

## 14.0 BASIC STANDARDS

The Erosion Sedimentation, Inspection & Maintenance Plan (Exhibit 14-1) and the Stormwater Management Plan (Exhibit 12-1) were developed 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.

Details regarding soil types can be found in the Soils Report (Exhibit 11-1), as well as the Stormwater Management Plan (Exhibit 12-1). There are no erosion problems currently existing at the project site. Protected natural resources are identified in the Protected Natural Resources Report (Section 7). Critical areas and design drawings to support erosion control measures and site stabilization can be found in the Stormwater Management Plan (Exhibit 12-1). The Sedimentation & Erosion Control Plan (Exhibit 14-1) include details to further support erosion control measures and site stabilization.

An implementation schedule can be found in the Design drawings of the Erosion and Sediment Control Plan in Section 14 (Exhibit 14-1). Details for temporary and permanent measures, design calculations, stabilization plan, and winter construction plan can be found in Stormwater, Section 12 (Exhibit 12-1).

**Exhibit 14-1**  
Three Rivers Solar Erosion and Sedimentation Control Inspection and  
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                      24466 Powell Road  
Newport, Maine 04953              Brooksville, Florida 34602  
(207) 368-5700                      (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 1<sup>st</sup> to April 15<sup>th</sup>)

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. Level Spreaders:

- 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:

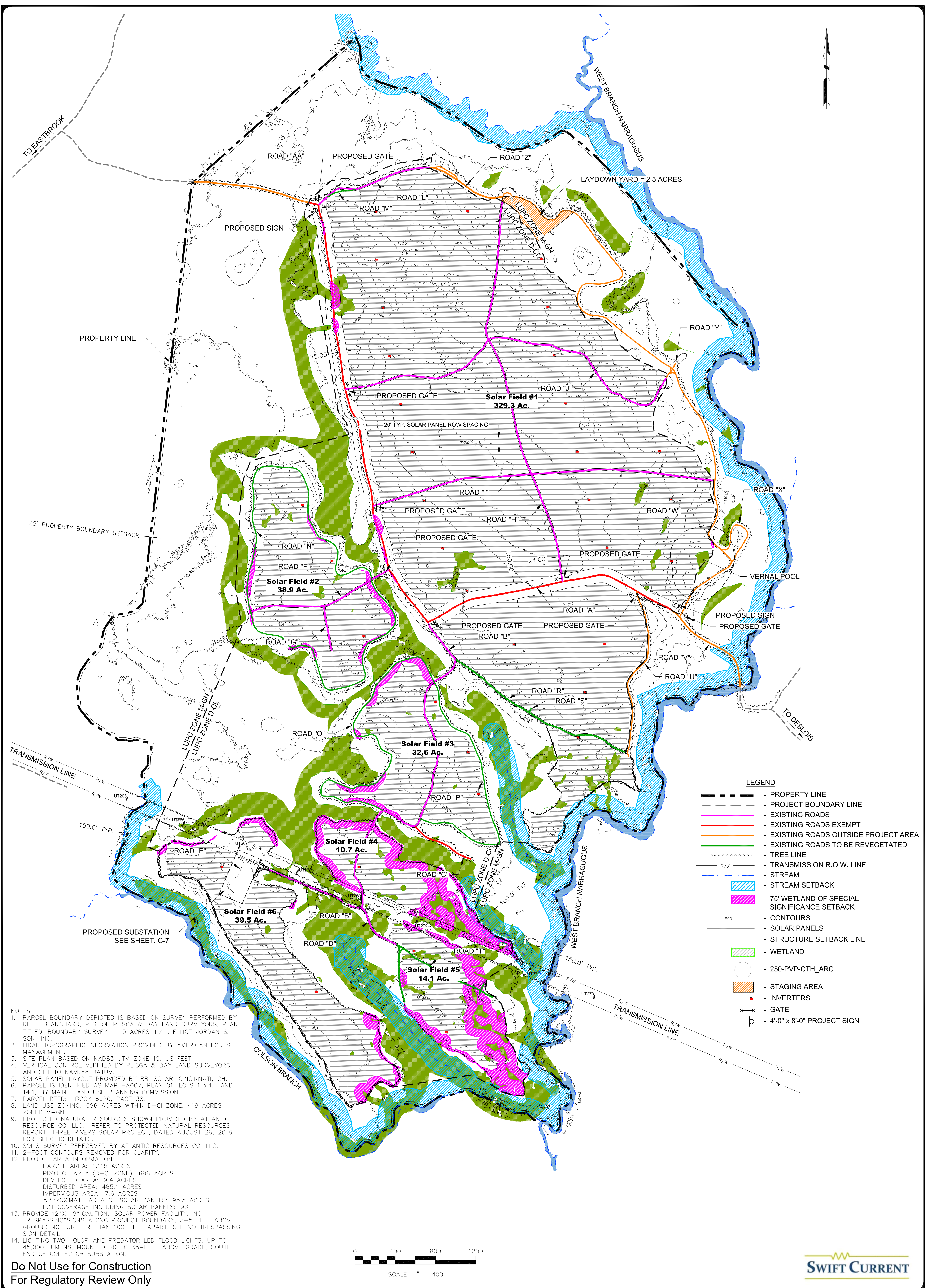
1. Discharges from firefighting activity;
2. Fire hydrant flushings;
3. Vehicle wash water if detergents are not used and washing is limited to the exterior of vehicles (engine, undercarriage and transmission washing is prohibited);
4. Dust control runoff in accordance with permit conditions;
5. Routine 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:

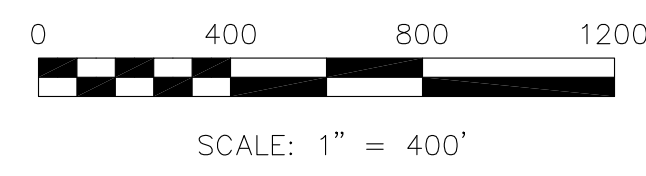
1. Wastewater from the washout or cleanout of concrete, stucco, paint, form release oils, curing compounds or other construction materials;
2. Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance;
3. Soaps, solvents, or detergents used in vehicle and equipment washing;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

## **APPENDIX A: PLAN**



- NOTES:
1. PARCEL BOUNDARY DEPICTED IS BASED ON SURVEY PERFORMED BY KEITH BLANCHARD, PLS, OF PLISGA & DAY LAND SURVEYORS, PLAN TITLED, BOUNDARY SURVEY 1,115 ACRES +/-, ELLIOT JORDAN & SON, INC.
  2. LIDAR TOPOGRAPHIC INFORMATION PROVIDED BY AMERICAN FOREST MANAGEMENT.
  3. SITE PLAN BASED ON NAD83 UTM ZONE 19, US FEET.
  4. VERTICAL CONTROL VERIFIED BY PLISGA & DAY LAND SURVEYORS AND SET TO NAVD83 DATUM.
  5. SOLAR PANEL LAYOUT PROVIDED BY RBI SOLAR, CINCINNATI, OH.
  6. PARCEL IS IDENTIFIED AS MAP HA007, PLAN 01, LOTS 1.3, 4.1 AND 14.7, BY MAINE LAND USE PLANNING COMMISSION.
  7. PARCEL DEED: BOOK 6020, PAGE 38.
  8. LAND USE ZONING: 696 ACRES WITHIN D-CI ZONE, 419 ACRES ZONED M-GN.
  9. PROTECTED NATURAL RESOURCES SHOWN PROVIDED BY ATLANTIC RESOURCE CO, LLC. REFER TO PROTECTED NATURAL RESOURCES REPORT, THREE RIVERS SOLAR PROJECT, DATED AUGUST 26, 2019 FOR SPECIFIC DETAILS.
  10. SOILS SURVEY PERFORMED BY ATLANTIC RESOURCES CO, LLC.
  11. 2-FOOT CONTOURS REMOVED FOR CLARITY.
  12. PROJECT AREA INFORMATION:  
 PARCEL AREA: 1,115 ACRES  
 PROJECT AREA (D-CI ZONE): 696 ACRES  
 DEVELOPED AREA: 9.4 ACRES  
 DISTURBED AREA: 465.1 ACRES  
 IMPERVIOUS AREA: 7.6 ACRES  
 APPROXIMATE AREA OF SOLAR PANELS: 95.5 ACRES  
 LOT COVERAGE INCLUDING SOLAR PANELS: 9%
  13. PROVIDE 12" X 18" CAUTION: SOLAR POWER FACILITY; NO TRESPASSING SIGNS ALONG PROJECT BOUNDARY, 3-5 FEET ABOVE GROUND NO FURTHER THAN 100- FEET APART. SEE NO TRESPASSING SIGN DETAIL.
  14. LIGHTING TWO HOLOPHANE PREDATOR LED FLOOD LIGHTS, UP TO 45,000 LUMENS, MOUNTED 20 TO 35- FEET ABOVE GRADE, SOUTH END OF COLLECTOR SUBSTATION.

Do Not Use for Construction  
For Regulatory Review Only



Sheet 3 of 12 Drawing No: <b>C-2</b>	Job Number: 80900	<b>Three Rivers Solar Project</b> Proposed Conditions Site Plan		<b>ACHERON ENGINEERING SERVICES</b> Engineering, Environmental & Geologic Consultants www.AcheronEngineering.com 147 Main St. Newport, ME. 04953 (207)-368-5700	24466 Powell Rd. Brooksville, FL 34602 (352)-796-6236 Acheron International, Inc.	Drwn By: <u>BPG</u>	No.    Revision Description    Drwn    Chkd    Date
		Desg By: <u>BPG / KJB</u>	Chkd By: <u>KJB</u>			Aprvd By: <u>-</u>	

Description	Solar Field #1		Solar Field #2		Solar Field #3		Solar Field #4		Solar Field #5		Solar Field #6	
	Area (Acres)	CN Value	Area (Acres)	CN Value	Area (Acres)	CN Value	Area (Acres)	CN Value	Area (Acres)	CN Value	Area (Acres)	CN Value
Brush, Hyd Condition - Good, HSG-A	16.05	30			2.82	30						
Brush, Hyd Condition - Good, HSG-B	79.54	48	3.69	48	0.00	48	2.12	48	0.00	48	2.98	48
Brush, Hyd Condition - Good, HSG-C	196.04	65	34.18	65	18.04	65	0.00	65	2.79	65	19.68	65
Brush, Hyd Condition - Good, HSG-D	32.86	73	0.29	73	11.74	73	8.59	73	11.15	73	15.00	73
Gravel Roads, Hyd Condition - Good, HSG - A, B, C & D	4.53	96	0.71	96	0.00	96	0.00	96	0.14	96	0.00	96
Concrete, Hyd Condition - Good, HSG - A, B, C & D	0.21	98	0.03	98	0.00	98	0.01	98	0.02	98	0.01	98
Support Posts, Hyd Condition - Good, HSG - A, B, C & D	0.06	98	0.01	98	0.00	98	0.00	98	0.00	98	0.02	98
Substation, Hyd Condition - Good, HSG - A, B & C	0.00	55	0.00	55	0.00	55	0.00	55	0.00	55	1.82	55
<b>Total</b>	<b>329.3</b>		<b>38.9</b>		<b>32.6</b>		<b>10.7</b>		<b>14.1</b>		<b>39.5</b>	
<b>Weighted Average</b>	<b>60</b>		<b>64</b>		<b>65</b>		<b>68</b>		<b>72</b>		<b>64</b>	

Solar Field Combined Curve Number Value Comparison		
Solar Field	Pre-Existing Condition (CN)	Post Development Condition (CN)
#1	65	60
#2	69	64
#3	69	65
#4	73	68
#5	76	72
#6	72	64

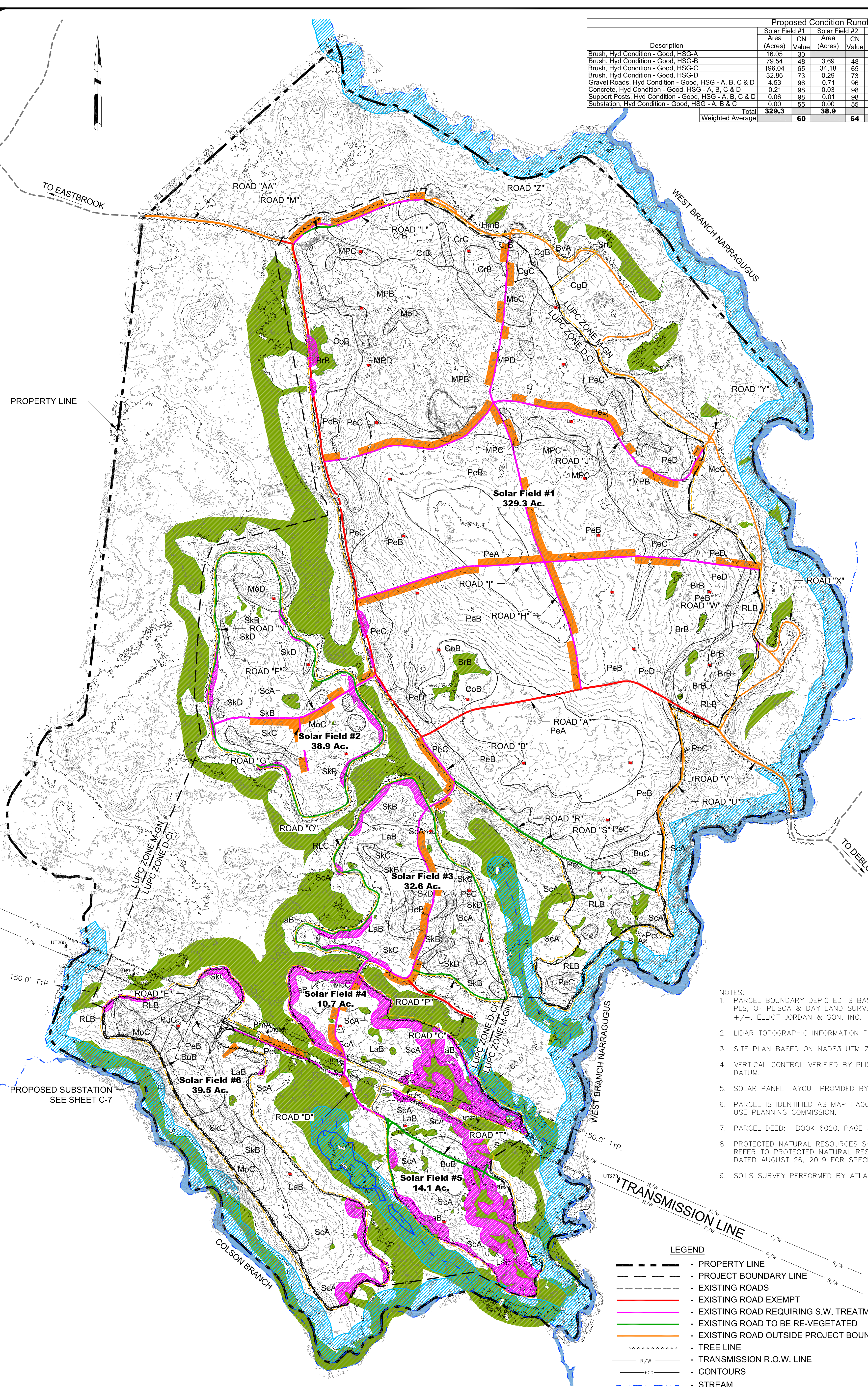
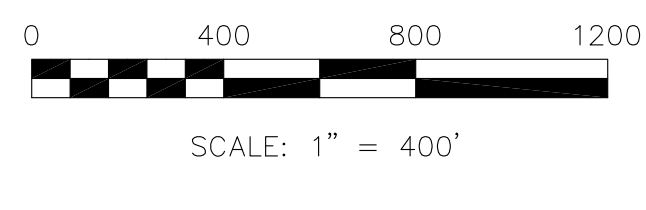
**SOIL SURVEY LEGEND**

- BrB - Brayton mucky silt loam, 0-5 percent slopes, very stony
- BmA - Bucksport muck, 0-3 percent slopes
- BvA - Buxton silt loam, sandy substratum variant, 0-3 percent slopes
- BuB - Buxton silt loam, 1-8 percent slopes, very bouldery
- BuC - Buxton silt loam, 8-15 percent slopes, very bouldery
- CoB - Colonal stony sandy loam, 1-8 percent slopes, very bouldery
- CgB - Croghan loamy fine sand, 1-8 percent slopes
- CrB - Croghan loamy fine sand, 1-8 percent slopes, very bouldery
- CgC - Croghan fine sandy loam, 5-15 percent slopes
- CrC - Croghan fine sandy loam, 8-15 percent slopes, very bouldery
- CgD - Croghan loamy fine sand, 5-25 percent slopes
- CrD - Croghan loamy fine sand, 15-25 percent slopes, very bouldery
- HmB - Hermon sandy loam, 1-8 percent slopes
- LaB - Lamolne silt loam, 1-8 percent slopes, very bouldery
- MoC - Monadnock fine sandy loam, 5-15 percent slopes, very bouldery
- MoD - Monadnock very fine sandy loam, 15-25 percent slopes, very bouldery
- MPB - Monadnock-Peru Complex, 1-8 percent slopes, very bouldery
- MPC - Monadnock-Peru Complex, 8-15 percent slopes, very bouldery
- MPD - Monadnock-Peru Complex, 15-25 percent slopes, very bouldery
- PeA - Peru fine sandy loam, 0-3 percent slopes, extremely bouldery
- PeB - Peru sandy loam, 1-8 percent slopes, extremely bouldery
- PeC - Peru sandy loam, 8-15 percent slopes, extremely bouldery
- PeD - Peru sandy loam, 15-25 percent slopes, extremely bouldery
- RLB - Roundabout-Lamoline Complex, 1-8 percent slopes, very bouldery
- ScA - Scantic silt loam, 0-3 percent slopes, very bouldery
- SkB - Skerry fine sandy loam, 1-8 percent slopes, very bouldery
- SkC - Skerry fine sandy loam, 3-15 percent slopes
- SkD - Skerry cobbly fine sandy loam, 8-15 percent slopes, very bouldery
- SKD - Skerry fine sandy loam, 15-25 percent slopes, very bouldery

- NOTES:**
- PARCEL BOUNDARY DEPICTED IS BASED ON SURVEY PERFORMED BY KEITH BLANCHARD, PLS. OF PLISGA & DAY LAND SURVEYORS, PLAN TITLED, BOUNDARY SURVEY 1,115 ACRES +/-, ELLIOT JORDAN & SON, INC.
  - LIDAR TOPOGRAPHIC INFORMATION PROVIDED BY AMERICAN FOREST MANAGEMENT.
  - SITE PLAN BASED ON NAD83 UTM ZONE 19, US FEET.
  - VERTICAL CONTROL VERIFIED BY PLISGA & DAY LAND SURVEYORS AND SET TO NAVD83 DATUM.
  - SOLAR PANEL LAYOUT PROVIDED BY RBI SOLAR, CINCINNATI, OH.
  - PARCEL IS IDENTIFIED AS MAP HA007, PLAN 01, LOTS 1,3,4,1 AND 14.1, BY MAINE LAND USE PLANNING COMMISSION.
  - PARCEL DEED: BOOK 6020, PAGE 38.
  - PROTECTED NATURAL RESOURCES SHOWN PROVIDED BY ATLANTIC RESOURCE CO, LLC. REFER TO PROTECTED NATURAL RESOURCES REPORT, THREE RIVERS SOLAR PROJECT, DATED AUGUST 26, 2019 FOR SPECIFIC DETAILS.
  - SOILS SURVEY PERFORMED BY ATLANTIC RESOURCES CO, LLC.

**LEGEND**

- PROPERTY LINE
- PROJECT BOUNDARY LINE
- EXISTING ROADS
- EXISTING ROAD EXEMPT
- EXISTING ROAD REQUIRING S.W. TREATMENT
- EXISTING ROAD TO BE RE-VEGETATED
- EXISTING ROAD OUTSIDE PROJECT BOUNDARY
- TREE LINE
- TRANSMISSION R.O.W. LINE
- CONTOURS
- STREAM
- STREAM SETBACK
- WETLAND
- 75' WETLAND OF SPECIAL SIGNIFICANCE SETBACK
- 250-PVP-CTH\_ARC
- LIMIT OF CLASS C - MEDIUM HIGH INTENSITY SOIL SURVEY SERVICES
- SOIL BOUNDARY
- SOIL LABEL
- BUFFER LOCATION



Do Not Use for Construction  
For Regulatory Review Only

**Stormwater Management Plan**

Proposed Site Plan

Three Rivers Solar  
Township 16 MD  
Hancock County, ME.

**ACHERON ENGINEERING SERVICES**  
Engineering, Environmental & Geologic Consultants

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

Drwn By: BPG  
Desg By: \_\_\_\_\_  
Chkd By: \_\_\_\_\_  
Aprvd By: \_\_\_\_\_  
Date: \_\_\_\_\_

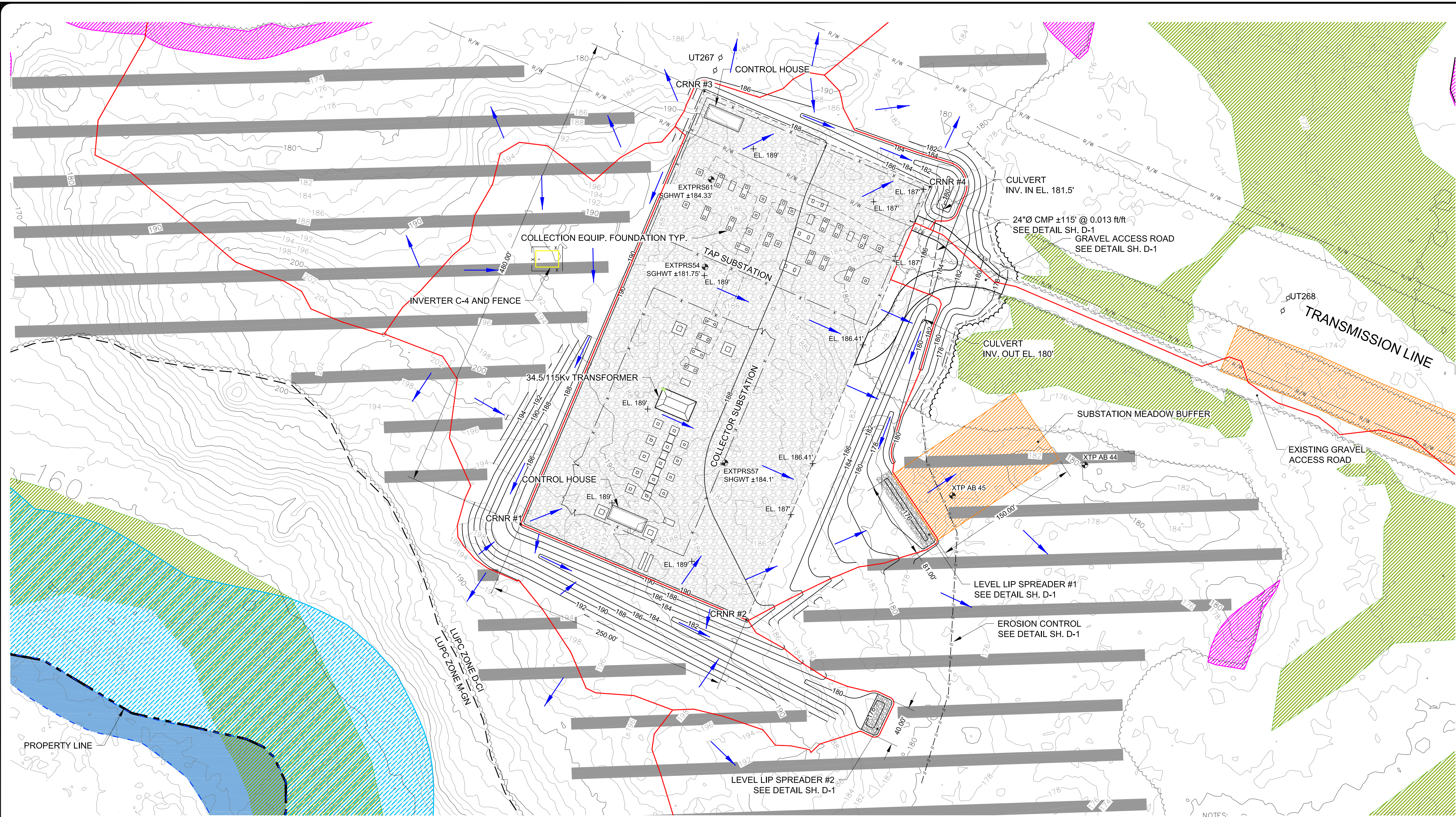
No.	Revision Description	Drwn	Chkd	Date



Job Number:  
80900

Drawing No:  
C-5

Sheet 6 of 12



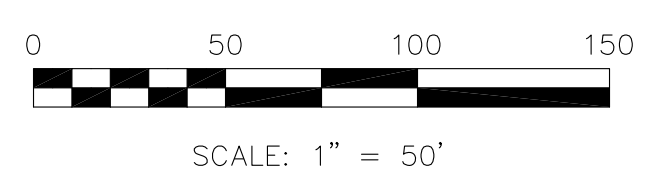
EXISTING		LEGEND		PROPOSED	
	PROPERTY LINE		BUFFER LOCATION		BUFFER LOCATION
	PROJECT BOUNDARY LINE		CONTOURS		CONTOURS
	EXISTING ROAD		8' CHAIN LINK PERIMETER FENCE		8' CHAIN LINK PERIMETER FENCE
	TREE LINE		NEW SUBSTATION YARD		NEW SUBSTATION YARD
	TRANSMISSION R.O.W. LINE		DRAINAGE BOUNDARY		DRAINAGE BOUNDARY
	CONTOURS		FLOW DIRECTION		FLOW DIRECTION
	UTILITY POLE		TEST PITS		TEST PITS
	WETLAND		TREE LINE		TREE LINE
	75' WETLAND OF SPECIAL SIGNIFICANCE SETBACK		CULVERT		CULVERT
	150' RIVER SETBACK		EROSION CONTROL BERM		EROSION CONTROL BERM
			CRNR #1		CRNR #1
			LOCATION POINT		LOCATION POINT
			SPOT ELEVATIONS		SPOT ELEVATIONS
			SOLAR PANELS		SOLAR PANELS

Description	Proposed Area (SF)		Amount of Area Treated (SF)		
	Developed	Impervious	Developed	Impervious	BMP
Substation Foot Print (480' x 250')	120,000	6,932	113,068	6,932	Meadow Buffer
Regraded Area	50,645	0	35,928	0	Meadow Buffer
<b>Totals</b>	<b>170,645</b>	<b>6,932</b>	<b>148,996</b>	<b>6,932</b>	

Percent of Developed Area Treated: 87%  
 Percent of Impervious Area Treated: 100%  
 Note: Regraded Gravel Substation Access Part of Linear Portion of Project.

BMP	Acres of Impervious Area (Acres)	Acres of Landscaped Area (Acres)	Berm Length per Acre of Impervious Area (Fu/Acres)	Berm Length per Acre of Landscaped Area (Fu/Acres)	Length of Level Lip Spreader (Ft)
Meadow Buffer with Stone Bermed Level Lip Spreader	0.16	0.82	200	60	81

LABEL	NORTHING	EASTING	DESCRIPTION
CRNR #1	16244383.2022	1871359.6579	SOUTHWEST CORNER OF SUBSTATION
CRNR #2	16244285.6145	1871589.8245	SOUTHEAST CORNER OF SUBSTATION
CRNR #3	16244825.1220	1871547.0265	NORTHWEST CORNER OF SUBSTATION
CRNR #4	16244727.5342	1871777.1930	NORTHEAST CORNER OF SUBSTATION



- NOTES:
- PARCEL BOUNDARY DEPICTED IS BASED ON SURVEY PERFORMED BY KEITH BLANCHARD, PLS. OF PLISGA & DAY LAND SURVEYORS, PLAN TITLED, BOUNDARY SURVEY 1,115 ACRES +/-, ELLIOT JORDAN & SON, INC.
  - LIDAR TOPOGRAPHIC INFORMATION PROVIDED BY AMERICAN FOREST MANAGEMENT.
  - SITE PLAN BASED ON NAD83 UTM ZONE 19, US FEET.
  - VERTICAL CONTROL VERIFIED BY PLISGA & DAY LAND SURVEYORS AND SET TO NAVD88 DATUM.
  - SOLAR PANEL LAYOUT PROVIDED BY RBI SOLAR, CINCINNATI, OH.
  - PARCEL IS IDENTIFIED AS MAP HA007, PLAN 01, LOTS 1.3,4.1 AND 14.1, BY MAINE LAND USE PLANNING COMMISSION.
  - PARCEL DEED: BOOK 6020, PAGE 38.
  - PROTECTED NATURAL RESOURCES SHOWN PROVIDED BY ATLANTIC RESOURCE CO, LLC. REFER TO PROTECTED NATURAL RESOURCES REPORT, THREE RIVERS SOLAR PROJECT, DATED AUGUST 26, 2019 FOR SPECIFIC DETAILS.
  - SOILS SURVEY PERFORMED BY ATLANTIC RESOURCES CO, LLC.
  - SUBSTATION LAYOUT BASED ON DESIGN PROVIDED BY SGC ENGINEERING, AUGUSTA, MAINE.
  - SEE INDEX SHEET FOR DETAILS REGARDING EROSION CONTROL.

Do Not Use for Construction  
For Regulatory Review Only



<b>Acheron Engineering Services</b> Engineering, Environmental & Geologic Consultants www.AcheronEngineering.com 147 Main St Newport, ME 04953 (207)-568-5700		Job Number: 80900
<b>Stormwater Management Plan</b> Substation Location Proposed Conditions Site Plan		Drawing No: C-7
Drwn By: BFG Desg By: BFG / KJB / SGC Chkd By: KJB Apprd By: Date:		Sheet 8 of 12

**APPENDIX B: INSPECTION CHECK LISTS**

**THREE RIVERS SOLAR CONSTRUCTION INSPECTION FORM FOR EROSION AND SEDIMENT CONTROL**

**General Information:**

Site Name:	Date:	Inspected by:			
Owner:					
Retained 3PI:	Last Rain Date:	Amount:			
Reason for Inspection:	Weekly	Winter	Final	Rain Event	Complaint
Description of disturbed area:					

Photos:

	YES/NO/NA	COMMENTS
--	-----------	----------

**1. Is an Erosion and Sediment Control Plan available?**

ESC plan on-site and followed		
Other:		

**2. Are all erosion control practices installed properly, maintained and functioning?**

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 properly, maintained and functioning?**

Construction entrance		
Sedimentation basins/traps/diversions		
Perimeter controls		
Check dams		
Other:		

**4. Is maintenance of ESC measures, construction activities and housekeeping kept-up?**

Sedimentation/erosion in ditches		
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 actions before the next rain event and within 7 day)



**THREE RIVERS SOLAR  
POST CONSTRUCTION INSPECTION FORM FOR BUFFERS**

**General Information:**

Site Name:	Date:	Inspected by:
------------	-------	---------------

Owner:

Retained 3PI:	Last Rain Date:	Amount:
---------------	-----------------	---------

Reason for Inspection:	Rain Event	Monthly	Quarterly	
------------------------	---------------	---------	-----------	--

Description of Basin Condition:

Photos:

Inspection Details	Yes/No	Comments
Is buffer free from trash, debris or waste?		
Has any vegetation been removed within the buffer?		
Is there any evidence of mowing within the buffer?		
Any temporary structure within the buffer?		
Any evidence of motorized vehicles operation within buffer?		
Level spreader functioning properly or filled with sediment?		
Buffer signs visible and readable?		

**Additional Comments:**