

TRANSMITTAL:

August 17, 2020

SEND TO:		PROJECT INFORMATION:	
Name:	Town of Cortlandville	Delta Project No:	2020.260.001
Company:	Attn: Bruce Weber	Client Project No:	
Address:	The Raymond G. Thorpe Bldg. 3577 Terrace Rd Cortland, NY 13045	Project Name:	SSC Cortlandville II
		Re:	

ENCLOSED:		SUBMITTED FOR:			
<input type="checkbox"/>	Reports	<input checked="" type="checkbox"/>	Your Use		
<input type="checkbox"/>	Plans	<input checked="" type="checkbox"/>	Review and Comment		
<input type="checkbox"/>	Shop Drawings				
<input type="checkbox"/>	Design Computations	SENT VIA:			
<input type="checkbox"/>	Design Summary	<input type="checkbox"/>	UPS	Acct. No.	
<input type="checkbox"/>	Specifications	<input type="checkbox"/>	Fed Ex	Acct No.	
<input type="checkbox"/>	Estimate	<input type="checkbox"/>	Regular Mail		
<input type="checkbox"/>	Submittals	<input type="checkbox"/>	Certified Mail		
<input checked="" type="checkbox"/>	Other: See list below	<input checked="" type="checkbox"/>	Other:	Hand delivered	

ITEM NO.	QUANTITY	DESCRIPTION
1	16	Site Plan Set
2	16	Long EAF
3	16	CRIS Response Letter
4	16	Wetland Report Letter
5	16	Project Narrative

Comments: Please see the attached. If you have any questions, please do not hesitate to give me a call at 607.231.6625 or via email - cmaby@delta-eas.com.

From: Christopher J. Maby, CPESC
Title: Sr. Project Manager

PLEASE NOTIFY US AT ONCE IF CONTENTS ARE NOT AS STATED ABOVE



633 Rt. 211 East, Suite 4, Box 4
Middletown, NY 10941
Office: (845) 495-0123 • Fax: (866) 688-0836

July 10, 2020

Mr. John L. France
40 Harrison Street
Suite 10B
New York, NY 10013

RE: Wetlands Report
Cortlandville II
SBL: 86.00-02-01.100 (partial)
Town of Cortlandville, Cortland County

Dear Mr. France,

On 7 July, 2020, a wetland delineation was conducted by Ecological Analysis (EA) staff as requested on the above referenced site. The property was walked and a field investigation was completed to determine whether there were any areas that would be within the jurisdiction of either the United States Army Corps of Engineers (USACE) and/or the New York State Department of Environmental Conservation (NYSDEC) for federally- or state-regulated wetlands.

Before conducting the field investigation, EA reviewed related aerial, soils, and wetland online remote mapping resources for the parcel. These independent mapping resources were used to identify the probable presence and approximate location of any possible wetland features on the property. This information was used to indicate any areas of the parcel where we should verify whether or not the field conditions match, or are dissimilar, from the related mapped features across the entire designated site.

As shown on the attached United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) map, there were no federal wetlands located by remote sensing on this property.

Similarly, the attached NYSDEC Environmental Resources Mapper output for the area locates no state wetlands in or near the property. This state wetlands mapper program locates the nearest known state wetland at approximately 1.9 miles to the northeast of this property.

EA's field investigations for onsite wetlands are conducted in accordance to the 2012 Interim Northcentral and Northeast Regional Supplement to the USACE 1987 Wetlands Delineation Manual and, if appropriate, in accordance with the NYSDEC 1995 Freshwater Wetlands Delineation Manual. The upland and wetland areas on the property are determined by observing the vegetation types, soil types, and hydrological conditions in accordance with the USACE field investigation guidelines. Any wetland area meeting the conditions set forth by the agencies is then flagged on its edge with pink "Wetland Delineation" flags that are numbered sequentially, and a field map representing this work is emailed to the client (or their representative) to aid any subsequent surveying of the regulated wetlands lines.

During the course of our field investigation, one wetland area was identified on the property. The wetland (Wetland 'A' as designated in this report and on any subsequent field surveys) was primarily a wet meadow that was enclosed within bordering areas of scrub-shrub and/or forested wetland habitats. Across its extent, its NWI classification therefore varied and transitioned from a PFO1E wetland (a palustrine deciduous forest that is seasonally flooded), to a PSS1E wetland (a palustrine deciduous scrub/shrub wetland that is seasonally flooded), to an EM2E wetland (a palustrine area of seasonal - i.e. nonpersistent - emergent vegetation that is seasonally flooded). This wetland was present along the northern edge of the property, and extended onto the abutting parcel to the north. While no surface water was present during our visit, the wetland evidenced areas of transient shallow surface water effects within their bounds, as indicated by the lingering presence of moss trim lines and sediment deposits.

A representative set of USACE Wetland Delineation Forms was filled out for Wetland 'A', which characterizes the hydrology, vegetation, and hydric soils observed within the wetland. For the wetland, a matched representative set of USACE Delineation Forms was also filled out for the adjacent nearby upland areas which are dominated by agricultural soybean fields.

Wetland/Upland Vegetation

Wetland 'A'

This wetland sustains a diverse community of overstory trees, understory bushes, and emergent vegetation that each are dominant separately within different portions of its extent. Where trees are dominant, they are represented as either mature specimens of green ash, American elm, or black willow. The scrub-shrub areas are dominated by species of willows and dogwoods, including black, Bebb, and pussy willows and silky and red osier dogwoods. The emergent wetland portion is dominated by narrowleaf cattails, reed canarygrass, wrinkleleaf goldenrod, and boneset. Other, less dominant, herbaceous vegetation observed throughout this area included, soft rush, sallow sedge, fringed sedge, creeping jenny, sensitive fern, field horsetail, and marsh fern. These are mostly consistent with plants that are recognized as wetland plant species and their abundance in Wetland 'A' passes the USACE 50/20 rule, thereby defining the area as having wetland vegetation.

Uplands – Forests and agricultural fields

The small area of forested upland on the property is confined to the northwestern portion of the site. The woods in this area are dominated in the overstory by mature, sugar maple, white ash, American elm, with a lesser presence of red maples, American basswood, hickories, black cherry, serviceberry, and red oak. The understory is composed of several bushy shrubs or smaller trees, including cockspur hawthorn, common buckthorn, bush honeysuckles (*Lonicera* spp.), brambles (*Rubus* spp.), and multiflora rose, as well as numerous saplings seeded by the overstory trees. Throughout these areas, a variety of upland plants were observed, including most commonly: mayapple, wrinkleleaf goldenrod, Canada mayflower, white avens, sulfur cinquefoil, enchanter's nightshade, and a scattering of colonies of wood ferns (*Dryopteris* spp.). All of these species listed are consistent with communities of vegetation that may typically be found in upland forests.

Most of the upland areas across the property are open fields that have been farmed lands historically. At present, during our visit, the fields were planted in crops of soybeans and oats. Adventitious plants observed along and within the areas of planted fields included numerous common weeds of agricultural fields, including: horsetail, common sowthistle, common mallow, redroot amaranth, lambsquarters, horseweed, shepherd's purse, and velvetleaf. All of these species listed are consistent with communities of vegetation that may typically be found in cleared or cultivated upland areas.

Wetland/Upland Soils

Both the Cortland County Soil Survey and the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) online web soil surveys were reviewed to verify if there were any potential hydric (wetland) soils mapped for the property. A copy of the USDA soil report for the property is included for your use. The major soil map units as shown on the attached NRCS map are non-hydric (upland) soils. On-site soils classified as non-hydric include mapped units of: 53D (Valois-Howard complexes on 15-25 percent slopes), 63B (Mardin channery silt loams, on 3-8 percent slopes), 63C (Mardin channery silt loams, on 8-15 percent slopes), 69B (Erie silt loams, on 2-8 percent slopes), 179B (Lordstown-Arnot complexes, on 3-8 percent slopes), and, 179C (Lordstown channery silt loams, on 8-15 percent slopes).

Soil samples were taken by hand auger across portions of Wetland 'A'. All of the characteristics of the soil cores taken in the wetland areas during the field investigation were consistent with wetland soils identifiers. The major soil unit mapped in the area of Wetland 'A' is rated marginally as an upland soil and is defined by the occurrence of minor inclusions of hydric soils, including inclusions of hydric Chippewa silt loams. Chippewa silt loams are present upslope of this wetland, on off-site properties that are abutting this one. Our observations in Wetland 'A' documented the presence of very poorly drained silty clay soils throughout, observations that demonstrated the influences of persistent hydric saturation across the various portions of the flagged wetland area.

Outside of the area of Wetland 'A,' the several upland soils that are shown remotely mapped on the property by the USDA/NRCS are primarily channery silt loams. These are typically rocky well drained soils that occur on level to slightly sloping grades and they do not maintain proper hydrology to be wetland soils as they dry out during the growing season.

Wetlands Hydrology

Hydrology to Wetland 'A' is provided by direct rainfall and indirect runoff or groundwater seeps from adjacent higher terrain to the north. Our field visit identified the presence of a wetland area that is variously dominated by either forested, scrub/shrub, or emergent plant communities. The areas flagged demonstrated several characteristics of hydric soils that develop under conditions of seasonal flooding.'

Conclusions

NYSDEC regulated wetlands

There are no NYSDEC regulated wetlands on or near the property.

USACE regulated wetlands

As flagged on this property, Wetland 'A' did not have a surficial connection to a navigable water of the United States, and therefore may not be regulated by the USACE as protected waters or wetlands of the United States. However, the wetland extends offsite to adjoining properties on the north and also leads to the south towards an agricultural ditch across the lower portion of the property where such a connection may be located. Therefore, prior to any disturbance of the wetland a USACE Jurisdictional Determination should be obtained from the USACE District Office in Buffalo, NY, and, if necessary, appropriate permit(s) would need to be obtained from that same office.

Ecological Analysis is grateful for this opportunity to be of service on this project and looks forward to the opportunity to work with you in the future. Feel free to call if you have any questions or if we can be of further assistance.

Sincerely yours,

Bruce R. Friedmann

Bruce R. Friedmann
Senior Environmental Scientist
Ecological Analysis, LLC

Attachments:

USACE Wetland 'A' data sheets
USACE Upland data sheets
USFWS National Wetlands Inventory Map
NYSDEC Environmental Resource Map (TOPO/aerial)
USDA/NRCS Soil Survey Map and soils descriptions

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Cortlandville II City/County: Cortlandville/Cortland County Sampling Date: 07-Jul-20
 Applicant/Owner: Summit Solar State: NY Sampling Point: Wetland A
 Investigator(s): Bruce Friedman Section, Township, Range: S. T. R.
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): flat Slope: 0.0% / 0.0
 Subregion (LRR or MLRA): LRR R Lat.: 42.61192 Long.: 76.20749 Datum: WGS 84
 Soil Map Unit Name: 69B Erie silt loam NWI classification: PFO1E/SS1E/EM2E

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: (Explain alternative procedures here or in a separate report.)	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input checked="" type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION - Use scientific names of plants

Sampling Point: **Wetland A**

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
Sapling/Shrub Stratum (Plot size: 15)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>31</u> x 1 = <u>31</u> FACW species <u>65</u> x 2 = <u>130</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>96</u> (A) <u>161</u> (B) Prevalence Index = B/A = <u>1.677</u>
0 = Total Cover				
1. <i>Cornus alba</i>	40	<input checked="" type="checkbox"/> 80.0%	FACW	
2. <i>Salix discolor</i>	10	<input checked="" type="checkbox"/> 20.0%	FACW	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
Herb Stratum (Plot size: 5)				
50 = Total Cover				
1. <i>Typha angustifolia</i>	30	<input checked="" type="checkbox"/> 65.2%	OBL	
2. <i>Eupatorium perfoliatum</i>	5	<input type="checkbox"/> 10.9%	FACW	
3. <i>Carex crinita</i>	1	<input type="checkbox"/> 2.2%	OBL	
4. <i>Onoclea sensibilis</i>	5	<input type="checkbox"/> 10.9%	FACW	
5. <i>Lysimachia nummularia</i>	5	<input type="checkbox"/> 10.9%	FACW	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
11. _____	0	<input type="checkbox"/> 0.0%	_____	
12. _____	0	<input type="checkbox"/> 0.0%	_____	
Woody Vine Stratum (Plot size: _____)				
46 = Total Cover				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)

Wetland 'A' includes relatively equal areas dominated by either forested, scrub/shrub, or emergent vegetation. The sample location chosen was centrally located, within an area of narrow leaf cattails bordering a dogwood thicket.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Plot ID: **Wetland A**

Photo Path: \\Ea-server\company\324.00000 Summit Solar - various projects



Photo File: **DSCN6614.JPG** Orientation: Northeast-facing

Lat/Long or UTM: Long/Easting: **76.20749** Lat/Northing: **42.61192**

Description:



Photo File: **DSCN6622.JPG** Orientation: North-facing

Lat/Long or UTM: Long/Easting: **76.20749** Lat/Northing: **42.61192**

Description:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Cortlandville II City/County: Cortlandville/Cortland County Sampling Date: 07-Jul-20
 Applicant/Owner: Summit Solar State: NY Sampling Point: Upland
 Investigator(s): Bruce Friedman Section, Township, Range: S. T. R.
 Landform (hillslope, terrace, etc.): Undulating Local relief (concave, convex, none): undulating Slope: 5.0% / 2.9
 Subregion (LRR or MLRA): LRR R Lat.: 42.61003 Long.: 76.20688 Datum: WGS 84
 Soil Map Unit Name: 179C Lordstown channery silt NWI classification: Upland

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, et

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Explain alternative procedures here or in a separate report.) The site is a long used agricultural field, presently planted in soybeans and oats.	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)

Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (Inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (Inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (Inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants

Sampling Point: Upland

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%		Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
2. _____	0	<input type="checkbox"/> 0.0%		
3. _____	0	<input type="checkbox"/> 0.0%		
4. _____	0	<input type="checkbox"/> 0.0%		
5. _____	0	<input type="checkbox"/> 0.0%		
6. _____	0	<input type="checkbox"/> 0.0%		
7. _____	0	<input type="checkbox"/> 0.0%		
Sapling/Shrub Stratum (Plot size: 15)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 0 x 3 = 0 FACU species 6 x 4 = 24 UPL species 90 x 5 = 450 Column Totals: 96 (A) 474 (B) Prevalence Index = B/A = 4.938
0 = Total Cover				
1. _____	0	<input type="checkbox"/> 0.0%		
2. _____	0	<input type="checkbox"/> 0.0%		
3. _____	0	<input type="checkbox"/> 0.0%		
4. _____	0	<input type="checkbox"/> 0.0%		
5. _____	0	<input type="checkbox"/> 0.0%		
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
0 = Total Cover				
1. <i>Glycine max</i>	90	<input checked="" type="checkbox"/> 93.8%	UPL	
2. <i>Solanum carolinense</i>	1	<input type="checkbox"/> 1.0%	FACU	
3. <i>Sonchus arvensis</i>	1	<input type="checkbox"/> 1.0%	FACU	
4. <i>Amaranthus retroflexus</i>	1	<input type="checkbox"/> 1.0%	FACU	
5. <i>Chenopodium album</i>	1	<input type="checkbox"/> 1.0%	FACU	
6. <i>Conyza canadensis</i>	1	<input type="checkbox"/> 1.0%	FACU	
7. <i>Capsella bursa-pastoris</i>	1	<input type="checkbox"/> 1.0%	FACU	
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
11. _____	0	<input type="checkbox"/> 0.0%		
12. _____	0	<input type="checkbox"/> 0.0%		
Woody Vine Stratum (Plot size:)				Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
96 = Total Cover				
1. _____	0	<input type="checkbox"/> 0.0%		
2. _____	0	<input type="checkbox"/> 0.0%		
3. _____	0	<input type="checkbox"/> 0.0%		
4. _____	0	<input type="checkbox"/> 0.0%		
0 = Total Cover				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.) 				

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil

Sampling Point: Upland

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR	4/3					Channery silt loam	
8-15	10YR	5/8					Channery silt loam	

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Muck Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils : ³

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L, M)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

Plot ID: **Upland**

Photo Path: \\Ea-server\company\324.00000 Summit Solar - various projects



Photo File: **DSCN6650.JPG** Orientation: Northeast-facing

Lat/Long or UTM: Long/Easting: **76.20688** Lat/Northing: **42.61003**

Description:



Photo File: **DSCN6607.JPG** Orientation: West-facing

Lat/Long or UTM: Long/Easting: **76.20688** Lat/Northing: **42.61003**

Description:



U.S. Fish and Wildlife Service

National Wetlands Inventory

Cortlandville II



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

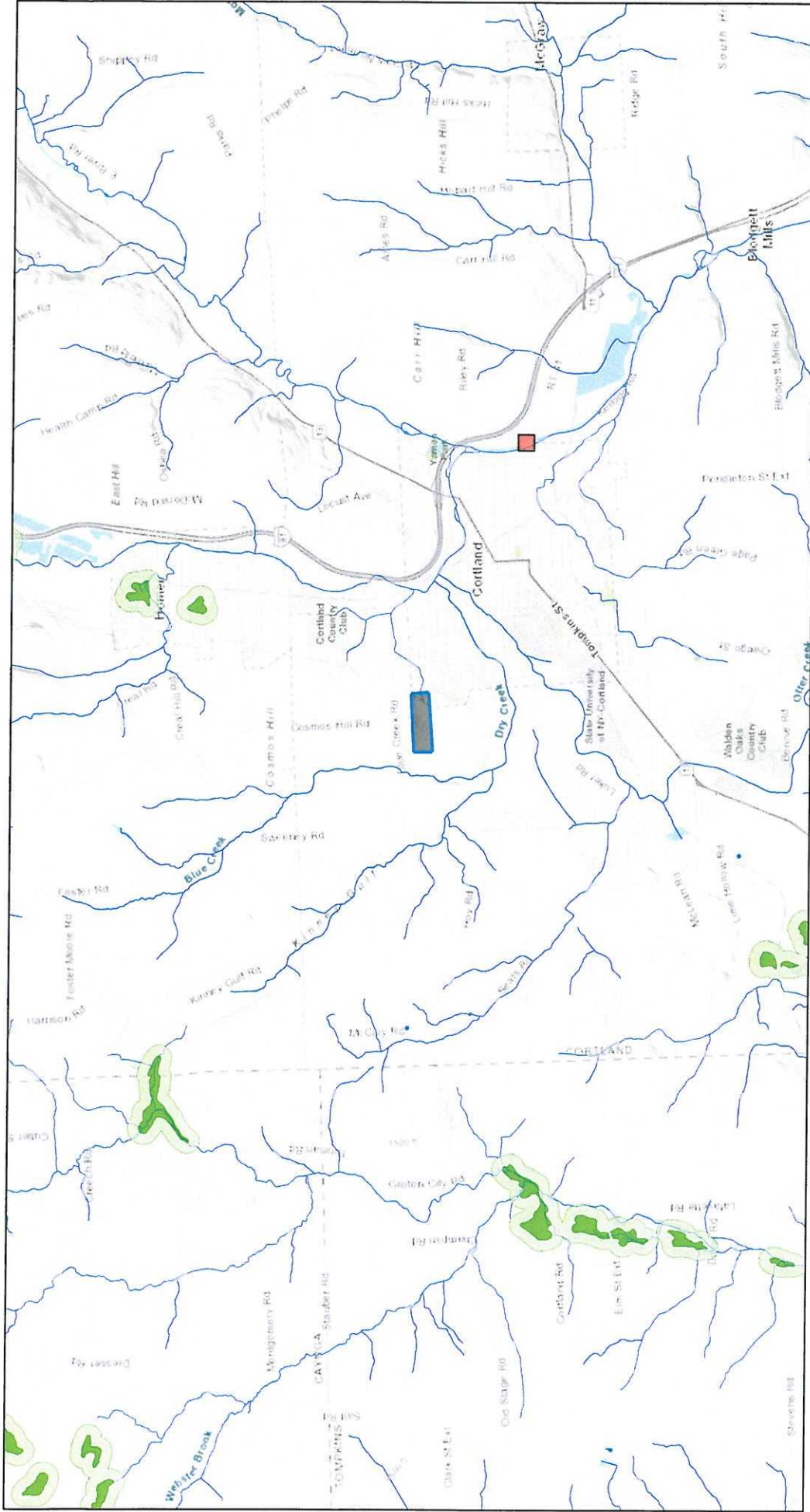
July 9, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

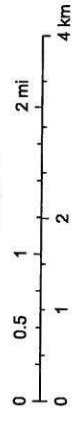
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Cortlandville II



July 9, 2020

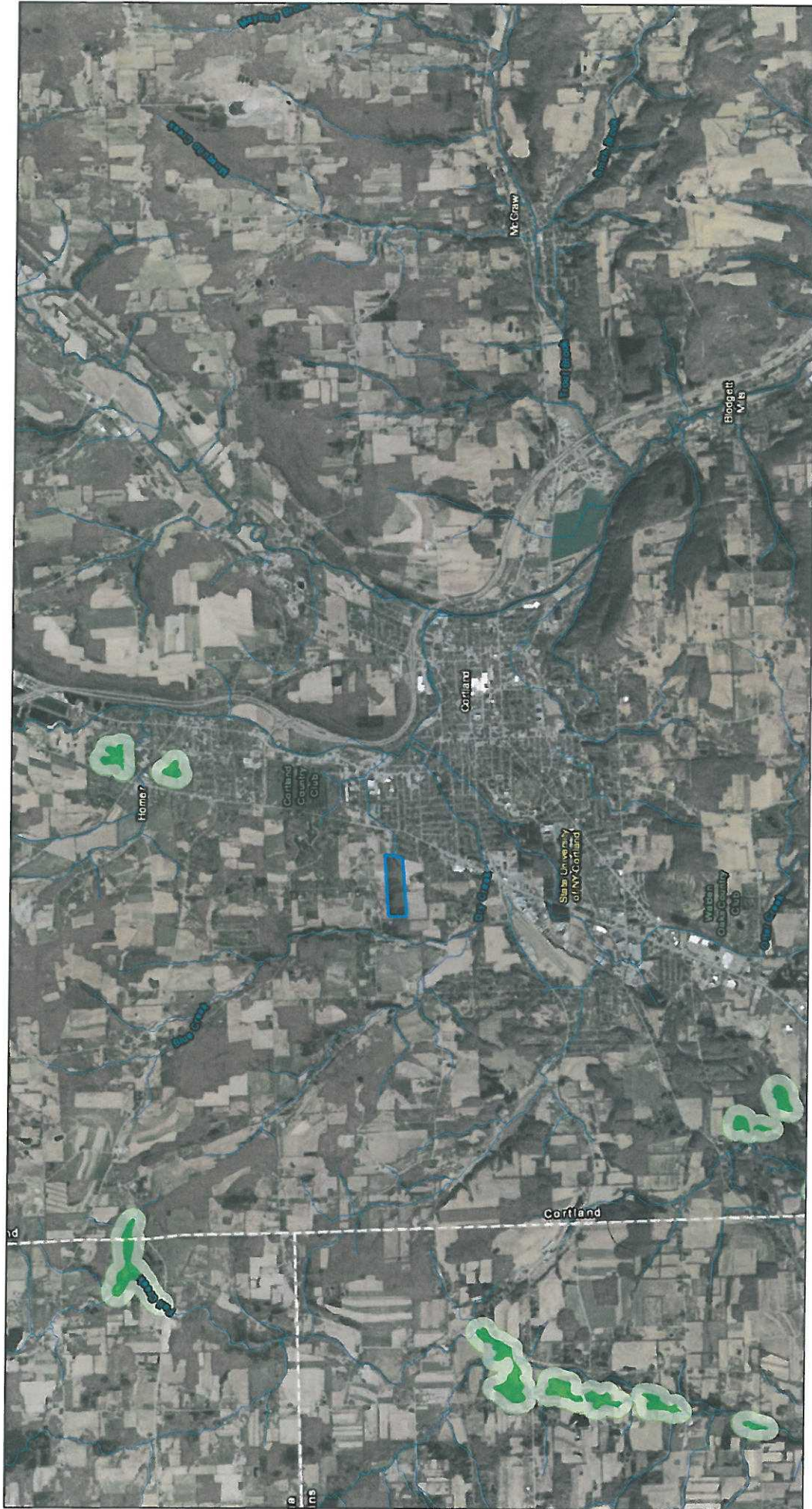
1:72,224



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Author: NYSDEC ENV RES mapper
Not a legal document

Cortlandville II



July 9, 2020



1:72,224
 0 0.5 1 2 4
 0 1 2 4
 0 2 mi 4 km

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

Author: NYSDEC ENV RES mapper
 Not a legal document

Hydric Rating by Map Unit—Cortland County, New York
(Cortlandville II)

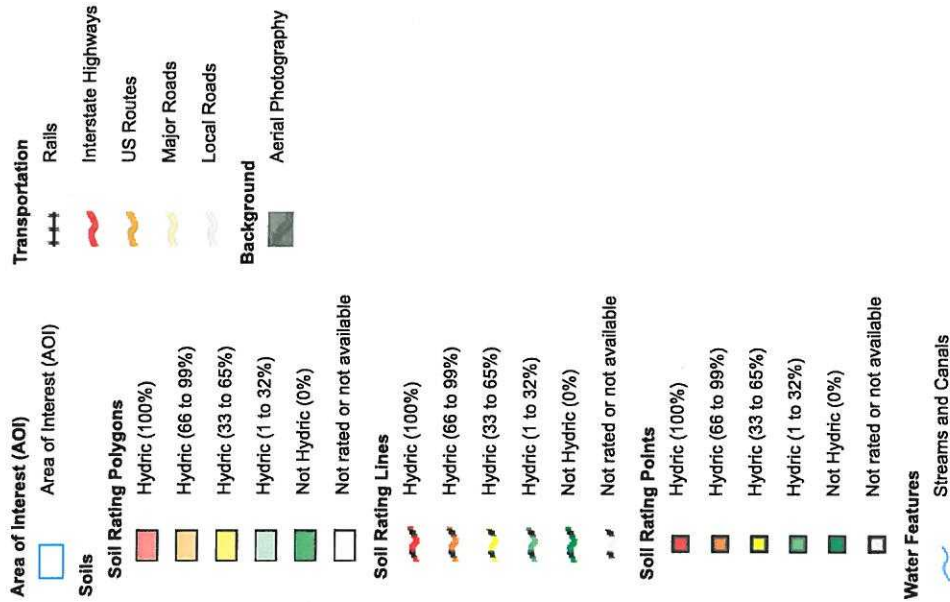


Soil Map may not be valid at this scale.

Map Scale: 1:4,860 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.
 Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Cortland County, New York
 Survey Area Data: Version 19, Jun 11, 2020
 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 18, 2011—Oct 10, 2016

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.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres In AOI	Percent of AOI
53D	Valois-Howard complex, 15 to 25 percent slopes	0	1.3	2.3%
63B	Mardin channery silt loam, 3 to 8 percent slopes, slightly acid	0	20.4	36.0%
63C	Mardin channery silt loam, 8 to 15 percent slopes, slightly acid	0	13.1	23.2%
69B	Erie silt loam, 2 to 8 percent slopes	5	4.9	8.6%
179B	Lordstown-Arnot complex, 3 to 8 percent slopes	0	14.2	25.1%
179C	Lordstown channery silt loam, 8 to 15 percent slopes	0	2.7	4.8%
Totals for Area of Interest			56.7	100.0%

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower



**Parks, Recreation
and Historic Preservation**

ANDREW M. CUOMO
Governor

ERIK KULLESEID
Commissioner

August 4, 2020

John L. France
Summit Solar Capital
40 Harrison Street, Suite 10B
New York, NY 10013
(via email only)

Re: NYS DEC
SSC Cortlandville II Solar/5MW/38 Acres
Cortlandville, Cortland County
20PR03822

Dear Mr. France:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation's Division for Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the OPRHP's opinion that your project will have No Impact upon historic or archaeological resources in or eligible for inclusion in the State and National Register of Historic Places.

If I can be of any further assistance, I can be reached at john.bonafide@parks.ny.gov or (518) 268-2166.

Sincerely,

John A. Bonafide
Director,
Technical Preservation Services Bureau
Agency Historic Preservation Officer

SSC CORTLANDVILLE II LLC

4242 BELL CREST DRIVE
CORTLAND, NY 13045

DELTA PROJECT NO. 2020.260.001
ORIGINAL SUBMISSION JULY 22, 2020
REVISED SUBMISSION AUGUST 17, 2020
PLANNING BOARD

INDEX OF DRAWINGS

GENERAL

CVII-TS TITLE SHEET

CIVIL

CVII-100 EXISTING SITE CONDITIONS
CVII-101 EROSION AND SEDIMENT CONTROLS PLAN
CVII-200 SITE PLAN
CVII-300 DETAILS
CVII-301 DETAILS

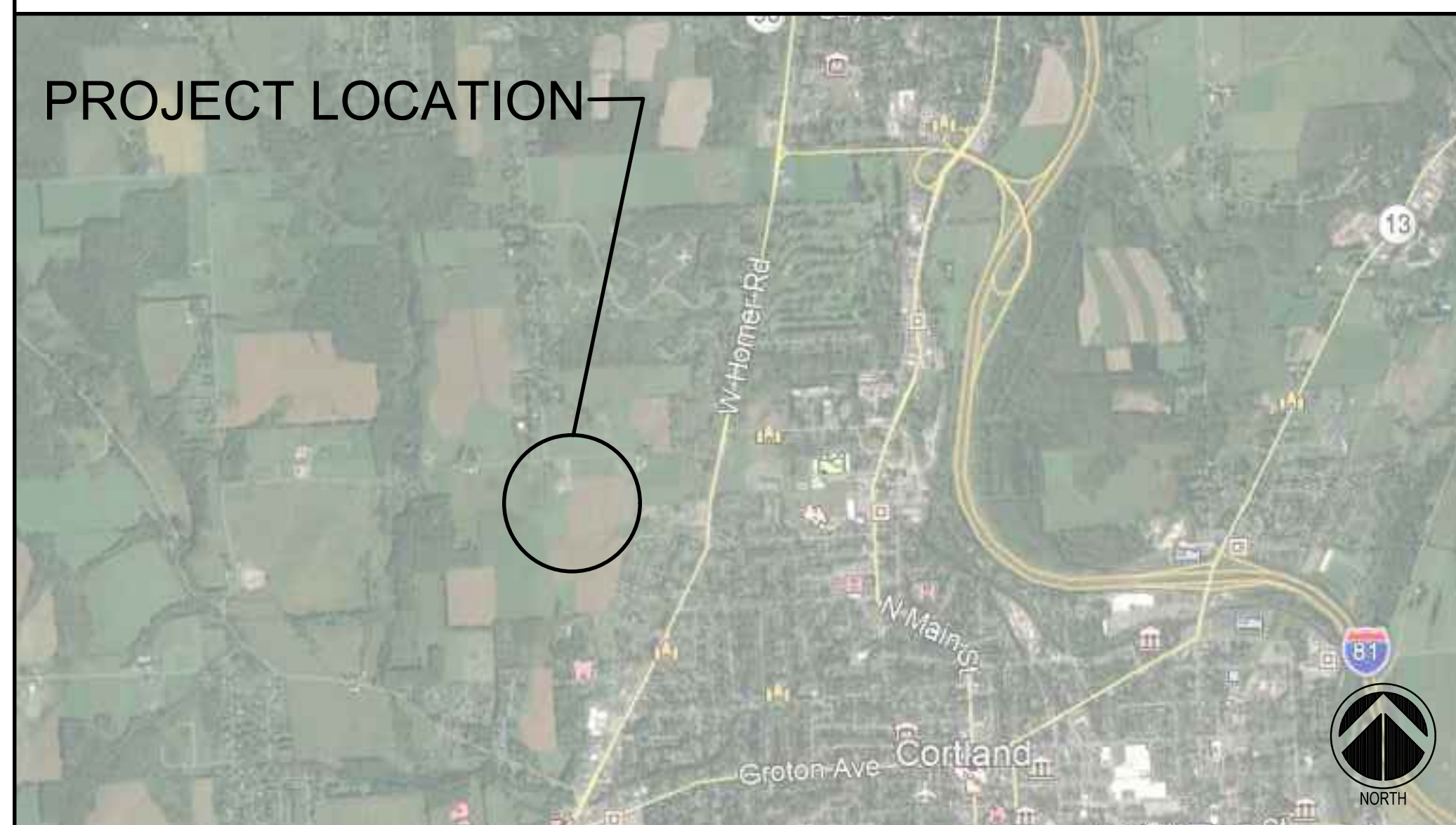
ARCHITECT/ENGINEER



860 Hooper Road
Endwell, New York 13760
Tel: 607.231.6600
Fax: 607.231.6650
Email: mail@delta-eas.com
www.delta-eas.com

PROJECT LOCATION

PROJECT LOCATION



OWNER



SUMMIT SOLAR

SSC Cortlandville II, LLC
334 Arapahoe Ave
Boulder, CO 80302
Tel: 561.866.8234
Email: john@summitsolarcapital.com

TS



EXISTING CONDITIONS LEGEND:

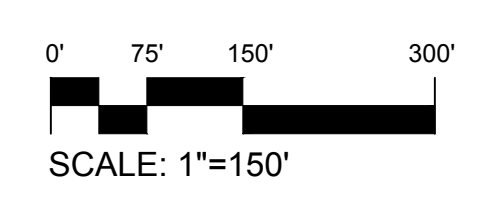
PROPERTY LINE	— — — — —
SETBACK LINE	- - - - -
EXISTING GROUND CONTOUR	---360---
WETLAND BOUNDARY	[Hatched Pattern]
EXISTING OVERHEAD ELECTRIC LINE	— OH — OH — OH —
EXISTING PAVEMENT AREA	[Solid Grey Box]
EXISTING TREE LINE	[Wavy Line]

- GENERAL NOTES:**
- GROUND CONTOUR LINES SHOWN IN THIS DRAWING WERE ADDED USING INFORMATION FROM THE NEW YORK STATE CLEARING HOUSE WEBSITE.
 - PROPERTY LINES ARE APPROXIMATE AND BASED ON TAX MAP INFORMATION.
 - WETLANDS WERE RECENTLY MAPPED AND UNKNOWN TO STATE AND FEDERAL AGENCIES.

1
EXISTING SITE CONDITIONS

CVII-100
 SCALE: 1" = 150'

NORTH



SSC Cortlandville II LLC
 334 Arapahoe Ave
 Boulder, Colorado 80302
 Tel: 561.866.8234
 Email: john@summitsolarcapital.com

Key Plan

NOT FOR CONSTRUCTION

1	Revised Solar Layout	8/17/2020
No.	Revision	Date

Project Name
SSC CORTLANDVILLE II LLC
 TOWN OF CORTLANDVILLE, NEW YORK STATE

DELTA
 ENGINEERS, ARCHITECTS, & SURVEYORS
 860 Hooper Road
 Endwell, New York 13760
 Tel: 607.231.6600
 Fax: 607.231.6650
 Email: mail@delta-eas.com
 www.delta-eas.com

Seal	Phase PLANNING BOARD
	Project No. 2020.260.001
	UNPROCESSED AT STATION OF THIS DRAWING <small>AS A REQUIREMENT OF THE NEW YORK STATE EDUCATION LAW, SECTION 7004, SUBDIVISION 2</small>
Date	2020.07.22

Drawing Title
EXISTING SITE CONDITIONS

Drawing No.
CVII-100



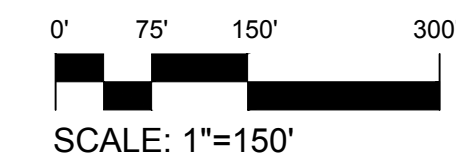
EXISTING CONDITIONS LEGEND:	
PROPERTY LINE	---
SETBACK LINE	---
EXISTING GROUND CONTOUR	---360---
WETLAND BOUNDARY	[Hatched pattern]
EXISTING OVERHEAD ELECTRIC LINE	— OH — OH — OH —
EXISTING PAVEMENT AREA	[Solid grey area]
EXISTING TREE LINE	[Wavy line]

EROSION AND SEDIMENT CONTROL LEGEND:	
SILT FENCE	[Line with dots]
PERVIOUS ACCESS ROAD	[Dotted pattern]
STABILIZED CONSTRUCTION ENTRANCE	[Cross-hatched pattern]
25' VEGETATIVE BUFFER	---
CLEAR AND GRUB AREA	---

1 EROSION AND SEDIMENT CONTROLS PLAN
 CVII-101 SCALE: 1" = 150'



#	KEY NOTES
1	PROVIDE SILT FENCE. ADJUST AS NEEDED AS LAND CLEARING PROGRESSES. TYP. SEE DETAIL 2/CVII-301.
2	PROVIDE STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL 1/CVII-301.
3	MAINTAIN 25' VEGETATED BUFFER WITH SELECTIVE CLEARING AT WETLAND BOUNDARIES, TYP.
4	CLEARING AND GRUBBING AREA, TYP.



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 Boulder, Colorado 80302
 Tel: 561.866.8234
 Email: john@summitsolarcapital.com

Key Plan

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No.	Revision	Date
1	Revised Solar Layout	8/17/2020

Project Name
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 TOWN OF CORTLANDVILLE, NEW YORK STATE

DELTA
 ENGINEERS, ARCHITECTS, & SURVEYORS
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 www.delta-eas.com

Seal	Phase PLANNING BOARD
	Project No. 2020.260.001
	UNPROCESSED AT STATION OF THIS DRAWING <small>AS A MEASURE OF THE NEW YORK STATE EDUCATION LAW, SECTION 7004, SUBSECTION 2</small>
Date	2020.07.22

Drawing Title
EROSION AND SEDIMENT CONTROLS PLAN

Drawing No.
CVII-101

Key Plan

NOT FOR CONSTRUCTION

No.	Revision	Date
1	Revised Solar Layout	8/17/2020

Project Name

SSC CORTLANDVILLE II LLC

TOWN OF CORTLANDVILLE, NEW YORK STATE

DELTA
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 Tel: 607.231.6600
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 Email: mail@delta-eas.com
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Seal Phase PLANNING BOARD

Project No. 2020.260.001

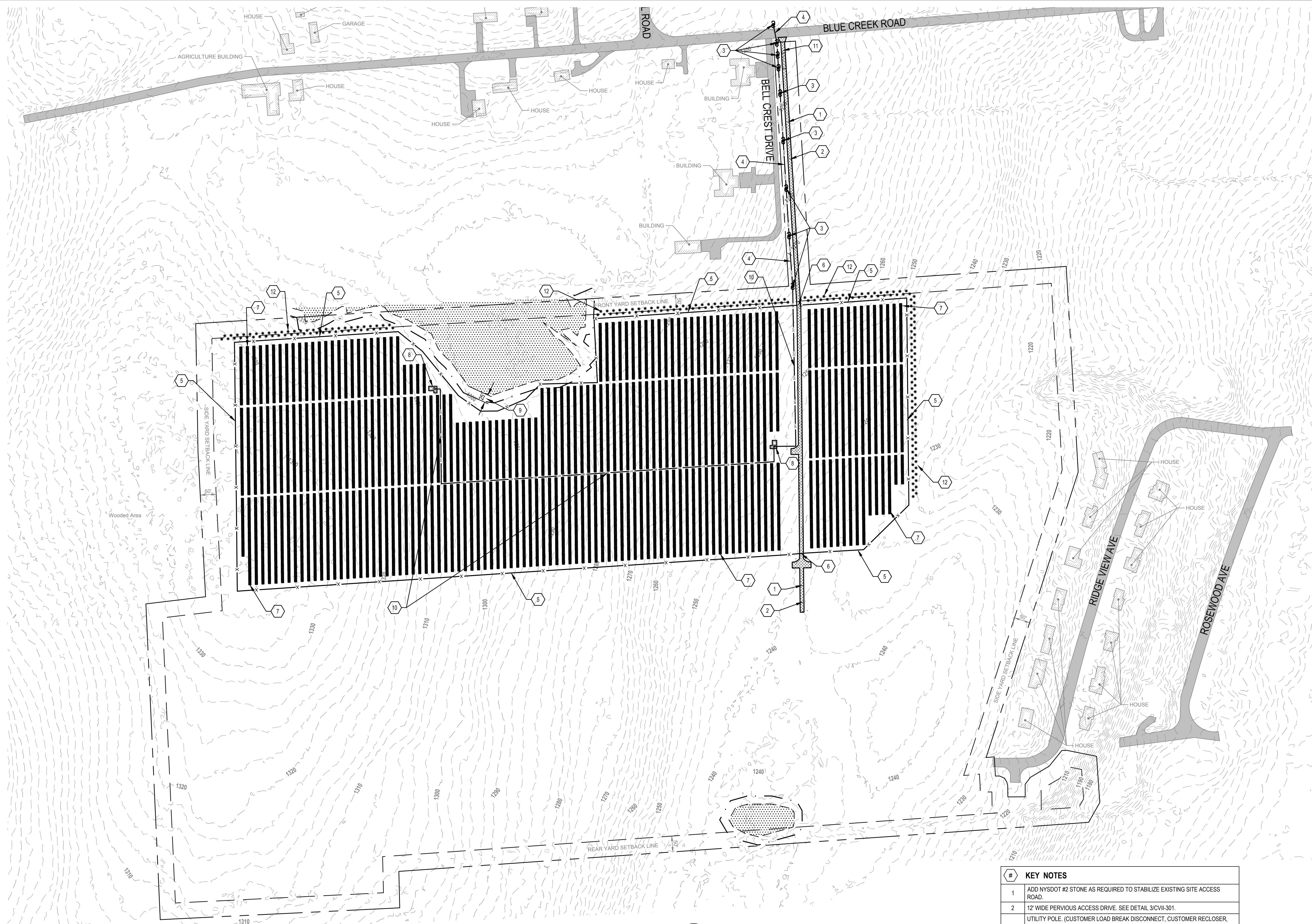
Date 2020.07.22

Drawing Title

SITE PLAN

Drawing No.

CVII-200



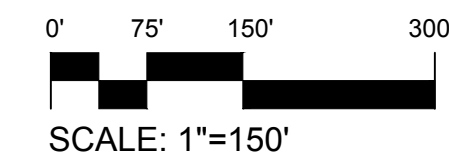
1 SITE PLAN
 CVII-200 SCALE: 1" = 150'



GROUND COVERAGE:
 SITE IS AN AGRICULTURAL ZONE. GROUND COVERAGE IS 9.20%.

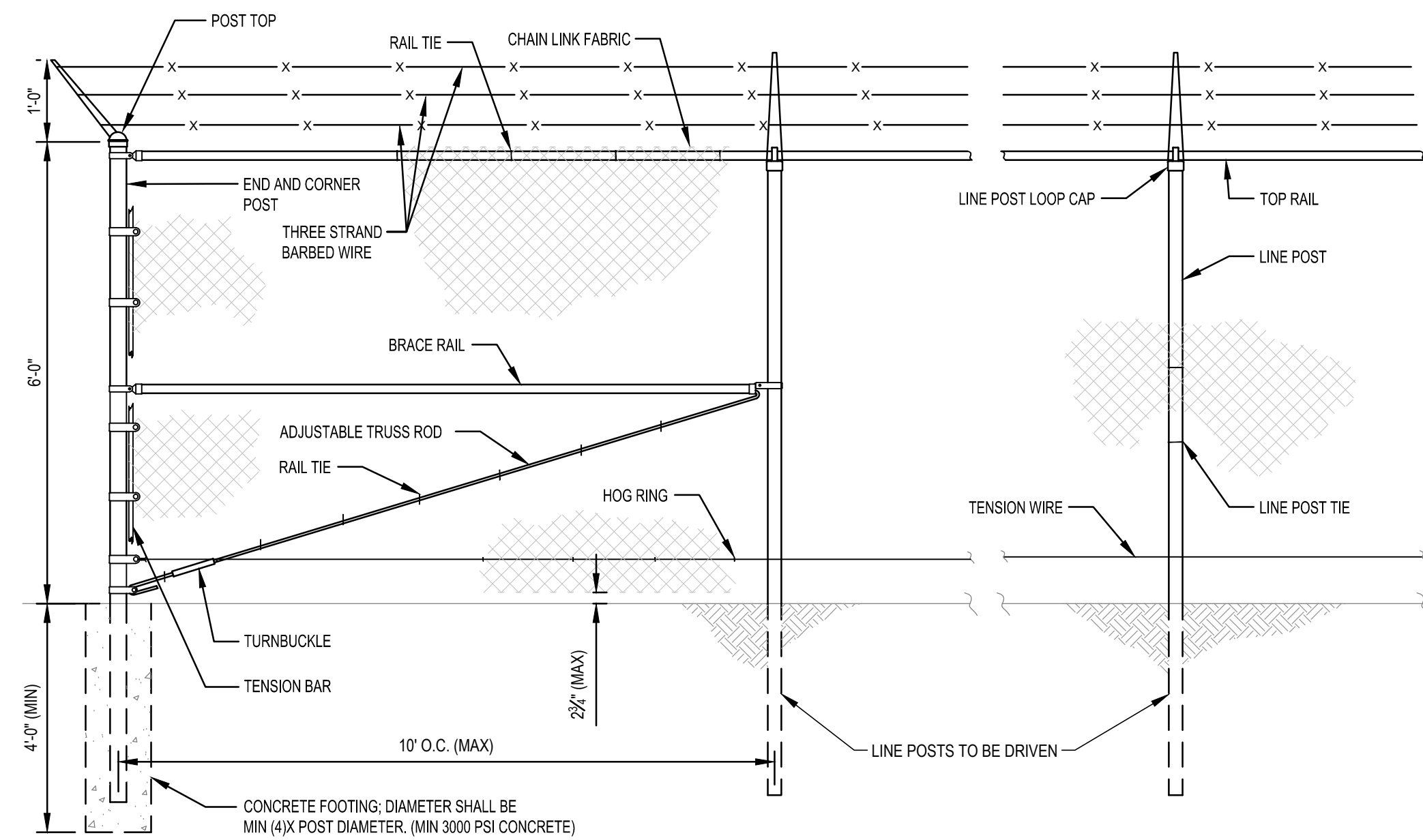
PARCEL ACREAGE: ±113.3 ACRES
 PROJECT ACREAGE: ±37.3 ACRES
 PROPOSED SOLAR: 19008 PANELS

#	KEY NOTES
1	ADD NYS DOT #2 STONE AS REQUIRED TO STABILIZE EXISTING SITE ACCESS ROAD.
2	12' WIDE PERVIOUS ACCESS DRIVE. SEE DETAIL 3/CVII-301.
3	UTILITY POLE. (CUSTOMER LOAD BREAK DISCONNECT, CUSTOMER RECLOSER, POLE MOUNTED UTILITY METER AND CUSTOMER RISER POLE) FINAL LOCATION SUBJECT TO CHANGE.
4	OVERHEAD ELECTRIC LINE. (FINAL LOCATION SUBJECT TO CHANGE)
5	6' HEIGHT CHAIN LINK SECURITY FENCE WITH 12" OF 3-STRAND BARBED WIRE. SEE DETAIL 1/CVII-300.
6	DOUBLE SWING CHAIN LINK FENCE GATE. SEE DETAIL 2/CVII-300.
7	PHOTOVOLTAIC (PV) MODULE, TYP.
8	PV INVERTER, TRANSFORMER AND NEUTRAL GROUND REACTOR EQUIPMENT SET ON CONCRETE PAD OR DRIVEN PILE FOUNDATION. SEE DETAIL 4/CVII-300.
9	MAINTAIN A 25' SETBACK FROM WETLANDS.
10	MEDIUM VOLTAGE UNDERGROUND ELECTRIC LINE. (FINAL LOCATION SUBJECT TO CHANGE). SEE DETAIL 3/CVII-300.
11	MINOR COMMERCIAL DRIVEWAY. SEE DETAIL 4/CVII-301.
12	VIEW MITIGATION PLANTING. SEE DETAIL 6/CVII-301.



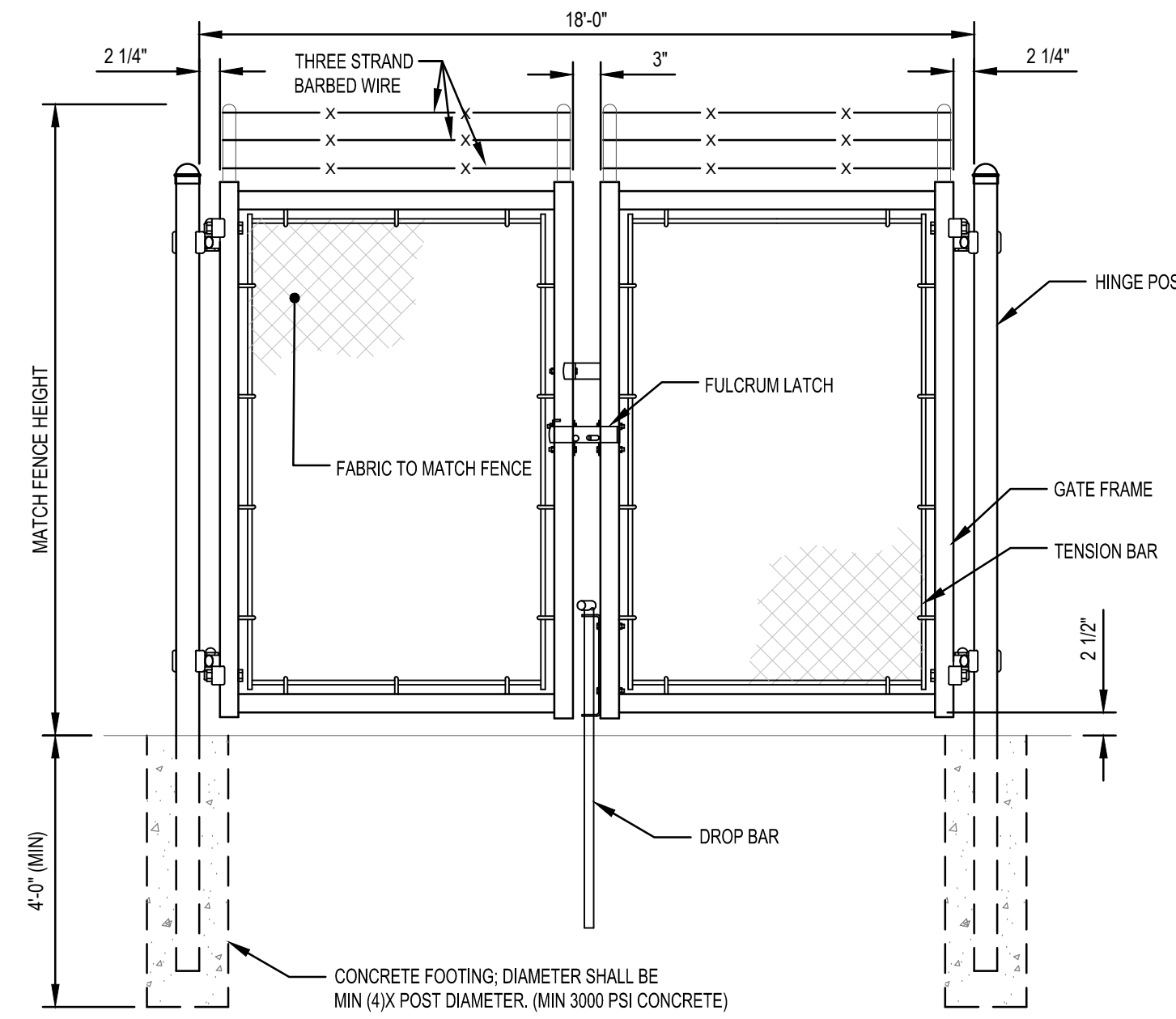
EXISTING CONDITIONS LEGEND:	
PROPERTY LINE	---
SETBACK LINE	---
EXISTING GROUND CONTOUR	--- 360 ---
WETLAND BOUNDARY	--- 360 ---
EXISTING OVERHEAD ELECTRIC LINE	--- OH --- OH --- OH ---
EXISTING PAVEMENT AREA	---

SITE PLAN LEGEND:	
UTILITY POLE	⊕
OVERHEAD ELECTRIC LINE	--- OH ---
UNDERGROUND ELECTRIC LINE	--- U/E ---
SECURITY FENCE	--- X ---
25' VEGETATIVE BUFFER	---
PHOTOVOLTAIC (PV) MODULE	▬
GRAVEL ACCESS ROAD	▨
STABILIZED CONSTRUCTION ENTRANCE	▩



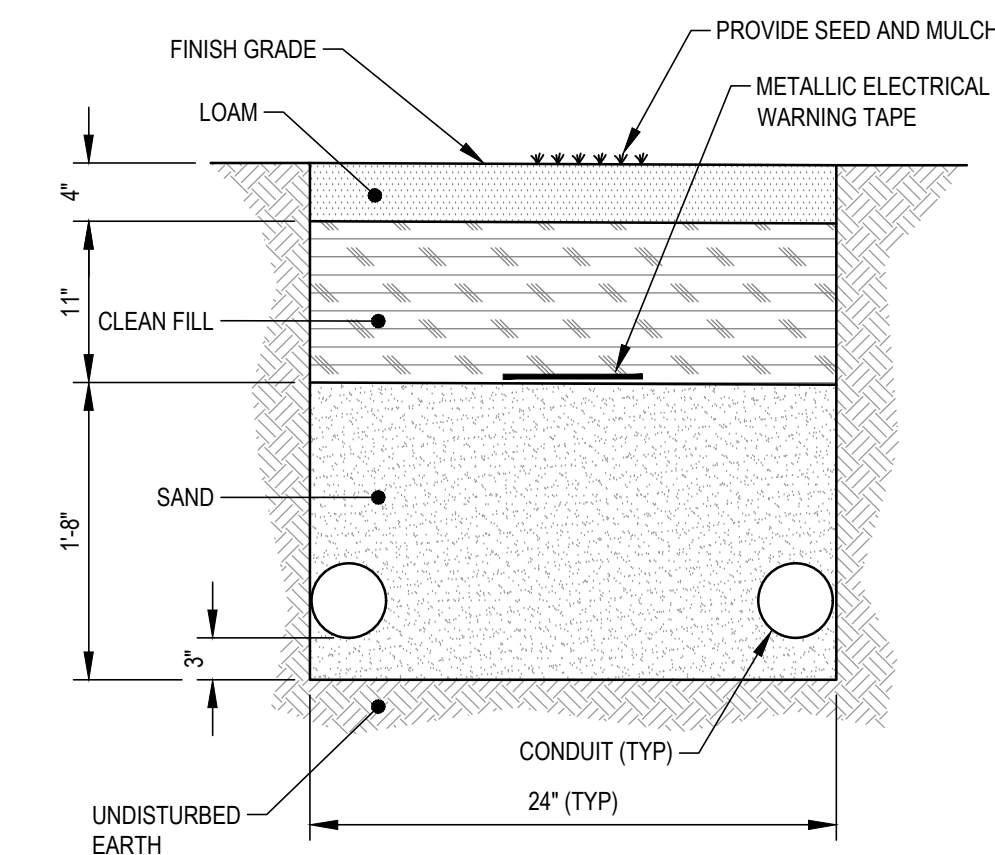
NOTE:
1. ONLY EXTERIOR CHAIN LINK FENCE LINES GET (3) THREE LINE BARBED WIRE.

1 CHAIN LINK FENCE DETAIL
CVII-300 SCALE: NONE

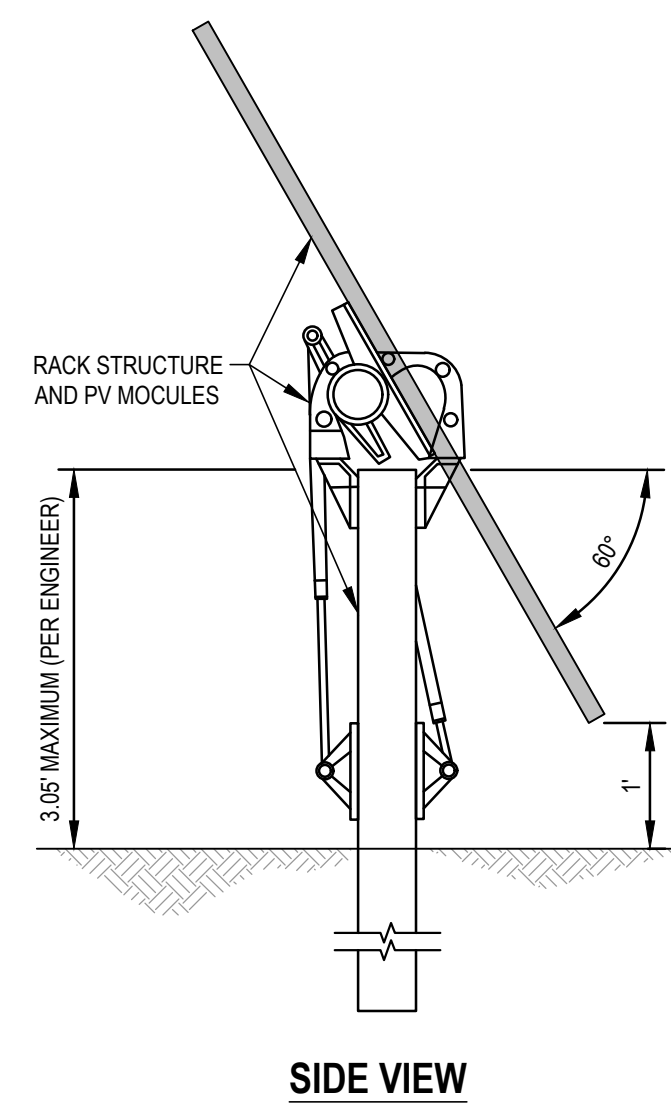


NOTE:
1. ONLY EXTERIOR CHAIN LINK FENCE GATES GET (3) THREE LINE BARBED WIRE.

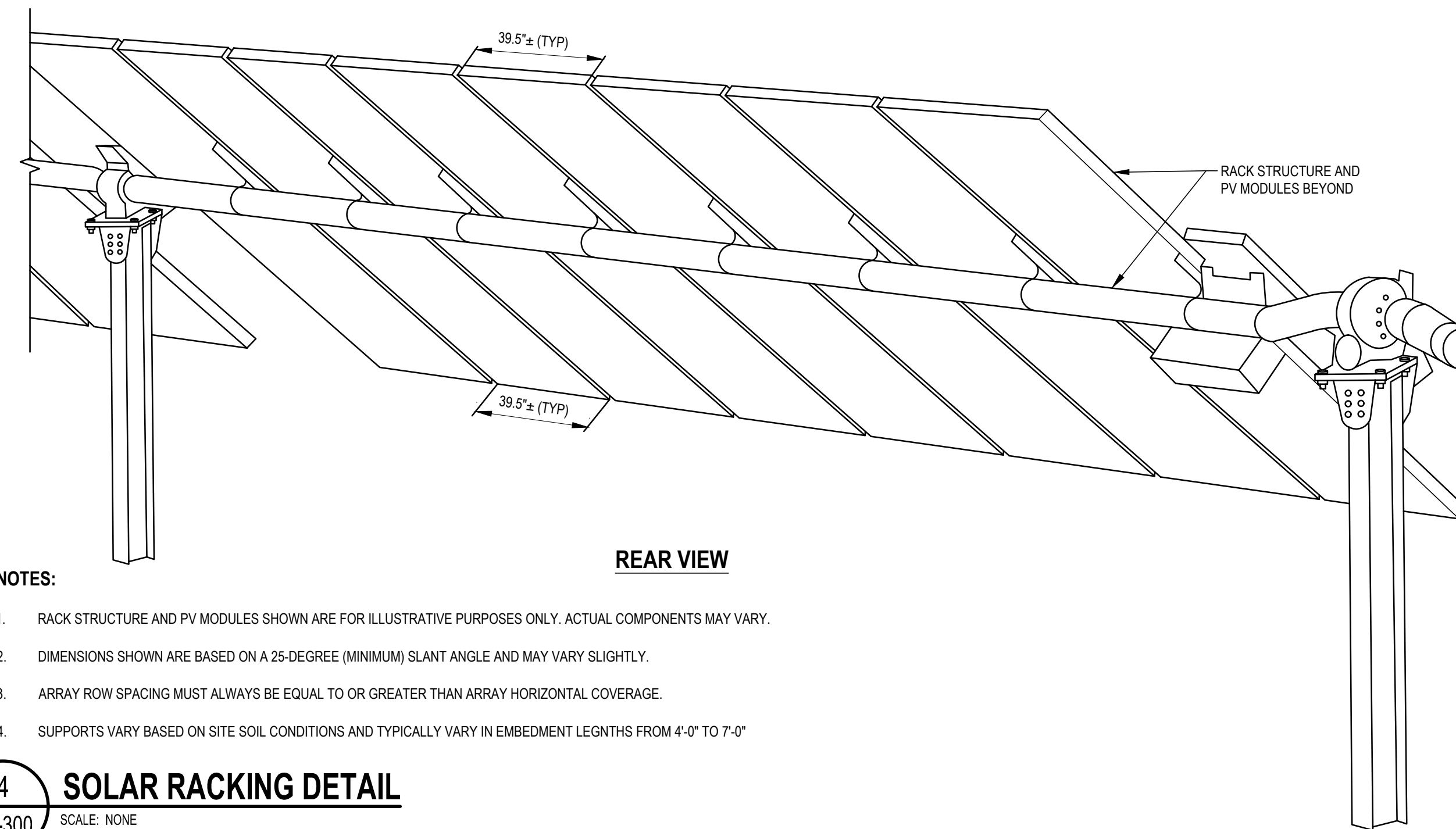
2 DOUBLE CHAIN LINK FENCE GATE DETAIL
CVII-300 SCALE: NONE



3 MEDIUM VOLTAGE CABLE TRENCH DETAIL (MV)
CII-300 SCALE: NONE



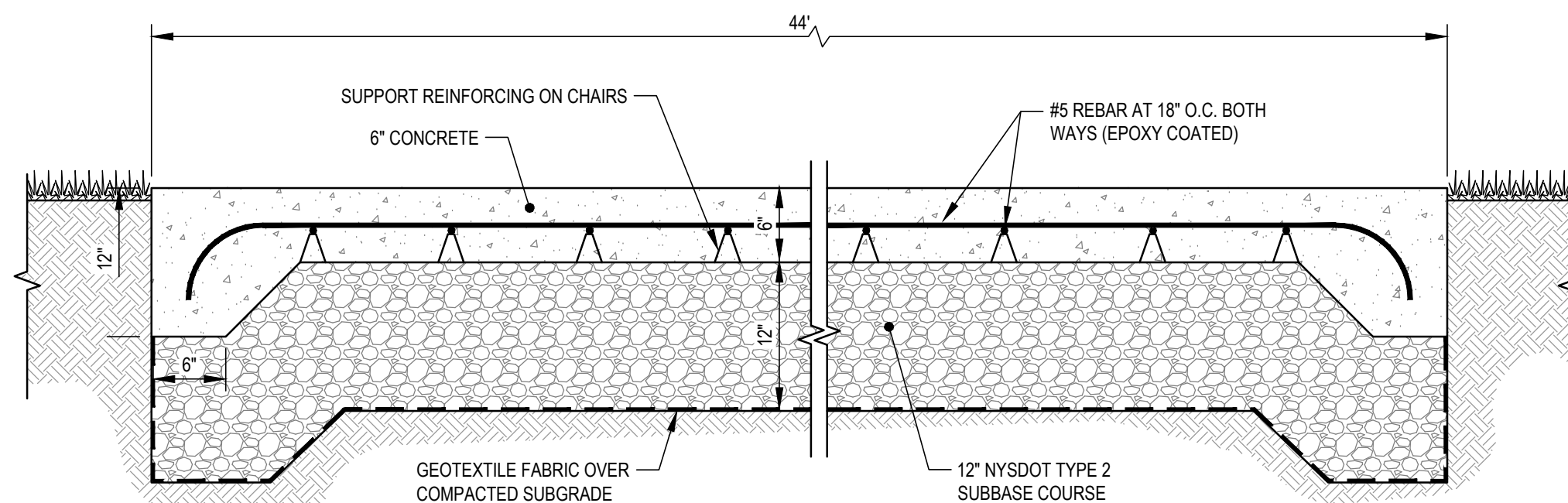
SIDE VIEW



REAR VIEW

NOTES:
1. RACK STRUCTURE AND PV MODULES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL COMPONENTS MAY VARY.
2. DIMENSIONS SHOWN ARE BASED ON A 25-DEGREE (MINIMUM) SLANT ANGLE AND MAY VARY SLIGHTLY.
3. ARRAY ROW SPACING MUST ALWAYS BE EQUAL TO OR GREATER THAN ARRAY HORIZONTAL COVERAGE.
4. SUPPORTS VARY BASED ON SITE SOIL CONDITIONS AND TYPICALLY VARY IN EMBEDMENT LENGTHS FROM 4'-0" TO 7'-0"

4 SOLAR RACKING DETAIL
CII-300 SCALE: NONE



NOTE:
1. DRIVEN PILE FOUNDATIONS MAY BE USED IN LIEU OF CONCRETE EQUIPMENT PADS AS SHOWN.

5 THICKENED EDGE 6" THICK CONCRETE PAD DETAIL
CII-300 SCALE: NONE

Key Plan

NOT FOR CONSTRUCTION

No.	Revision	Date
1	Revised Solar Layout	8/17/2020

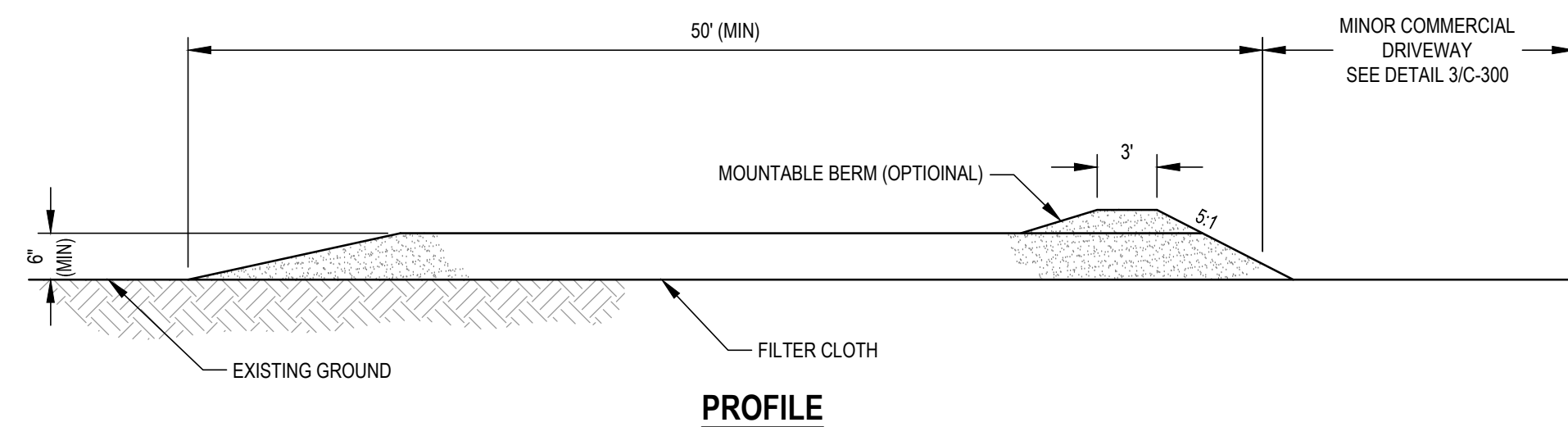
Project Name
SSC CORTLANDVILLE II LLC
TOWN OF CORTLANDVILLE, NEW YORK STATE

DELTA
ENGINEERS, ARCHITECTS, & SURVEYORS
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www.delta-eas.com

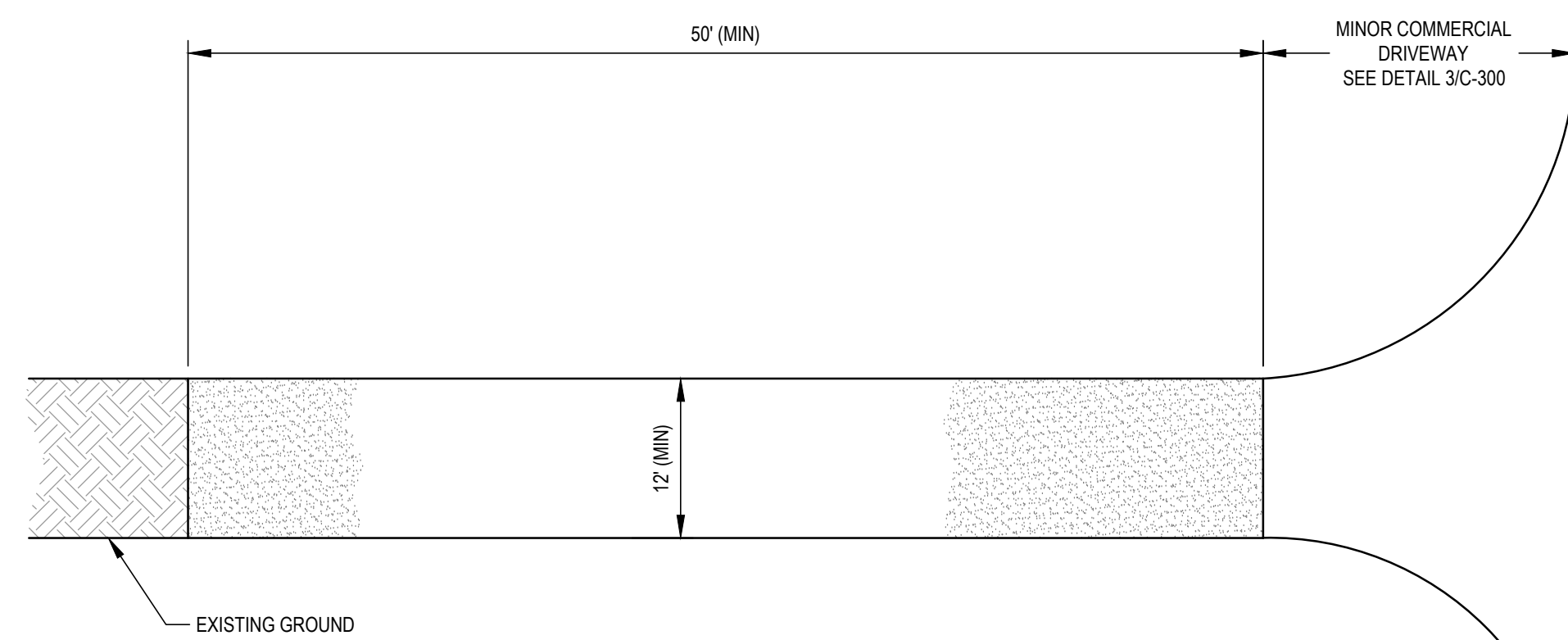
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	Project No. 2020.260.001
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	Date 2020.07.22

Drawing Title
DETAILS

Drawing No.
CVII-300



PROFILE



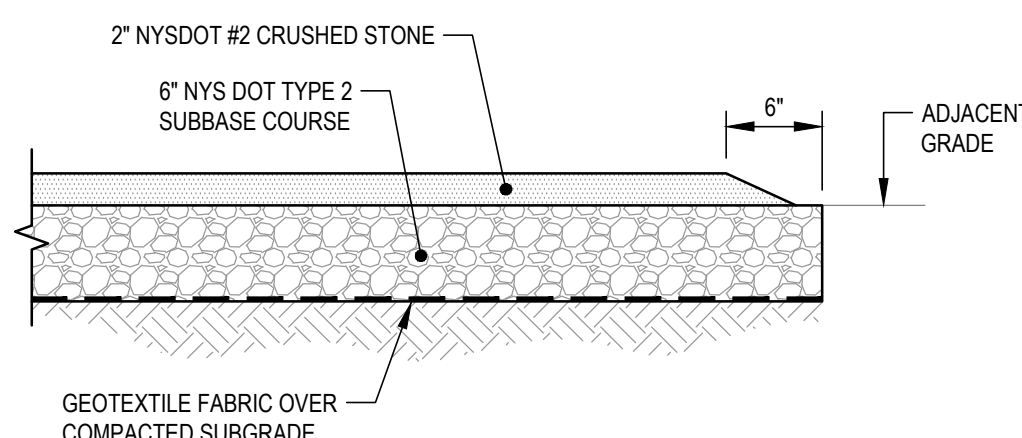
PLAN VIEW

CONSTRUCTION SPECIFICATIONS:

- STONE USE: USE NYS DOT # 2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS: NOT LESS THAN SIX (6) INCHES.
- TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH: WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER: ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN DURING CONSTRUCTION.
- CONSTRUCTION SPECIFICATIONS SUBJECT TO CHANGE PURSUANT TO NYS DOT REQUIREMENTS.

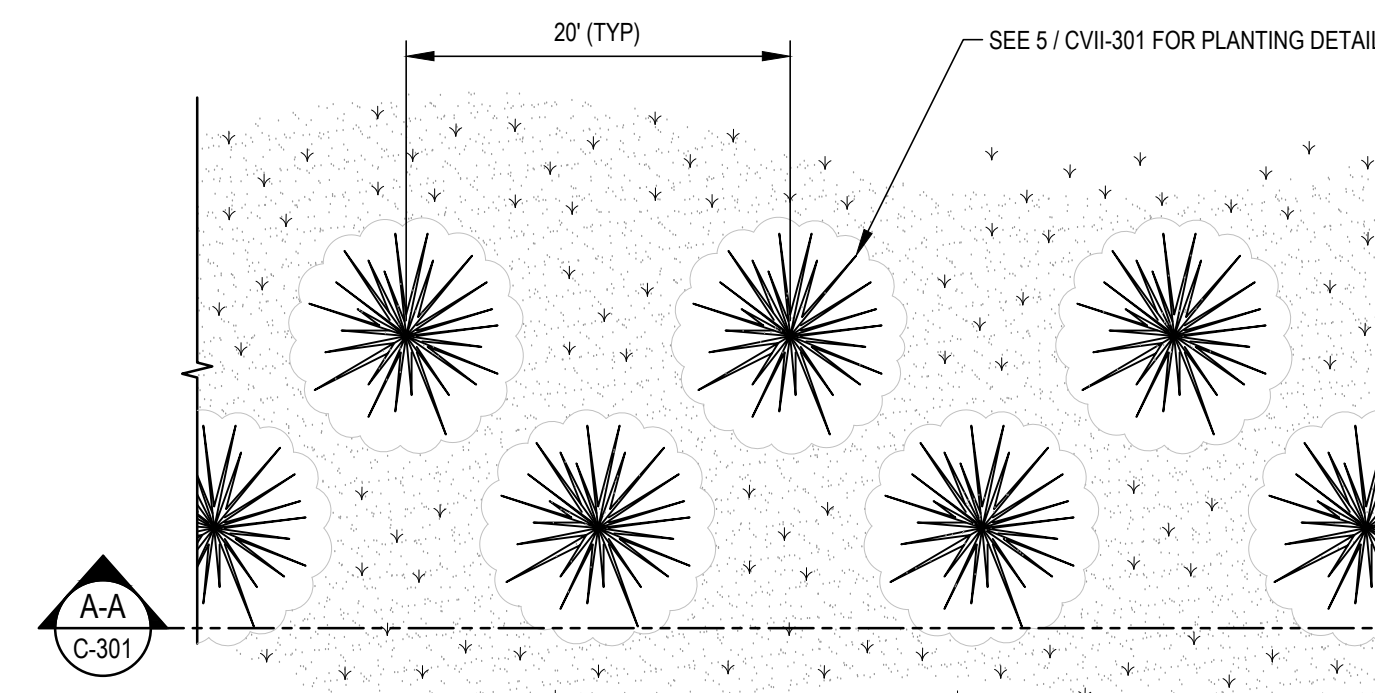
1 STABILIZED CONSTRUCTION ENTRANCE DETAIL

CVII-301 SCALE: NONE



4 GRAVEL DRIVEWAY DETAIL

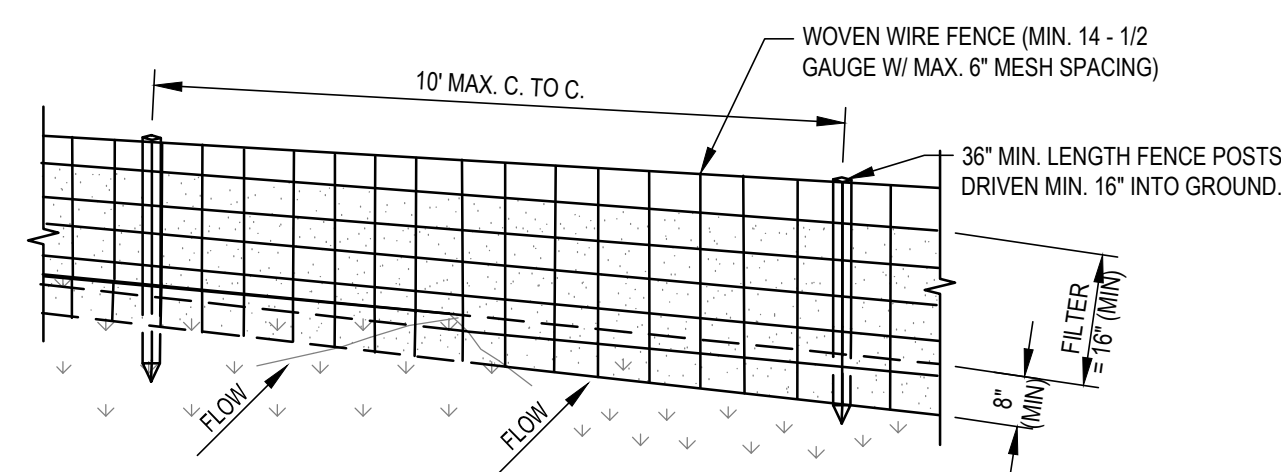
CVII-301 SCALE: NONE



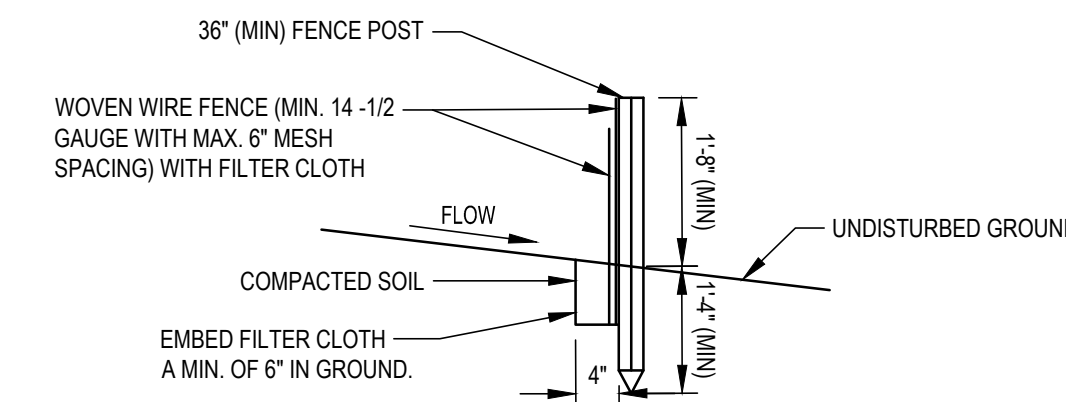
PLAN VIEW

6 VIEW MITIGATION PLANTING DETAIL

CVII-301 SCALE: NONE



PERSPECTIVE VIEW



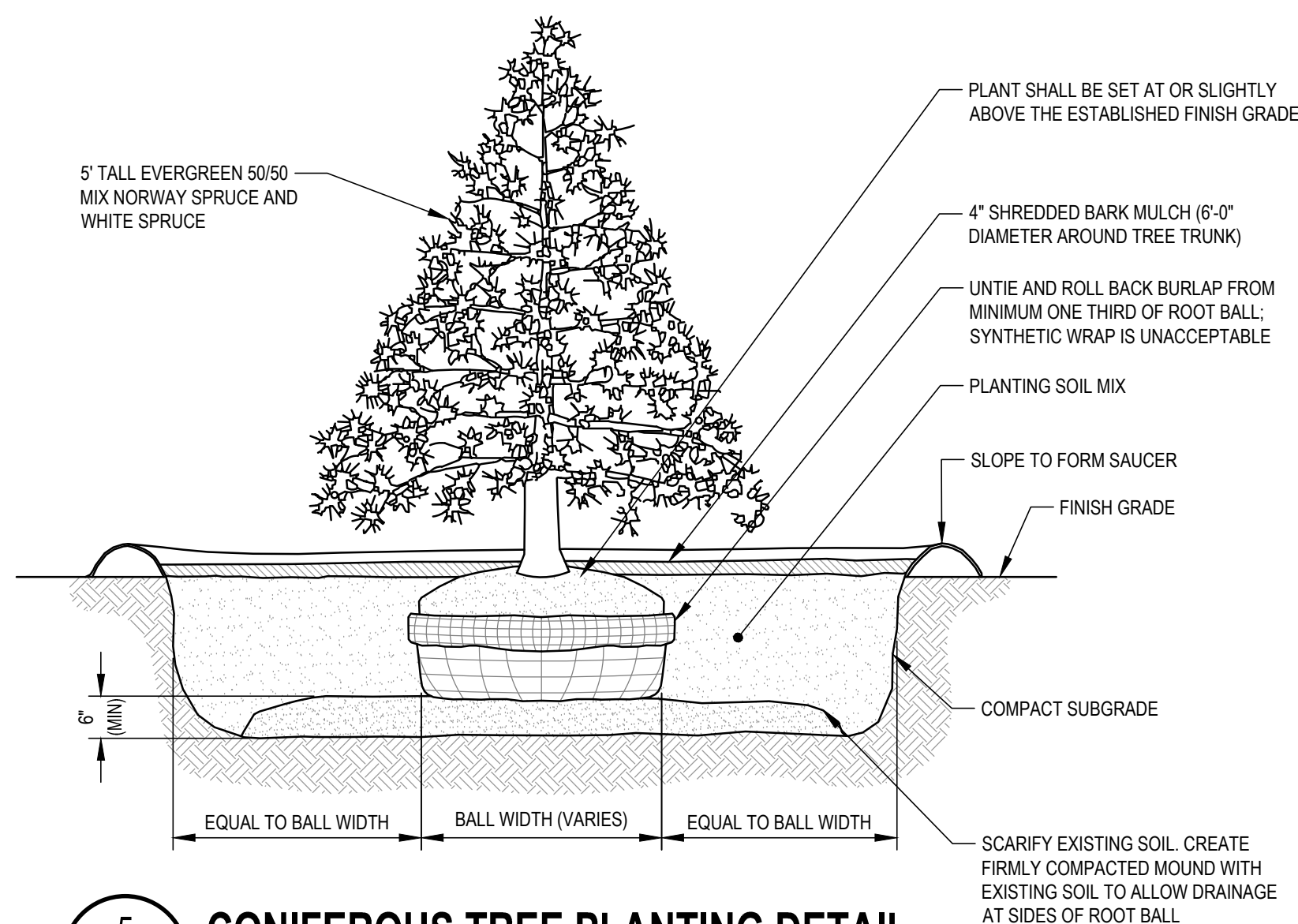
SECTION VIEW

CONSTRUCTION SPECIFICATIONS:

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 - 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

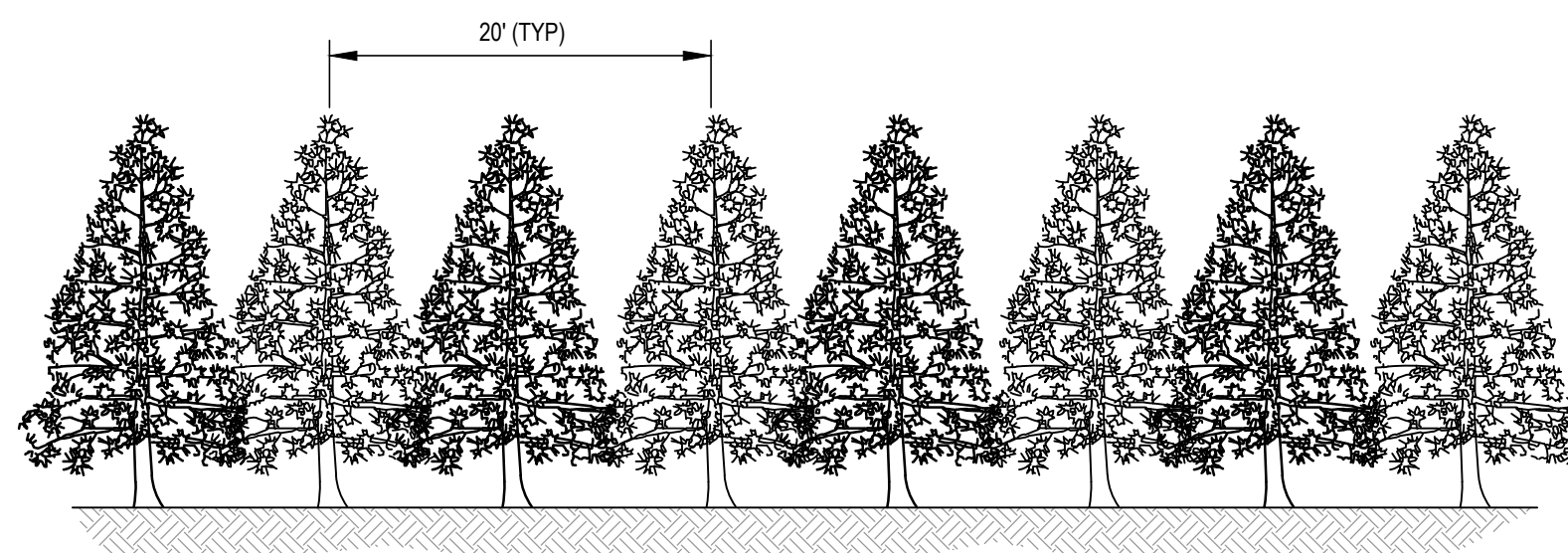
2 SILT FENCE DETAIL

CVII-301 SCALE: NONE

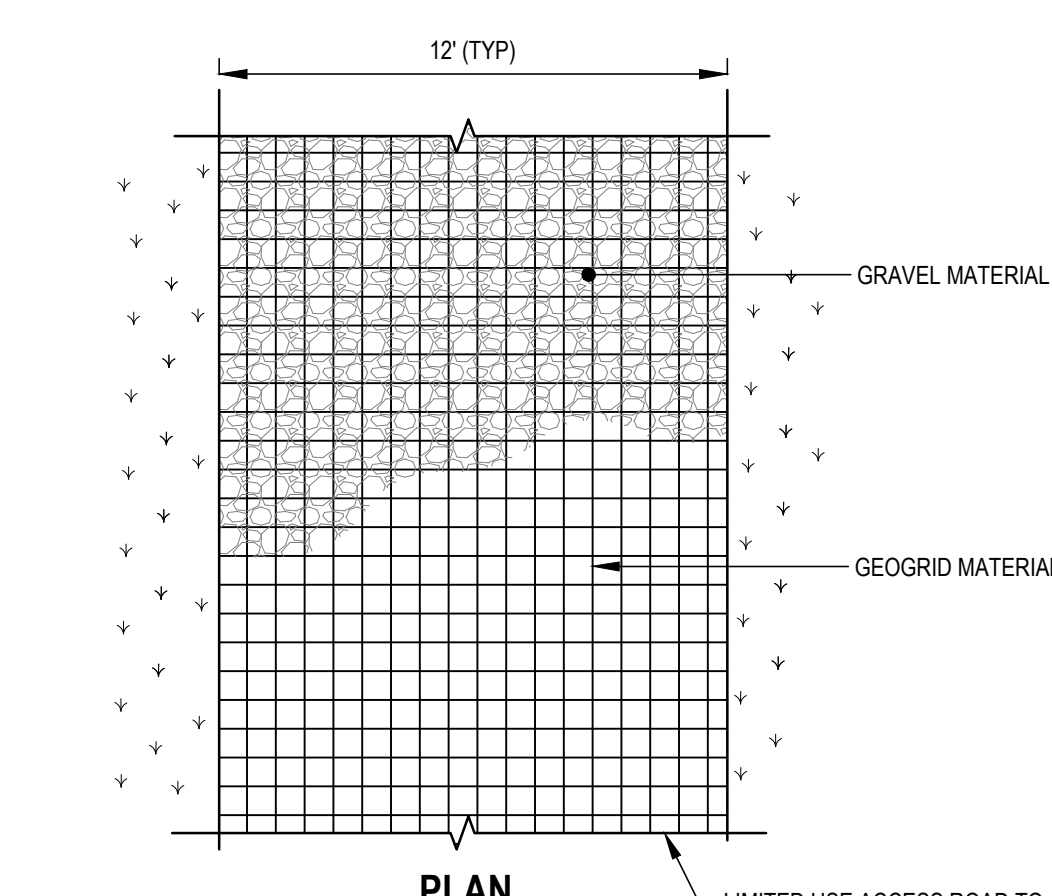


5 CONIFEROUS TREE PLANTING DETAIL

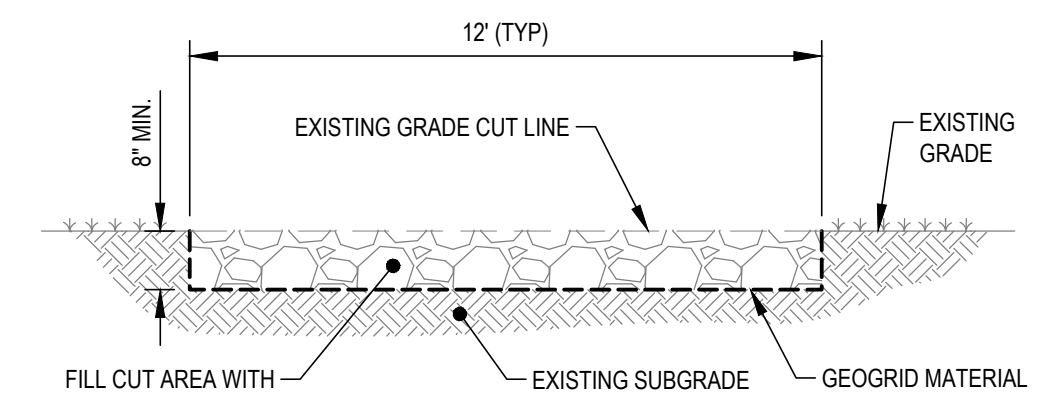
CVII-301 SCALE: NONE



SECTION A-A



PLAN



SECTION

**LIMITED USE PERVIOUS ROAD
0% TO 10% SLOPES DETAIL**

CVII-301 SCALE: NONE

GENERAL NOTES:

- LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRREGULAR MAINTENANCE ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
- REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
- REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER. COMPACT TO THE DEGREE OF THE NATIVE INSITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
- GRADE ROADWAY WHERE NECESSARY TO NATIVE SOIL AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.
- REMOVE UNSUITABLE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
- TO ENSURE THAT SOIL IS NOT TRACKED ONTO THE LIMITED USE PERVIOUS ACCESS ROAD, IT SHALL NOT BE USED BY CONSTRUCTION VEHICLES TRANSPORTING SOIL, FILL MATERIAL, ETC. IF THE LIMITED USE PERVIOUS ACCESS ROAD IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION, A STANDARD NEW YORK STATE STABILIZED CONSTRUCTION ACCESS SHALL BE CONSTRUCTED AND UTILIZED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE LIMITED USE PERVIOUS ACCESS ROAD FROM ANY LOCATION ON OR OFFSITE. MAINTENANCE OF THE PERVIOUS ACCESS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.
- THE LIMITED USE PERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS WHERE UPGRADIENT SOIL DISTURBANCES (E.G CLEARING AND GRUBBING, GRADING, ETC) HAVE ACHIEVED FINAL STABILIZATION.

GEOGRID MATERIAL NOTES (0-10% SLOPES):

- GRAVEL FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYS DOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF AND SPREAD WITH A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
- GEOGRID SHALL BE MIRAFI BXG110 OR APPROVED EQUAL. GEOGRID SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
- IF MORE THAN ONE ROLL WIDTH IS REQUIRED, ROLLS SHOULD OVERLAP A MINIMUM OF SIX INCHES.
- REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER TYING AND CONNECTIONS.
- LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE MEETING NYS DOT ITEM 703-02 SPECIFICATIONS.

BASIS OF DESIGN: TENCATE MIRAFI BXG110, GEOGRIDS, 365 SOUTH HOLLAND DRIVE, PENDERGRASS, CA (800) 685-9990, OR (706) 693-2226; WWW.MIRAFI.COM

WOVEN GEOTEXTILE MATERIAL NOTES (POORLY DRAINED SOILS) :

- SPECIFIED GEOTEXTILE WILL ONLY BE UTILIZED IN PLACID SOILS. PLACID SOILS CONSIST OF POORLY DRAINED SOILS COMPOSED OF FINELY TEXTURED PARTICLES AND ARE PRONE TO RUTTING. PLACID SOILS ARE TYPICALLY PRESENT IN LOW-LYING AREAS WITH HYDROLOGIC SOLS GROUP (HSG) OF C OR D OR AS SPECIFIED FROM AN ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST, OR GEOTECHNICAL DATA.

BASIS OF DESIGN: TENCATE MIRAFI RSI-SERIES WOVEN GEOSYNTHETICS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA, (800) 685-9990 OR (706) 693-2226; WWW.MIRAFI.COM



SSC Cortlandville II LLC
334 Arapahoe Ave
Boulder, Colorado 80302
Tel: 561.866.8234
Email: john@summitsolarcapital.com

Key Plan

No.	Revision	Date
1	Revised Solar Layout	8/17/2020

Project Name

SSC CORTLANDVILLE II LLC

TOWN OF CORTLANDVILLE, NEW YORK STATE



860 Hooper Road
Endwell, New York 13760
Tel: 607.231.6600
Fax: 607.231.6650
Email: mail@delta-eas.com
www.delta-eas.com

Seal	Phase PLANNING BOARD
	Project No. 2020.260.001
Date	2020.07.22

Drawing Title

DETAILS

Drawing No.

CVII-301

NOT FOR CONSTRUCTION

**Full Environmental Assessment Form
Part 1 - Project and Setting**

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: SSC Cortlandville II LLC		
Project Location (describe, and attach a general location map): 4242 Bell Crest Dr., Cortlandville, NY 13045		
Brief Description of Proposed Action (include purpose or need): Installation of a ground mounted solar facility. Project includes construction of solar arrays, transformers, inverters, stored energy system, access roads, utility poles and a perimeter security fence.		
Name of Applicant/Sponsor: SSC Cortlandville II LLC		Telephone: 480.252.5496
		E-Mail: david@summitsolarcapital.com
Address: 525 S. Flagler Dr.		
City/PO: West Palm Beach	State: FL	Zip Code: 33401
Project Contact (if not same as sponsor; give name and title/role): David Spotts		Telephone: 480.252.5496
		E-Mail: david@summitsolarcapital.com
Address: 525 S. Flagler Dr.		
City/PO: West Palm Beach	State: FL	Zip Code: 33401
Property Owner (if not same as sponsor): Lawrence Hill		Telephone: 607.745.0721
		E-Mail: evergreenhills69@gmail.com
Address: 4000 Ellwood Rd.,		
City/PO: Cincinnati	State: NY	Zip Code: 13040

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees		
b. City, Town or Village Planning Board or Commission <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Site plan review and approval	August, 2020
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
d. Other local agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cortland County Industrial Development Agency	September 2020
e. County agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	County 239 Review	August, 2020
f. Regional agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
i. Coastal Resources. <ul style="list-style-type: none"> i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No iii. Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

Aquifer Protection District _____

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?

Parcel is zoned Agricultural _____

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No

If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Homer Central School District

b. What police or other public protection forces serve the project site?
New York State Police, Cortland County Sheriff

c. Which fire protection and emergency medical services serve the project site?
Cortlandville Fire Department

d. What parks serve the project site?
N/A

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Commercial solar energy production

b. a. Total acreage of the site of the proposed action?	<u>+/- 37.3</u> acres	1.2 ac. of physical disturbance per DEC guidelines, 37.3 ac. of coverage which could be interpreted as disturbance by PB.
b. Total acreage to be physically disturbed?	<u>+/- 1.2</u> acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?	<u>+/- 75</u> acres	

c. Is the proposed action an expansion of an existing project or use? Yes No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
Commercial

ii. Is a cluster/conservation layout proposed? Yes No

iii. Number of lots proposed? 3

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? Yes No

i. If No, anticipated period of construction: 4 months

- ii. If Yes:
- Total number of phases anticipated _____
 - Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
 - Anticipated completion date of final phase _____ month _____ year
 - Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures 19,000 Panel

ii. Dimensions (in feet) of largest proposed structure: App. 5' height; App. 4' width; and App. 6' length

iii. Approximate extent of building space to be heated or cooled: _____ 0 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source. _____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes No
 If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No
 If Yes:
 • acres of aquatic vegetation proposed to be removed: _____
 • expected acreage of aquatic vegetation remaining after project completion: _____
 • purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
 • proposed method of plant removal: _____
 • if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No
 If Yes:
 i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No
 If Yes:
 • Name of district or service area: _____
 • Does the existing public water supply have capacity to serve the proposal? Yes No
 • Is the project site in the existing district? Yes No
 • Is expansion of the district needed? Yes No
 • Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____
 • Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No
 If, Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No
 If Yes:
 i. Total anticipated liquid waste generation per day: _____ gallons/day
 ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No
 If Yes:
 • Name of wastewater treatment plant to be used: _____
 • Name of district: _____
 • Does the existing wastewater treatment plant have capacity to serve the project? Yes No
 • Is the project site in the existing district? Yes No
 • Is expansion of the district needed? Yes No

- Do existing sewer lines serve the project site? Yes No
- Will a line extension within an existing district be necessary to serve the project? Yes No

 If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:

- How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ 0.1 acres (impervious surface)
 _____ Square feet or _____ +/- 37 acres (parcel size)
- Describe types of new point sources. Storm water sheet flows across the property and will continue to do so, in the same drainage patterns post-construction as compared to existing drainage patterns.
- Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?
Stormwater runoff will be maintained along current drainage flow paths towards naturally occurring conveyance systems.

- If to surface waters, identify receiving water bodies or wetlands: _____
 Tributary to unnamed stream
- Will stormwater runoff flow to adjacent properties? Yes No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:

- Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)
- Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)
- Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:

- Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
- In addition to emissions as calculated in the application, the project will generate:
 - _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 - _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 - _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 - _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 - _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 - _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 6:00AM - 7:00PM • Saturday: _____ 7:00AM - 5:00PM • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 24-hr/day (equipment only) • Saturday: _____ 24-hr/day (equipment only) • Sunday: _____ 24-hr/day (equipment only) • Holidays: _____ 24-hr/day (equipment only)
--	---

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No
 If yes:
 i. Provide details including sources, time of day and duration:
 Pile driving activities will produce higher than ambient noise but will only be present at the initial phase of construction and last for 3-4 weeks during regular work hours. During the post-construction operations phase no audible noise above ambient noise levels will be recognized.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: The proposed project also involves the installation of vegetation which will further buffer any post-construction noise from neighboring residences.

n. Will the proposed action have outdoor lighting? Yes No
 If yes:
 i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No
 If Yes:
 i. Product(s) to be stored _____
 ii. Volume(s) _____ per unit time _____ (e.g., month, year)
 iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No
 If Yes:
 i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No
 If Yes:
 i. Describe any solid waste(s) to be generated during construction or operation of the facility:
 • Construction: _____ 8 tons per _____ month (unit of time)
 • Operation : _____ tons per _____ (unit of time)

32 total tons of solid waste will be generated.

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
 • Construction: Contractor to work with local facility to recycle materials where applicable and reasonable.

 • Operation: No solid waste will be generated during the operational phase of the facility

iii. Proposed disposal methods/facilities for solid waste generated on-site:
 • Construction: Disposal will be at an approved landfill

 • Operation: No solid waste will be generated during the operational phase of the facility

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:
 No hazardous waste will be used or generated at the site.

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:
 The property is generally bounded by residential on the east, forest to the west, and a mix of woods/forest/residential/agricultural to the north and south.

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.2	0.3	+0.1
• Forested	11.0	5.5	-5.5
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	23.0	28.4	+5.4
• Agricultural (includes active orchards, field, greenhouse etc.)	-	-	-
• Surface water features (lakes, ponds, streams, rivers, etc.)	-	-	-
• Wetlands (freshwater or tidal)	2.8	2.8	0
• Non-vegetated (bare rock, earth or fill)	-	-	-
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:
Madison Cortland ARC, Cayuga Medial Associates PC, Family Medicine Center, Cortland Christian Academy

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:
• Dam height: _____ feet
• Dam length: _____ feet
• Surface area: _____ acres
• Volume impounded: _____ gallons OR acre-feet
ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No
• If yes, cite sources/documentation: _____
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ 2-4 feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ 0 %

c. Predominant soil type(s) present on project site:

Lordstown-Arnot complex	_____	38.2 %
Mardin channery silt loam	_____	19.1 %
Erie silt loam	_____	17.6 %

d. What is the average depth to the water table on the project site? Average: _____ 2-6' feet

e. Drainage status of project site soils: Well Drained: _____ 46.8 % of site
 Moderately Well Drained: _____ 33.5 % of site
 Poorly Drained _____ 19.7 % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ 77.5 % of site
 10-15%: _____ 20.8 % of site
 15% or greater: _____ 1.7 % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No
 If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification C
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal waters Approximate Size 2.8
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
 If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100-year Floodplain? Yes No

k. Is the project site in the 500-year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
 If Yes:
 i. Name of aquifer: Principal Aquifer, Primary Aquifer, Sole Source Aquifer Names: Cortland Homer Preble SSA

m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Species and listing (endangered or threatened): _____ _____ _____	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Species and listing: _____ _____	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? +/- 9.8 acres within the project limits <i>ii.</i> Source(s) of soil rating(s): <u>USDA</u>	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
<i>i.</i> Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District	
<i>ii.</i> Name: _____	
<i>iii.</i> Brief description of attributes on which listing is based: _____	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	
If Yes:	
<i>i.</i> Describe possible resource(s): _____	
<i>ii.</i> Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Identify resource: <u>Scenic Rte. 90 (1.5mi N) , Homer public water supply source (1.7mi N), Cortland City Water Works (0.9mi S)</u>	
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): <u>NYS scenic byway, critical environmental areas</u>	
<i>iii.</i> Distance between project and resource: <u>0.9 to the closest resource</u> miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
<i>i.</i> Identify the name of the river and its designation: _____	
<i>ii.</i> Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	
<input type="checkbox"/> Yes <input type="checkbox"/> No	

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name David Spotts Date 08.17.2020

Signature DAVID SPOTTS Title Managing Member