	4			10484/6	
D3	5	Cobbly		•			5	fine	1		none
	6	fine					6	Sandy	Frighte		observed
	7	Sandy					7	loam			
	8	loam	Frable		none		8			10 YR 5/6	
B	9			104R4/6		B	9	***		1	
	10						10				
	12						12				
	14						14	***			
	16						16				
	18						18	Very fine			
	20	Cobbley		104R 3/6			20	Sandy			cmcl
BC	25	10amy		19-112-44-4-		BC	25	loam	Firm	2.5414	545/Z
DL	30	fine,					30		- /- /- /- /- /- /- /- /- /- /- /- /- /-	2.7.7.117	21316
	35	sand					35				
	40						40	langed			
	45						45	layered Very fine			
	50	refusa	10 3611.	- Very 1a	lae	ZC	50	sand:	Firm	2,5/4/4	00 .11'
	55			boulders		20	55	fine	in piace	3	multi- Colored
	60	Conom	ater an	erator d			60	-sand	-piace	2.545/3	
	65	thi	N 7 11	pas ledge	U.1.01		65	***********			
	70			5 rearry			70				
	75	in the	PVVCCO	F. 18807 117-	·)		75				
	80	LL1=3	6 "				80	LL1=60	//	*****	
		111-3	0					LU - 60			

C.S.S.	Name:	Aleita M. Burman	Date:	06/05/19
	110.	Aletta IVI. Bullilali	License #:	#SS430



Soil Description and Classification Form
Three Rivers Solar

Projec	t Nar	ne:	Three Rive	rs Solar		Applicant	Nam	e: Three	Rivers Solar	Power, LLE	
Symbo	ol:			O Horizon Thio	kness: 411	Symbo	ol:	the property of the last specific state of the same specific state of the s	ОН	orizon Thickn	ness: 4"
Test P	it	EXTPF	+B-13	Hydric (y/n)	No	Test P	iŧ	C × 70 0	0 1/1	Hydria (w/	a) 11.
Soil Na	ame:		The second secon	It loam, bu	And the second s	Soil Na		EXTPA		Hydric (y/	
		- TOUTION	10001 31	11 10011, 00	711661	L		Llogr	an the	sandy lo	am
Horiz	0	Texture	Consistency	Color	Mottling	Horiz	0	Texture	Consistency	Color	Mottling
	1						1				
	2						2			7.5 YR 3/4	
	3					B5	3			2-2-42-26-1-	
	4					As a subject of the second	4			*******	
	5						5			*************	
	6					100 Maria 100 Ma	6			******	
	7	Silt	Fridale	10484/4	None		7	fine	Friable		none
FILL	8	loam	23.101.2299		observed		8	sandy	1 Made		none
1120	9				UO MINEU		9	loam			Overveu
	10					B	10	www		1440411	
	12						12			104R4/6	
	14	***					14				
	16						16			**********	
	18						18				
	20	*****					20	***		*	
0 b	25	010 4 10 10 10	aller	Commence to val	4 6 6		25			***********	
Bs,	30	Silt	u 174 - 3	7.54R 314			30		PI		emd
	35	100M				BC	35	***	firm	2.54/4	54.5/2
BSZ	40		Friable	104R4/6				***************************************			
	45	3/1+	Mable		observed		40			***********	
B	50	10am		104R4/6			45	layered			
	55	a bhlas		COMMITTEE OF THE PROPERTY OF T		25	50	very fine	Friable	2.57414	multi-
RA	60	cobbley	0		emd	CC	55	and		2.545/3	Colored
BC		graveily -51/1-bam	Firm	1048414	1048 4/6		60			2.373[]	
The contract of the contract o	65						65	fine Sancl		******	
	70		and here then then then had and had had high had had				70				
/	75	4					75	. * * * * * * * * * * * * * * * * * * *			
	80	LL1 = 65					80	LL1=66'			
									publicano, contrato, con participato de la contrato del la contrato de la contrato del la contrato de la contra		

C.S.S.	Name:	Aleita M. Burman	Date:	06/05/19
	Trainio.		License #:	#SS430



Applicant Name:

Three Rivers Solar Power, uc

Soil Description and Classification Form

Three Rivers Solar

Project Name:

C.S.S.

Name:

Aleita M. Burman

Symbo	ol:			O Horizon Thic	kness: 3"	Symbo	ol:		OH	orizon Thickr	ness: 4"
Test P	it	EXTPA	B-15	Hydric (y/n)	No	Test P	it	EXTP	AB-16	Hydric (y/	n) No
Soil Na	ame:	Rom	dabout	silt loan		Soil Na	ame:		ine silt	loam	
Horiz	0	Texture	Consistency	Color	Mottling	Horiz	0	Texture	Consistency	Color	Mottling
	1	The second section of the second	a mond out to recommend up to all a pulsura at				1				
	2					SCALUTE AND SECURITY OF THE SE	2			***************************************	
	3					100	3				
Bs	4			104R4/6			4				
	5	***************************************		J		B,	5			10484/4	none
	6	Silt			none		6			1071071	observed
	7	loam			observed		7		Fridble	******	
	8				0000000	with the second	8		Trove		
	9	*******	Friable			- The state of the	9	511+	-	*	
\mathcal{B}_{l}	10			2.5/4/4			10	loam		*********	mmd
	12						12				5Y5/2
	14					Bz	14	د. ۱۹۹۰ ادام خود شود شود ادام ادام شود ادام ادام ادام ادام ادام ادام ادام اد		2.544/3	cmf
	16						16				2.5/4/4
9	18	~~~			cfd	0	18				
B_{z}	20	****		2.5/4/4	Cfd 2:545/2 -Cfp INR4/b		20	· · · · · · · · · · · · · · · · · · ·		seepe 18	77
02	25				10/R4/b		25				mmd
	30	gravelly					30				545/z
	35	Silt				RC	35		firm	7.54413	cmf
ВС	40	loam	ven	545/3	mcp	BC	40	***********			2.51414
DC	45		firm		1048916		45	. व्यंत्र कर वेंग, त्या पत्र कर कर का का का का का का का			
	50						50				
	55	~~~					55	SilH		*	mmd
	60					C	60	cluy	Very	544/3	545/2
1	65	very gravelly.			cmf		65	loam	film	************	em d 2.51414
-	70	Silt loam	Arm	545/3	545/2		70	American American Company (Company Company Com			- de a ta da a da a la a a a a
	75			See	e 60"		75				
	80	U1= 6		-			80	LL1 = 6	6'		

Date:

License #:

06/05/19

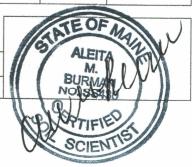
#SS430

Soil Description and Classification Form

Project Name:	Three Riv	vers Solar		Applicant Name:	Three Rivers Solar Power, L. C.
Symbol:		O Horizon Thick	rness: 2'	Symbol:	O Horizon Thickness:
Test Pit	EX TPAB-17	Hydric (y/n)	No	Test Pit	Hydric (y/n)
Soil Name:	Buxton	Silt loam	akan sanjangan Pangganan pangganakin jaranan angganasan	Soil Name:	

		1 DUX		T loam		3011 141					
Horiz	0	Texture	Consistency	Color	Mottling	Horiz	0	Texture	Consistency	Color	Mottling
	1						1	de la market de la planta con destra como estra est			
	2						2	****			
\mathcal{B}_{5}	3			104R4/6			3	******			
	4						4	***			
	5						5				
	6				none		6	***		**********	
	7		Friable		observed		7	***	-		
	8				30103010101111		8				
	9			2.545/4			9	***	-		
\overline{C}	10	silt				100 TO	10			*	
B	12	loam					12	***			
	14						14	************		*****	
	16	***					16	*******		******	
	18	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					18	*			
	20						20			**********	
	25				cmp.		25	***********			
BC	30	***			104R 4/6		30	* ** ** ** ** ** ** ** ** ** ** ** **			
	35		Firm	2,54413	cmf		35	***********			
	40				Z.54472		40			**********	
	45						45			**********	
	50						50			*	
C	55	3/174 Clay	very	54.413	mmd 545/2		55				
	60	loam	firm		cmd 2.57414		60			**********	
	65			seep e			65				
	70						70			~	
	75						75			*******	
	80	LL1=60	511				80			*******	

C.S.S.	Name:	Aleita M. Burman	Date:	06/05/19
0.00		Aleita W. Bullian	License #:	#\$\$430



Soil Description and Classification Form

Three Rivers Solar

Projec	Project Name: Symbol: Pe		Three Rive	rs Solar			A	pplicant	Name	: Three	Rivers S	Solar	Power, LLC			
Symbo	ol:		Pec		O Horizon Thic	kness:	3		Symbo	ol:	La	В	O H	orizon Thickn	ess:	3
Test P	it	XT	P-A	B-44	Hydric (y/n)	No			Test P	it	XTP-A1	3-45		Hydric (y/ı	1)	No
Soil Na	ame:				by fine say				Soil Na	ame:		***************************************	51	7+10am		
Horiz	0	Textur		Consistency		T	ottling		Horiz	0	Texture	Consis	tency	Color		Mottling
	1		The state of customers of custo				***************************************			1			nanium producera de la compressión de deservir			
	2							-		2						
Bn	3				7.54R3/4				Bs	3				10484/3		~
	4						and after two last ten and and was too	7		4		Aial	ble	6-2	n	one
	5	grave	lh							5					1	bsened
	6	Fine	7			non	e			6						
P	7	Sand	V	Frable	10/R3/4	1	ewed		B	7	5/1t			20544/3		
B5,	8	loun								8	loam					
	9						MT. 55 o'C TO) HE ME HE HE HE			9						
	10	~~~~~~					*****		R	10					cm	<i>P</i>
-	12						are the plus sup the size two two two		Bg	12				2.545/2	10	124/6
Bsz	14				104R3/6			-		14		Arn	<u> </u>			
250	16						er ne te ny ne ne ne ne ne			16						
	18		~~~~		***				BC	18				2.54413		nd
	20							-	100	20					57	15/2
	30									30						
	35	roller		<u></u>	11-00-11-1-	ļ,	J.			35	/ /11			ļ		
C1	40	rock		Sim.	Vandble	N	//0	-		40	5/1ty	Ven	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.54413	CW	1P 1R414
	45	14.11.11.		in					C	45	loam		<u> </u>	C13/9/5	en	
	50			place						50	leam				1	5/1
	55	ven						-		55						
1	60	grave	ly	Grm	2.5/4/3	emp		-		60						
Cz	65	Me				104R		-		65				†		
	70	sanov Ica	m				nida Vana			70	0. Not. 10. No. 100.	1				
	75									75						
	80				601	F 7Z	//			80				201	=4	8"
														ATEO	FM	

C.S.S.	Name:

Aleita M. Burman

Date:	9/17/19
License #:	#\$\$430



Soil Description and Classification Form **Project Name:** Three Rivers Solar Applicant Name: Three Rivers Solar Power . LL C Symbol: O Horizon Thickness: Symbol: O Horizon Thickness: 6" Test Pit EXTP- R5-79 Hydric (y/n) **Test Pit** EXTP-R5-30 Hydric (y/n) Soil Name: Soil Name: Horiz Texture Consistency Color Møttling Horiz 1 0 Texture Consistency Color Mottling gravelly 1 17 loam 2 3 friable 104R3/3 A 4 4 loam 5 5 Friable. 6 7 Bs 8 loam Friable 104R4/6 Silt Bw, 10 loam Bu 16 18 20 20 gravelly Bwz 25 MMP 10YR4/6 omd 40 roHen 45 50 50 55 55 60 65 70 10am 70 75 75 80 80 84 11/21/18 Date: C.S.S. Name: Roger St.Amand **#SS471** License #:

Soil Description and Classification Form Project Name: Three Rivers Solar Applicant Name: Three Rivers Solar Symbol: O Horizon Thickness: Symbol: O Horizon Thickness: 0" Test Pit EXTP-RS-54 Hydric (y/n) Test Pit EXTP-R5-55 Hydric (y/n) Soil Name: Peru fine sundy loam Soil Name: gravelly sondy Horiz Texture Consistency Color Mettling Horiz' 0 Consistency Texture Color Mottling 1 2 2 3 3 Sandy friable 104R3/3 Sand Friable A loam loam 6 7 8 Observed 8 9 gravely 10 Bs, Sandy 12 12 loam Bs fine 10484/6 14 Sandy gravelly tocim. Bsz loamy tridble. Friable 123/4 100 m BC 30 Sundy Ica Friable 30 35 gravely Firm San 40 cmd Loamy 45 Coarse 10050 fome rotten rock) 50 sand 55 55 place) 60 65 70 75 75 80 50 80 Date: 01/18/19 C.S.S. Name: Roger St.Amand License #: **#SS471**

Applicant Name:

Three Rivers Solar Power, LLC

Soil Description and Classification Form
Project Name: Three Rivers Solar

Symbo	l.			O Horizon Thi	kness: 0''	Symbo	ıl:			O Horizon Thi o	clness: D'
Test Pi	t	EXTP-R	5-56	Hydric (y/n)	N	Test Pi	t	EXTP-18	5/6	Hydric (y/n)	N
Soil Na	me:		oine silt	ATTINUADOLIN	ministra in the second	Soil Na	-	1	The same of the sa	leam, vo	
		W/1004mmamily000adinjiqqebess distribitionamapropiation				1			1196 21/1	1608 + VC	114117
Horiz	0	Texture	Consistency	Color	Mottling	Horiz	0	Texture	Consistency	Color	Mottling
	1	*********					4		A STATE OF THE STA	Organization and Anthonic Control of the Control of	en e
	2						2		(C) to the ten on an	-	
	3	*************					3	<i>5i1t</i>			
0	4	511+	Friable	10YE3/3		A	4	loam	fiable	2.5/3/3	***********
Ap	5	loam					5			- 6-1-1-11-1	
44 A A A A A A A A A A A A A A A A A A	6	~~~					6	********	***************************************		none
	7	~~~~~~~~~~~~~				COLUMN TO THE PROPERTY OF THE	7				observed
	8	of the Carlotte Control of the Carlotte Control					8				
	9	*************					9				
Bu	10	511+	Friable	2.545/4			10	Silt	ficiale	2.575/4	
2001	12	loam				Bw	12	loam	J-119022356.		
Bu,						500	14	1	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
0	16	511+			CMP 4/6		46	the second section of the second seco			A
Bur	18	100 m	firm	545/3	emd		18	311+	***********	2.51/5/3	10 YR 4/6
	20	*****			546/1	BC	20	loan	firm	6.11.2.12	Cfd
The state of the s	25	*****				Characteristics of the control of th	25				54612
	30	*********			cmp	- Anna i - Profit d'en en stage	30				Cmf.
1	35	51/14			10484/6		35	5/14		544/3	545/2
C	40	elay	firm	5/9/3	cmd	C	40	Clay	Firm		fmp
	45	loam	ļ		546/1		45	100m			1N2476
	50				ļ	-	50_			Market Mark Million and the Market Special Section of the Section	Δ.
	55				ļ	170	55	gravely			Saturdied)
	60		-		\$555544455564555A	ZC	60	loamy	10020	54413	
	65				ļ		65	Sand			
	70						70				2222222
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	80			11=	60"	TOTAL CONTRACTOR OF THE PARTY O	80			WI=	66"
									I		The second secon

C.S.S.	Name:	Roger St.Amand	Date:	01/18/19	Minimum
		1 rogor ochanana	License #:	#SS471	



Appendix D Proposed Deed Restriction for Buffers

(name)					(stree	et add	lress	s)			
		County, M	Iaine,		, (h	erein	ref	erred to	as tl	he	
(city or town) (county)	(zip code)									
"Declarant"), pursuant to a pern	nit receive	d from the Ma	aine Dep	partm	nent of	Env	iron	mental	Prote	ection	under
the Stormwater Managemen	t Law,	to preserve	a but	ffer	area	on	a	parcel	of	land	near
(road name)	_,	(k	nown fe	eatur	e and/o	or to	wn)			·	
(road name) WHEREAS, the Declarant hold	s title to c	•					,			Maine	;
,	s title to c	•						own)		Maine)
,		ertain real pro	perty si	ituate	ed in _		(to	own)			;
WHEREAS, the Declarant hold		ertain real pro	perty si	ituate	ed in _		(to	own)			;
WHEREAS, the Declarant hold	(na	ertain real pro	operty si	ituate	ed in _	of De	(to	cant)	,	dated	

portion of said real property (hereinafter referred to as the "Restricted Buffer") described as follows: (Note: Insert description of restricted buffer location here)

WHEREAS, pursuant to the Stormwater Management Law, 38 M.R.S. Section 420-D and Chapter 500 of rules promulgated by the Maine Board of Environmental Protection ("Stormwater Management Rules"), Declarant has agreed to impose certain restrictions on the Restricted Buffer Area as more particularly set forth herein and has agreed that these restrictions may be enforced by the Maine Department of Environmental Protection or any successor (hereinafter the "MDEP"),

NOW, THEREFORE, the Declarant hereby declares that the Restricted Buffer Area is and shall forever be held, transferred, sold, conveyed, occupied and maintained subject to the conditions and restrictions set forth herein. The Restrictions shall run with the Restricted Buffer Area and shall be binding on all parties having any right, title or interest in and to the Restricted Buffer Area, or any portion thereof, and their heirs, personal representatives, successors, and assigns. Any present or future owner or occupant of the Restricted Buffer Area or any portion thereof, by the acceptance of a deed of conveyance of all or part of the Covenant Area or an instrument conveying any interest therein, whether or not the deed or instrument shall so express, shall be deemed to have accepted the Restricted Buffer Area subject to the Restrictions and shall agree to be bound by, to comply with and to be subject to each and every one of the Restrictions hereinafter set forth.

- 1. **Restrictions on Restricted Buffer Area**. Unless the owner of the Restricted Buffer Area, or any successors or assigns, obtains the prior written approval of the MDEP, the Restricted Buffer Area must remain undeveloped in perpetuity. To maintain the ability of the Restricted Buffer Area to filter and absorb stormwater, and to maintain compliance with the Stormwater Management Law and the permit issued thereunder to the Declarant, the use of the Restricted Buffer Area is hereinafter limited as follows.
 - a. No soil, loam, peat, sand, gravel, concrete, rock or other mineral substance, refuse, trash, vehicle bodies or parts, rubbish, debris, junk waste, pollutants or other fill material will be placed, stored or dumped on the Restricted Buffer Area, nor may the topography or the natural mineral soil of the area be altered or manipulated in any way;
 - b. A dense cover of grassy vegetation must be maintained over the Restricted Buffer Area, except that shrubs, trees and other woody vegetation may also be planted or allowed to grow in the area. The Restricted Buffer Area may not be maintained as a lawn or used as a pasture. If vegetation in the Restricted Buffer Area is mowed, it may be mown no more than two times per year.
 - c. No building or other temporary or permanent structure may be constructed, placed or permitted to remain on the Restricted Buffer Area, except for a sign, utility pole or fence (whether constructed of wood, steel or other materials) and appurtenant equipment such as guys and guy anchors;
 - d. No trucks, cars, dirt bikes, ATVs, bulldozers, backhoes, or other motorized vehicles or mechanical equipment may be permitted on the Restricted Buffer Area, except for vehicles used in mowing;
 - e. Any level lip spreader directing flow to the Restricted Buffer Area must be regularly inspected and adequately maintained to preserve the function of the level spreader.

Any activity on or use of the Restricted Buffer Area inconsistent with the purpose of these Restrictions is prohibited. Any future alterations or changes in use of the Restricted Buffer Area must receive prior approval in writing from the MDEP. The MDEP may approve such alterations and changes in use if such alterations and uses do not impede the stormwater control and treatment capability of the Restricted Buffer Area or if adequate and appropriate alternative means of stormwater control and treatment are provided.

- 2. **Enforcement.** The MDEP may enforce any of the Restrictions set forth in Section 1 above.
- 3. **Binding Effect**. The restrictions set forth herein shall be binding on any present or future owner of the Restricted Buffer Area. If the Restricted Buffer Area is at any time owned by more than one owner, each owner shall be bound by the foregoing restrictions to the extent that any of the Restricted Buffer Area is included within such owner's property.
- 4. **Amendment**. Any provision contained in this Declaration may be amended or revoked only by the recording of a written instrument or instruments specifying the amendment or the revocation signed by the owner or owners of the Restricted Buffer Area and by the MDEP.
- 5. **Effective Provisions of Declaration**. Each provision of this Declaration, and any agreement, promise, covenant and undertaking to comply with each provision of this Declaration, shall be deemed a land use restriction running with the land as a burden and upon the title to the Restricted Buffer Area.

6.	Severability . Invalidity or unenforceability of any provis shall not affect the validity or enforceability of any other pra provision of this Declaration.	
7.	Governing Law . This Declaration shall be governed by anothe State of Maine.	d interpreted in accordance with the laws of
	(NAME)	
ST	ΓΑΤΕ OF MAINE,, County, dated, County, dated	, 20
the	ersonally appeared before me the above namede foregoing to the best of (his/her) knowledge, information a strument to be (his/her) free act and deed.	
		Notary Public

DECLARATION OF RESTRICTIONS

(Forested Buffer, Limited Disturbance)

THIS DECLARAT	ION OF REST	TRICTION	NS is made t	his			d	ay of _		, 2	.0,
by		_ ,								,	
	(name)				(s1	treet a	ddress	s)			
	,		County, l	Maine,		,	(herei	n refer	red to	as the	
(city or town)	(c	ounty)			(zip c	code)					
"Declarant"), pursu	ant to a permit	received	from the Ma	ine De	epartn	nent of	Envi	ronmer	tal Pro	otection	under
the Stormwater	Management	Law, to	preserve	a bi	uffer	area	on	a par	cel o	f land	near
(road name)			(known	feature	e and/o	or tow	n)			·	
WHEREAS, the De	eclarant holds	title to cer	tain real pro	perty	situate	ed in _				, Ma	iine
								(tow	n)		
described in a deed	from			to _						dated	l
		(name))			(nan	ne of	Declara	int)		
,	20, and	recorded	in Book _	P	Page _	a	t the			C	County
Registry of Deeds,	herein referred	d to as the	"property";	and	-						·

WHEREAS, Declarant desires to place certain restrictions, under the terms and conditions herein, over a portion of said real property (hereinafter referred to as the "Restricted Buffer") described as follows: (Note: Insert description of restricted buffer area location here)

WHEREAS, pursuant to the Stormwater Management Law, 38 M.R.S. Section 420-D and Chapter 500 of rules promulgated by the Maine Board of Environmental Protection ("Stormwater Management Rules"), Declarant has agreed to impose certain restrictions on the Restricted Buffer Area as more particularly set forth herein and has agreed that these restrictions may be enforced by the Maine Department of Environmental Protection or any successor (hereinafter the "MDEP"),

NOW, THEREFORE, the Declarant hereby declares that the Restricted Buffer Area is and shall forever be held, transferred, sold, conveyed, occupied and maintained subject to the conditions and restrictions set forth herein. The Restrictions shall run with the Restricted Buffer Area and shall be binding on all parties having any right, title or interest in and to the Restricted Buffer Area, or any portion thereof, and their heirs, personal representatives, successors, and assigns. Any present or future owner or occupant of the Restricted Buffer Area or any portion thereof, by the acceptance of a deed of conveyance of all or part of the Covenant Area or an instrument conveying any interest therein, whether or not the deed or instrument shall so express, shall be deemed to have accepted the Restricted Buffer Area subject to the Restrictions and shall agree to be bound by, to comply with and to be subject to each and every one of the Restrictions hereinafter set forth.

1. **Restrictions on Restricted Buffer Area**. Unless the owner of the Restricted Buffer Area, or any successors or assigns, obtains the prior written approval of the MDEP, the Restricted Buffer Area must remain undeveloped in perpetuity. To maintain the ability of the Restricted Buffer Area to filter and absorb stormwater, and to maintain compliance with the Stormwater Management Law and the permit

issued thereunder to the Declarant, the use of the Restricted Buffer Area is hereinafter limited as follows.

- a. No soil, loam, peat, sand, gravel, concrete, rock or other mineral substance, refuse, trash, vehicle bodies or parts, rubbish, debris, junk waste, pollutants or other fill material may be placed, stored or dumped on the Restricted Buffer Area, nor may the topography of the area be altered or manipulated in any way;
- b. Any removal of trees or other vegetation within the Restricted Buffer Area must be limited to the following:
 - (i) No purposefully cleared openings may be created and an evenly distributed stand of trees and other vegetation must be maintained. An "evenly distributed stand of trees" is defined as maintaining a minimum rating score of 24 points in any 25 foot by 50 foot rectangle (1,250 square feet) area, as determined by the rating scheme in Table 11:

Table 11.

Point System for Determining an Evenly
Distributed Stand of Trees

Diameter of tree at 4½ feet above ground level	Points
2 - 4 inches	1
4 - 8 inches	2
8 - 12 inches	4
>12 inches	8

Where existing trees and other vegetation result in a rating score less than 24 points, no trees may be cut or sprayed with biocides except for the normal maintenance of dead, windblown or damaged trees and for pruning of tree branches below a height of 12 feet provided two thirds of the tree's canopy is maintained;

- (ii) No undergrowth, ground cover vegetation, leaf litter, organic duff layer or mineral soil may be disturbed except that one winding path, that is no wider than six feet and that does not provide a downhill channel for runoff, is allowed through the area;
- c. No building or other temporary or permanent structure may be constructed, placed or permitted to remain on the Restricted Buffer Area, except for a sign, utility pole (whether constructed of wood, steel or other materials) and appurtenant equipment such as guys and guy anchors, or fence;
- d. No trucks, cars, dirt bikes, ATVs, bulldozers, backhoes, or other motorized vehicles or mechanical equipment may be permitted on the Restricted Buffer Area;
- e. Any level lip spreader directing flow to the Restricted Buffer Area must be regularly inspected and adequately maintained to preserve the function of the level spreader.

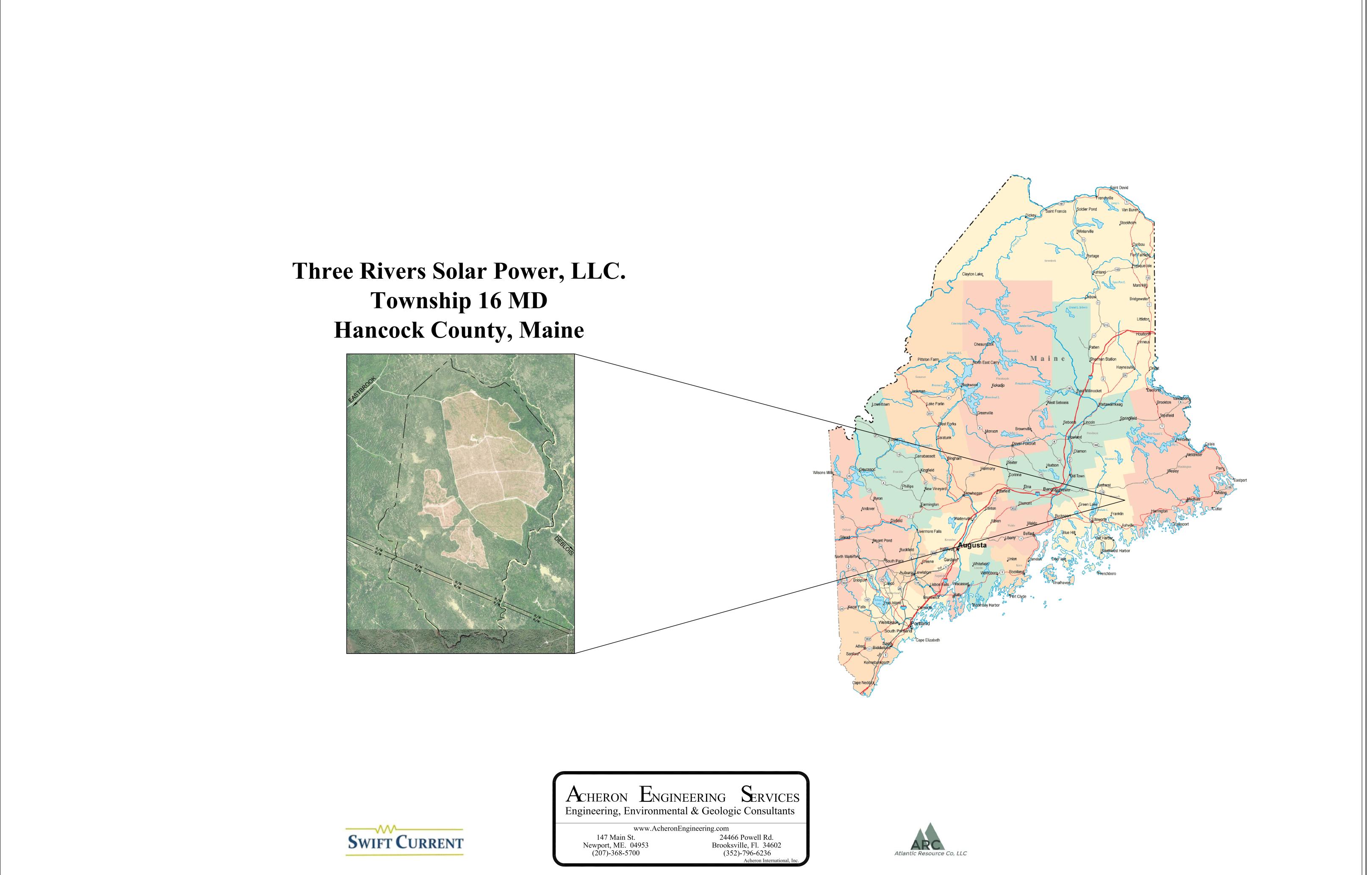
Any activity on or use of the Restricted Buffer Area inconsistent with the purpose of these Restrictions is prohibited. Any future alterations or changes in use of the Restricted Buffer Area must receive prior approval in writing from the MDEP. The MDEP may approve such alterations and changes in use if

such alterations and uses do not impede the stormwater control and treatment capability of the Restricted Buffer Area or if adequate and appropriate alternative means of stormwater control and treatment are provided.

- 2. **Enforcement**. The MDEP may enforce any of the Restrictions set forth in Section 1 above.
- 3. **Binding Effect**. The restrictions set forth herein shall be binding on any present or future owner of the Restricted Buffer Area. If the Restricted Buffer Area is at any time owned by more than one owner, each owner shall be bound by the foregoing restrictions to the extent that any of the Restricted Buffer Area is included within such owner's property.
- 4. **Amendment**. Any provision contained in this Declaration may be amended or revoked only by the recording of a written instrument or instruments specifying the amendment or the revocation signed by the owner or owners of the Restricted Buffer Area and by the MDEP.
- 5. **Effective Provisions of Declaration**. Each provision of this Declaration, and any agreement, promise, covenant and undertaking to comply with each provision of this Declaration, shall be deemed a land use restriction running with the land as a burden and upon the title to the Restricted Buffer Area.
- 6. **Severability**. Invalidity or unenforceability of any provision of this Declaration in whole or in part shall not affect the validity or enforceability of any other provision or any valid and enforceable part of a provision of this Declaration.

7. Governing Law. This Declaration shall be governed by and interpreted in accordance with the laws of

Appendix E Plans





147 Main St. Newport, ME. 04953 (207)-368-5700



GENERAL NOTES:

- ACHERON ENGINEERING HAS USED A REASONABLE STANDARD OF CARE TO TRY TO LOCATE UNDERGROUND FACILITIES IN THE VICINITY OF THIS PROJECT. LOCATIONS OF UNDERGROUND FACILITIES DEPICTED ON THESE DRAWINGS ARE APPROXIMATE. EXCAVATORS MUST COMPLY WITH ALL REQUIREMENTS OF TITLE 23 SECTION 3360, PROTECTION OF UNDERGROUND FACILITIES, BEFORE COMMENCING OPERATIONS.
- 2. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES; STORAGE PRACTICES TO MINIMIZE EXPOSURE OF MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP AND IMPLEMENT, AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT AND RESPONSE PLANNING MEASURES.
- 3. ANY SPILL OR RELEASE OF TOXIC OR HAZARDOUS SUBSTANCES MUST BE REPORTED TO THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. FOR OIL SPILLS, CALL 1-800-482-0777 WHICH IS AVAILABLE 24 HOURS A DAY. FOR SPILLS OF TOXIC OR HAZARDOUS MATERIAL, CALL 1-800-482-4664 WHICH IS AVAILABLE 24 HOURS A DAY. FOR MORE INFORMATION VISIT THE MEDEP WEBSITE AT: WWW.MAINE.GOV/DEP/SPILLS/EMERGSPILLRESP/
- GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE AND CONSEQUENT FLOODING AND DESTABILIZATION. NOTE: LACK OF APPROPRIATE POLLUTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPS) MAY RESULT IN VIOLATIONS OF THE GROUNDWATER QUALITY STANDARD ESTABLISHED BY M.R.S.A. §465-C (1).
- 5. DEBRIS AND OTHER MATERIALS: MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIAL TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE. NOTE: TO PREVENT THESE MATERIALS FROM BECOMING A SOURCE OF POLLUTANTS, CONSTRUCTION AND POST CONSTRUCTION ACTIVITIES RELATED TO A PROJECT MAY BE REQUIRED TO COMPLY WITH APPLICABLE PROVISIONS OF RULES RELATED TO SOLID, UNIVERSAL AND HAZARDOUS WASTES, INCLUDING BUT NOT LIMITED TO, THE MAINE SOLID WASTE MANAGEMENT RULES; MAINE HAZARDOUS WASTE RULES; MAINE OIL CONVEYANCE AND STORAGE RULES AND MAINE PESTICIDE REQUIREMENTS.
- AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE; DISCHARGES FROM FIREFIGHTING ACTIVITY, FIRE HYDRANT FLUSHING, VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED), DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS, ROUTINE EXTERNAL BUILDING WASHDOWN (NOT INCLUDING PAINT REMOVAL, NO DETERGENTS), PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED, NO DETERGENTS), UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE, UNCONTAMINATED GROUNDWATER OR SPRING WATER, FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED, UNCONTAMINATED EXCAVATION DEWATERING, POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING AND LANDSCAPE IRRIGATION.
- 7. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE MAINE DEP'S APPROVAL DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE MENTIONED IN GENERAL NOTE 7 SPECIFICALLY. THE MAINE DEP'S APPROVAL DOES NOT AUTHORIZE DISCHARGE OF THE FOLLOWING; WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OIL, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; SOAPS, SOLVENTS OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR RELEASE.

EROSION CONTROL NOTES:

- 1. DURING CONSTRUCTION USE PRECAUTION TO AVOID ANY EROSION AND TO PREVENT SILTING OF OCEANS, RIVERS, STREAMS, LAKES, RESERVOIRS, IMPOUNDMENTS, AND DRAINAGE DITCHES AND SWALES.
- 2. CONSTRUCTION SEQUENCE
- INSTALL TEMPORARY EROSION CONTROL MEASURES.
- DE-STUMP AND REMOVE BOULDERS.
- SEED ANY DISTURBED AREAS. CONSTRUCT STORMWATER MANAGEMENT FACILITIES.
- INSTALL SOLAR PANELS, SUBSTATION AND EQUIPMENT
- INSTALL COLLECTOR LINES, REGRADE AND REVEGITATE ROADS.
- FINAL GRADING AND RESEEDING OF DISTURBED AREAS.
- REMOVE EROSION CONTROL DEVICES PENDING SUFFICIENT GROWTH IN SEEDED AREAS.
- 3. ALL CONSTRUCTION ACTIVITIES SHOULD FOLLOW GUIDANCE AS PRESENTED IN "MAINE EROSION AND SEDIMENT CONTROL PRACTICES, FIELD GUIDE FOR CONTRACTORS" PUBLISHED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION IN 2014.
- 4. MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY BE NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR EROSION AND SEDIMENTATION CONTROL AND MAINTENANCE.
- 5. LOCATE AND MARK ALL PROJECT BOUNDARIES PRIOR TO CONSTRUCTION.
- 6. LIMIT THE AMOUNT OF SOIL DISTURBANCE TO NO MORE THAN 2 ACRES AT ONE TIME OR NO LARGER AREA THAN CAN BE MULCHED IN ONE DAY.
- 7. MARK ALL SOIL DISTURBANCE LIMITS AND INSTALL SEDIMENT BARRIERS PRIOR TO DISTURBING SOILS.
- 8. MULCH EXPOSED SOIL AS SOON AS POSSIBLE, AND REVEGETATE AS SOON AS FINAL GRADE IS ATTAINED.
- 9. INSPECT AND REPAIR EROSION CONTROL AND SEDIMENT TRAPPING MEASURES WEEKLY AND AFTER EVERY STORM EVENT.
- 10. REMOVE TEMPORARY EROSION CONTROLS WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. PERMANENT STABILIZATION CONSISTS OF AT LEAST 90% VEGETATION, PAVEMENT, GRAVEL BASE OR RIP-RAP.
- 11. STABILIZE DITCHES WITHIN 24 HOURS OF FINAL GRADE.
- 12. ALL FILL MATERIAL MUST BE FREE OF FROZEN SOIL, ROCKS OVER 6-INCHES, SOD, BRUSH, STUMPS, TREE ROOTS, WOOD OR OTHER PERISHABLE MATERIALS.
- 13. INSTALL SEDIMENT BARRIERS DOWN SLOPE OF SOIL STOCK PILES.
- 14. DO NOT SITE SOIL STOCK PILE IN AREAS OF CONCENTRATED STORMWATER FLOW OR AREAS OF POTENTIAL FLOODING.
- 15. THE DURATION OF EXPOSURE OF UNCOMPLETED CUT SLOPES, EMBANKMENTS, TRENCH EXCAVATIONS, AND SITE GRADED AREAS SHALL BE MINIMIZED. INITIATE SEEDING AND OTHER EROSION CONTROL MEASURES ON EACH SEGMENT AS SOON AS REASONABLY POSSIBLE.
- 16. SHOULD IT BECOME NECESSARY TO SUSPEND CONSTRUCTION FOR MORE THAN 7 DAYS, SHAPE AND STABILIZE ALL EXCAVATED AND GRADED AREAS. PROVIDE AND MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS BERMS, DIKES, SLOPE DRAINS, SILT STOPS, AND SEDIMENTATION BASINS, UNTIL PERMANENT DRAINAGE FACILITIES OR EROSION CONTROL FEATURES HAVE BEEN COMPLETED AND ARE OPERATIVE. IF DISTURBED AREAS ARE WITHIN 75 FEET OF A WETLAND OR WATERBODY, STABILIZE DISTURBANCE WITHIN 48 HOURS OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
- 17. FINE MATERIAL PLACED OR EXPOSED DURING THE WORK SHALL BE HANDLED AND TREATED AS TO MINIMIZE THE POSSIBILITY OF IT REACHING ANY SURFACE WATERS. USE DIVERSION CHANNELS, DIKES, SEDIMENT TRAPS, OR ANY OTHER EFFECTIVE AND APPROVED CONTROL MEASURES.
- 18. PROVIDE SILT STOPS WHEREVER EROSION CONTROL MEASURES MAY NOT BE TOTALLY CAPABLE OF CONTROLLING EROSION, SUCH AS IN DRAINAGE CHANNELS AND WHERE STEEP SLOPES MAY EXIST.
- 19. BEFORE WATER IS ALLOWED TO FLOW IN ANY DITCH, SWALE, OR CHANNEL, INSTALL THE PERMANENT EROSION CONTROL MEASURES IN THE WATERWAY
- 20. TAKE SPECIAL PRECAUTIONS IN THE USE OF CONSTRUCTION EQUIPMENT TO MINIMIZE EROSION. DO NOT LEAVE WHEEL TRACKS WHERE EROSION MIGHT
- 21. MULCHING SHALL FOLLOW THE SEEDING OPERATION BY NOT MORE THAN 24 HOURS.
- 22. SHOULD ANY PROTECTIVE MEASURES EMPLOYED INDICATE ANY DEFICIENCIES OR EROSION TAKING PLACE, IMMEDIATELY PROVIDE ADDITIONAL MATERIALS
- 23. DISTURBANCE WITHIN 30 FEET OF ANY PROTECTED NATURAL RESOURCE WILL REQUIRE DOUBLING THE PERIMETER EROSION CONTROLS AND DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS.

- 24. CONTINUE EROSION CONTROL MEASURES UNTIL THE PERMANENT MEASURES HAVE BEEN SUFFICIENTLY ESTABLISHED AND ARE CAPABLE OF CONTROLLING EROSION ON THEIR OWN.
- 25. REMOVE ALL TEMPORARY CONTROL MEASURES WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.
- 26. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN THE BEST MANAGEMENT PRACTICES OF MAINE AS PREPARED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 27. AREAS CONTAINING EXPOSED SOILS MUST BE STABILIZED WITHIN 7 DAYS OF CESSATION OF AN ACTIVITY.
- 28. BEGIN PERMANENT STABILIZATION WITHIN 7 DAYS OF OBTAINING FINAL GRADE.

29. WINTERIZATION SCHEDULE

- ALL STONE LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15TH.
- ALL STONE COVERED SLOPES SHALL BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15TH. ALL DISTURBED SLOPES HAVING A SLOPE LESS THAN 15% TO BE SEEDED AND MULCHED BY SEPTEMBER 15TH.
- ALL VEGETATED SLOPE GREATER THAN 15% TO BE SEED AND MULCHED BY SEPTEMBER 1ST. ALL VEGETATED DITCHES AND CHANNELS TO BE SEEDED AND MULCHED BY SEPTEMBER 1ST.

30. SITE WINTERIZATION

- IF THE SEPTEMBER 1ST DEADLINE CANNOT BE MET FOR VEGETATED SLOPES, THEN BY OCTOBER 1ST THE SLOPE SHALL BE SEEDED WITH WINTER RYE AT THE RATE OF 3 POUNDS PER 1000 SQUARE FEET AND COVERED WITH EROSION CONTROL MATS OR ANCHORED MULCH. IF RYE FAILS TO GROW 3 INCHES BY NOVEMBER 1ST THE SLOPE SHALL BE COVERED WITH AN EROSION CONTROL MIX OR COVERED WITH STONE
- IF THE SEPTEMBER 1ST DEADLINE CANNOT BE MET FOR GRASSED LINED DITCHES, THEN A SOD OR STONE LINING SHALL BE INSTALLED.
- IF THE SEPTEMBER 15TH DEADLINE CANNOT BE MET FOR DISTURBED AREAS WITH A SLOPE LESS THAN 15%, THEN BY NOVEMBER 15TH MULCH AREAS AT A RATE OF 150 POUNDS PER 1000 SQUARE FEET SUCH THAT NO SOIL IS VISIBLE THROUGH MULCH.

31. WINTER CONSTRUCTION

- WINTER CONSTRUCTION IS CONSTRUCTION ACTIVITY PERFORMED BETWEEN NOVEMBER 1ST AND APRIL 15TH.
- IF AN AREA IS NOT STABILIZED IN ACCORDANCE WITH THE ABOVE SCHEDULE OR PERMANENTLY STABILIZED THAN ADDITIONAL STABILIZATION MEASURES MUST BE EMPLOYED.
- PERMANENT STABILIZATION CONSISTS OF AT LEAST 90% VEGETATION. PAVEMENT, GRAVEL BASE OR RIPRAP
- APPLY HAY MULCH AT 150 POUNDS PER 1000 SQUARE FEET SUCH THAT NO SOIL IS VISIBLE THROUGH MULCH.
- USE MULCH AND NETTING OR AN EROSION CONTROL BLANKET OR MIX ON ALL SLOPES GRATER THAT 8 PERCENT. INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3 PERCENT.
- WINTER EXCAVATION AND EARTH WORK SHALL NOT EXPOSE MORE THAN 1 ACRE OF THE SITE WITHOUT STABILIZATION AT ANY ONE TIME.
- IN AN AREA WITHIN 75 FEET OF A NATURAL PROTECTED RESOURCE, DOUBLE ROW SEDIMENT BARRIERS SHALL BE INSTALLED. • TEMPORARY MULCH MUST BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKING DAY
- IN AREAS WITHIN 75 FEET OF A NATURAL PROTECTED RESOURCE.
- AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE SHALL BE MULCHED THE SAME DAY. NO MULCH SHALL BE SPREAD OVER SNOW. SNOW SHALL BE REMOVED WITHIN ONE QUARTER INCH PRIOR TO MULCHING.
- LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE BEING APPLIED.
- INSPECT WEEKLY AND AFTER EACH STORM TO CHECK FOR EROSION AND REPAIR IMMEDIATELY. • IN SPRING, REMOVE ANY EXCESS MULCH, SEED AND MONITOR FOR EROSION AND PLANT GROWTH.
- 32. EXCAVATION DE-WATERING: EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFERDAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER
- THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN OR DIRTBAG GEOTEXTILE SEDIMENT FILTER. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE MAINE DEP. NOTE: DEWATERING CONTROLS ARE DISCUSSED IN THE "MAINE EROSION AND SEDIMENT CONTROL BMPS, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION."
- 33. A DEWATERING PLAN IS NEEDED TO ADDRESS EXCAVATION DE-WATERING FOLLOWING HEAVY RAINFALL OR WHERE THE EXCAVATION MY INTERCEPT THE GROUNDWATER TABLE DURING CONSTRUCTION. PRIOR TO ANY DEWATERING ACTIVITIES SUBMIT A DEWATERING PLAN TO OWNER AND ENGINEER FOR APPROVAL.
- 34. FUGITIVE SEDIMENT AND DUST: ACTION MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEPT IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE PER WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST.
- 35. IN LIEU OF SILT FENCE, EROSION CONTROL MIX CAN BE USED IF THE FOLLOWING CONDITIONS ARE MET. FOLLOW GUIDELINE IN THE MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE, 2014.
- THE EROSION CONTROL MIX BERM SHOULD BE MINIMUM OF 12"HIGH AND A MINIMUM OF 2' WIDE. ON STEEPER SLOPES, THE BERM WILL NEED
- TO BE WIDER AND HIGHER. BERMS COMPOSED OF EROSION CONTROL MIX CAN BE SHAPED WHEN NECESSARY. • THE EROSION CONTROL MIX MUST BE WELL—GRADED WITH AN ORGANIC COMPONENT THAT IS BETWEEN 50 AND 100% OF DRY WEIGHT, AND THAT IS COMPOSED OF FIBROUS AND ELONGATED FRAGMENTS. THE MINERAL PORTION OF THE MIX SHOULD BE NATURALLY INCLUDED IN THE PRODUCT WITH NO ROCKS LARGER THAN 4"OR LARGE AMOUNTS OF FINES (SILTS AND CLAYS). IN STUMP GRINDING, THE MINERAL SOIL ORIGINATES FROM THE ROOT BALL AND SHOULD NOT BE REMOVED BEFORE GRINDING. THE MIX SHOULD BE FREE OF REFUSE, MATERIAL TOXIC TO PLANT GROWTH OR UNSUITABLE MATERIAL (BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR PROCESSES WOOD PRODUCTS).

- COMPLETE SEEDING WITHIN 7 DAYS OF FINAL GRADING. BROADCAST SEED OVER ENTIRE DITCH AND SURFACE AND RAKE INTO SOIL.
- APPLY HAY MULCH TO ALL SEEDED AREAS.

PERENNIAL RYE GRASS

- SUMMER SEEDING DATES ARE FROM APRIL 1 TO SEPTEMBER 15. PERMANENT SEEDING SHOULD BE DONE 45 DAYS BEFORE A KILLING FROST.
- THE SEED MIXTURE SHOULD BE PROPORTIONED BY WEIGHT AS FOLLOWS:
- POUNDS/ACRE KENTUCKY BLUEGRASS CREEPING RED FESCUE 20

- 37. MULCHING: • APPLY TEMPORARY MULCH ON DISTURBED AREAS WITHIN 7 DAYS OF INITIAL DISTURBANCE OR PRIOR TO ANY STORM.
- DO NOT APPLY EROSION CONTROL MIX OR HAY MULCH IN CONCENTRATED WATER FLOWS.
- DO NOT USE EROSION CONTROL MIX OR HAY MULCH FOR SLOPES STEEP THAN 2:1. • USE HAY MULCH AS A TEMPORARY MEASURE TO PROTECT BARE SOILS OR TO COVER NEWLY SEEDED AREAS.
- APPLY AT A RATE OF TWO SQUARE BALES (70-90 POUNDS) PER 1,000 SQUARE FEET.

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SO THAT THE WATERWAY WILL BE SAFE AGAINST EROSION. OR EMPLOY DIFFERENT TECHNIQUES TO CORRECT THE SITUATION AND TO PREVENT SUBSEQUENT EROSION.

Do Not Use for Construction For Regulatory Review Only

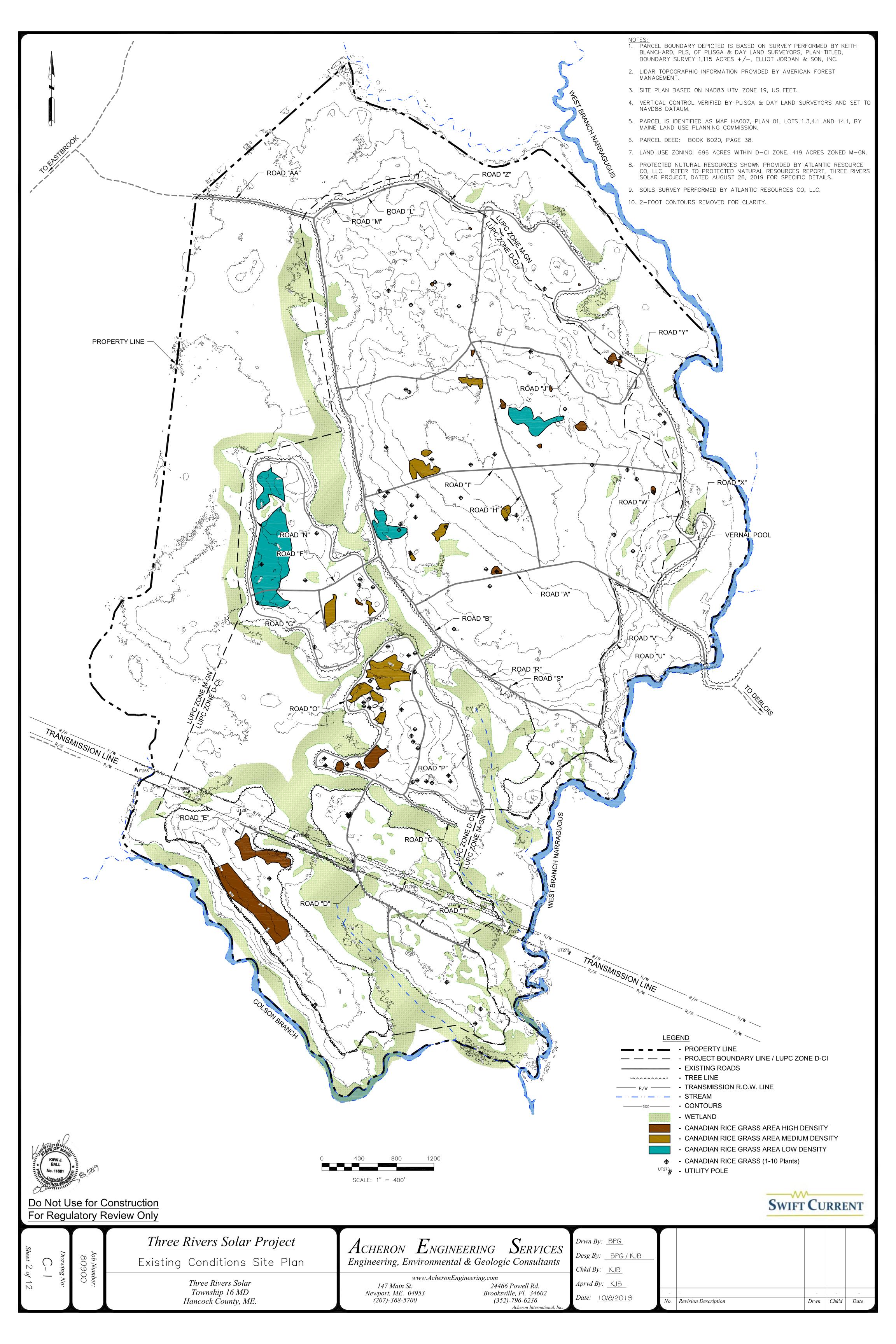


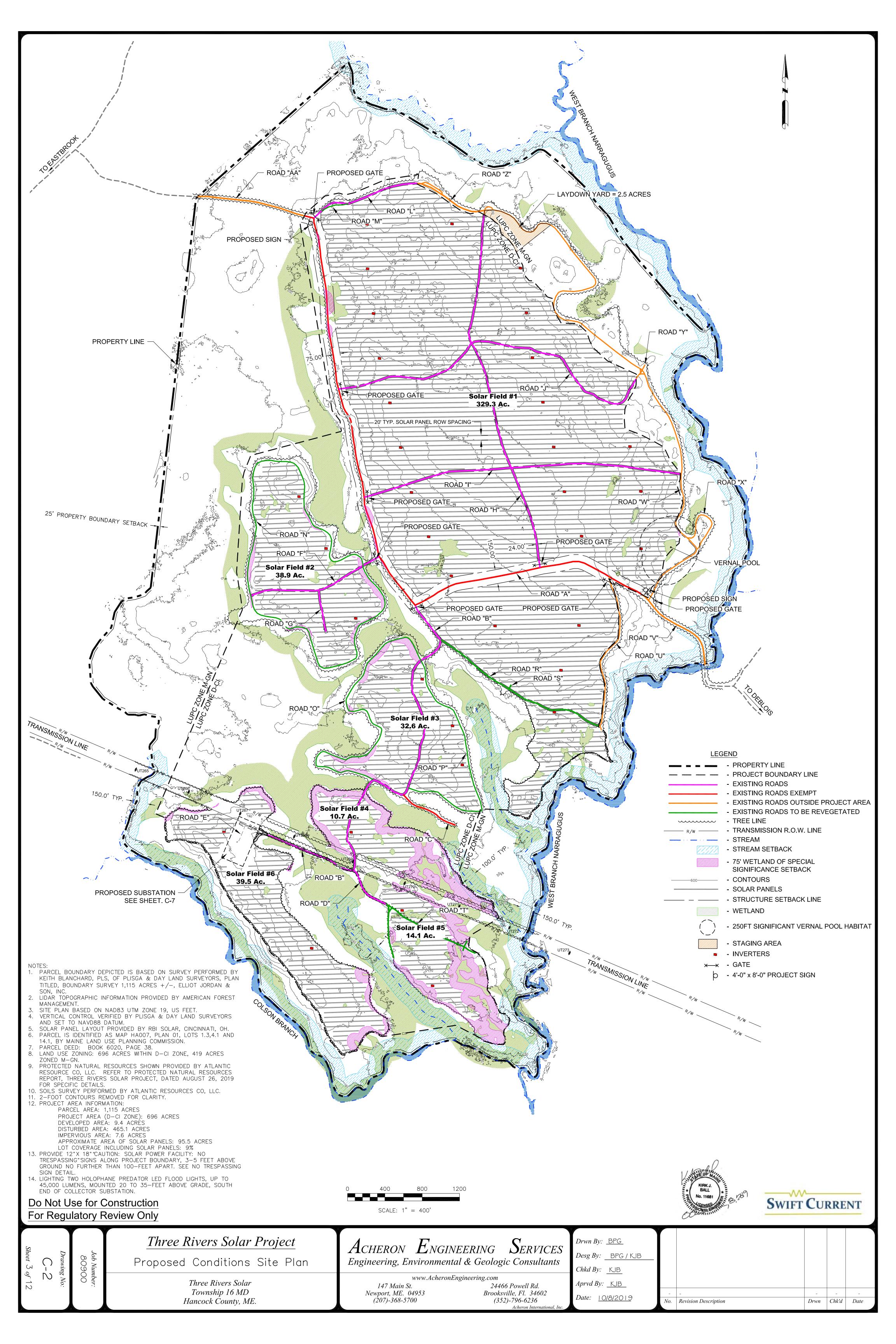
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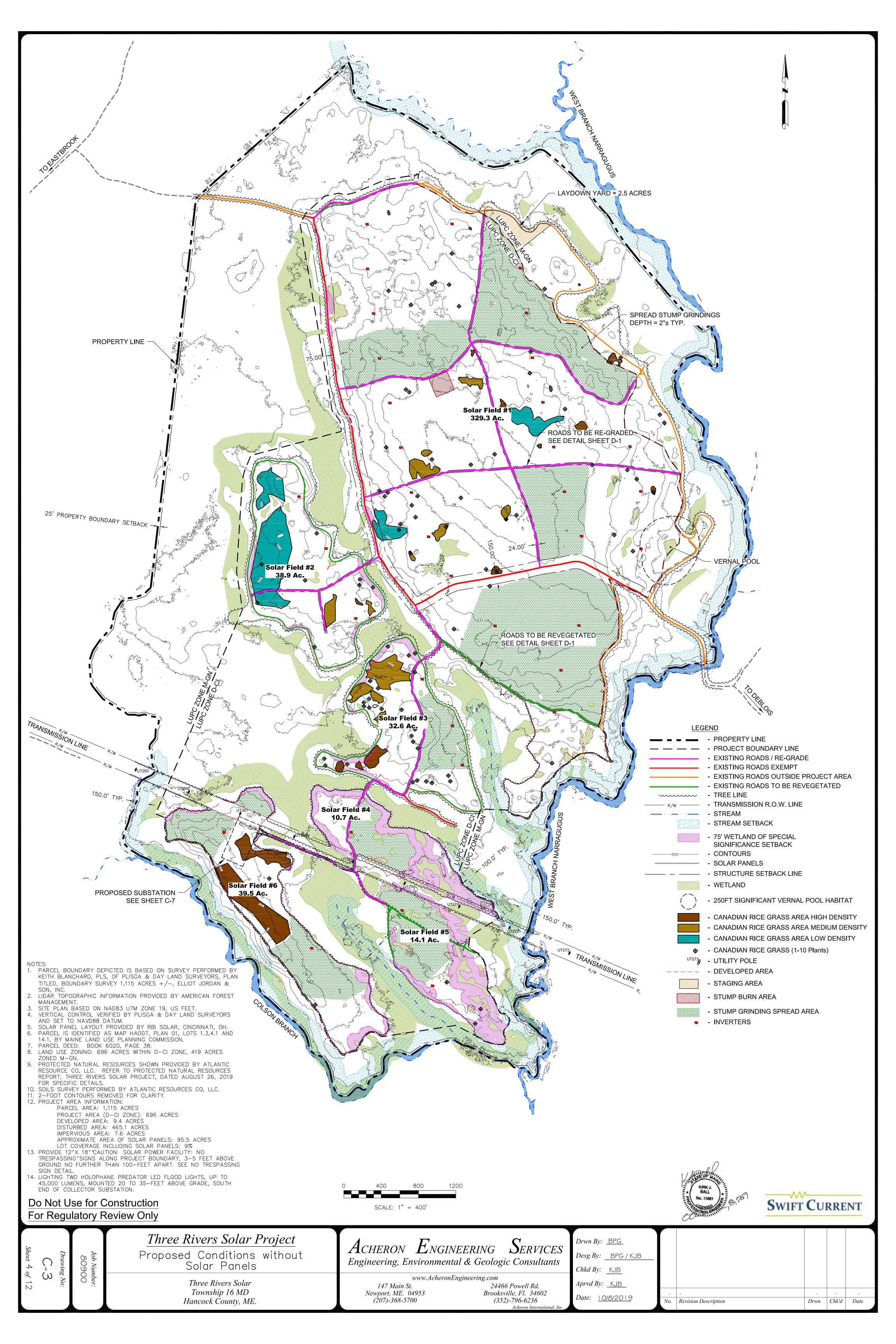
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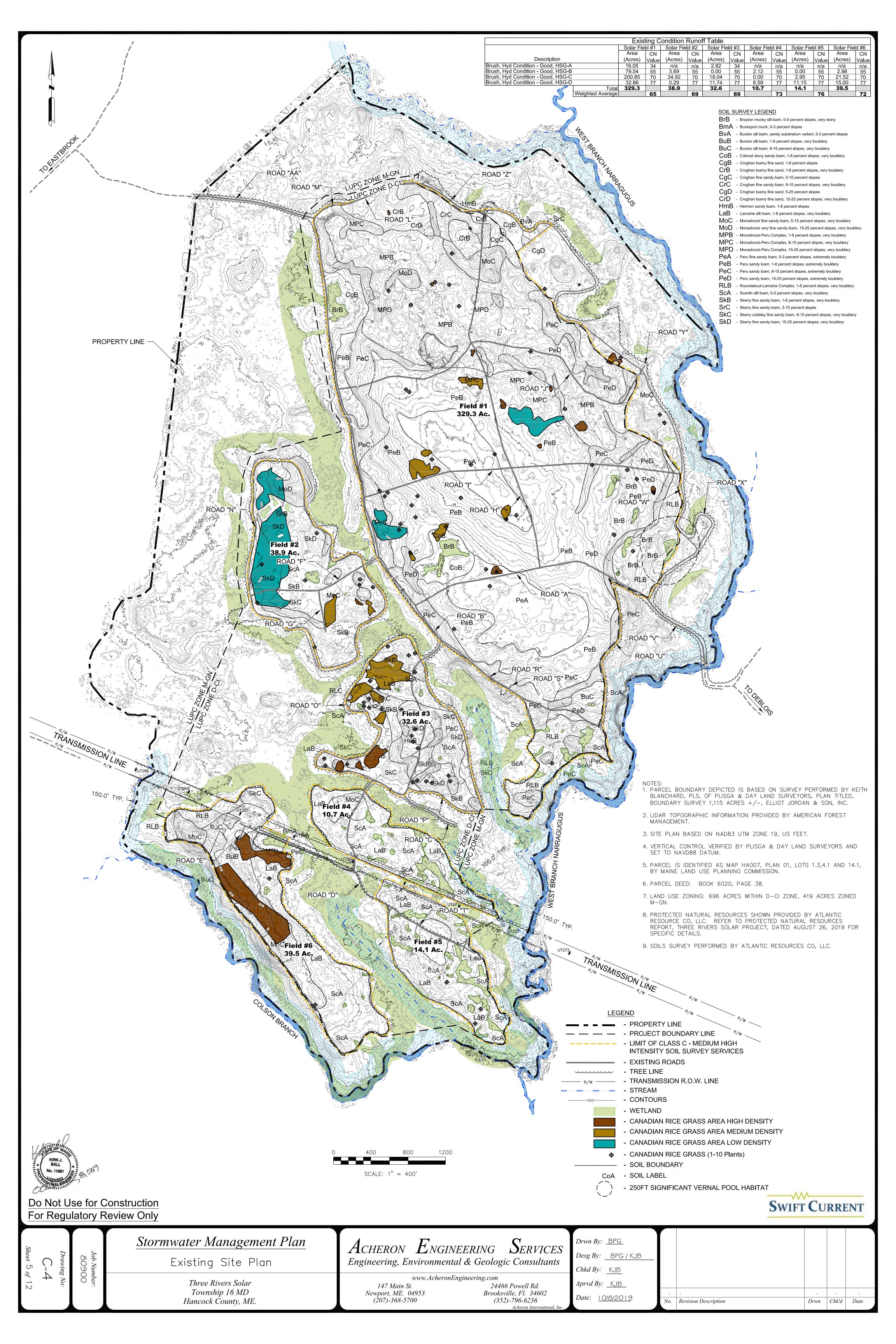
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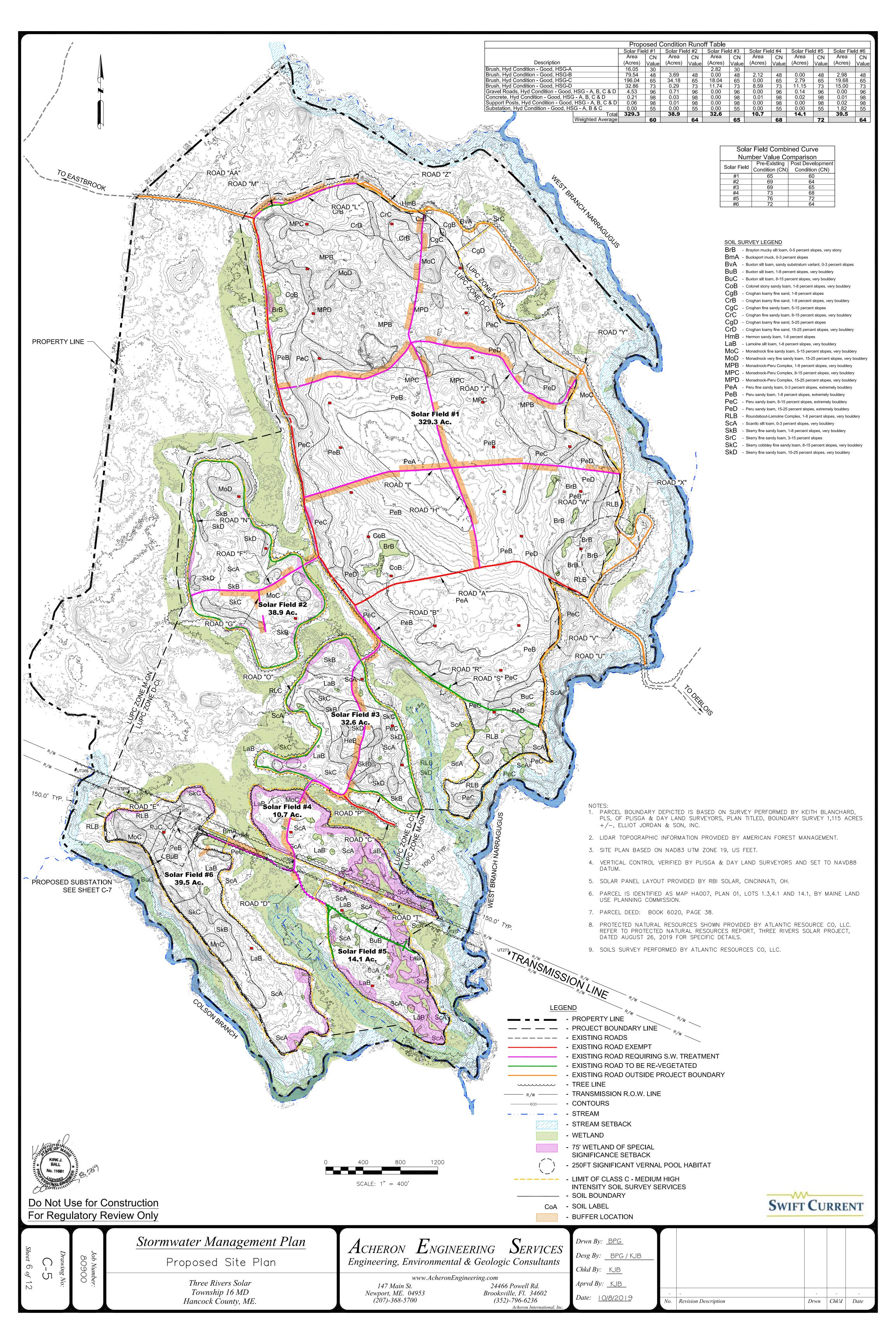
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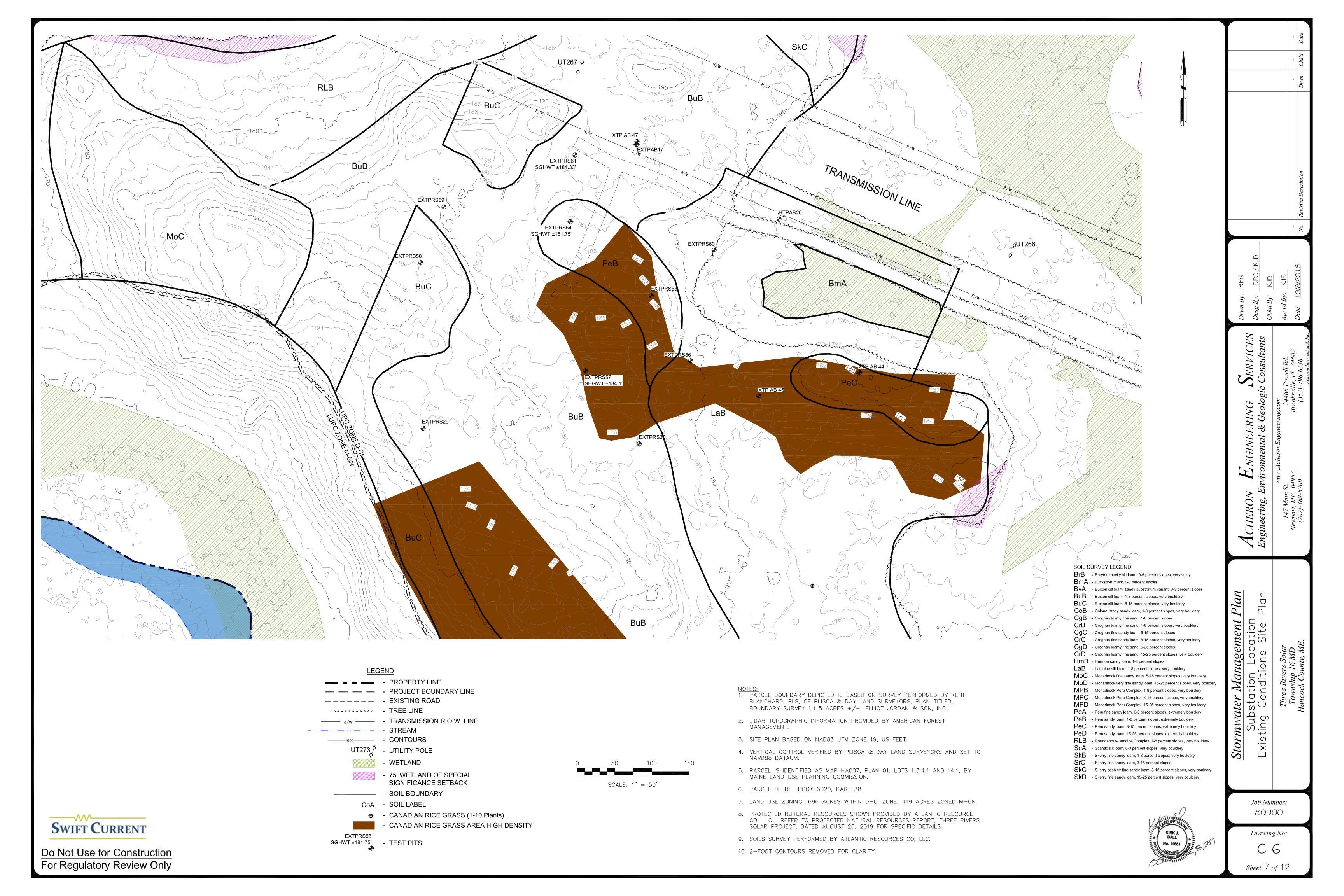


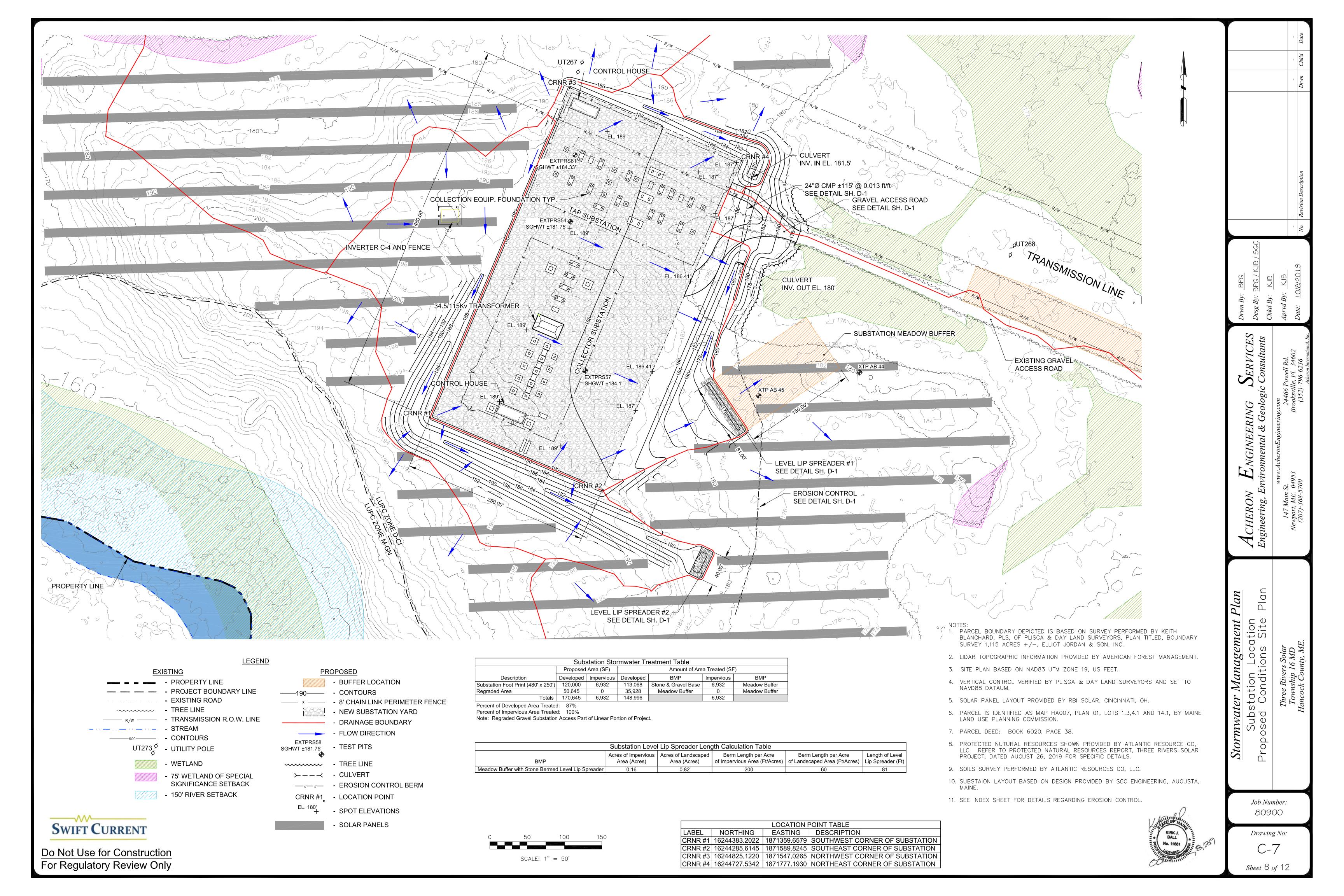


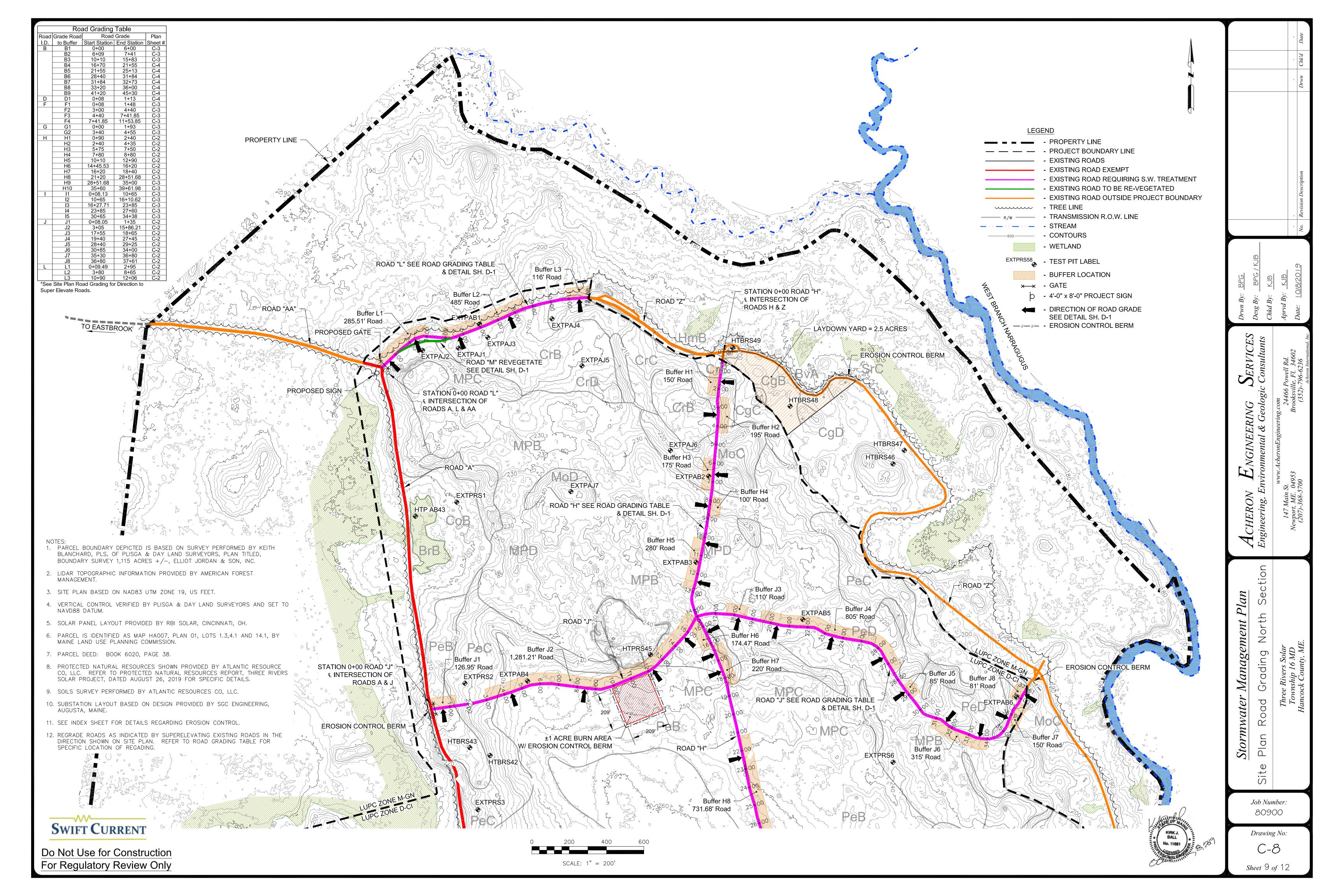


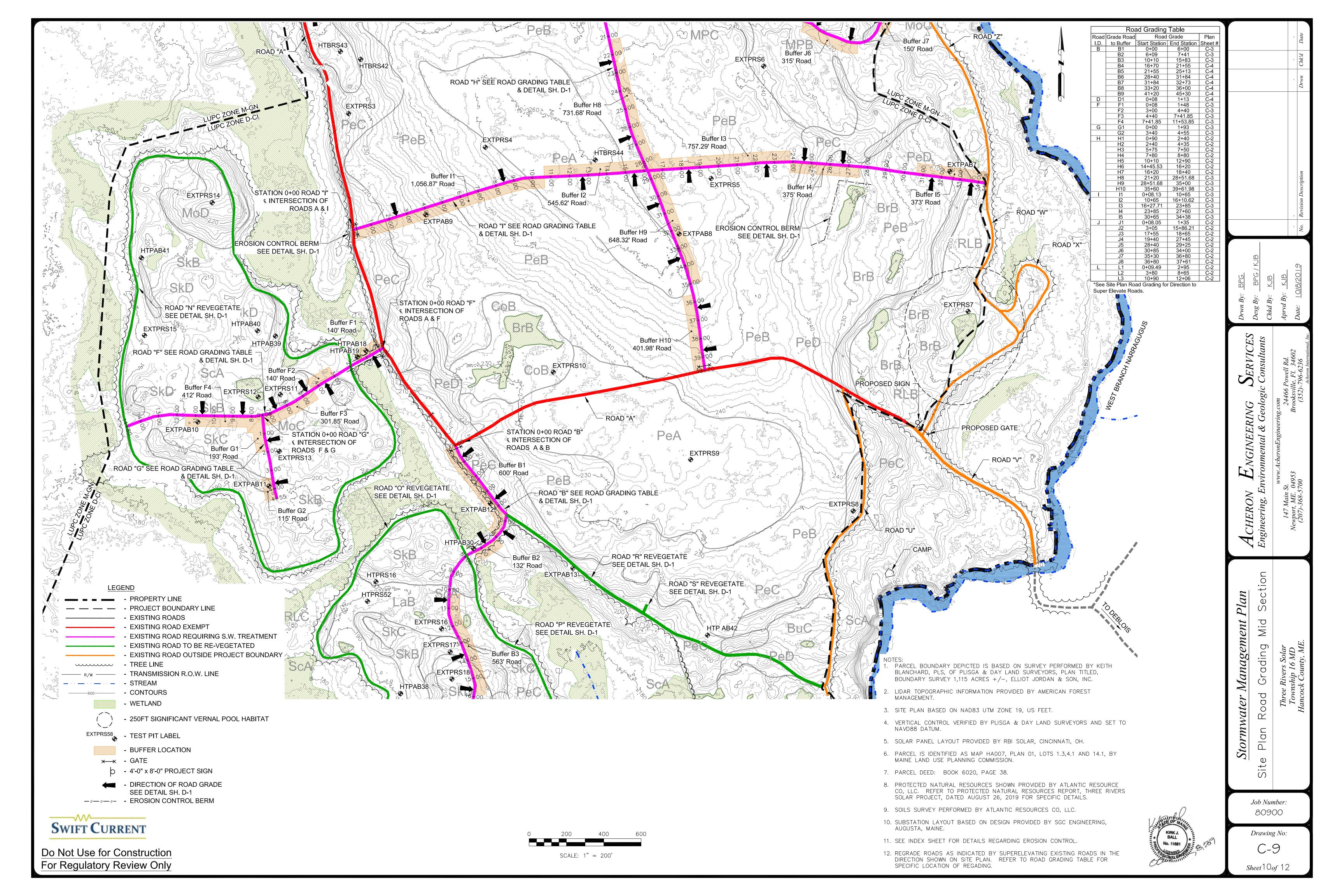


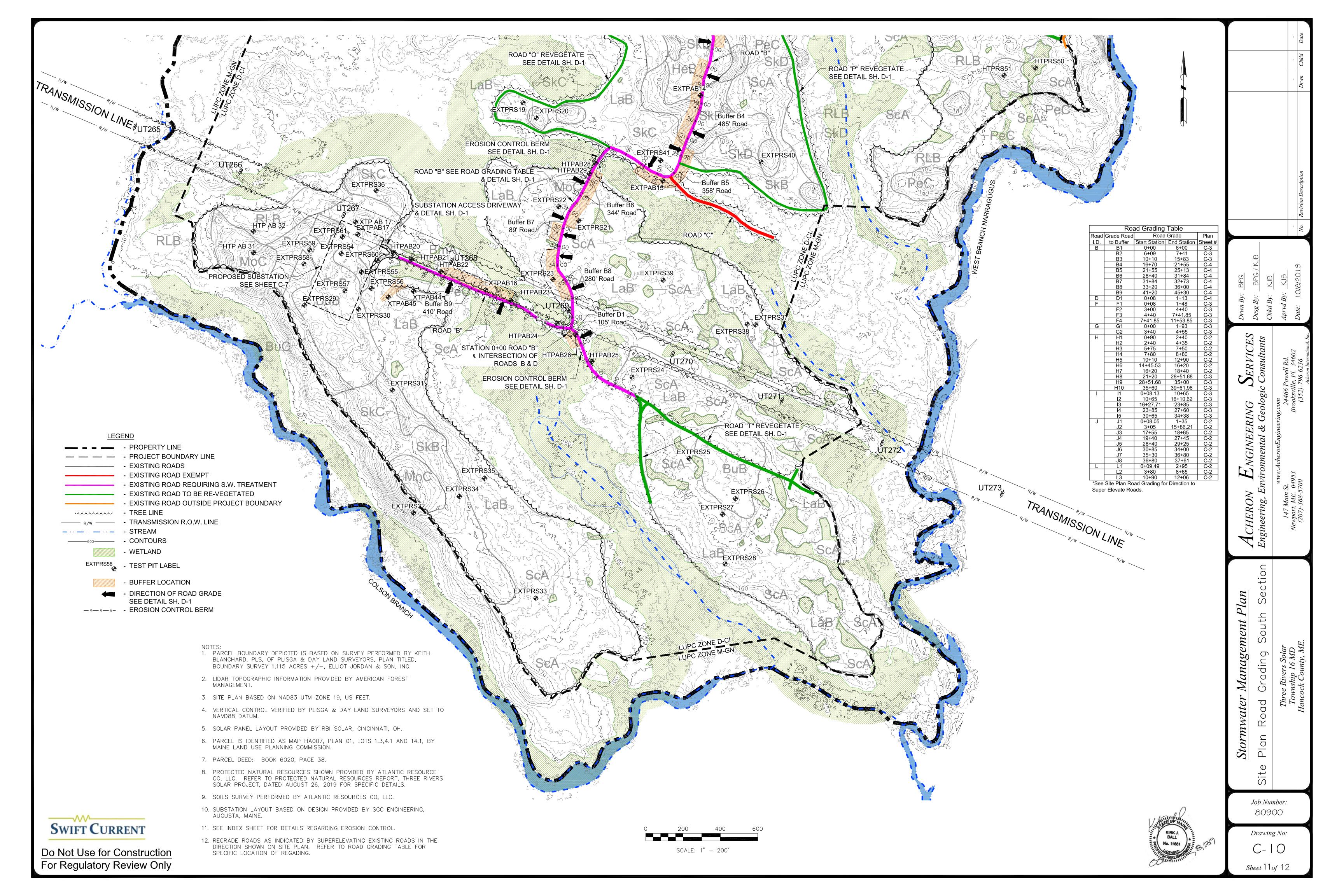


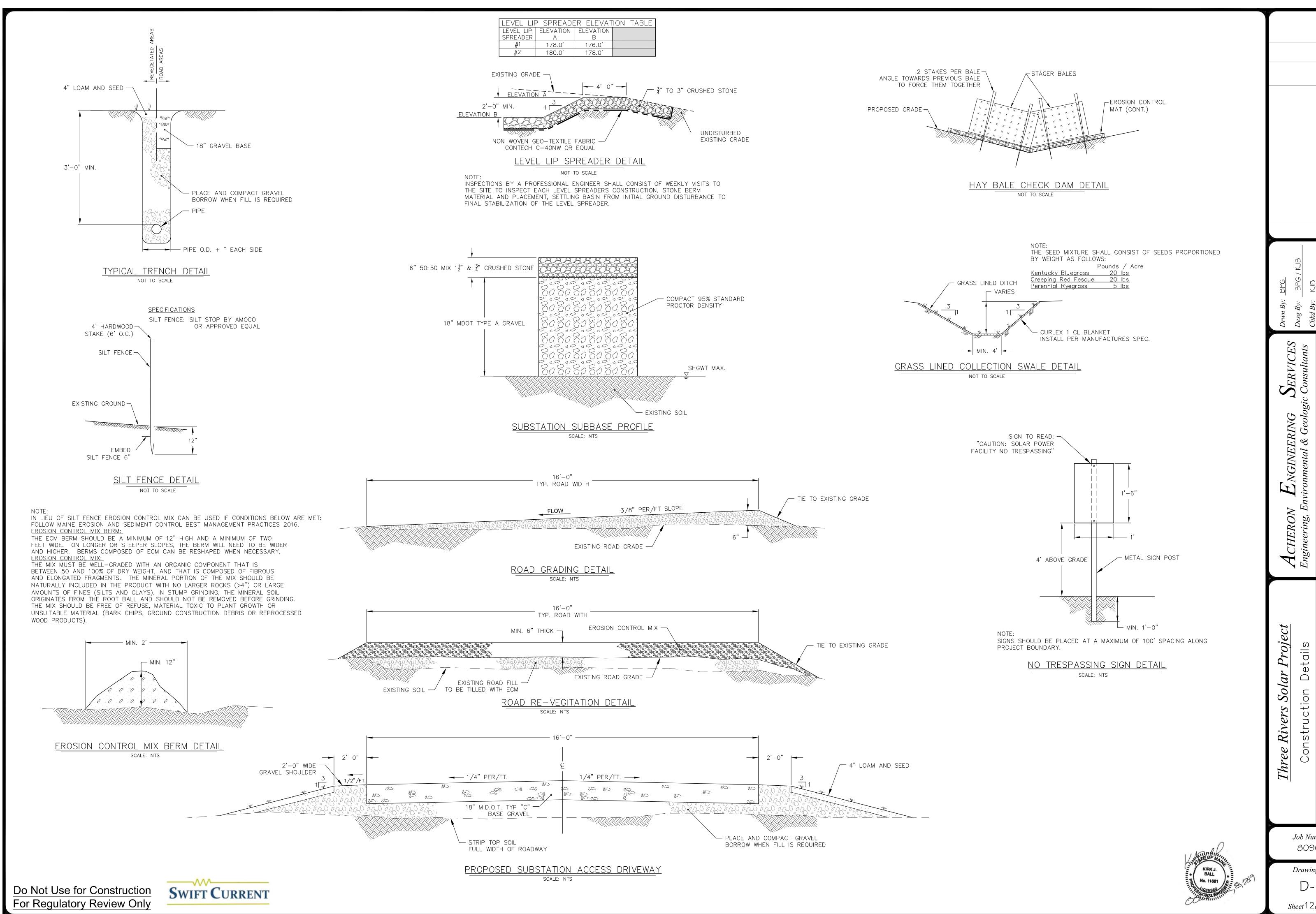








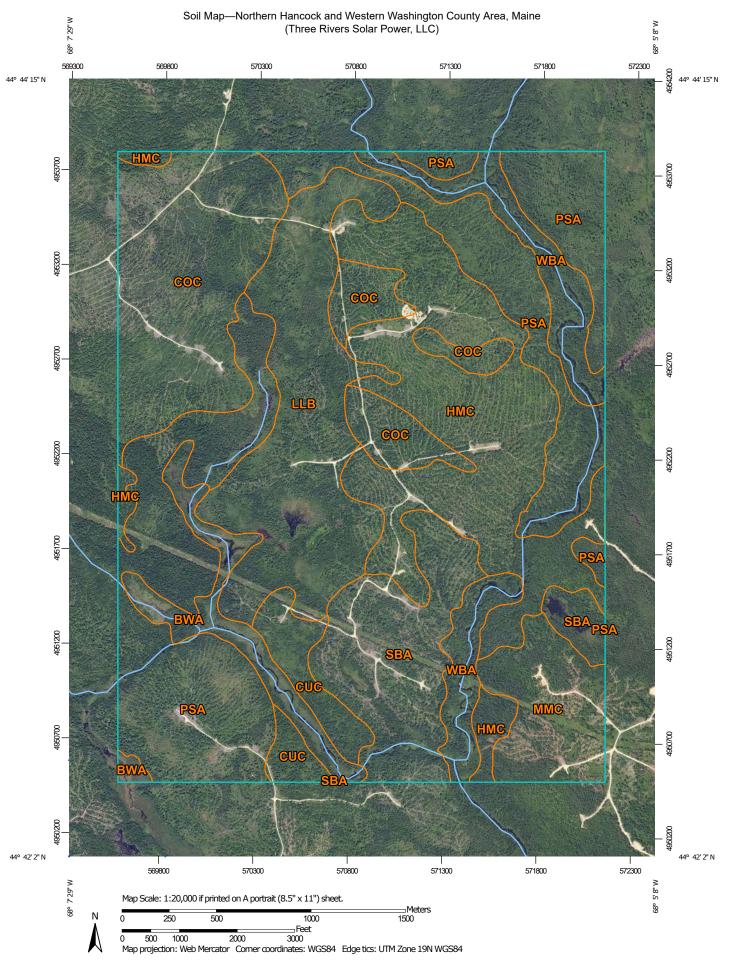




Job Number: 80900 Drawing No:

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Appendix F SCS-Soils Map



MAP LEGEND

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

... Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Northern Hancock and Western Washington

County Area, Maine

Survey Area Data: Version 9, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 27, 2010—Aug 31, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BWA	Bucksport and Wonsqueak mucks, 0 to 2 percent slopes	83.6	3.9%
COC	Colonel-Skerry-Brayton association, 0 to 15 percent slopes, very stony	342.5	16.1%
CUC	Colton-Hermon association, 5 to 15 percent slopes, very bouldery	65.4	3.1%
HMC	Hermon-Monadnock-Peru complex, 0 to 15 percent slopes, very bouldery	393.9	18.5%
LLB	Lamoine-Scantic-Colonel complex, 0 to 8 percent slopes, very stony	294.1	13.8%
MMC	Masardis-Adams complex, 3 to 15 percent slopes	107.2	5.0%
PSA	Pushaw-Swanville association, 0 to 3 percent slopes	519.3	24.4%
SBA	Scantic-Biddeford complex, 0 to 3 percent slopes	199.8	9.4%
WBA	Wonsqueak and Bucksport mucks, 0 to 2 percent slopes, frequently flooded	126.6	5.9%
Totals for Area of Interest		2,132.4	100.0%