

1.0 PROJECT DESCRIPTION

1.1 Objectives and details

Three Rivers Solar Power, LLC (the Applicant), a wholly owned subsidiary of Swift Current Energy, LLC, proposes to construct the Three Rivers Solar Power Project (the Project), a utility scale solar facility on a 1,115-acre parcel in Township 16MD, BPP, located in Hancock County, Maine (Exhibit 1-1). The proposed project will consist of approximately 300,000-400,000 panels on a project area of approximately 465 acres (the Project Area). The panels will have an installed capacity of up to 100 megawatts (MW) of electricity. A new substation will be constructed in the Southern portion of the Project adjacent to the existing 115kV transmission line owned by Emera Maine. Other project components will include: PV inverters to improve efficiency and reliability, a main power transformer at the substation, and a series of 34.5 kilovolt (kV) underground electrical collector lines among the panels and connecting to the newly constructed substation. Power from the collector lines will be transmitted to the newly constructed substation adjacent to the project and adjacent to the 115 kV transmission corridor, where it will tie into the existing electrical grid. Electrical infrastructure will be located within a fence at the substation. See Table 1.1 below for total disturbed area, developed area, and impervious area figures associated with the Project.

Table 1.1 Project Area Summary

Description	Disturbed Area (acres)	Surface area of Panels (acres)	Area of Posts (acres)	Area of Roads (acres)	Area of Inverter Pads (acres)	Substation Impervious (acres)	Substation Area (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	0.7	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

On August 8, 2018, the Three Rivers Solar project received approval for a rezoning of the existing partially cleared 696-acre parcel from general zoning classification to commercial zoning.

1.2 Existing Conditions

The parcel was purchased by Elliot Jordan & Sons, Inc. (the Landowner) in 2013, at which time the Project Area initially comprised of timber cover. Beginning in 2013, the Landowner actively began clearing the

timber to establish a habitat suitable for cultivating wild blueberries. Since then, the Landowner has cleared approximately 400 acres. Of that, 100 acres have been de-stumped and cleared of rocks to establish wild blueberry habitat, similar to the continued work required to host solar panels. Today, the Project area primarily consists of low vegetation over large expanse cleared areas domesticated for blueberry production, although a harvest hasn't occurred to date. Solar panels in the Project Area would place the blueberry bushes into dormancy, which would limit production, though not remove the future possibility to harvest. Panels will be installed after all of the areas are cleared of timber and prepped for cultivation. All land leveling activities will have ceased at the time of filing the permit application with MEDEP. Industrial commercial forest surrounds the proposed project area.

A substantial road network consisting of gravel logging roads, currently exists directly within the Project Area. The existing roads have been deemed sufficient for the Applicant's use to provide construction and maintenance access to the Project and substation (Exhibit 1-2). There will also be a laydown area proposed for the project, which will be temporary during construction.

As part of the permitting process, the Applicant has completed studies of natural resources and wildlife in the Project Area. As designed, the project will not result in any temporary or permanent fill in wetlands, or in-stream work.

Activities surrounding the project includes numerous wind turbine facilities, industrial timber and blueberry harvesting, as well as a variety of seasonal recreational activities by the public. Commercial enterprises that currently exist in T16 MD includes 41 industrial wind turbines and active industrial timber harvesting. Numerous commercially harvested blueberry barrens are adjacent to the project site. The proposed Project will be located adjacent to two existing renewable energy facilities, the Bull Hill Wind Farm and Hancock County Wind Farm. A third wind power project, Weaver Wind consisting of 22 wind turbines, has commenced construction within Township 16. The closest turbine to the Project belongs to the Hancock County Wind Project and is located within one mile of the proposed Project area. A 115kv transmission line transects through a portion of the proposed site, which will be used as the point of interconnection for the Project.

The West Branch of the Narraguagus River borders the Western side of the project area. In the Spring, water levels are high enough that there is light recreational use, such as canoeing and fishing. The proposed Project will maintain a forested buffer between the Narraguagus River and the solar site. The closest year-round residences are 8 miles, by road, from the Project on Sugar Hill Road. The nearest seasonal hunting camp lies on the Western boundary of the parcel, owned by the Project landowner and leased to Corliss. See Exhibit 1-3 for a map identifying existing infrastructure.

1.3 Topographic Map

A topographic map of the Project site is attached as Exhibit 1-1.

1.4 Construction Plan

The Applicant is committed to constructing facilities that minimize environmental impacts and comply with regulatory requirements and recommendations.

Construction of the Project is projected to begin in the Spring of 2021 with the goal of project completion set for end of year 2021. The sequence of project construction will generally adhere to the timeline detailed below (Table 1.2), although adjustments may be necessary to accommodate various weather and environmental conditions.

The project site will be accessed by the network of existing logging roads. Construction will be mostly sequential with multiple construction activities occurring concurrently.

Construction of the Project is dependent on receipt of MDEP Site Location of Development, Natural Resource Protection Act permit and an ISO-NE Large Generator Interconnection Agreement. Site preparation will take place during the first phase of construction. Once the remaining portion of the Project Area with timber cover has been cleared, such areas will be de-stumped and rocks will be removed, similar to the activities required for cultivation of blueberries. Subsequently, the panel racking will be installed. The panel racking will be pile driven into the ground, therefore require minimal grading. Following installation of the racking, panels will be placed onto the racking while collector lines are installed underground. Erosion control will be mostly associated with installation of the underground collector lines. There will be no new roads constructed. All existing roads are sufficient as is for both construction and maintenance of the Project.

Construction of the substation will occur concurrently with other work on the site.

Panels will be delivered to the site and may be temporarily staged at laydown areas or they will be delivered directly to the racking. This will depend on the final construction schedule. Panel installation will generally be linear with the racking installation.

Table 1.2 Anticipated construction activity timeline

Anticipated timeframe	Task
Week 1	Three Rivers Solar Power receive all permits & ISO-NE LGIA <ul style="list-style-type: none"> • Maine Site Location of Development Permit • NRPA Permit • Large Generator Interconnection Agreement
Weeks 2-26	Site preparation <ul style="list-style-type: none"> • De-stumping • Rock removal • Clearing remaining timber
Weeks 18-40	Panel racking installation

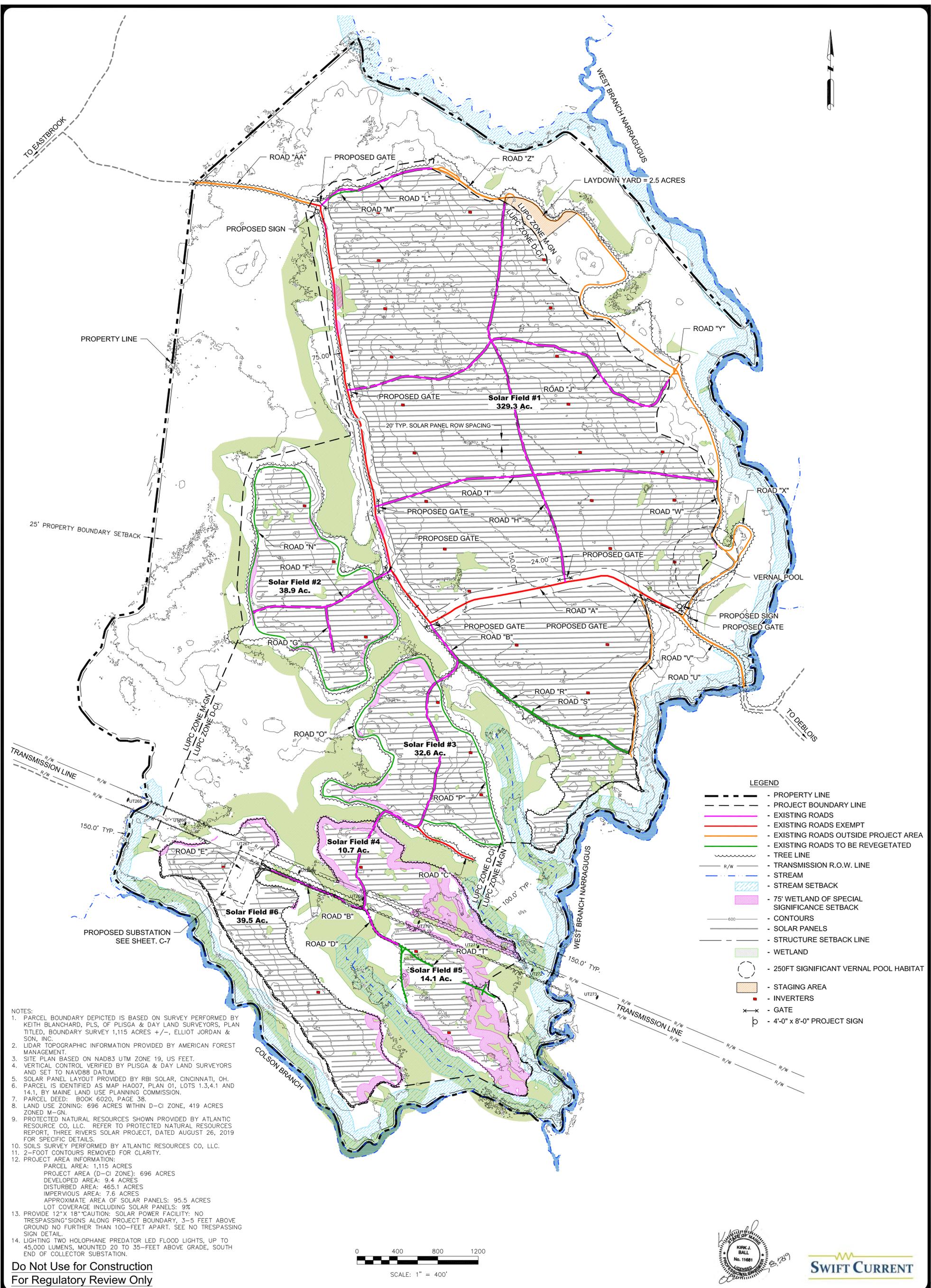
	Construction of new substation
Weeks 20-52	Underground collection installation Solar panel installation Completion of substation construction

Exhibit 1-1

Site Location and Topography Map

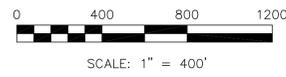
Exhibit 1-2

Existing and Three Rivers Solar Project Layout Site Plans



- 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 NAVD88 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 14.1, 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.

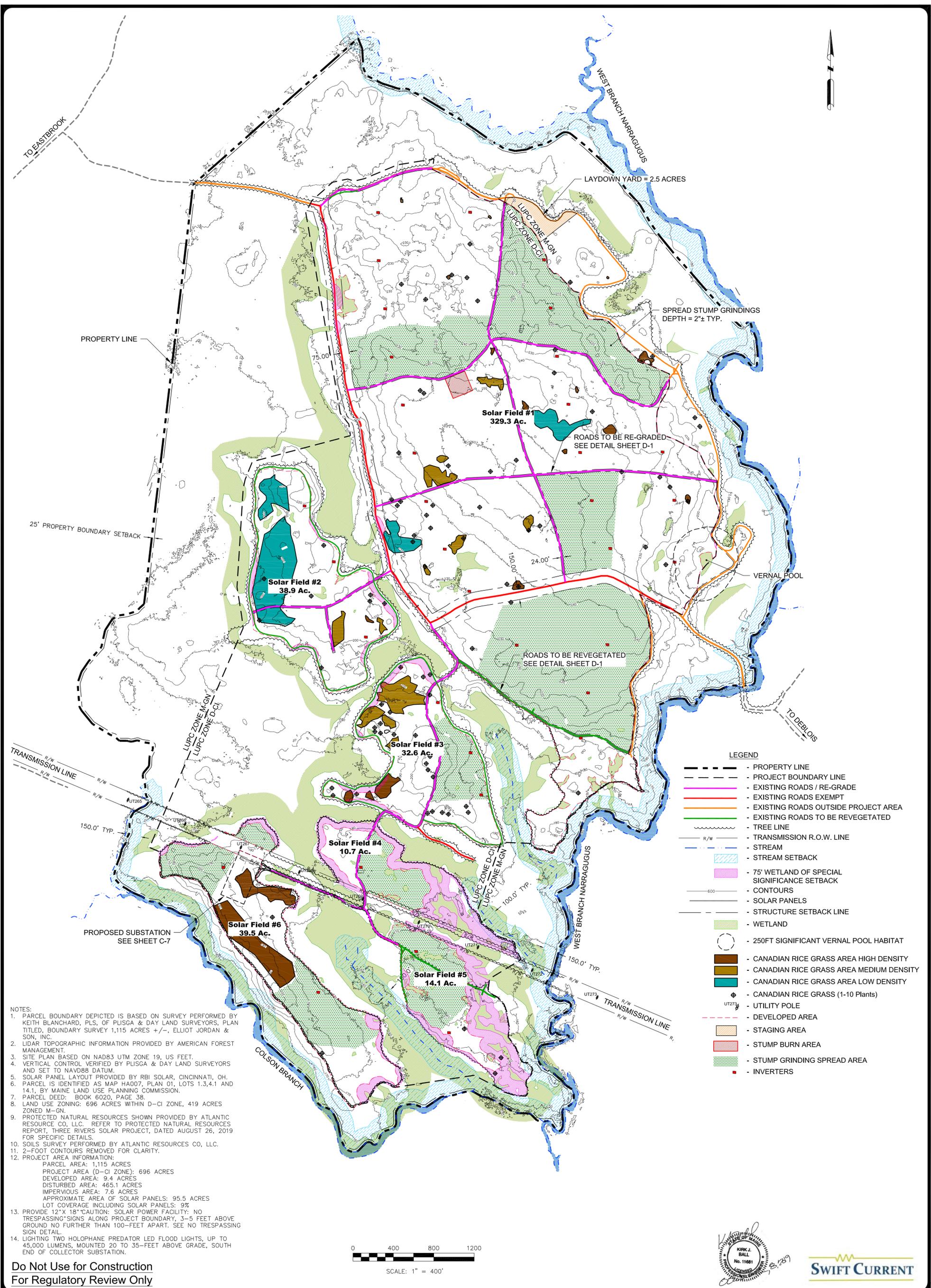
Do Not Use for Construction
For Regulatory Review Only



- LEGEND**
- - - PROPERTY LINE
 - - - PROJECT BOUNDARY LINE
 - - - EXISTING ROADS
 - - - EXISTING ROADS EXEMPT
 - - - EXISTING ROADS OUTSIDE PROJECT AREA
 - - - EXISTING ROADS TO BE REVEGETATED
 - - - TREE LINE
 - - - TRANSMISSION R.O.W. LINE
 - - - STREAM
 - - - STREAM SETBACK
 - - - 75' WETLAND OF SPECIAL SIGNIFICANCE SETBACK
 - - - CONTOURS
 - - - SOLAR PANELS
 - - - STRUCTURE SETBACK LINE
 - - - WETLAND
 - - - 250FT SIGNIFICANT VERNAL POOL HABITAT
 - - - STAGING AREA
 - - - INVERTERS
 - - - GATE
 - - - 4'-0" x 8'-0" PROJECT SIGN



Sheet 3 of 12 Drawing No: C-2	Job Number: 80900	<h3 style="margin: 0;">Three Rivers Solar Project</h3> <p style="margin: 0;">Proposed Conditions Site Plan</p> <p style="margin: 0;">Three Rivers Solar Township 16 MD Hancock County, ME.</p>	<h3 style="margin: 0;">ACHERON ENGINEERING SERVICES</h3> <p style="margin: 0;">Engineering, Environmental & Geologic Consultants</p> <p style="margin: 0; font-size: small;">www.AcheronEngineering.com</p> <p style="margin: 0; font-size: x-small;">147 Main St. 24466 Powell Rd. Newport, ME 04953 Brooksville, FL 34602 (207)-368-5700 (352)-796-6236</p> <p style="margin: 0; font-size: x-small;">Acheron International, Inc.</p>	Drwn By: <u>BPG</u> Desg By: <u>BPG / KJB</u> Chkd By: <u>KJB</u> Aprvd By: <u>KJB</u> Date: <u>10/8/2019</u>											
				<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>No.</th> <th>Revision Description</th> <th>Drwn</th> <th>Chkd</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Revision Description	Drwn	Chkd	Date					
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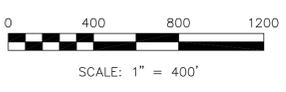


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 - STRUCTURE SETBACK LINE
 - WETLAND
 - 250FT SIGNIFICANT VERNAL POOL HABITAT
 - CANADIAN RICE GRASS AREA HIGH DENSITY
 - CANADIAN RICE GRASS AREA MEDIUM DENSITY
 - CANADIAN RICE GRASS AREA LOW DENSITY
 - CANADIAN RICE GRASS (1-10 Plants)
 - UTILITY POLE
 - DEVELOPED AREA
 - STAGING AREA
 - STUMP BURN AREA
 - STUMP GRINDING SPREAD AREA
 - INVERTERS

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Sheet 4 of 12
C-3
Drawing No.
Job Number:
80900

Three Rivers Solar Project
Proposed Conditions without Solar Panels

Three Rivers Solar
Township 16 MD
Hancock County, ME.

ACHERON ENGINEERING SERVICES
Engineering, Environmental & Geologic Consultants

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24466 Powell Rd.
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Acheron International, Inc.

Drwn By: BPG
Desg By: BPG / KJB
Chkd By: KJB
Aprvd By: KJB
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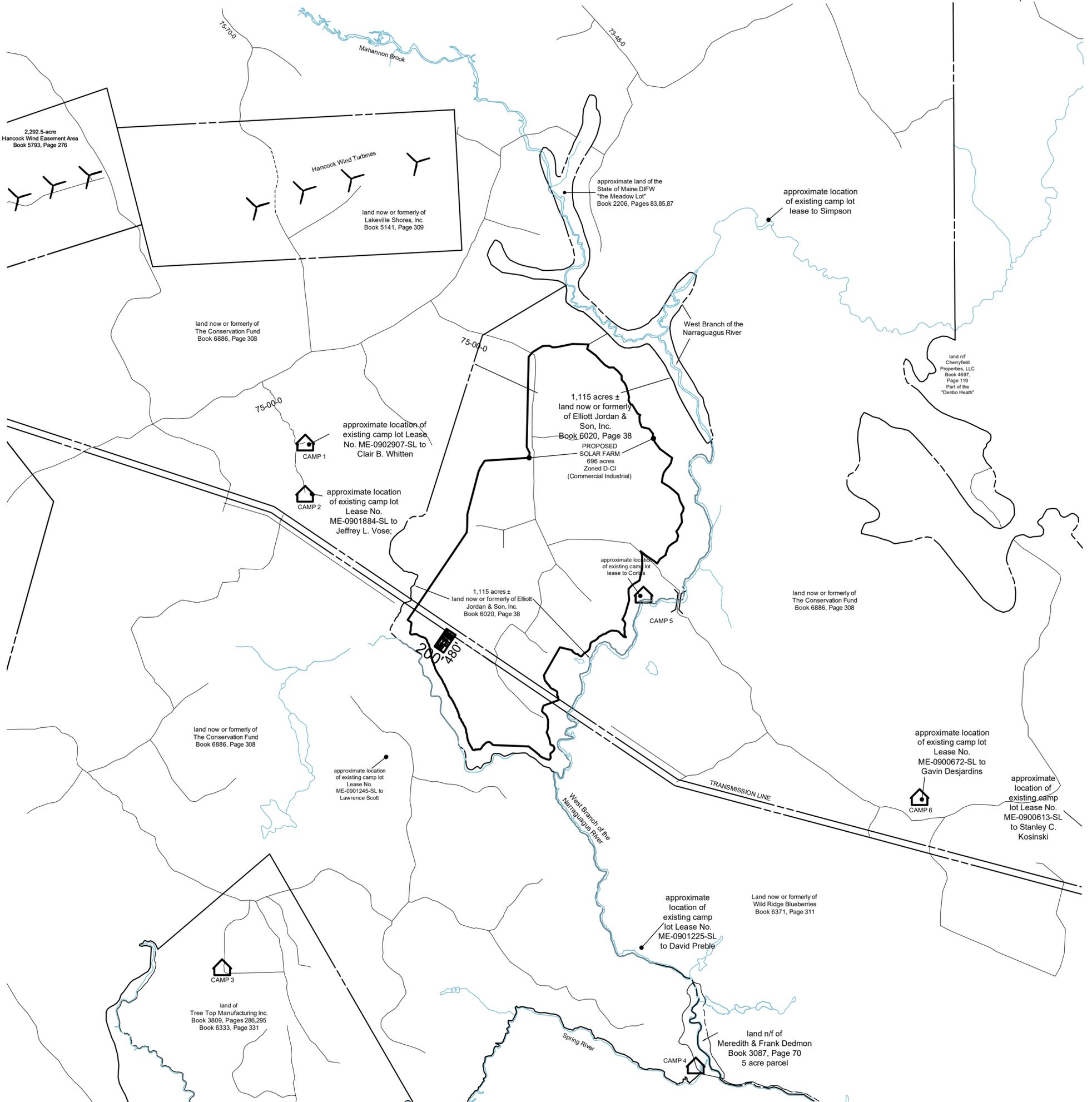
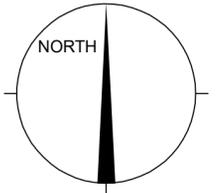
No.	Revision Description	Drwn	Chkd	Date

Exhibit 1-3

Three Rivers Solar Existing Infrastructure

NOTES:

- (1) Documents referenced on this plan are recorded in Hancock County Registry of Deeds unless otherwise noted.
- (2) This plan does not represent a Standard Boundary Survey, all boundaries are approximate.



SYMBOLS LEGEND

- Edge pavement/gravel
- Property line
- 🏠 Camp

SCALE: 1" = 2000'



**PLISGA & DAY
LAND SURVEYORS**

72 MAIN STREET
BANGOR, MAINE
DATE: September 9, 2019
PROJ. NO. 10039

Email: info@WeMapIt.com
Phone: (207) 947-0019
Toll-Free: 1-800-734-0019

www.WeMapIt.com

Survey Sketch
depicting camps in the vicinity
of a
Proposed Solar Farm
for
Land Use Planning Commission (LUPC)
and
Three Rivers Solar
in
Township 16 MD, Maine