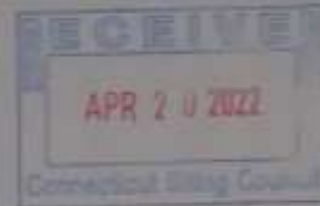




PAUL R. MICHAUD
Managing Attorney / Principal
101 Centerpoint Drive, Suite 230
Middletown, CT 06457
Direct Telephone: (860) 338-3728
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Web: www.michaudlaw.com

April 19, 2022

FILED BY U.S. MAIL AND ELECTRONIC MAIL



Melanie Bachman, Esq.
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **PETITION NO. 1487** – TRITEC Americas, LLC petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a 1.97-megawatt AC solar photovoltaic electric generating facility located at 254 Putnam Road, Pomfret, Connecticut, and associated electrical interconnection.

Dear Attorney Bachman:

On behalf of TRITEC Americas, LLC ("Petitioner"), please accept the enclosed responses to the interrogatories provided by the Connecticut Siting Council ("Council") on March 22, 2022.

Consistent with Council requirements, Petitioner submits one electronic version, an original, and fifteen hard copies of all necessary documents.

Please feel free to contact me if you have any questions.

Very truly yours,

Paul R. Michaud
Dylan J. Gillis



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

March 22, 2022

Paul R. Michaud, Esq.
Principal/Managing Attorney
Michaud Law Group LLC
101 Centerpoint Drive, Suite 230
Middletown, CT 06457
pmichaud@michaud.law

RE: **PETITION NO. 1487** – TRITEC Americas, LLC petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a 1.97-megawatt AC solar photovoltaic electric generating facility located at 254 Putnam Road, Pomfret, Connecticut, and associated electrical interconnection.

Dear Attorney Michaud:

The Connecticut Siting Council (Council) requests your responses to the enclosed questions no later than April 19, 2022. Please submit an original and 15 copies to the Council's office and an electronic copy to siting.council@ct.gov. In accordance with the State Solid Waste Management Plan and in accordance with Section 16-50j-12 of the Regulations of Connecticut State Agencies, the Council requests all filings be submitted on recyclable paper, primarily regular weight white office paper. Please avoid using heavy stock paper, colored paper, and metal or plastic binders and separators. Fewer copies of bulk material may be provided as appropriate.

Please be advised that the original and 15 copies are required to be submitted to the Council's office on or before the April 19, 2022, deadline.

Copies of your responses are required to be provided to all parties and intervenors listed in the service list, which can be found on the Council's website under the "Pending Matters" link.

Any request for an extension of time to submit responses to interrogatories shall be submitted to the Council in writing pursuant to §16-50j-22a of the Regulations of Connecticut State Agencies.

Sincerely,

A handwritten signature in cursive script, appearing to read "Melanie A. Bachman".

Melanie A. Bachman
Executive Director

C: Service List

MB/RM

Petition No. 1487
TRITEC Americas, LLC
Pomfret, Connecticut
Interrogatories

Project Development

1. The Petition states the ZREC contract is for a period of 15 years. Can this contract be extended/renewed? If not and the solar facility has not reached the end of its lifespan, will the Petitioner decommission the facility at that time or seek other revenue mechanisms for the power produced by the facility?

Response:

No. The ZREC contract cannot be extended/renewed. The Standard Eversource contract provides for a 15-year term only.

The Petitioner may continue operating the solar system after the 15-year ZREC contract expires and intends to continue operating the solar system array until the end of the lease term plus any lease extensions. The lease allows for an initial 20-year term plus two five-year extensions.

2. If the project is approved, identify all permits necessary for construction and operation and which entity will hold the permit(s)?

Response:

If approved, the project will require the following permits: CT DEEP General Permit for the Discharge of Stormwater and Dewatering Wastewater from Construction Activity and Town of Pomfret Building and Electrical Permits.

3. Referring to Petition p. 3, did the Town present recommendations during project outreach? If so, describe the recommendations and how these recommendations were addressed and/or included within the project design? What were the concerns of the abutting property owners and how were these concerns addressed?

Response:

The Town did not present any recommendations during project outreach. Two residential abutters expressed concern regarding seeing the solar array when they go for walks along the back of the parcel on Wrights Crossing Road. Applicant indicated that it would look at an evergreen buffer along the road. In addition, the abutter Connecticut Audubon Society expressed concern regarding any adverse effects on birds by the solar array. Applicant indicated that any birds within the solar system fence line would be protected from the farm's hay cutting tractors but indicated it would develop appropriate mitigation measures based on the NDDB report by DEEP.

4. What is the estimated cost of the project?

Response:

The project's estimated cost, including the equipment and the construction cost, is approximately \$3.22/Watt AC x 1,970,000 Watts, or about \$6,343,400.

Proposed Site

5. Provide a map clearly depicting the boundaries of the **solar project site** and the boundaries of the host parcel(s). Under RCSA §16-50j-2a(29), “**Site**” means a contiguous parcel of property with specified boundaries, including, but not limited to, **the leased area, right-of-way, access, and easements** on which a facility and associated equipment is located, shall be located or is proposed to be located.

Response:

See attached for a Site Boundary map, including the proposed facility and interconnection. Attachment A.

6. In the lease agreement with the property owner:
- What is the term of the lease?
 - Could the lease term be extended? If so, at what time intervals?
 - Are there any provisions related to decommissioning and/or site restoration at the end of the project’s useful life? If so, please describe and/or provide any such provisions.

Response:

The initial term of the lease is 20 years. The lease can be extended for two successive renewal terms of five years each. At the end of the lease, the Petitioner must completely remove the project and restore the land to pre-solar array condition.

7. Is the site parcel, or any portions thereof, part of the Public Act 490 Program? If so, how does the municipal land-use code classify the parcel(s)? How would the project affect the use classification?

Response:

The site parcel is part of the Public Act 490 program but exceeds the ten-year participation requirement under the Act. The property is zoned rural/residential, and this is not expected to change. The portion of the site parcel (about 13 acres) would become part of the Town's Grand List and will be subject to full personal property taxation based on the Town's mill rate.

8. Has the State of Connecticut Department of Agriculture purchased any development rights for the project site or any portion of the project site as part of the State Program for the Preservation of Agricultural Land?

Response:

No.

9. Provide the distance, direction and address of the nearest property line from the perimeter fence.

Response:

The nearest property line from the perimeter fence is approximately 88' to the south/southeast, located across the road at 611 Wrights Crossing Road.

Energy Output

10. What is the anticipated capacity factor of the project? Would the capacity of the system decline over time? If so, estimate annual losses.

Response:

The project's electrical system is sized for the entire 100% output, and annual losses are estimated at 0.5%/year.

11. Is the project subject to a virtual net metering agreement? Would total project output be dedicated to virtual net metering?

Response:

No.

12. Is the project being designed to accommodate a future potential battery energy storage system? If so, where would it be located?

Response:

No.

13. Would the Petitioner participate in the ISO-NE Forward Capacity Auction? If yes, which auction(s) and capacity commitment period(s)?

Response:

No.

Site Components and Solar Equipment

14. Referencing SP-1, eight PV systems are identified. Will these systems operate independently such that if an interconnection failure or maintenance shut down occurs at one, the others will continue to operate?

Response:

Correct. The other seven can continue operating if one system is disconnected for maintenance.

15. Why is there a mix of 400-watt and 570-watt PV panels for this project? Can the 400-watt panels be replaced with 570-watt panels to reduce the project footprint?

Response:

The mix of modules is due to availability and the use of safe harbored modules to make the project financially viable.

16. Is the wiring from the panels to the inverters installed on the racking system? If wiring is external, how would it be protected from potential damage from weather exposure, vegetation maintenance, or animals?

Response:

AC Wiring from the Inverters to the Panel and MV Transformer takes place on the equipment pads next to the array. Underground conduits will protect feeders.

The DC string wiring from the panels to the Inverters is routed along the racking structure in a secured manner preventing access to animals. These wires enter a conduit weather head under the array that is then routed to the inverters. Any wiring along the structure that is exposed to the sun is protected by split loom tubing to prevent UV damage. No wiring will be subject to damage during vegetation maintenance as all wiring below the panels will be in conduit.

17. Site Plan DN-1 specifies a six-foot high chain link fence. Revise the plan to include a seven-foot-high chain link fence, as referenced on Petition p. 8.

Response:

See attached for a revised Site Plan which includes the update to a seven-foot-high chain link fence as depicted on Sheet DN-1. Attachment B.

Interconnection

18. Is the project interconnection required to be reviewed by ISO-NE?

Response:

No.

19. What is the line voltage of the electrical interconnections?

Response:

Utility voltage is 23kV.

20. Would any off-site upgrades to the electrical distribution system be required? If so, describe.

Response:

No off-site upgrades will be required.

21. The Petition indicates 12 utility poles are required for this project. Provide the following.
a) How tall would the proposed utility poles be?

Response:

Poles are 50 feet, 40 feet above ground

b) How many utility poles would be owned by Eversource?

Response:

The Utility will own poles 1-10. The Customer will own poles 11-18.

c) Indicate where the demarcation point(s) of change of control/responsibility from the Petitioner to Eversource would be located on the electrical interconnection for the project.

Response:

This demarcation is shown on the IA Single-Line Diagram. It comes upstream of the Customer Disconnects on Poles 11-18.

d) Is it possible to reduce the number of utility poles required for the Project by ungrounding more on the interconnection line?

Response:

Undergrounding the meters and reclosers would require the equipment to be pad-mounted and significantly increase total project costs.

Public Safety

22. Would the Petitioner conduct outreach/training to local emergency responders in the event of a fire or other emergency at the site?

Response:

The contractor, Horton Electric, can conduct outreach to the local emergency responders. The Fire Marshall will sign off on the site when the Building Permit is issued.

23. In the event of a fire or emergency, describe procedures that will allow emergency responders to shut down the facility.

Response:

In case of an emergency, the utility, Eversource, will shut off the system. Emergency responders can be trained on shutting down the facility via the contractor's outreach.

24. If there are private water wells on site or in the vicinity of the site, how would the Petitioner protect the wells and/or water quality from construction impacts related to post driving/drilling?

Response:

Private water wells serve residences on the site and surrounding properties. The project is located on a glacial drumlin feature containing thick glacial till soils. Encountering bedrock or excessive vibrations from driving the racking posts is not anticipated. It would not be a concern for causing sediment releases to nearby wells or effect the bedrock aquifer.

The nearest off-site residence to the facility is located $\pm 750'$ to the east along Wrights Crossing Road. The nearest on-site residence is located $\pm 670'$ to the west on the opposite bank of Bark Meadow Brook. Although the specific construction of this well is unknown, any potable drinking water wells in this area are likely installed within the bedrock aquifer and not in the glacial till overburden material. As a result, no disruption to well water flow or water quality is anticipated with the racking post installation work and therefore, no special precautions are warranted.

Petitioner does not anticipate vibrations associated with installing the racking system into the site soils will result in adverse impacts to potable private water wells and/or water quality.

25. Provide the calculated noise level from Project operations to the nearest property line.

Response:

67dBA @ 10' from the inverter. The closest inverter is 360 ft from the road.

26. Referencing Petition p. 8, what is the name and location of the Operations and Maintenance (O&M) company for the site? What procedures would be followed by the O&M company in regard to emergency response?

Response:

Contractor to provide O&M for the first year. Horton Electric located in Canton, CT. For safety-related concerns the O&M company would be prepared to provide access to emergency responders and/or the utility to cut power to the site.

27. Referring to Petition Exhibit N, where is the nearest federally obligated airport? Is an FAA glare analysis necessary for this project?

Response:

The nearest federally obligated airport is Danielson Airport, located approximately 4.9 miles southeast of the proposed facility. Based on the distance of the proposed facility from Danielson Airport and the FAA Determination Letters, no glare analysis is necessary for this project.

Environmental

28. What is the maximum ground slope within the solar array area?

Response:

The maximum ground slope within the solar array area is 17.4%.

29. Referring to Site Plan EC-4, what is the purpose of the silt fence “arms” that extend east from the solar field footprint?

Response:

The purpose of the silt fence arms is to provide perimeter control for the drainage flowing southeast in this area. These “arms” are placed on contour to provide the most effective runoff and sediment capture potential for the project areas upstream.

30. Referencing Petition Environmental Assessment p. 32, what is the status of the Project review by the State Historic Preservation Office?

Response:

The SHPO completed their review of the proposed solar project on March 29, 2022, and concurred with the Petitioner’s findings that additional archaeological investigations of the project area are not warranted, and no historic properties will be affected by the proposed activities. See Attachment C.

31. What is the status of the Department of Energy and Environmental Protection (DEEP) Natural Diversity Database (NDDDB) review of the Project? Has DEEP received the field survey reports? If so, when?

Response:

The DEEP NDDDB review of the Project is still pending at this time. APT submitted the required field survey reports on January 17, 2022. An inquiry as to the status of the review was submitted as recently as March 22, 2022. Upon receipt, any updates on the NDDDB review will be provided to the Council.

The rare species protection measures provided in Petitioner’s Exhibit G (Environmental Assessment) follow protection measures recommended and approved by DEEP on similar solar projects and authorized by the Council.¹ Therefore, the Petitioner anticipates DEEP will approve these construction-phase and maintenance-phase protection measures that adequately protect State-listed species.

32. Referring to Site Plan DN-1, the selected solar field seed mix contains 95 percent lawn grass. Can a seed mix be used that contains more pollinator species? If no, why not? If yes, provide seed mix detail.

Response:

Yes, a seed mix that includes a variety of grasses and forbs, including native species that support pollinator wildlife species, can be used within the solar field. One example of such a seed mix is Ernst Seeds ERNMX-147 (“fuzz and buzz”); this or an equivalent mix could

¹ Refer to Petition Nos. 1424 and 1442.

be used within the fenced Facility. See Attachment D. However, cool-season grass cover exists within the hayfield today and will generally remain intact to maintain soil stabilization during construction. Only disturbed soil areas would be seeded down post-construction, offering limited ability to establish sufficient pollinator habitat.

33. Referring to the Petition Environmental Assessment Bird Study pp. 7-8, what is the reduction in available habitat to grassland birds, inclusive of the project footprint and the narrow grassland east of the project footprint.

Response:

The reduction in available grassland bird habitat, including the project footprint (± 12.5 acres) and the narrow remaining grassland east of the Facility (± 3 acres) totals approximately 15.5 acres or $\pm 18.25\%$.

34. Has the petitioner met with the DEEP Stormwater Division? If yes, when? Describe any recommendations, comments, or concerns about the project provided by the Stormwater Division. At what point would the Petitioner apply for a Stormwater Permit?

Response:

No meeting has occurred with the DEEP Stormwater Division at this time. The Petitioner would apply for a Stormwater Permit upon receipt of the NDDDB Determination Letter as that is a prerequisite for a Stormwater Permit submittal.

35. Please submit photographic site documentation with notations linked to the site plans or a detailed aerial image that identify locations of site-specific and representative site features. The submission should include photographs of the site from the public road(s) or publicly accessible area(s) as well as Site-specific locations depicting site features including, but not necessarily limited to, the following locations as applicable:

For each photo, please indicate the photo viewpoint direction and stake or flag the locations of site-specific and representative site features. Site-specific and representative site features include, but are not limited to, as applicable:

- a. wetlands, watercourses and vernal pools;
- b. forest/forest edge areas;
- c. agricultural soil areas;
- d. sloping terrain;
- e. proposed stormwater control features;
- f. nearest residences;
- g. Site access and interior access road(s);
- h. utility pads/electrical interconnection(s);
- i. clearing limits/property lines;
- j. mitigation areas; and
- k. any other noteworthy features relative to the Project.

A photolog graphic must accompany the submission, using a site plan or a detailed aerial image, depicting each numbered photograph for reference. For each photo, indicate the photo location number and viewpoint direction, and clearly identify the locations of site-specific and representative site features show (e.g., physical staking/flagging or other means of marking the subject area).

The submission shall be delivered electronically in a legible portable document format (PDF) with a maximum file size of <20MB. If necessary, multiple files may be submitted and clearly marked in terms of sequence.

Response:

See Attachment E.

Facility Construction

36. Site Plan EC-1 includes the Town of Glastonbury. Revise the plan to include correct information.

Response:

See Attachment B for the Revised Site Plan.

37. Petition p. 7 has an error in the work hours. Provide corrected work hours that include Town of Pomfret's requirements, as noted in the petition narrative.

Response:

Per §12.3.5(e) of the Zoning Regulations for the Town of Pomfret, CT, "Operating hours for processing shall be limited to Monday through Friday, 8 AM to 5 PM. Operating hours for removal shall be limited to 7 AM to 5 PM, Monday through Saturday. No activities generating noise that is perceptible outside of the premises shall be allowed during any other hours."

38. Where would the construction staging area be located?

Response:

The construction staging area will be located entirely within the proposed limit of disturbance associated with the project.

39. Has a comprehensive geotechnical study been completed for the site to determine if site conditions support the overall Project design? If so, summarize the results. If not, has the Petitioner anticipated and designed the Project with assumed subsurface conditions? What are these assumed conditions?

Response:

No. The geotechnical field investigations are anticipated to be completed by the end of April 2022 with the report and findings to be completed in May 2022. Based on the presence of deep glacial till throughout the Project area, the Petitioner plans to use a standard post-driven rack system and does not anticipate the geotechnical results to change this strategy. The geotechnical investigation results will establish the foundation conditions that will determine the sizing (length and depth of posts) for the racking columns and beams.

Maintenance/Decommissioning

40. Revise the Operations and Maintenance Plan to include NDDB species conservation measures. What entity will be performing vegetation management at the site? How will appropriate NDDB conservation measures be communicated to vegetative maintenance personnel?

Response:

The Operations and Maintenance Plan has been amended to include the NDDB species conservation measures of vegetation management (mowing) techniques to protect grassland bird species (specifically, the Rare Grassland Birds Site Management Measures). See Attachment F. This will be done by Horton Electric, for the first year after construction. The project site plans (see Sheet No. EN-1) have been changed to include the NDDB species conservation measures provided in the Petitioner's previously submitted Exhibit G (Environmental Assessment). Signage will be placed at the facility entrance and other project notification signage to facilitate communication with on-site vegetation maintenance personnel. Signage will state the following: "Caution: Rare Species Habitat. Avoid mowing from May 15 through August 15."

41. What is the cleaning interval of the solar panels? What substances would be used to clean the panels?

Response:

Cleaning would be done on an as-needed basis with non-toxic substances. Due to average rainfall and environmental conditions, regular cleaning is not necessary.

42. At what snow depth on the panels would energy output be negatively affected? At what snow depth would snow be removed from the panels?

Response:

The tracker system is equipped with a snow sensor, and the snow is shed automatically as needed. The snow sensor can be programmed to have the trackers dump snow at the desired depth.

43. Would the Petitioner store any replacement modules on-site? If so, indicate the storage location.

Response:

No spare parts or replacement modules will be kept on site.

44. Is livestock grazing proposed for the site? If yes, provide a livestock management plan.

Response:

No.

45. Has the manufacturer of the proposed solar panels conducted Toxicity Characteristic Leaching Procedure (TCLP) testing to determine if the panels would be characterized as hazardous waste

at the time of disposal under current regulatory criteria? If so, submit information that indicates the proposed solar modules would not be characterized as hazardous waste. If not, would the Petitioner agree to install solar panels that are not classified as hazardous waste through TCLP testing?

Response:

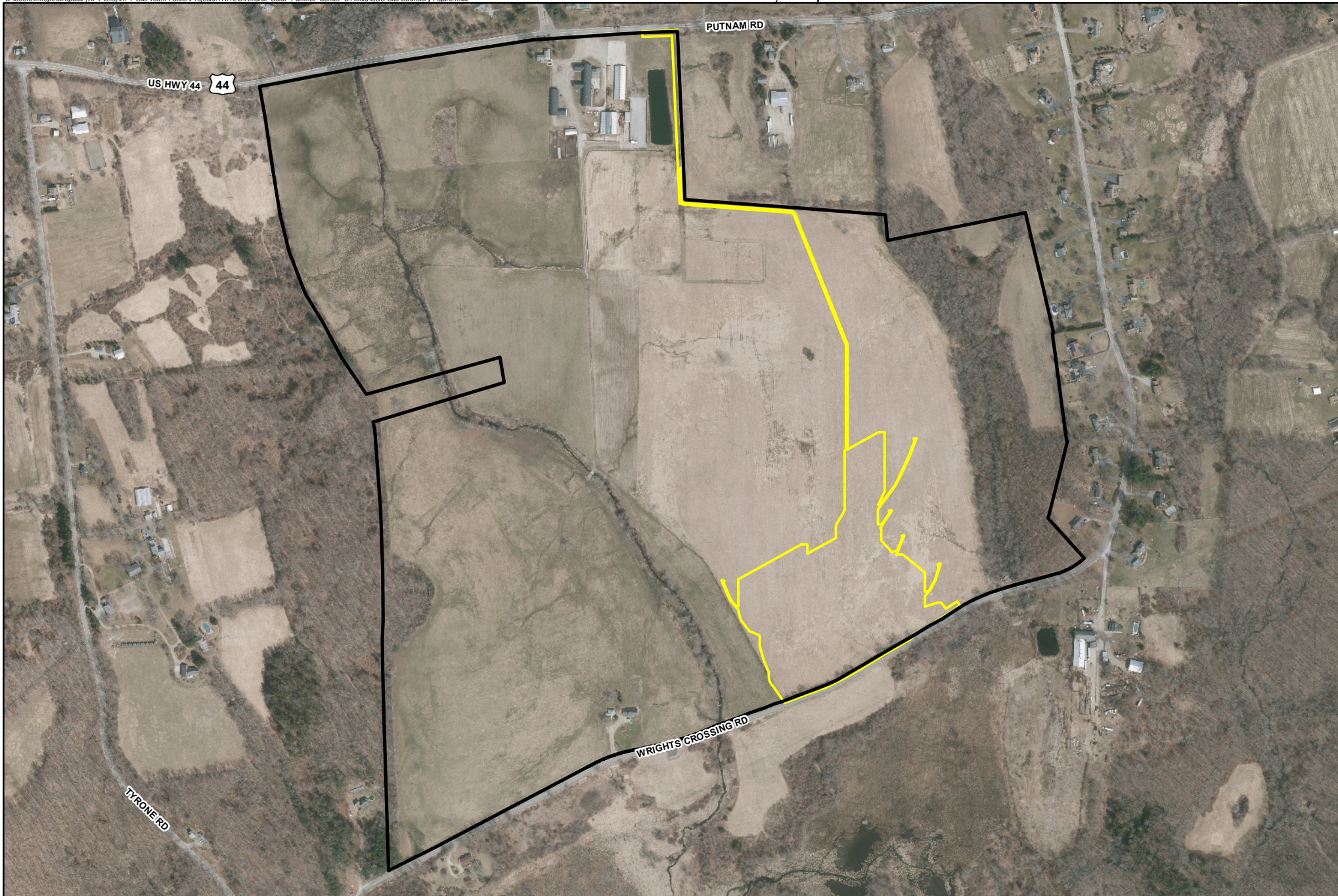
TCLP Certificates will be provided for both module manufacturers. The TCLP Certificate for the Talesun modules is attached. See Attachment G. HT SAAE is still completing its testing and will have the certificate by the first week of May 2022.

46. The Decommissioning Plan included with the Petition is for another site. Provide a site-specific Decommissioning Plan.

Response:

The Decommissioning Plan has been updated to be for Amaral. See Attachment H.



Attachment A: Boundary Map

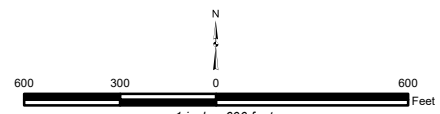


Connecticut Siting Council
Petition No. 1487
TRITEC Americas, LLC

Amaral Solar Facility
 254 Putnam Road
 Pomfret Center, Connecticut

Legend

-  Site Boundary
-  Project Area (Limit of Disturbance)



Map Notes:
 Base Map Source: CT ECO 2019 Imagery
 Map Date: March 2022



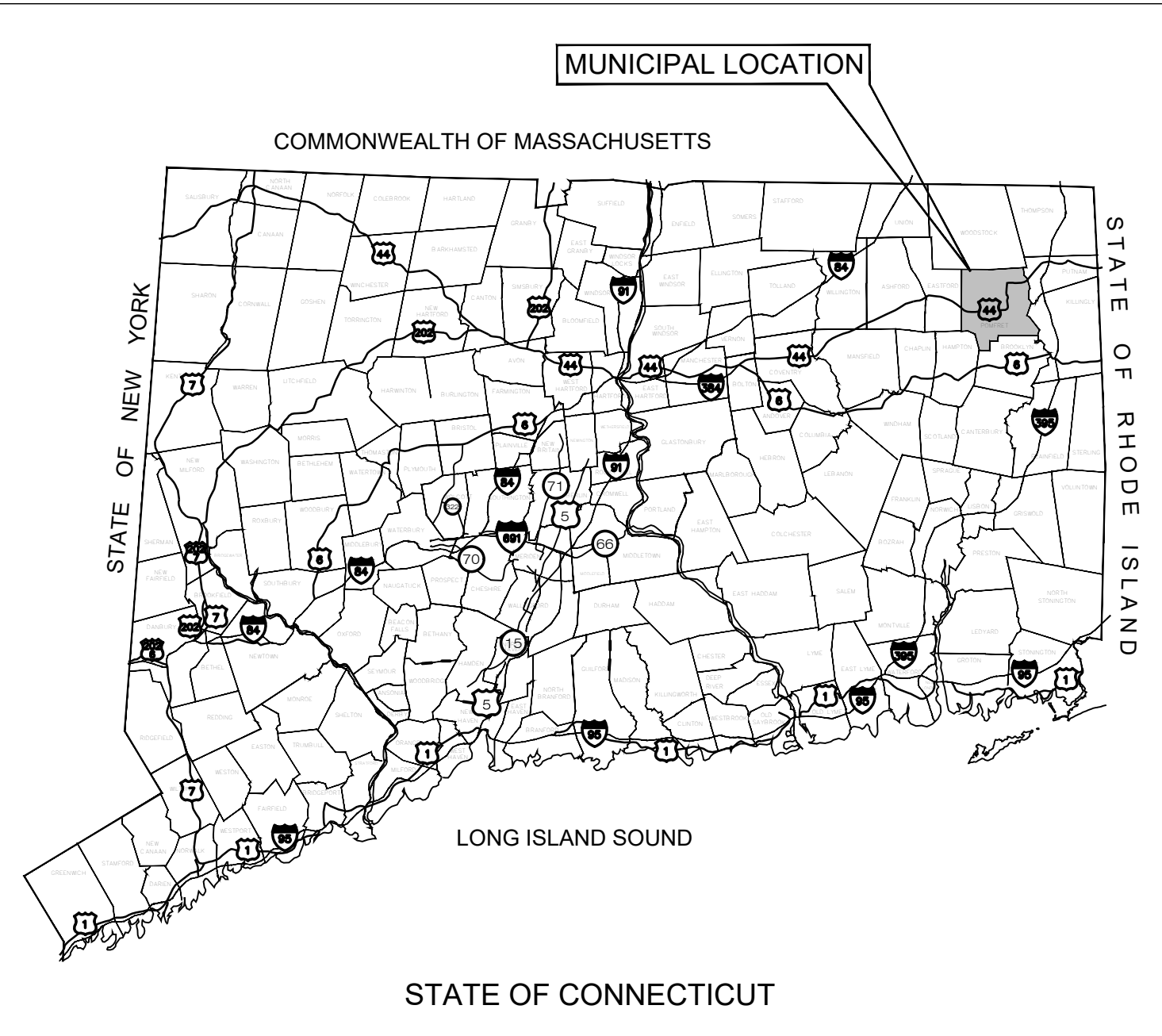
Attachment B: Revised Site Plan

AMARAL SOLAR

TRITEC AMERICAS, LLC

254 PUTNAM ROAD POMFRET CENTER, CT

PERMIT APPLICATION DRAWINGS DECEMBER 9, 2021



LIST OF DRAWINGS

- T-1 TITLE SHEET & INDEX
- 1 OF 1 SURVEY PROVIDED BY WSP USA
- GN-1 GENERAL NOTES
- EN-1 ENVIRONMENTAL NOTES
- OP-1 OVERALL SITE PLAN
- OP-2 OVERALL LOCUS PLAN
- EC-1 SEDIMENTATION AND EROSION CONTROL NOTES
- EC-2 SEDIMENTATION AND EROSION CONTROL DETAILS
- EC-3 SEDIMENTATION AND EROSION CONTROL PLAN, 1 OF 3
- EC-4 SEDIMENTATION AND EROSION CONTROL PLAN, 2 OF 3
- EC-5 SEDIMENTATION AND EROSION CONTROL PLAN, 3 OF 3
- GP-1 GRADING & DRAINAGE PLAN, 1 OF 3
- GP-2 GRADING & DRAINAGE PLAN, 2 OF 3
- GP-3 GRADING & DRAINAGE PLAN, 2 OF 3
- SP-1 SITE & UTILITY PLAN, 1 OF 3
- SP-2 SITE & UTILITY PLAN, 2 OF 3
- SP-3 SITE & UTILITY PLAN, 3 OF 3
- DN-1 SITE DETAILS
- EX-1 SLOPE ANALYSIS

SITE INFORMATION

SITE NAME: AMARAL SOLAR
 LOCATION: 254 PUTNAM ROAD
 POMFRET CENTER, CT

SITE TYPE/DESCRIPTION: ADD (1) GROUND MOUNTED
 SOLAR PANEL ARRAY
 W/ ASSOCIATED EQUIPMENT.

PROPERTY OWNER: ANTONIO & MARY AMARAL
 254 PUTNAM ROAD
 POMFRET CENTER, CT 06259

APPLICANT: TRITEC AMERICAS, LLC
 888 PROSPECT STREET
 LA JOLLA, CA 92037

ENGINEER CONTACT: KEVIN A. MCCAFFERY, PE
 (860) 663-1697 x228

LATITUDE: 41° 53' 20" N
 LONGITUDE: 71° 56' 11" W
 ELEVATION: 345-415± AMSL

MAP-LOT: 10-1
 ZONE: RR
 EXISTING LAND USE: AGRICULTURAL
 PROPOSED LAND USE: ENERGY PRODUCTION

TOTAL SITE ACREAGE: 215.60± AC.
 TOTAL DISTURBED AREA: 14.27± AC.

APPROX. VOLUME OF CUT: 930± CY
 APPROX. VOLUME OF FILL: 745 ± CY
 APPROX. NET VOLUME: 185 ± CY OF CUT
 (ASSUMES 615 CY ACCESS ROAD GRAVEL)

PROP. GRAVEL ACCESS ROAD: 1,185± LINEAR FEET
 PROP. SILT FENCE: 4,590± LINEAR FEET
 TREE CLEARING AREA: LIMITED TO SELECTIVE TREELINE REMOVAL
 FOR ACCESS AND INTERCONNECTION
 EFFECTIVE IMPERVIOUS AREA: 20,480± SQUARE FEET

USGS TOPOGRAPHIC MAP



SCALE : 1-IN = 2000-FT SOURCE: NRCS GEOSPATIAL GATEWAY



888 PROSPECT STREET
 LA JOLLA, CA 92037
 OFFICE: (619) 363-3080



567 VAUXHAUL STREET EXTENSION - SUITE 311
 WATERFORD, CT 06385 PHONE: (860)-663-1697
 WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

CSC PERMIT SET

NO	DATE	REVISION
0	12/09/21	SITING COUNCIL SUBMISSION
1	04/09/22	COUNCIL INTERROGATORIES
2		
3		
4		
5		
6		

NOT FOR CONSTRUCTION

DESIGN PROFESSIONAL OF RECORD

PROF: KEVIN A. MCCAFFERY, PE
 COMP: ALL-POINTS TECHNOLOGY
 CORPORATION
 ADD: 567 VAUXHAUL STREET
 EXTENSION - SUITE 311
 WATERFORD, CT 06385

OWNER: ANTONIO & MARY AMARAL
 ADDRESS: 254 PUTNAM ROAD
 POMFRET CENTER, CT 06259

AMARAL SOLAR

SITE: 254 PUTNAM ROAD
 ADDRESS: POMFRET CENTER, CT 06259

APT FILING NUMBER: CT657100

DATE: 12/09/21
 DRAWN BY: KAM
 CHECKED BY: BG

SHEET TITLE:

TITLE SHEET & INDEX

SHEET NUMBER:

T-1



GENERAL NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH PROJECT DEVELOPER STANDARDS, TOWN OF POMFRET STANDARDS, CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
- IF NO PROJECT CONSTRUCTION SPECIFICATION PACKAGE IS PROVIDED BY THE PROJECT DEVELOPER OR THEIR REPRESENTATIVE, THE CONTRACTOR SHALL COMPLY WITH THE MANUFACTURE, TOWN OF POMFRET, OR CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND BE IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- THE PROJECT DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING AND STORMWATER PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL TOWN OF POMFRET CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- REFER TO PLANS, DETAILS AND REPORTS PREPARED BY ALL-POINTS TECHNOLOGY CORPORATION FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE PROJECT DEVELOPER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING/CONSTRUCTION. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE PROJECT DEVELOPERS CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS PER PLANS AND SPECIFICATIONS TO THE PROJECT DEVELOPER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- SHOULD ANY UNKNOWN OR INCORRECTLY LOCATED EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE PROJECT DEVELOPER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE PROJECT DEVELOPER OR OTHERS DURING OCCUPIED HOURS, EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE PROJECT DEVELOPER AND THE LOCAL MUNICIPALITY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COMPLY WITH OSHA CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
- THE ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OF PERSONNEL OR TO SUPERVISE SAFETY AND DO NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, CONDUIT, PAVEMENT, CURBING, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE PROJECT DEVELOPER OR TOWN OF POMFRET.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE PROJECT DEVELOPER AT THE END OF CONSTRUCTION.
- ALTERNATIVE METHODS AND PRODUCTS, OTHER THAN THOSE SPECIFIED, MAY BE USED IF REVIEWED AND APPROVED BY THE PROJECT DEVELOPER, ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING/CONSTRUCTION PROCESS.
- INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "DIG SAFE" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "811" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
- NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.

SITE PLAN NOTES

- THE SURVEY WAS PROVIDED BY WSP USA DATED MAY 17, 2021.
- THERE ARE WETLANDS AND WATERWAYS LOCATED ON THE SITE AS INDICATED ON THE PLANS. BOUNDARIES WERE FLAGGED BY APT IN MARCH 2021 AND FIELD SURVEYED BY WSP.
- THE CONTRACTOR SHALL FOLLOW THE RECOMMENDED SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION CONTROL PLAN OR SUBMIT AN ALTERNATE PLAN FOR APPROVAL BY THE ENGINEER AND/OR PERMITTING AGENCIES PRIOR TO THE START CONSTRUCTION. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR WETLAND IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. IN ADDITION, THE CONTRACTOR SHALL ADHERE TO "EROSION CONTROL PLAN" CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY GOVERNMENT AGENCIES WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
- ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK, SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE THIS WORK SHALL CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION AND PROJECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN 8" LIFTS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT 95% PERCENT OF OPTIMUM MOISTURE CONTENT.
- ALL DISTURBANCE INCURRED TO PUBLIC, MUNICIPAL, COUNTY, STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OF POMFRET AND STATE OF CONNECTICUT.
- IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE PROJECT DEVELOPER AND/OR PROJECT DEVELOPERS ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE PROJECT DEVELOPER AND/OR PROJECT DEVELOPERS ENVIRONMENTAL CONSULTANT.

UTILITY NOTES

- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE TOWN OF POMFRET TO SECURE CONSTRUCTION PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
- REFER TO DRAWINGS BY PROJECT DEVELOPER FOR THE ONSITE ELECTRICAL DRAWINGS AND INTERCONNECTION TO EXISTING ELECTRICAL GRID. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT. THESE DETAILS ARE NOT INCLUDED IN THESE PLANS.
- UTILITY LOCATIONS AND PENETRATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE ELECTRICAL ENGINEER AND THE PROJECT DEVELOPERS CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROP. SANITARY SEWERS AND WHERE PROP. STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE PROJECT DEVELOPER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
- THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY THE TOWN OF POMFRET.
- ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- RELOCATION OF UTILITY PROVIDER FACILITIES, SUCH AS POLES, SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.
- THE CONTRACTOR SHALL COMPACT PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.
- CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.
- ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER REQUIREMENTS.
- A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM PIPING SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM PIPING AND SANITARY SEWER. A 6-INCH TO 18-INCH VERTICAL CLEARANCE BETWEEN SANITARY SEWER PIPING AND STORM PIPING SHALL REQUIRE CONCRETE ENCASEMENT OF THE PROP. SANITARY PIPING.
- THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, CONDUIT, PAVEMENT, CURBING, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION, TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE PROJECT DEVELOPER AND TOWN OF POMFRET.
- INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY, AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE INCLUDING SERVICES. CONTACT "DIG SAFE" AT 811 72 HOURS PRIOR TO CONSTRUCTION AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY AND STORM DRAINAGE LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROP. UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.
- THE CONTRACTOR SHALL ARRANGE AND COORDINATE WITH UTILITY PROVIDERS FOR WORK TO BE PERFORMED BY UTILITY PROVIDERS. THE CONTRACTOR SHALL PAY ALL UTILITY FEES UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATION MANUAL AND GENERAL CONDITIONS, AND REPAIR PAVEMENTS AS NECESSARY.
- ELECTRIC DRAWINGS AND REQUIREMENTS ARE NOT INCLUDED AS PART OF THIS DRAWING SET AND SHOULD BE OBTAINED FROM THE PROJECT DEVELOPER.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE PROJECT DEVELOPER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE PROJECT DEVELOPER, TOWN OF POMFRET, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.

GENERAL LEGEND

	EXISTING	PROPOSED
PROPERTY LINE	— — — — —	
BUILDING SETBACK		
SOLAR SETBACK	—	
EASEMENT	— — — — —	
TREE LINE	— ~ ~ ~ ~ ~ —	
WETLAND	— √ √ √ —	
WETLAND BUFFER	— - - - - - —	
VERNAL POOL	— — — — —	
VERNAL POOL BUFFER	—	
WATERCOURSE	— — — — —	
WATERCOURSE BUFFER	— - - - - - —	
MAJOR CONTOUR	— - - - - - —	— — — — —
MINOR CONTOUR	— - - - - - —	— — — — —
UNDERGROUND ELECTRIC	— — — — —	— E — E —
OVERHEAD ELECTRIC	— OH — OH —	— OH — OH —
GAS LINE	— — — — —	— — — — —
WATER LINE	— W — W —	— W — W —
WATER QUALITY SWALE		— —
FENCE		— X — X — X —
LIMIT OF DISTURBANCE		— LOD —
SILT FENCE		— SF — SF —



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CSC PERMIT SET

NO	DATE	REVISION
0	12/09/21	SITING COUNCIL SUBMISSION
1	04/09/22	COUNCIL INTERROGATORIES
2		
3		
4		
5		
6		

NOT FOR CONSTRUCTION

DESIGN PROFESSIONAL OF RECORD

PROF: KEVIN A. MCCAFFERY, PE
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 567 VAUXHAUL STREET
EXTENSION - SUITE 311
WATERFORD, CT 06385

OWNER: ANTONIO & MARY AMARAL

ADDRESS: 254 PUTNAM ROAD
POMFRET CENTER, CT 06259

AMARAL SOLAR

SITE 254 PUTNAM ROAD
ADDRESS: POMFRET CENTER, CT 06259

APT FILING NUMBER: CT657100

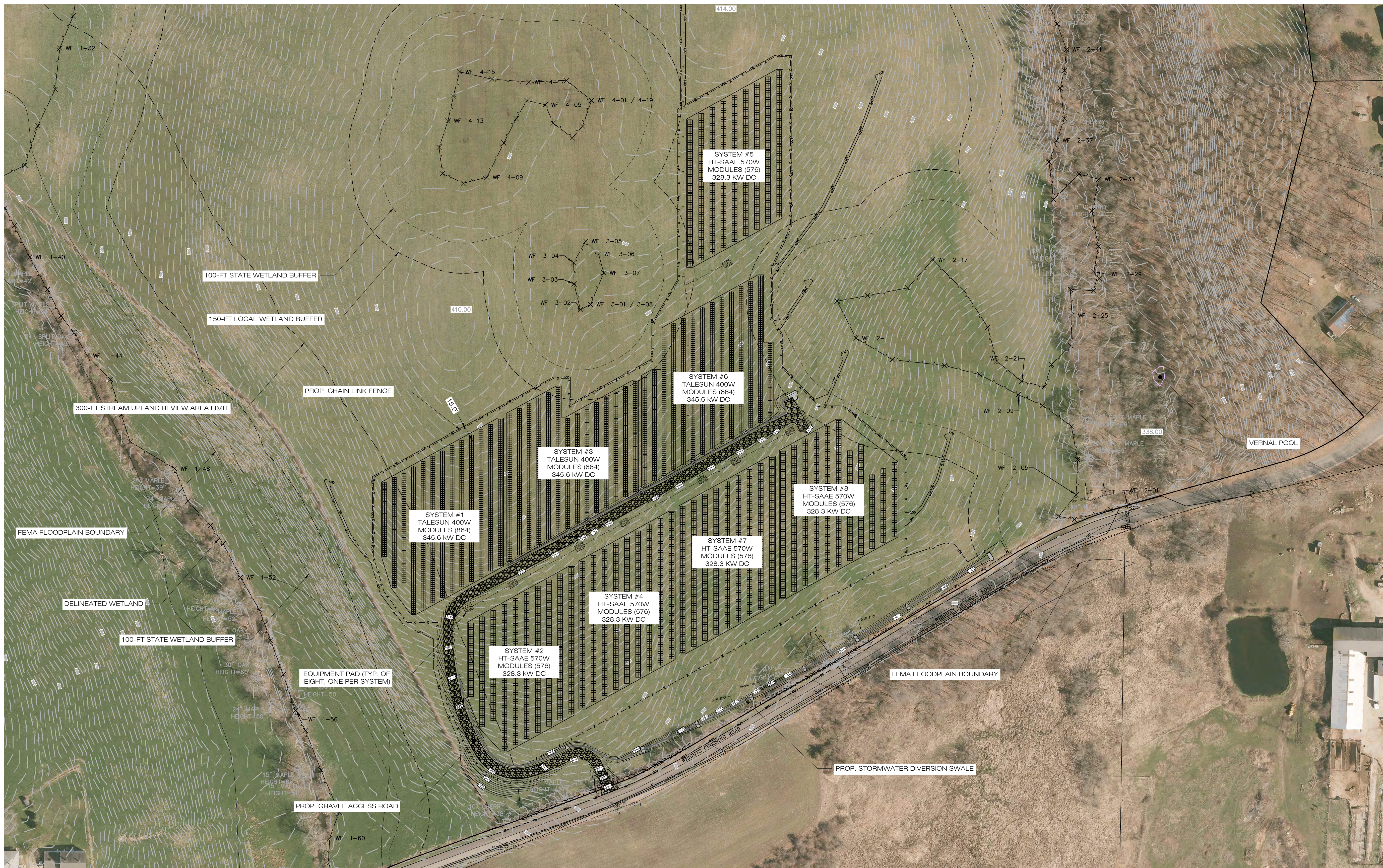
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SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

GN-1



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 PROF: KEVIN A. MCCAFFERY, PE
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 OWNER: ANTONIO & MARY AMARAL
 ADDRESS: 254 PUTNAM ROAD POMFRET CENTER, CT 06259

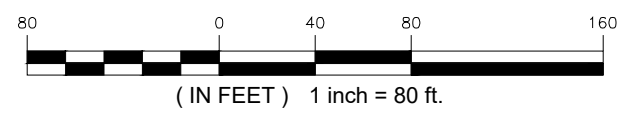
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 ADDRESS: POMFRET CENTER, CT 06259
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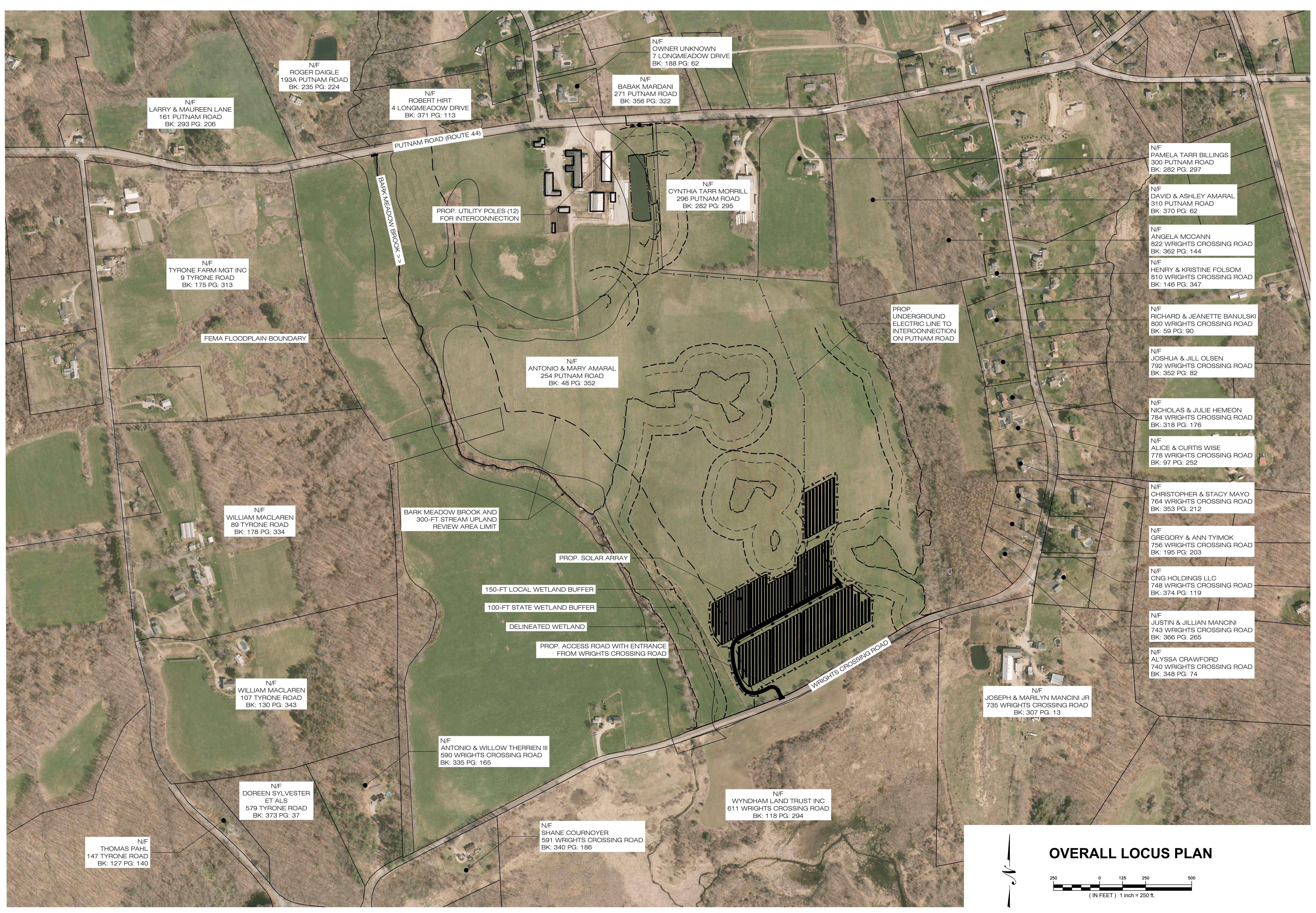
SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
OP-1



1 OVERALL SITE PLAN
 CP-1 SCALE: 1" = 80'-0"





N/F
LARRY & MAUREN LANE
161 PUTNAM ROAD
BK: 293 PG: 206

N/F
ROGER DAIGLE
193A PUTNAM ROAD
BK: 235 PG: 224

N/F
ROBERT HIRT
4 LONGMEADOW DRIVE
BK: 371 PG: 113

N/F
BABAK MARDANI
271 PUTNAM ROAD
BK: 356 PG: 322

N/F
OWNER UNKNOWN
7 LONGMEADOW DRIVE
BK: 188 PG: 62

N/F
CYNTHIA TARR MORRILL
296 PUTNAM ROAD
BK: 282 PG: 295

N/F
PAMELA TARR BILLINGS
300 PUTNAM ROAD
BK: 282 PG: 297

N/F
DAVID & ASHLEY AMARAL
310 PUTNAM ROAD
BK: 370 PG: 62

N/F
ANGELA MCCANN
822 WRIGHTS CROSSING ROAD
BK: 362 PG: 144

N/F
HENRY & KRISTINE FOLSOM
810 WRIGHTS CROSSING ROAD
BK: 146 PG: 347

N/F
RICHARD & JEANETTE BANULSKI
800 WRIGHTS CROSSING ROAD
BK: 59 PG: 90

N/F
JOSHUA & JILL OLSEN
792 WRIGHTS CROSSING ROAD
BK: 352 PG: 82

N/F
NICHOLAS & JULIE HEMEON
784 WRIGHTS CROSSING ROAD
BK: 318 PG: 176

N/F
ALICE & CURTIS WISE
778 WRIGHTS CROSSING ROAD
BK: 97 PG: 262

N/F
CHRISTOPHER & STACY MAYO
764 WRIGHTS CROSSING ROAD
BK: 353 PG: 212

N/F
GREGORY & ANN TYIMOK
756 WRIGHTS CROSSING ROAD
BK: 195 PG: 203

N/F
CNG HOLDINGS LLC
748 WRIGHTS CROSSING ROAD
BK: 374 PG: 119

N/F
JUSTIN & JILLIAN MANCINI
743 WRIGHTS CROSSING ROAD
BK: 366 PG: 265

N/F
ALYSSA CRAWFORD
740 WRIGHTS CROSSING ROAD
BK: 348 PG: 74

N/F
JOSEPH & MARILYN MANCINI JR
735 WRIGHTS CROSSING ROAD
BK: 307 PG: 13

N/F
WILLIAM MACLAREN
89 TYRONE ROAD
BK: 178 PG: 334

N/F
WILLIAM MACLAREN
107 TYRONE ROAD
BK: 130 PG: 343

N/F
DOREEN SYLVESTER
ET ALS
579 TYRONE ROAD
BK: 373 PG: 37

N/F
THOMAS PAHL
147 TYRONE ROAD
BK: 127 PG: 140

N/F
ANTONIO & WILLOW THERRIEN III
590 WRIGHTS CROSSING ROAD
BK: 335 PG: 165

N/F
SHANE COURNOYER
591 WRIGHTS CROSSING ROAD
BK: 340 PG: 186

N/F
WYNDHAM LAND TRUST INC
611 WRIGHTS CROSSING ROAD
BK: 118 PG: 294

FEMA FLOODPLAIN BOUNDARY

BARK MEADOW BROOK AND
300-FT STREAM UPLAND
REVIEW AREA LIMIT

PROP. UTILITY POLES (12)
FOR INTERCONNECTION

PROP. SOLAR ARRAY

150-FT LOCAL WETLAND BUFFER

100-FT STATE WETLAND BUFFER

DELINEATED WETLAND

PROP. ACCESS ROAD WITH ENTRANCE
FROM WRIGHTS CROSSING ROAD

PROP. UNDERGROUND
ELECTRIC LINE TO
INTERCONNECTION
ON PUTNAM ROAD

TRITEC
AMERICAS
888 PROSPECT STREET
LA JOLLA, CA 92037
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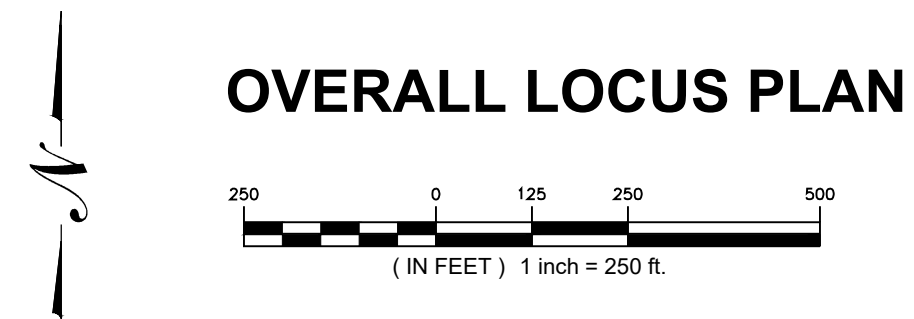
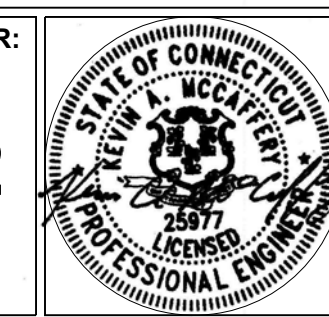
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SHEET TITLE:
OVERALL LOCUS PLAN

SHEET NUMBER:
OP-2



EROSION CONTROL NOTES

EROSION AND SEDIMENT CONTROL PLAN NOTES

- THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE TOWN OF POMFRET, PERMITTEE, AND/OR SWPCP MONITOR. ALL PERIMETER SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.
- THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. SEE CONSTRUCTION SEQUENCE FOR ADDITIONAL INFORMATION. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN AS REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO STORM DRAINAGE SYSTEMS AND/OR WATERCOURSES. ACTUAL SITE CONDITIONS OR SEASONAL AND CLIMATIC CONDITIONS MAY WARRANT ADDITIONAL CONTROLS OR CONFIGURATIONS, AS REQUIRED, AND AS DIRECTED BY THE PERMITTEE AND/OR SWPCP MONITOR. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- A BOND OR LETTER OF CREDIT MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND MAINTENANCE.
- THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPAL OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR INSTALLED SEDIMENTATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS AS NECESSARY IN A TIMELY MANNER.
- THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (SILT FENCE, COMPOST FILTER SOCK, EROSION CONTROL BLANKET, ETC.) ON-SITE FOR PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.
- ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING, ORANGE SAFETY FENCE, CONSTRUCTION TAPE, OR EQUIVALENT FENCING/TAPE. ANY LIMB TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- CONSTRUCTION ENTRANCES (ANTI-TRACKING PADS) SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION IF REQUIRED. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED. CONTRACTOR SHALL ENSURE THAT ALL VEHICLES EXITING THE SITE ARE PASSING OVER THE ANTI-TRACKING PADS PRIOR TO EXISTING.
- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER.
- NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS. ALL SLOPES SHALL BE SEEDED AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE CONFORMING TO THE GUIDELINES WITHIN THE APPROVED LIMIT OF DISTURBANCE IF REQUIRED. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE PERMITTEE OR MUNICIPALITY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES AND SECURED APPROPRIATELY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.
- VEGETATIVE ESTABLISHMENT SHALL OCCUR ON ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION, IT IS COVERED IN STONE OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.
- MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP CONCRETE PADS, CLEAN THE STORMWATER MANAGEMENT SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM PERMITTEE OR THE MUNICIPALITY.
- SEEDING MIXTURES SHALL BE NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX (SEE SITE DETAILS SHEET DN-1), OR APPROVED EQUAL BY OWNER.

CONSTRUCTION OPERATION AND MAINTENANCE PLAN - BY CONTRACTOR		
E&S MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIRED
CONSTRUCTION ENTRANCE	DAILY	PLACE ADDITIONAL STONE, EXTEND THE LENGTH OR REMOVE AND REPLACE THE STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT.
COMPOST FILTER SOCK	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSERVED.
SILT FENCE	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.
TOPSOIL/BORROW STOCKPILES	DAILY	REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY.
TEMPORARY SEDIMENT BASIN (W/ BAFFLES)	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.5"	REMOVE SEDIMENT ONCE IT HAS ACCUMULATED TO ONE HALF OF MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATERING AS NEEDED. RESTORE TRAP TO ORIGINAL DIMENSIONS. REPAIR/REPLACE BAFFLES WHEN FAILURE OR DETERIORATION IS OBSERVED.
TEMPORARY SEDIMENT TRAP (W/ BAFFLES)	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.5"	REMOVE SEDIMENT ONCE IT HAS ACCUMULATED TO ONE HALF OF MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATERING AS NEEDED. RESTORE TRAP TO ORIGINAL DIMENSIONS. REPAIR/REPLACE BAFFLES WHEN FAILURE OR DETERIORATION IS OBSERVED.
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.

SEDIMENT & EROSION CONTROL NARRATIVE

- THE PROJECT INVOLVES THE CONSTRUCTION OF A GROUND MOUNTED SOLAR PANEL FACILITY WITH ASSOCIATED EQUIPMENT.

THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:

- GRADING FOR ACCESS ROAD AND DRAINAGE INSTALLATION PLUS TREELINE CLEARING ALONG WRIGHTS CROSSING ROAD.
 - CONSTRUCTION OF GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT.
 - THE STABILIZATION OF DISTURBED AREAS WITH PERMANENT VEGETATIVE TREATMENTS.
- FOR THIS PROJECT, THERE ARE APPROXIMATELY 14.27± ACRE OF THE SITE BEING DISTURBED WITH NEGLIGIBLE INCREASE IN THE IMPERVIOUS AREA OF THE SITE, AS ALL ACCESS THOUGH THE SITE WILL BE GRAVEL. IMPERVIOUS AREAS ARE LIMITED TO THE CONCRETE PADS FOR ELECTRICAL EQUIPMENT.
 - THE PROJECT SITE, AS MAPPED IN THE SOIL SURVEY OF STATE OF CONNECTICUT (NRCS, VERSION 19, SEP 13, 2019), CONTAINS MAP UNITS 45 (HYDROLOGIC SOIL GROUP D) AND 84 (HYDROLOGIC SOIL GROUP C) SOILS. A GEOTECHNICAL ENGINEERING REPORT HAS NOT BEEN COMPLETED.
 - IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 3-4 MONTHS.
 - REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.
 - STORMWATER MANAGEMENT DESIGN CRITERIA UTILIZES THE APPLICABLE SECTIONS OF THE 2004 CONNECTICUT STORMWATER QUALITY MANUAL AND THE TOWN OF POMFRET STANDARDS, TO THE EXTENT POSSIBLE AND PRACTICABLE FOR THIS PROJECT ON THIS SITE. EROSION AND SEDIMENTATION MEASURES ARE BASED UPON ENGINEERING PRACTICE, JUDGEMENT AND THE APPLICABLE SECTIONS OF THE CONNECTICUT EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, LATEST EDITION.
 - DETAILS FOR THE TYPICAL STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON THE PLAN SHEETS OR PROVIDED AS SEPARATE SUPPORT DOCUMENTATION FOR REVIEW IN THIS PLAN.
 - CONSERVATION PRACTICES TO BE USED DURING CONSTRUCTION:
 - STAGED CONSTRUCTION;
 - MINIMIZE THE DISTURBED AREAS TO THE EXTENT PRACTICABLE DURING CONSTRUCTION;
 - STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT MEASURES AS SOON AS POSSIBLE, BUT NO LATER THAN 7-DAYS FOLLOWING DISTURBANCE;
 - MINIMIZE IMPERVIOUS AREAS;
 - UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.
 - THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN:
 - STORMWATER MANAGEMENT REPORT DATED NOVEMBER 2021.
 - SWPCP (TO BE ISSUED PRIOR TO CONSTRUCTION).

SUGGESTED CONSTRUCTION SEQUENCE:

THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE ACTIVITIES AND WEATHER CONDITIONS. SHOULD THE CONTRACTOR ALTER THE CONSTRUCTION SEQUENCE OR ANY EROSION AND SEDIMENTATION CONTROL MEASURES THEY SHALL MODIFY THE STORMWATER POLLUTION CONTROL PLAN ("SWPCP") AS REQUIRED BY THE GENERAL PERMIT. MAJOR CHANGES IN SEQUENCING AND/OR METHODS MAY REQUIRE REGULATORY APPROVAL PRIOR TO IMPLEMENTATION.

- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE LIMITS OF DISTURBANCE IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER'S REPRESENTATIVE(S), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.
- NOTIFY CALL BEFORE YOU DIG AT 1-800-922-4455, AS REQUIRED, PRIOR TO THE START OF CONSTRUCTION.
- REMOVE EXISTING IMPEDIMENTS AS NECESSARY AND PROVIDE MINIMAL CLEARING AND GRUBBING TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCE.
- INSTALL THE PERIMETER EROSION AND SEDIMENTATION CONTROL MEASURES. ALL WETLAND AREAS SHALL BE PROTECTED BEFORE MAJOR CONSTRUCTION BEGINS.
- CLEAR TREELINE ALONG WRIGHTS CROSSING ROAD.
- COMPLETE GRADING OF ACCESS ROAD BASE AND ACCOMPANYING DITCHING.
- PLACE ACCESS ROAD GRAVEL AND ROCK CHECK DAM AGGREGATE.
- TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.
- INSTALL RACKING POSTS FOR GROUND MOUNTED SOLAR PANELS.
- INSTALL GROUND MOUNTED SOLAR PANELS AND COMPLETE ELECTRICAL INSTALLATION.
- AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION OF THE SOLAR PANELS, COMPLETE REMAINING SITE WORK, INCLUDING THE FENCING, EQUIPMENT PADS, AND INTERCONNECTION RUN. STABILIZE ALL DISTURBED AREAS.
- FINE GRADE, RAKE, SEED, AND MULCH ALL REMAINING DISTURBED AREAS.
- AFTER THE SITE IS STABILIZED AND WITH THE APPROVAL OF THE PERMITTEE AND TOWN OF POMFRET AGENT, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS.



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OFFICE: (619) 363-3080**



567 VAUXHAUL STREET EXTENSION - SUITE 311
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WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

CSC PERMIT SET

NO	DATE	REVISION
0	12/09/21	SITING COUNCIL SUBMISSION
1	04/09/22	COUNCIL INTERROGATORIES
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NOT FOR CONSTRUCTION

DESIGN PROFESSIONAL OF RECORD

**PROF: KEVIN A. MCCAFFERY, PE
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 567 VAUXHAUL STREET
EXTENSION - SUITE 311
WATERFORD, CT 06385**

OWNER: ANTONIO & MARY AMARAL

**ADDRESS: 254 PUTNAM ROAD
POMFRET CENTER, CT 06259**

AMARAL SOLAR

**SITE 254 PUTNAM ROAD
ADDRESS: POMFRET CENTER, CT 06259**

APT FILING NUMBER: CT657100

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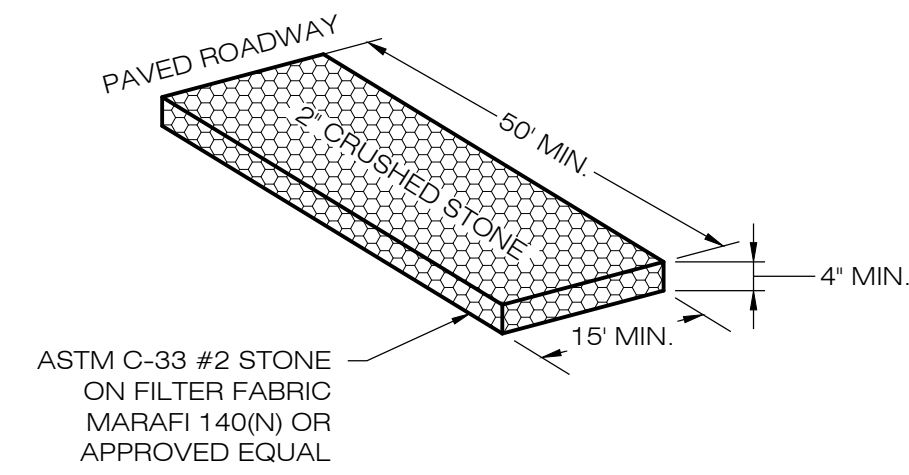
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**SEDIMENTATION &
EROSION CONTROL
NOTES**

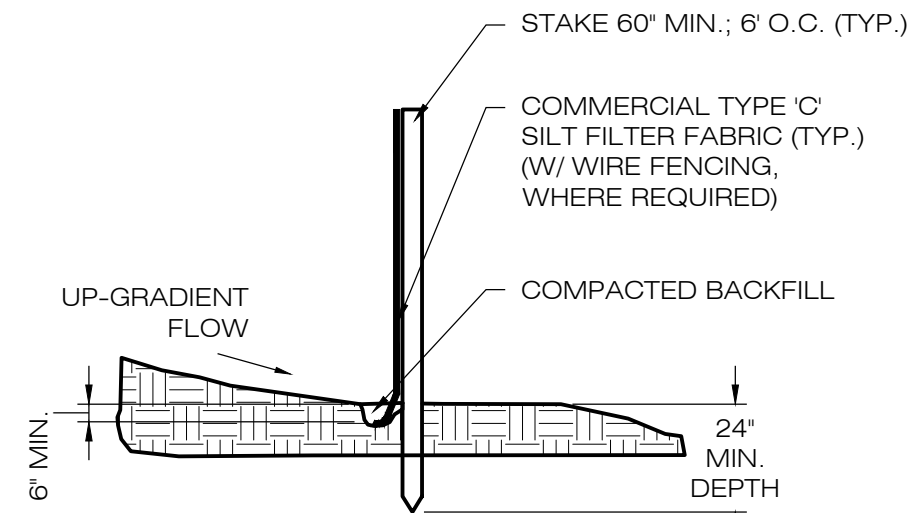
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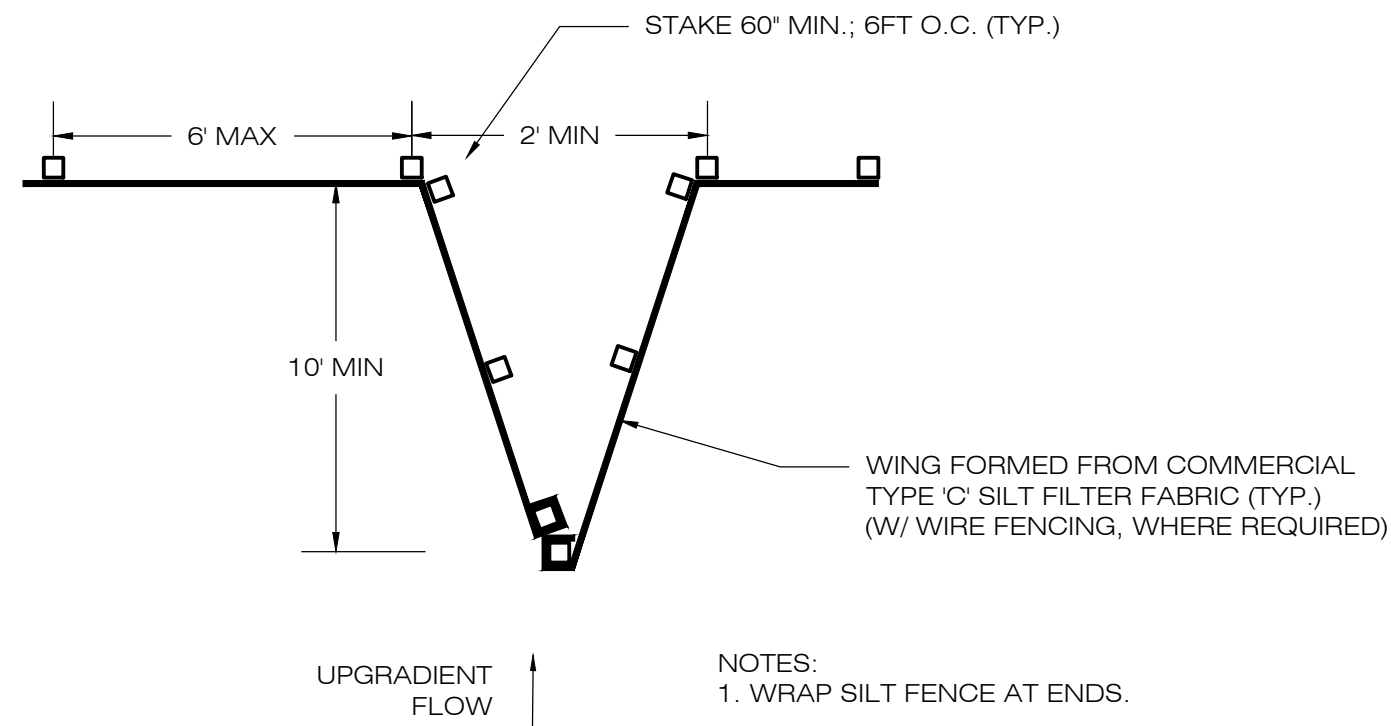




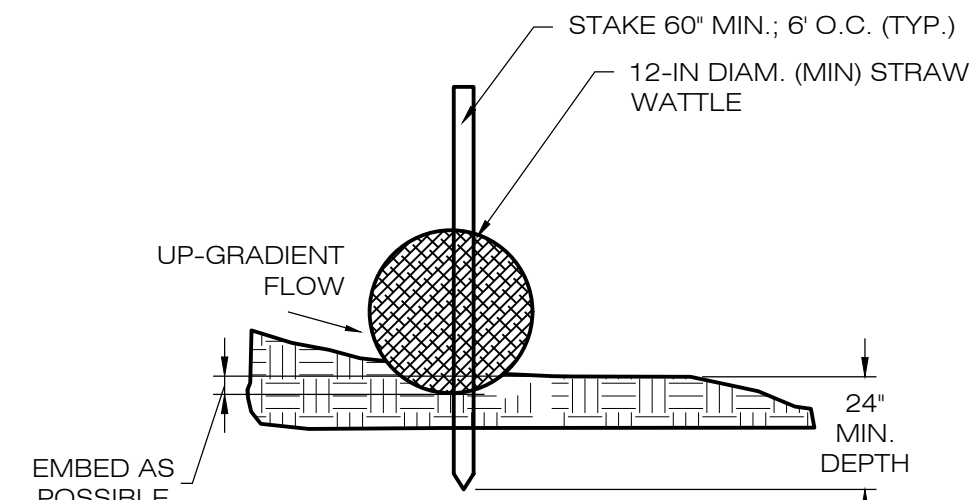
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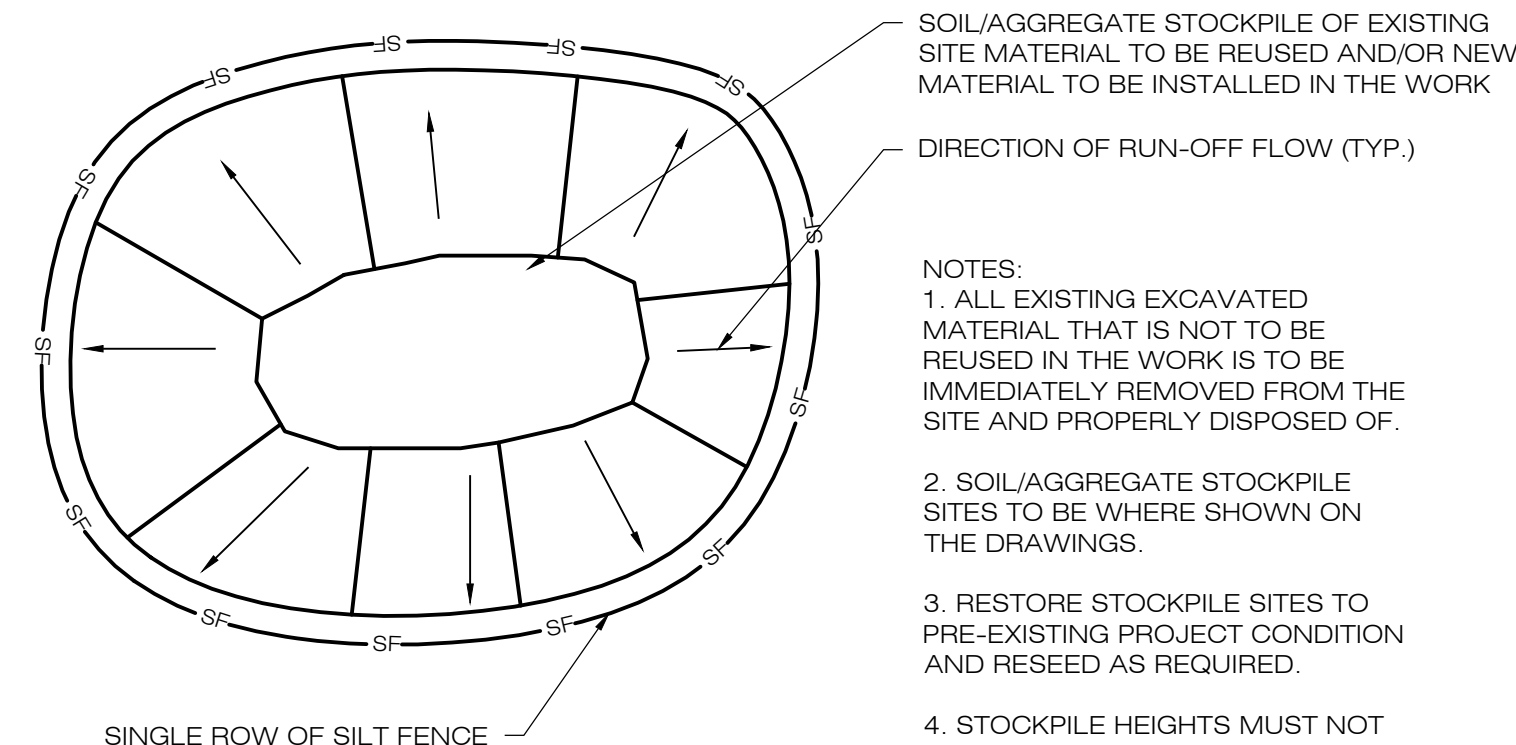
2 SILT FENCE DETAIL
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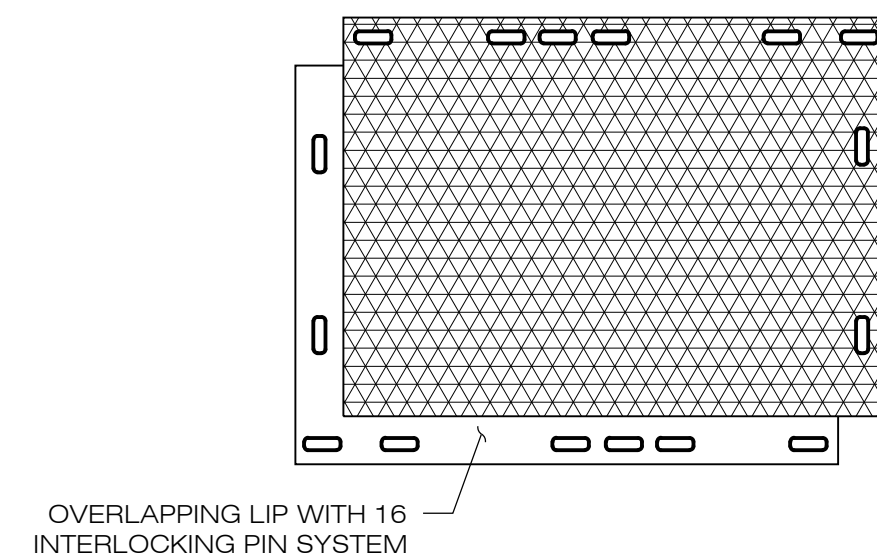
3 SILT FENCE WING DETAIL
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4 STRAW WATTLE DETAIL
SCALE : N.T.S.



5 MATERIALS STOCKPILE DETAIL
SCALE : N.T.S.



6 TEMPORARY CONSTRUCTION MATTING
SCALE : N.T.S.

- NOTES:
1. DURA-BASE COMPOSITE MAT SYSTEM (OR EQUAL). SEE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FROM MANUFACTURER.
 2. OVERALL DIMENSIONS: 8'X14'X4"
 3. SURFACE DIMENSIONS: 7'X13'

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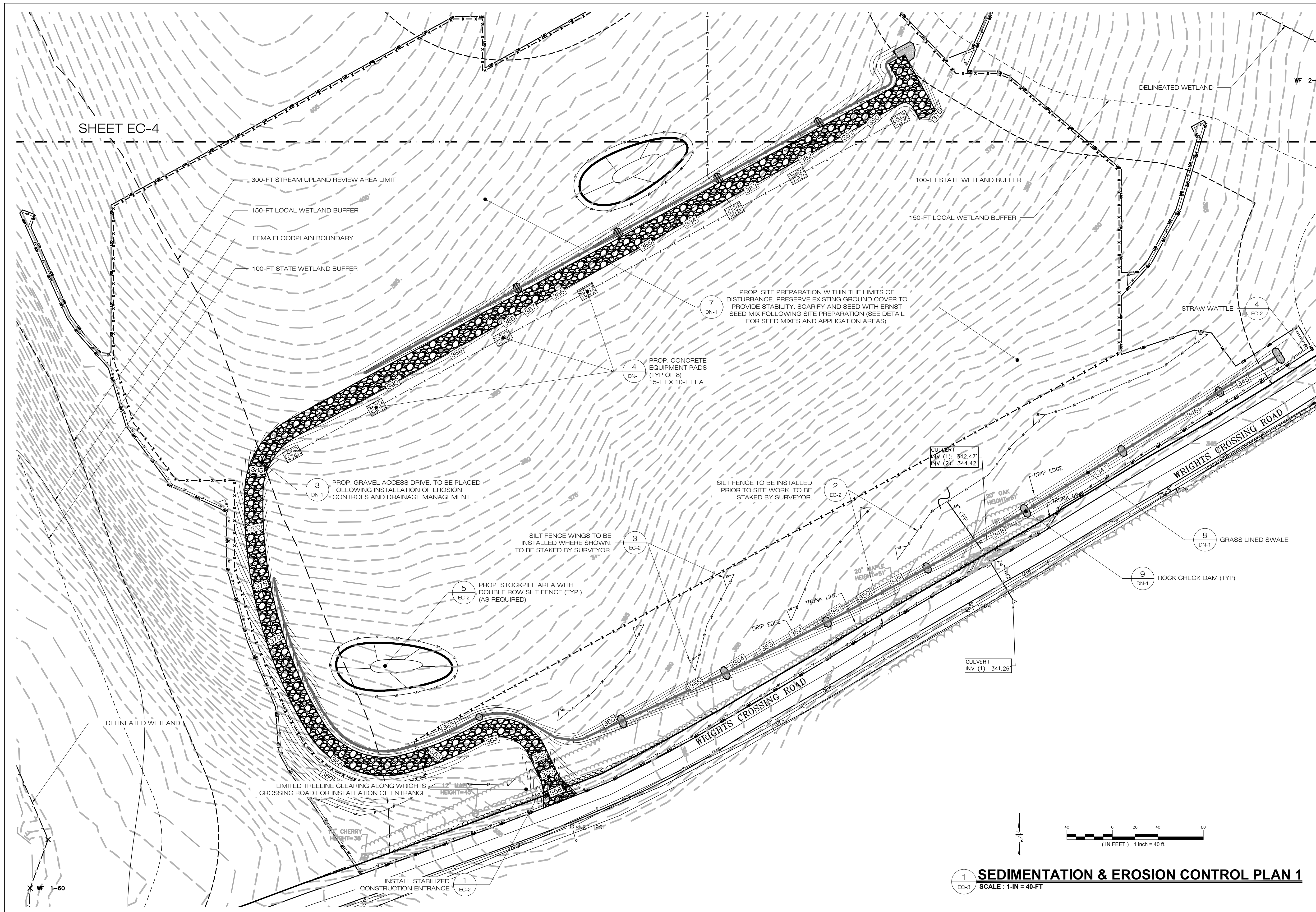
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AMARAL SOLAR
SITE: 254 PUTNAM ROAD
ADDRESS: POMFRET CENTER, CT 06259
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SHEET TITLE:
SEDIMENTATION & EROSION CONTROL DETAILS

SHEET NUMBER:
EC-2





SHEET EC-4

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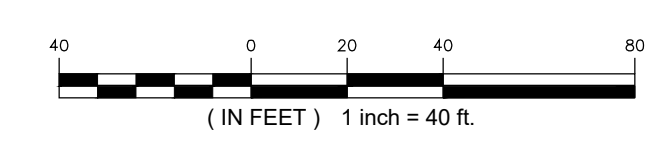
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SHEET TITLE:
SEDIMENTATION & EROSION CONTROL PLAN (1 OF 3)

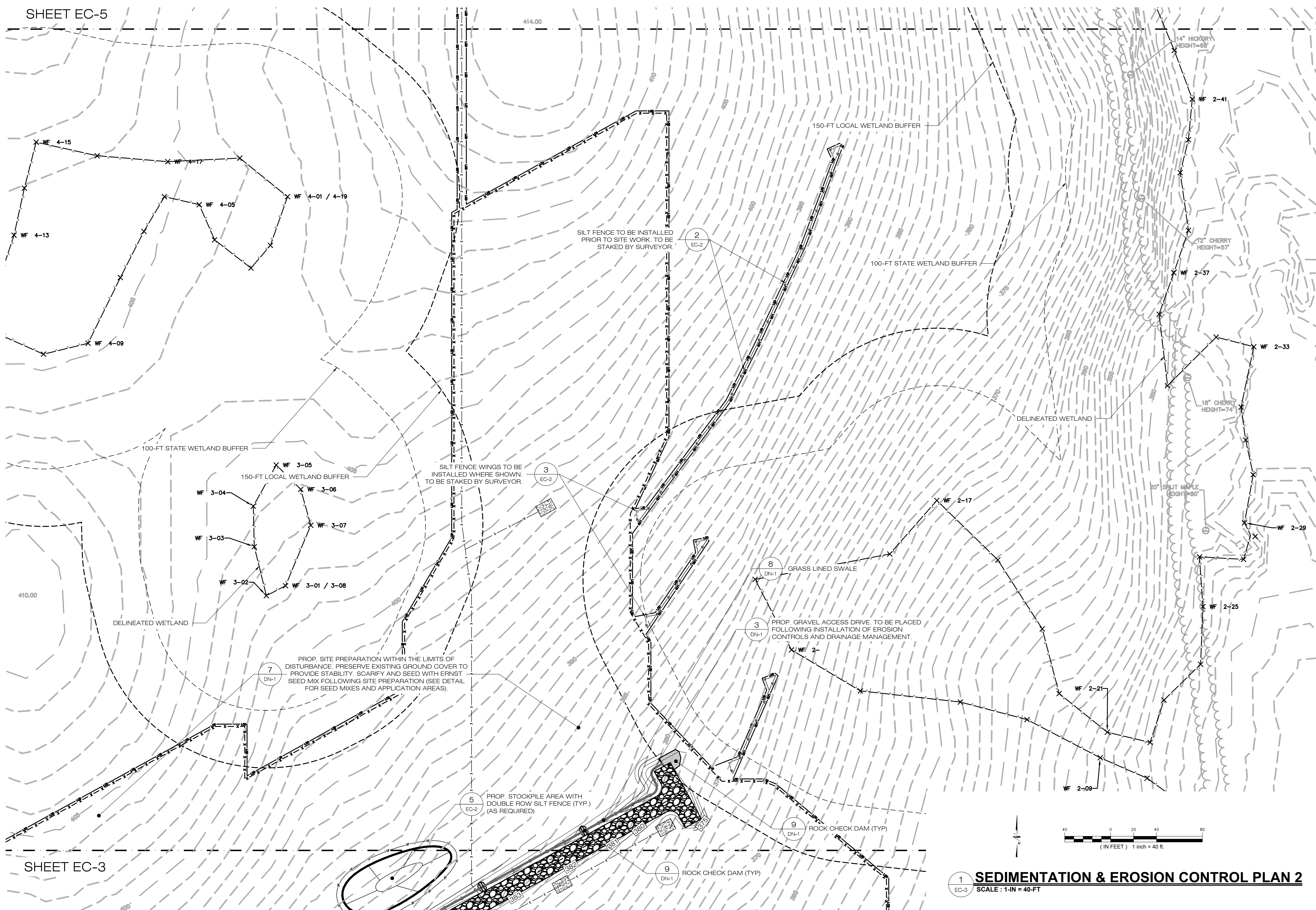
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1 **SEDIMENTATION & EROSION CONTROL PLAN 1**
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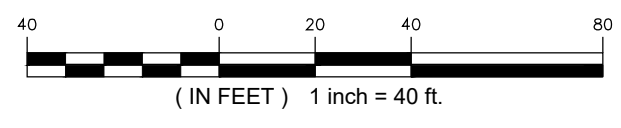
WF 1-60

SHEET EC-5



SHEET EC-3

1
EC-3
SEDIMENTATION & EROSION CONTROL PLAN 2
SCALE: 1-IN = 40-FT



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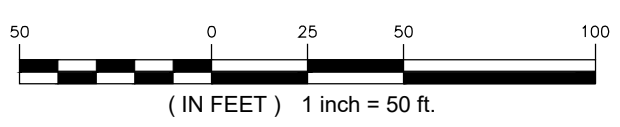
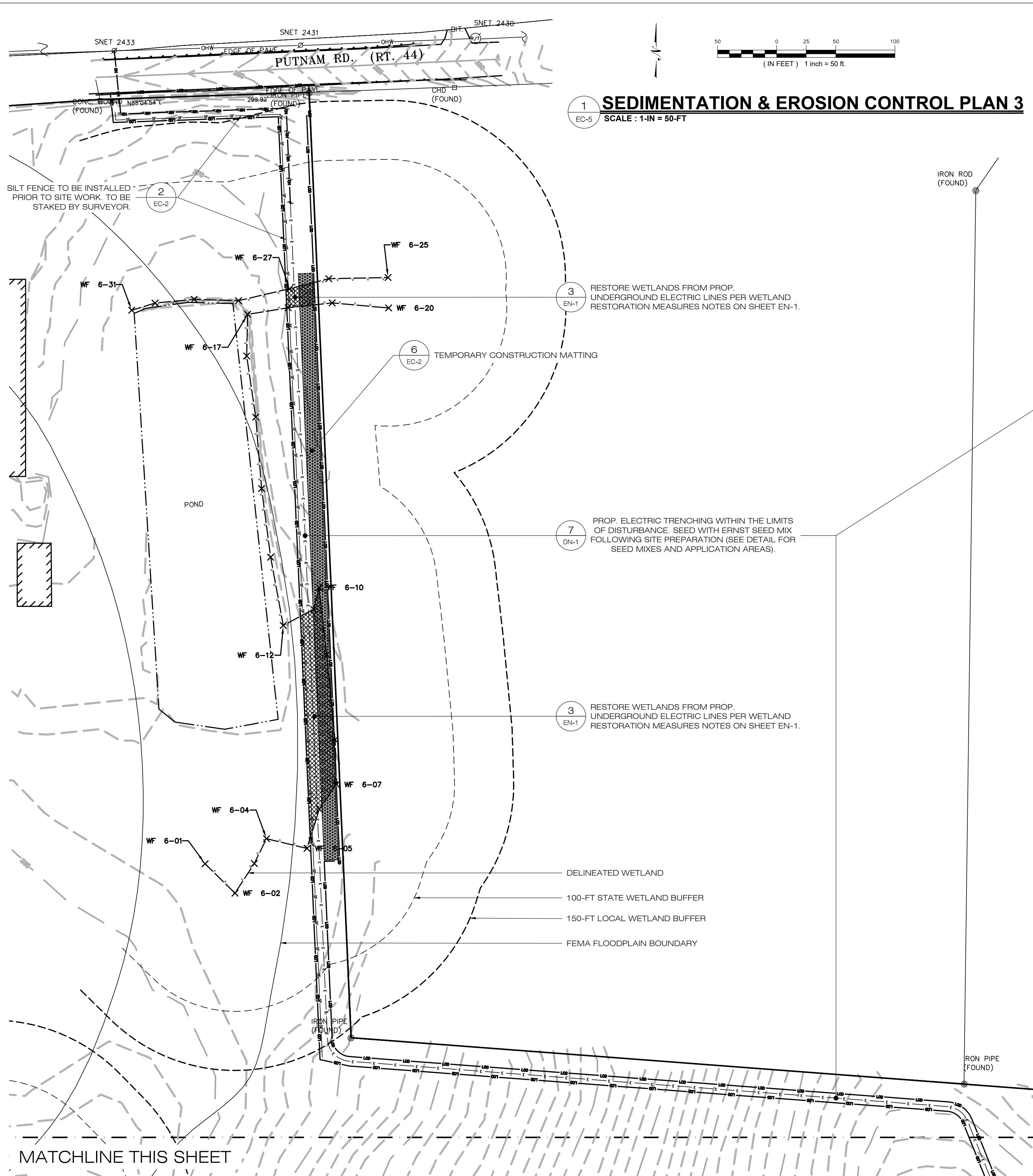
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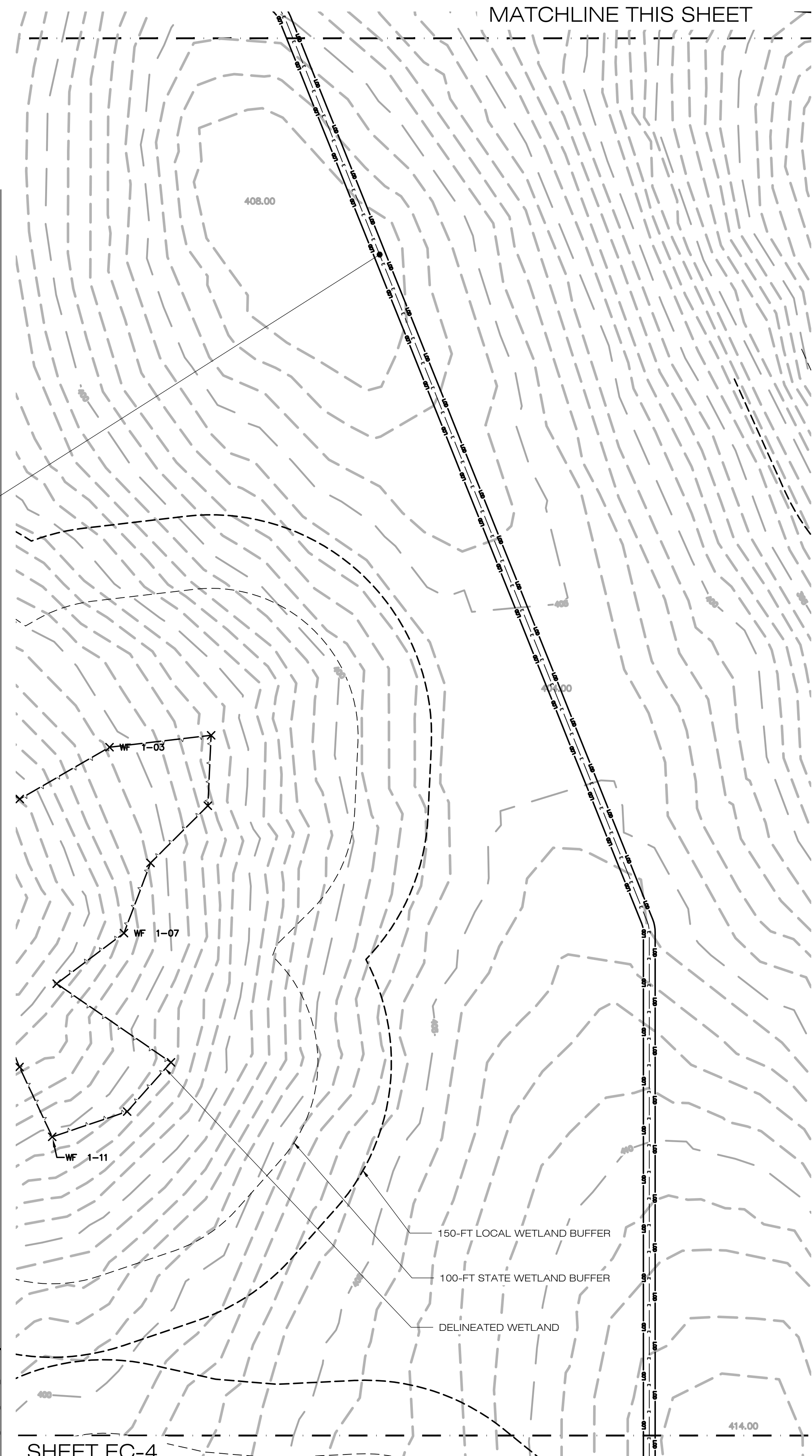
AMARAL SOLAR
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SHEET TITLE:
SEDIMENTATION & EROSION CONTROL PLAN (2 OF 3)

SHEET NUMBER:
EC-4



MATCHLINE THIS SHEET



SHEET EC-4

MATCHLINE THIS SHEET



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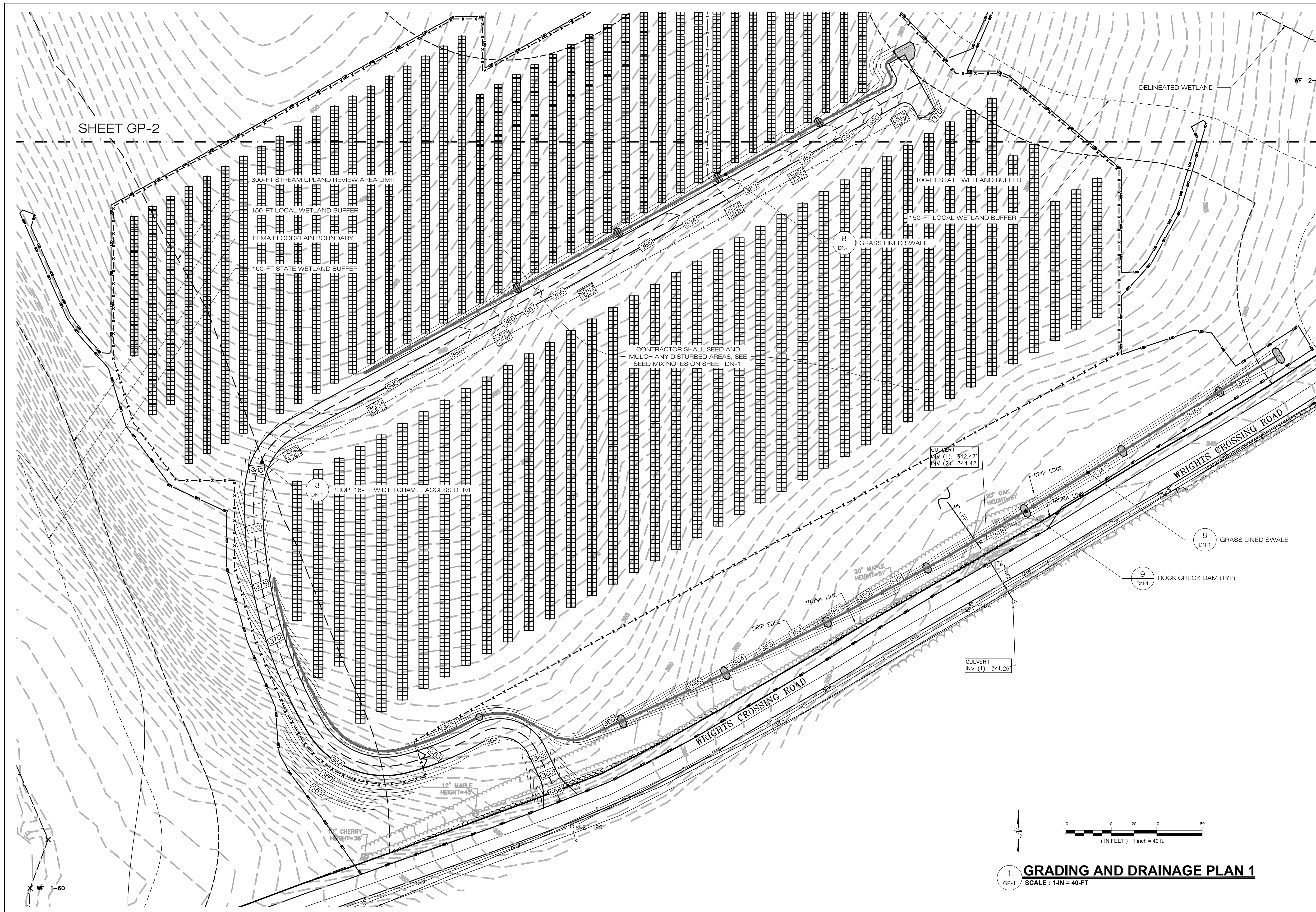
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SHEET TITLE:
SEDIMENTATION & EROSION CONTROL PLAN (3 OF 3)

SHEET NUMBER:
EC-5



SHEET GP-2

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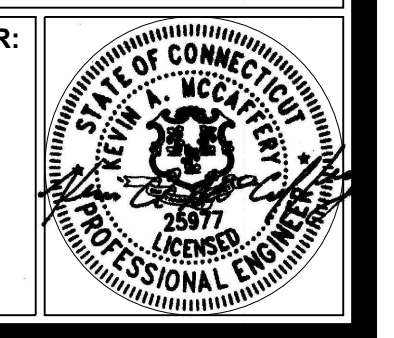
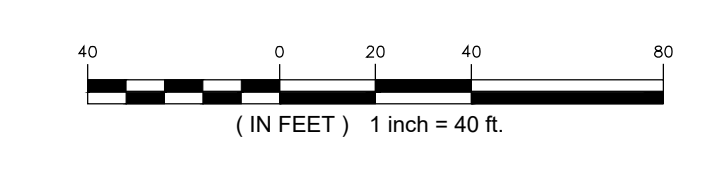
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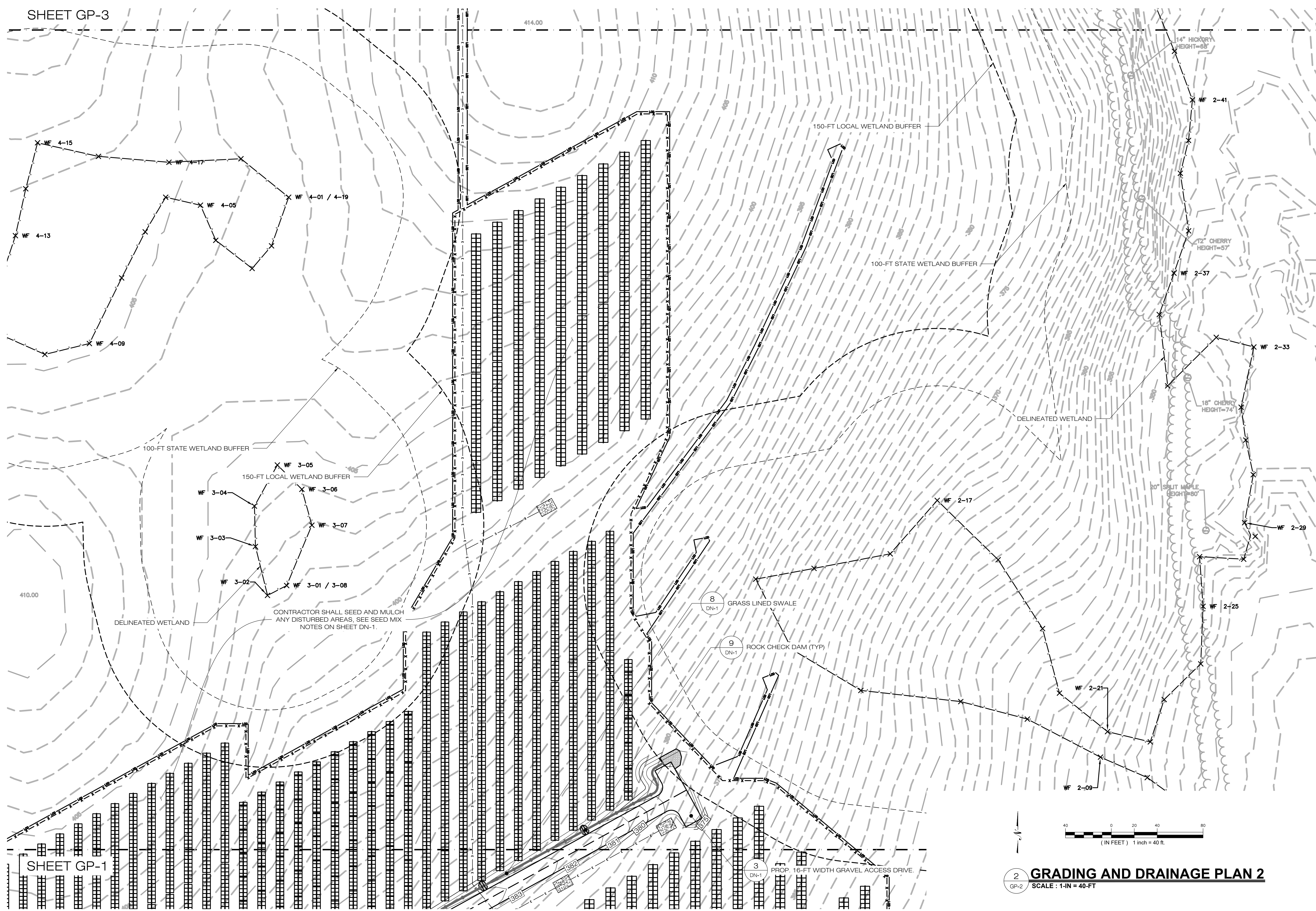
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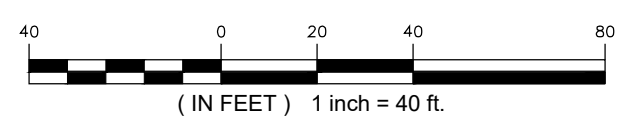
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GRADING AND DRAINAGE PLAN
 (1 OF 3)

SHEET NUMBER:
GP-1

1 GRADING AND DRAINAGE PLAN 1
 SCALE: 1-IN = 40-FT







2 GRADING AND DRAINAGE PLAN 2
 GP-2 SCALE: 1-IN = 40-FT


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AMARAL SOLAR

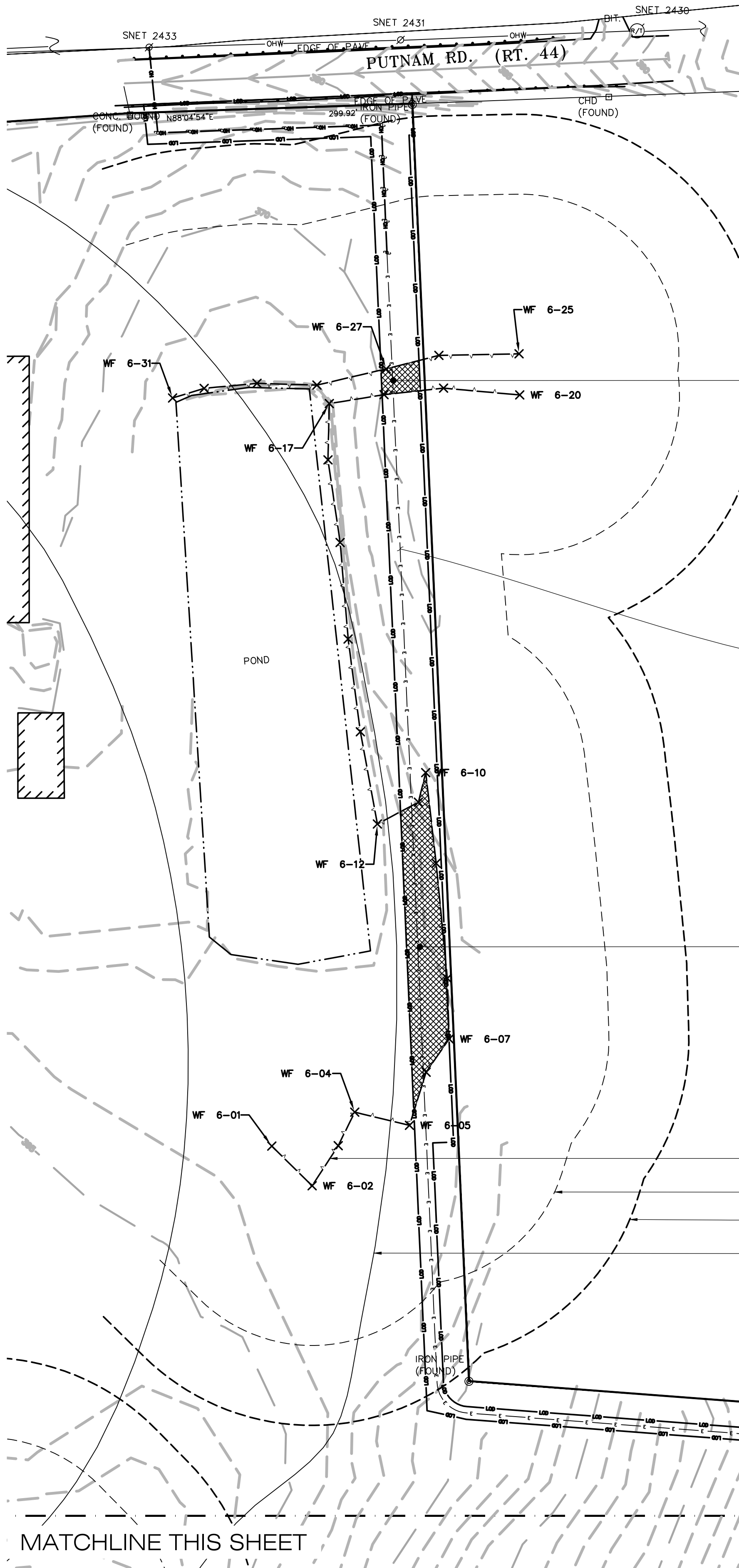
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SHEET TITLE:
GRADING AND DRAINAGE PLAN
(2 OF 3)

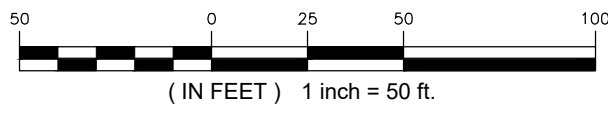
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GP-2





1 GRADING AND DRAINAGE PLAN 3
GP-3 SCALE: 1-IN = 50-FT



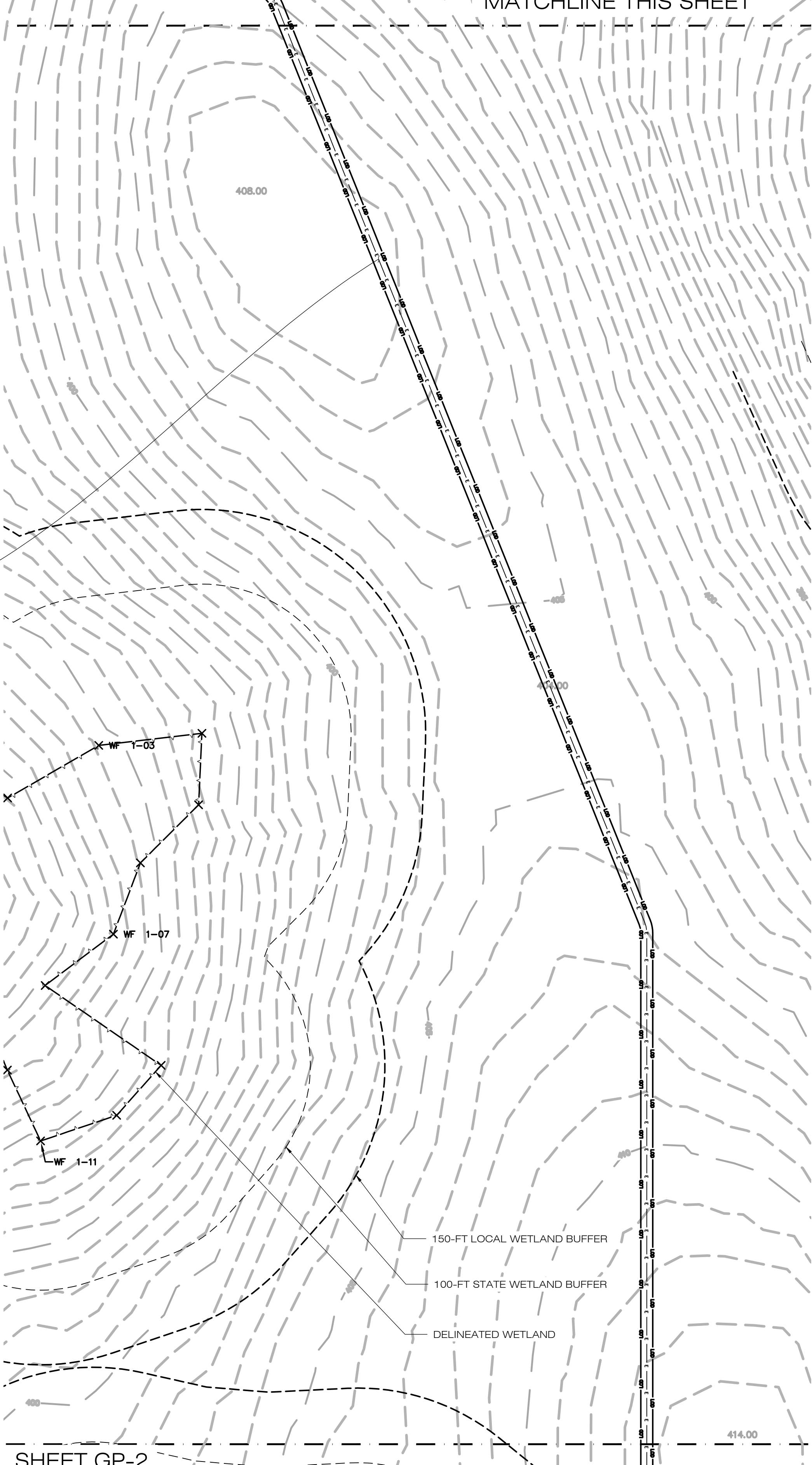
3 EN-1 RESTORE WETLANDS FROM PROP. UNDERGROUND ELECTRIC LINES PER WETLAND RESTORATION MEASURES NOTES ON SHEET EN-1.

CONTRACTOR SHALL SEED AND MULCH ANY DISTURBED AREAS. SEE SEED MIX NOTES ON SHEET DN-1.


3 EN-1 RESTORE WETLANDS FROM PROP. UNDERGROUND ELECTRIC LINES PER WETLAND RESTORATION MEASURES NOTES ON SHEET EN-1.

- DELINEATED WETLAND
- 100-FT STATE WETLAND BUFFER
- 150-FT LOCAL WETLAND BUFFER
- FEMA FLOODPLAIN BOUNDARY


MATCHLINE THIS SHEET



SHEET GP-2



**888 PROSPECT STREET
LA JOLLA, CA 92037
OFFICE: (619) 363-3080**



567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

CSC PERMIT SET		
NO	DATE	REVISION
0	12/09/21	SITING COUNCIL SUBMISSION
1	04/09/22	COUNCIL INTERROGATORIES
2		
3		
4		
5		
6		

NOT FOR CONSTRUCTION

DESIGN PROFESSIONAL OF RECORD
 PROF: KEVIN A. MCCAFFERY, PE
 COMP: ALL-POINTS TECHNOLOGY CORPORATION
 ADD: 567 VAUXHAUL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385

OWNER: ANTONIO & MARY AMARAL
 ADDRESS: 254 PUTNAM ROAD POMFRET CENTER, CT 06259

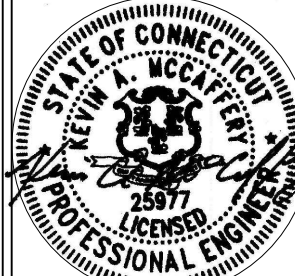
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SITE 254 PUTNAM ROAD
ADDRESS: POMFRET CENTER, CT 06259
APT FILING NUMBER: CT657100

DATE: 12/09/21	DRAWN BY: KAM
CHECKED BY: BG	

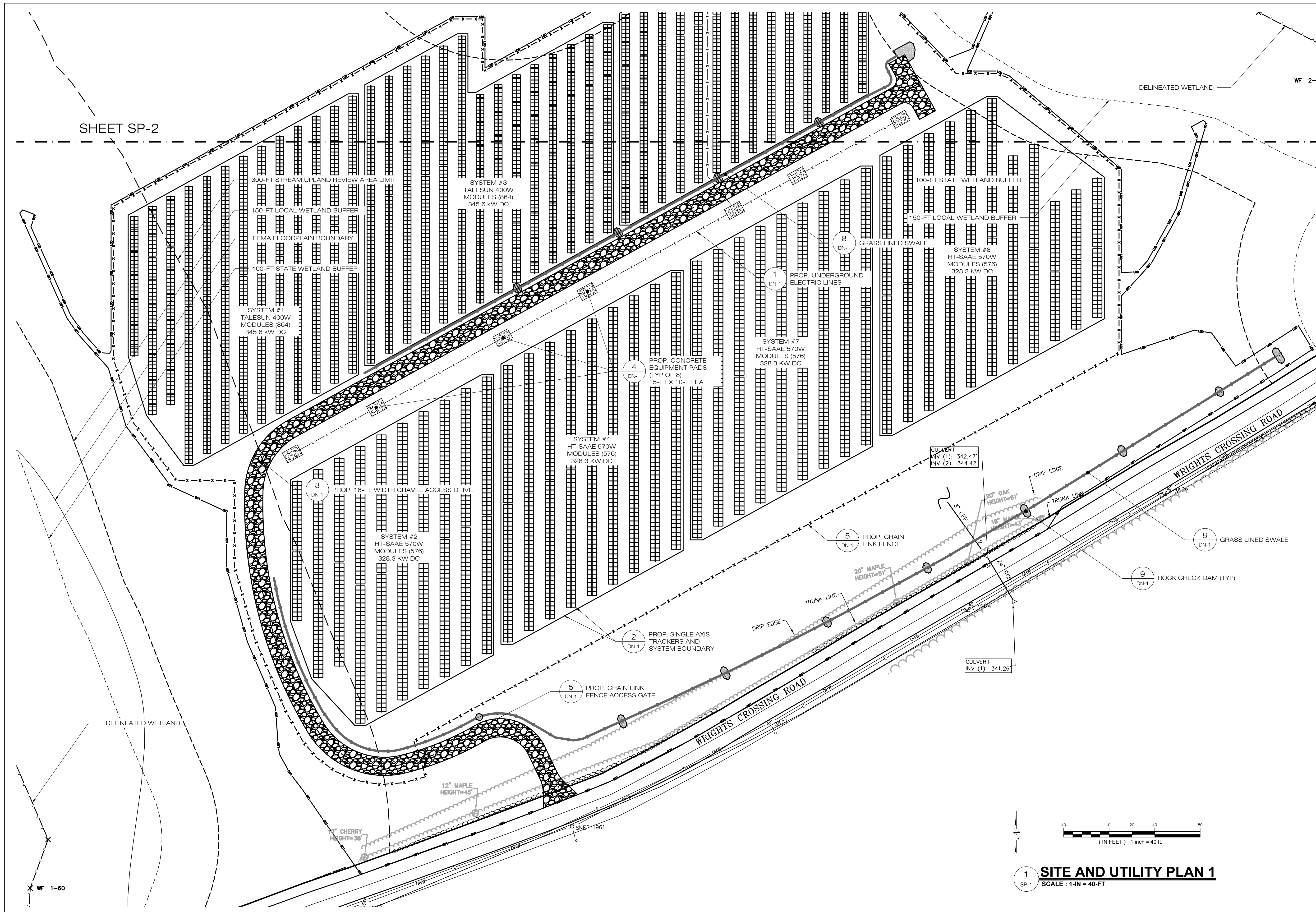
SHEET TITLE:
**GRADING AND DRAINAGE PLAN
 (3 OF 3)**

SHEET NUMBER:
GP-3



MATCHLINE THIS SHEET

414.00



SHEET SP-2



888 PROSPECT STREET
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4		
5		
6		


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 PROF: KEVIN A. MCCAFFERY, PE
 COMP: ALL-POINTS TECHNOLOGY CORPORATION
 ADD: 567 VAUXHAUL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385
 OWNER: ANTONIO & MARY AMARAL
 ADDRESS: 254 PUTNAM ROAD POMFRET CENTER, CT 06259

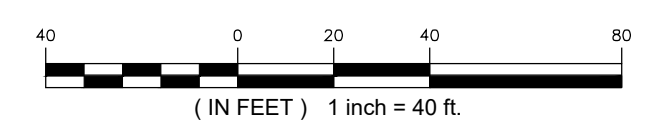
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 SITE 254 PUTNAM ROAD
 ADDRESS: POMFRET CENTER, CT 06259
 APT FILING NUMBER: CT657100
 DATE: 12/09/21
 DRAWN BY: KAM
 CHECKED BY: BG

SHEET TITLE:
SITE AND UTILITY PLAN (1 OF 3)

SHEET NUMBER:
SP-1

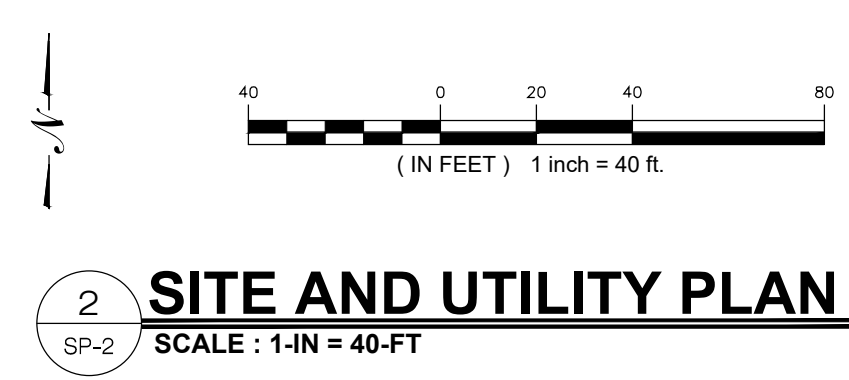
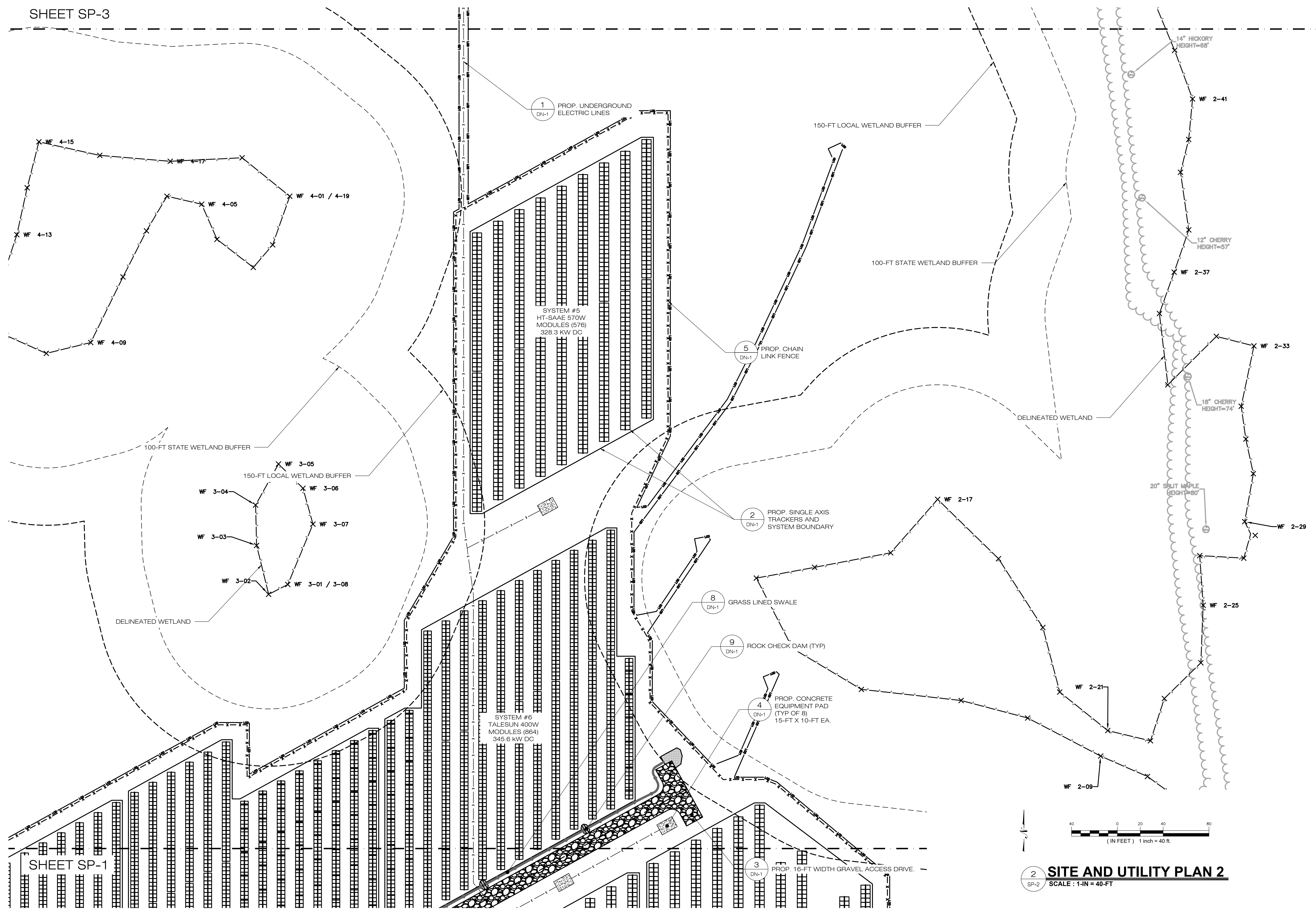


1 SITE AND UTILITY PLAN 1
 SCALE: 1-IN = 40-FT



WF 1-60

WF 2-C



2 SITE AND UTILITY PLAN 2
SCALE: 1-IN = 40-FT

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ALL-POINTS TECHNOLOGY CORPORATION
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WATERFORD, CT 06385 PHONE: (860)-663-1697
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CSC PERMIT SET

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NOT FOR CONSTRUCTION

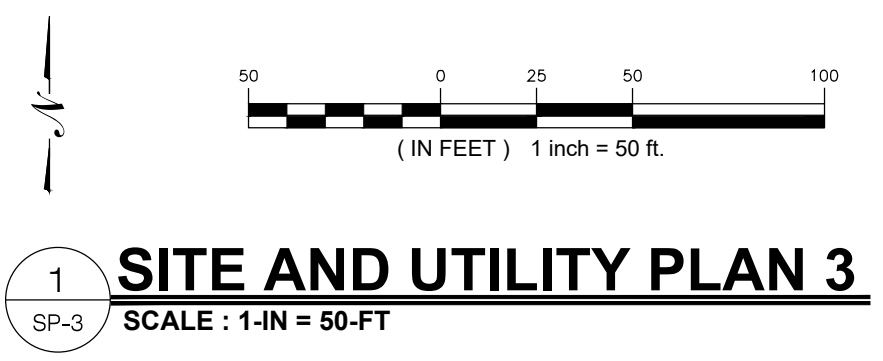
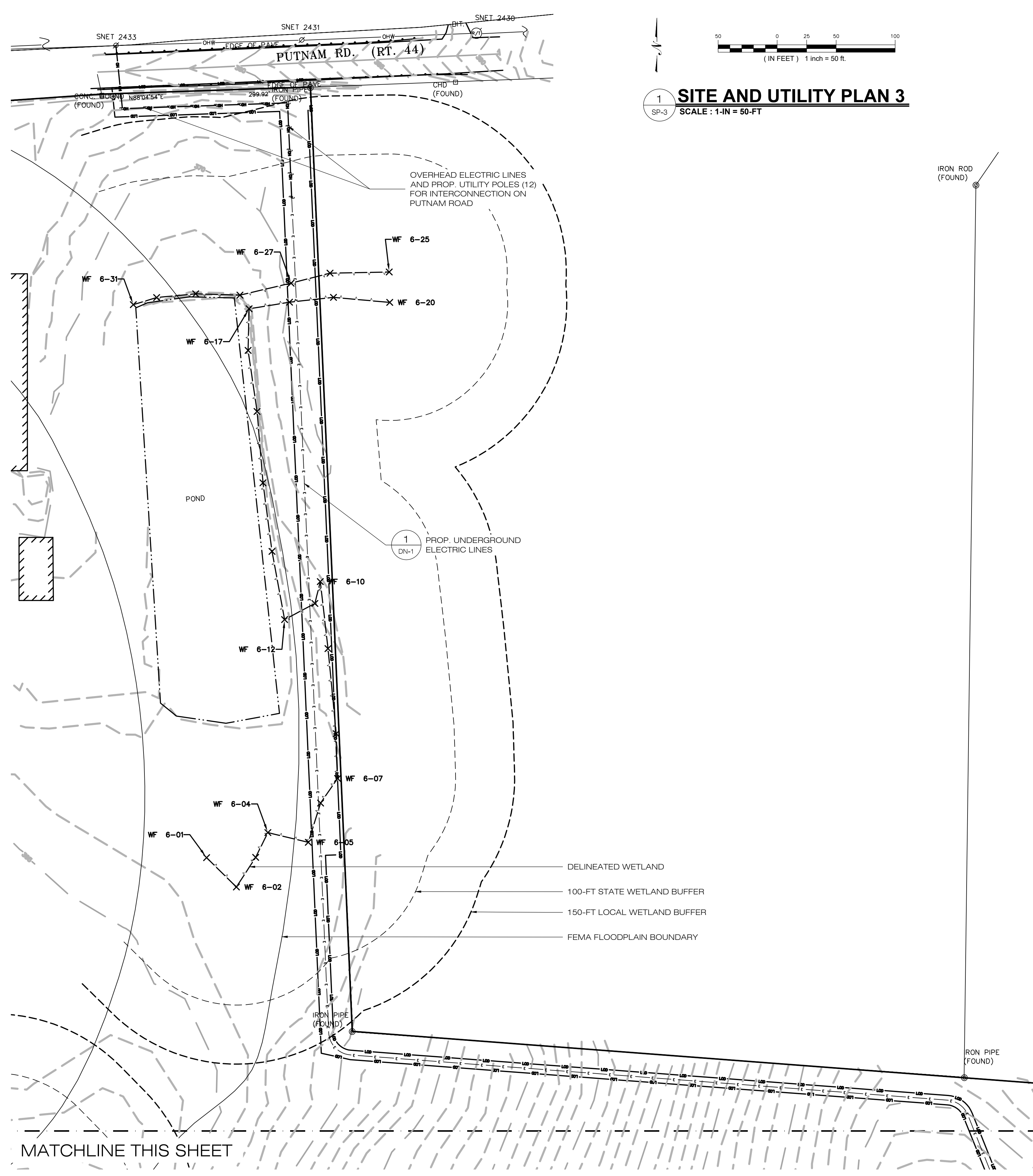
DESIGN PROFESSIONAL OF RECORD
PROF: KEVIN A. MCCAFFERY, PE
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385

OWNER: ANTONIO & MARY AMARAL
ADDRESS: 254 PUTNAM ROAD
POMFRET CENTER, CT 06259

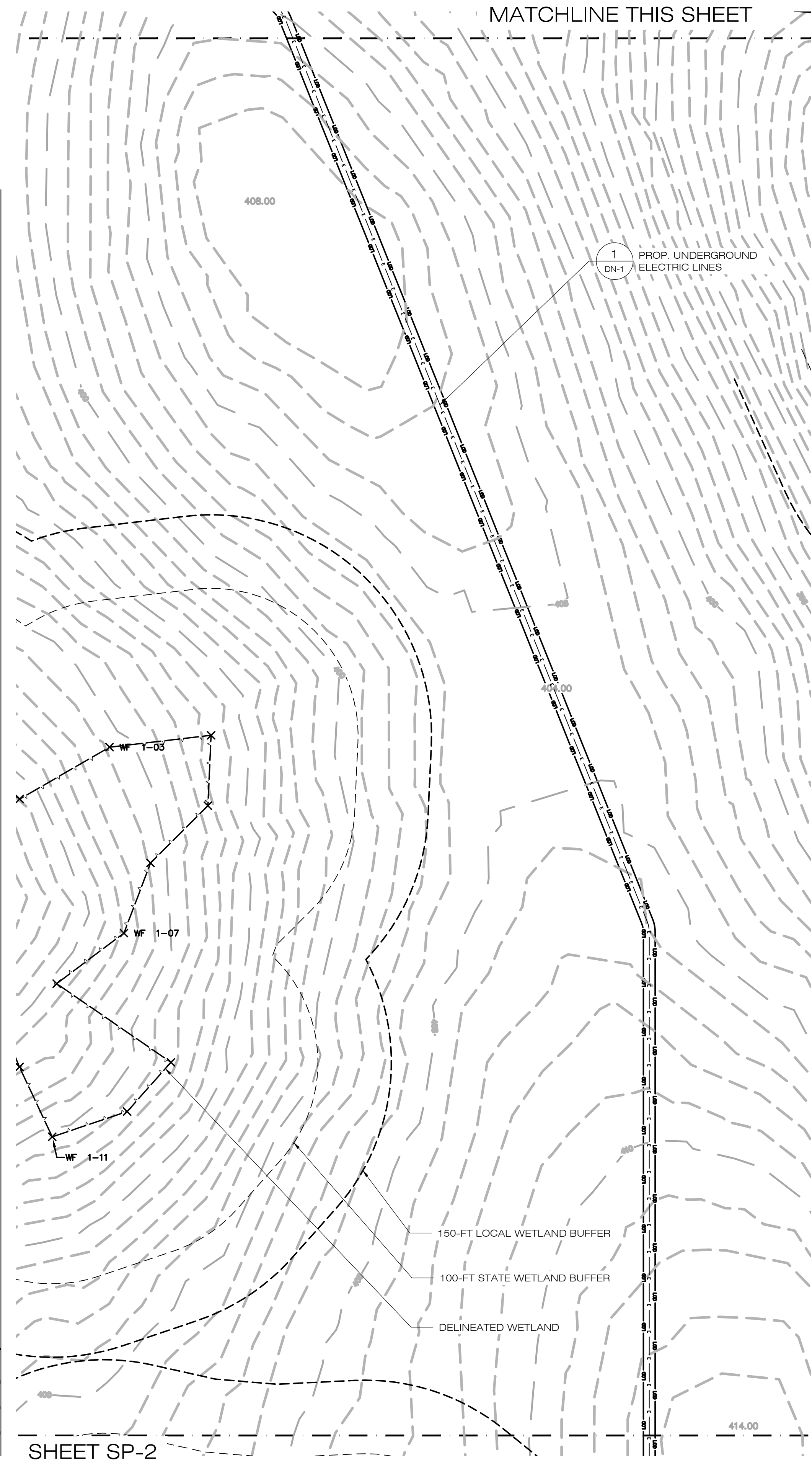
AMARAL SOLAR
SITE: 254 PUTNAM ROAD
ADDRESS: POMFRET CENTER, CT 06259
APT FILING NUMBER: CT657100
DRAWN BY: KAM
DATE: 12/09/21 CHECKED BY: BG

SHEET TITLE:
SITE AND UTILITY PLAN (2 OF 3)

SHEET NUMBER:
SP-2




1
SP-3 **SITE AND UTILITY PLAN 3**
SCALE: 1-IN = 50-FT




SHEET SP-2

MATCHLINE THIS SHEET

MATCHLINE THIS SHEET



**888 PROSPECT STREET
LA JOLLA, CA 92037
OFFICE: (619) 363-3080**



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 PROF: KEVIN A. MCCAFFERY, PE
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 ADD: 567 VAUXHAUL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385

OWNER: ANTONIO & MARY AMARAL
 ADDRESS: 254 PUTNAM ROAD POMFRET CENTER, CT 06259


AMARAL SOLAR

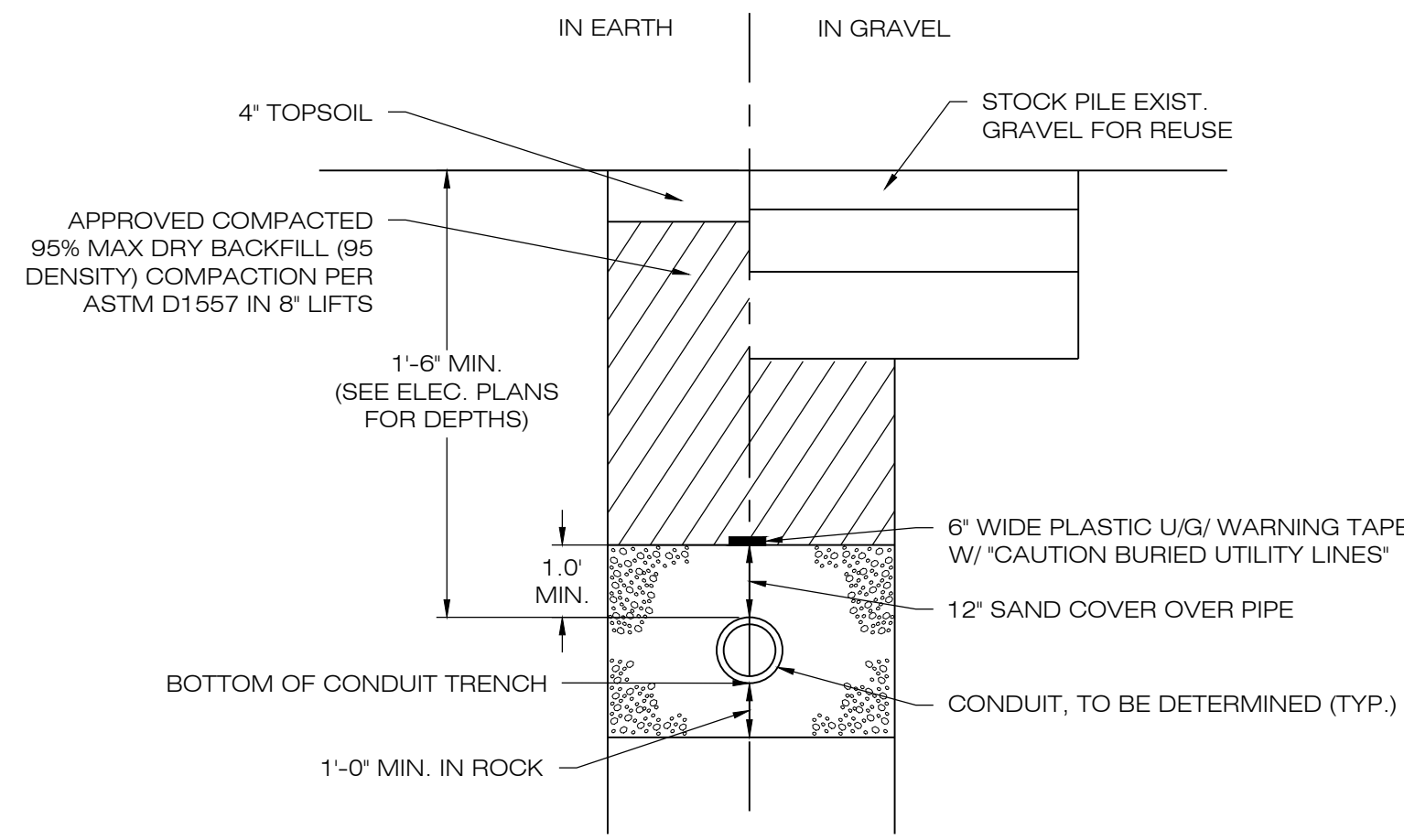
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ADDRESS: POMFRET CENTER, CT 06259
APT FILING NUMBER: CT657100

DATE: 12/09/21 DRAWN BY: KAM
 CHECKED BY: BG

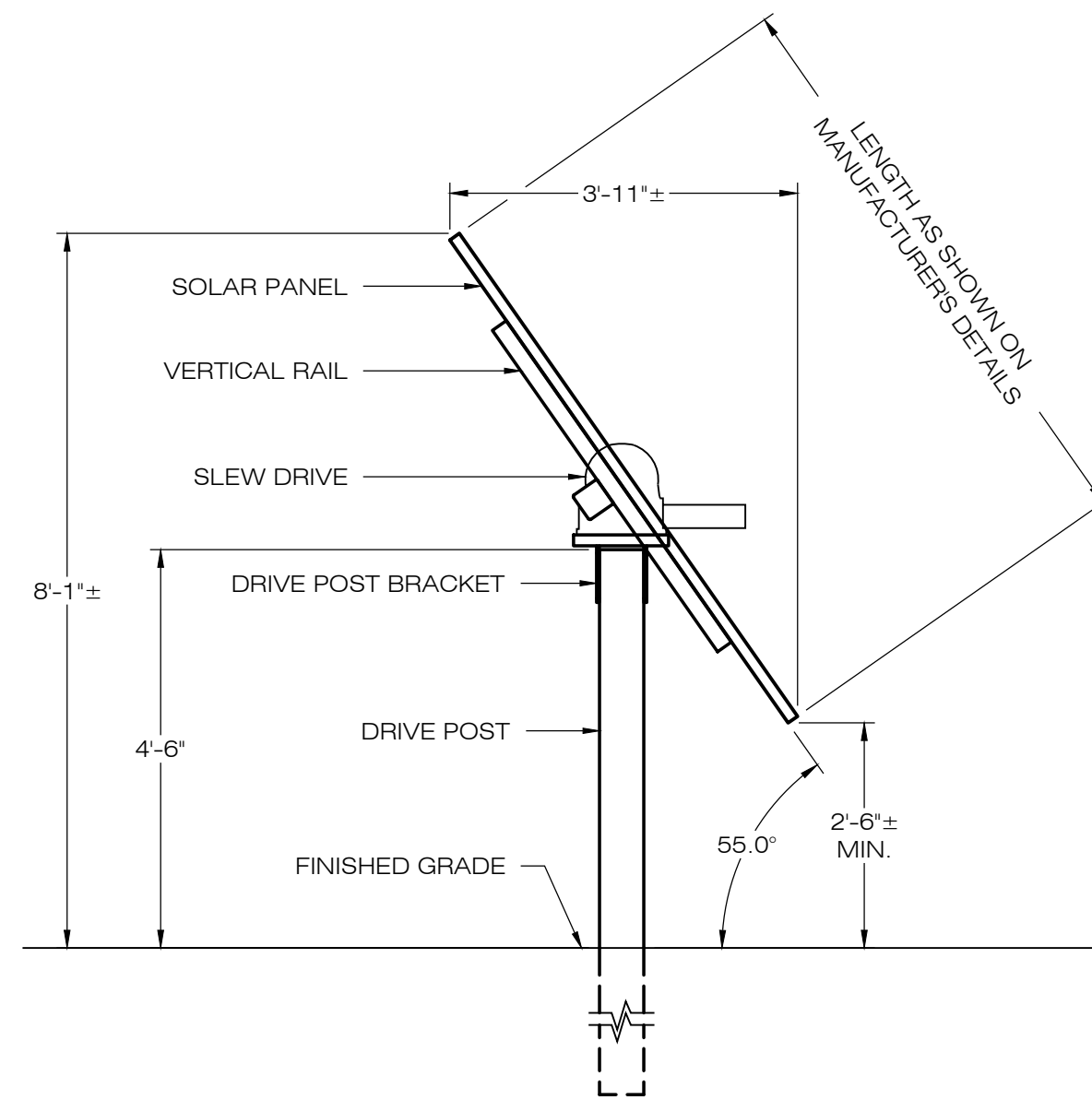
SHEET TITLE:
**SITE AND UTILITY PLAN
 (3 OF 3)**

SHEET NUMBER:
SP-3



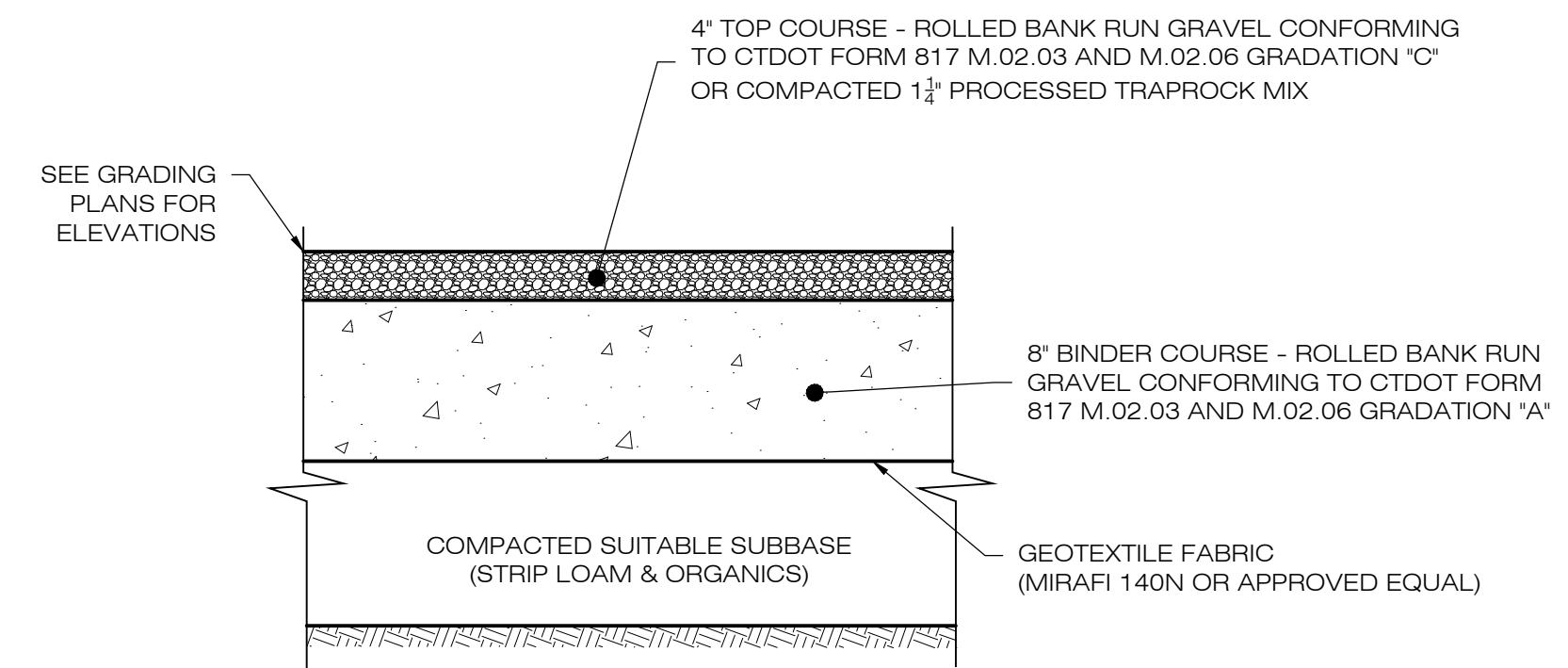


1 ELECTRICAL TRENCH DETAIL
DN-1 SCALE : N.T.S.



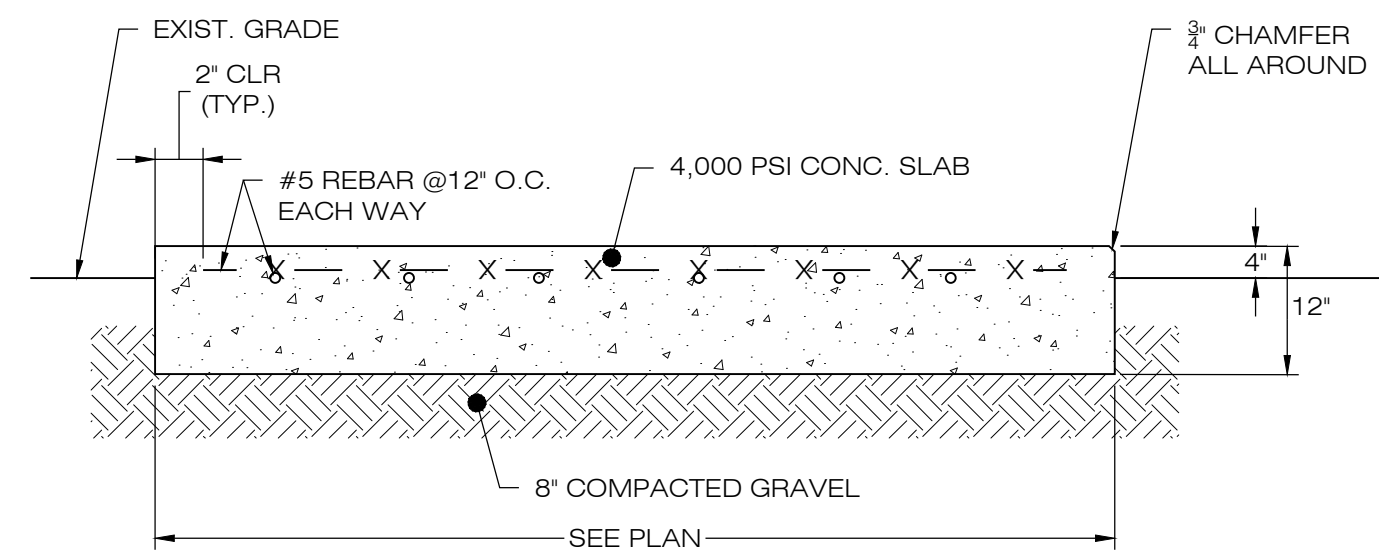
NOTES:
SEE MANUFACTURERS DETAIL SHEETS FOR ADDITIONAL INFORMATION REGARDING RACKING SYSTEM REQUIREMENTS AND INSTALLATION PROCEDURES. RACKING SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

2 TYPICAL TRACKER POST MOUNTED RACKING SYSTEM
DN-1 SCALE : N.T.S.

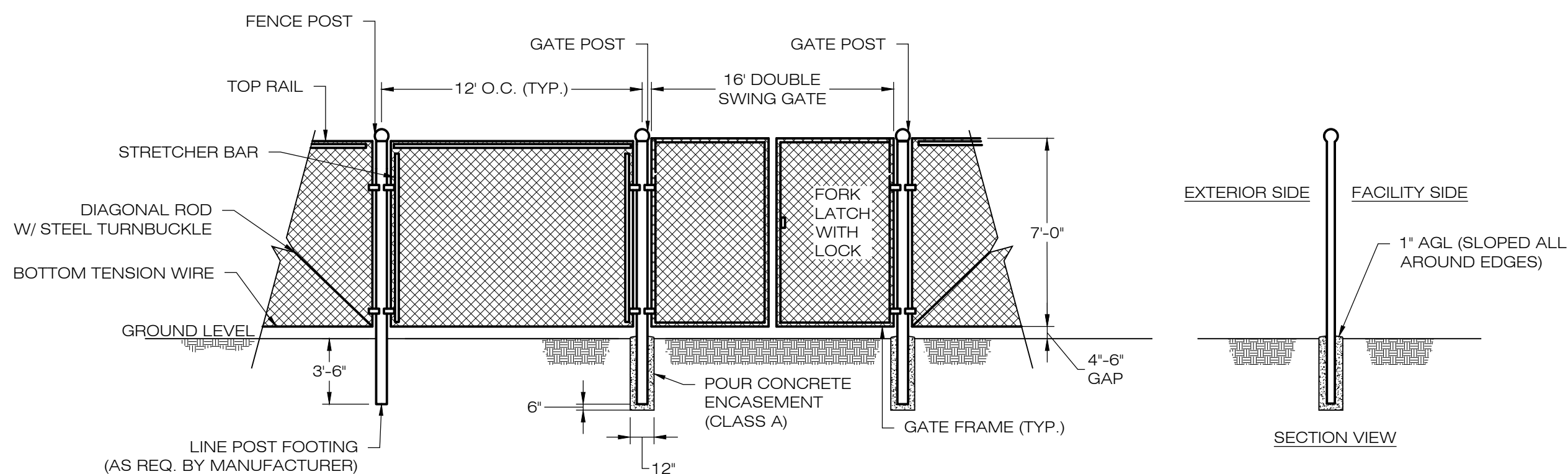


NOTES:
1. SUBBASE MAY CONSIST OF NATIVE MATERIALS IF FOUND ACCEPTABLE BY THE ENGINEER. SUBBASE TO BE COMPACTED TO 95% MAX DRY DENSITY.
2. SUBBASE IS TO BE FREE FROM DEBRIS AND UNSUITABLE MATERIALS.
3. CONTRACTOR SHALL INSTALL ACCESS ROAD FLUSH WITH EXISTING GRADE TO ENSURE DRAINAGE FLOW PATHS ARE MAINTAINED.
4. SEE PLAN VIEW SHEETS FOR ROAD WIDTH AND ELEVATIONS.

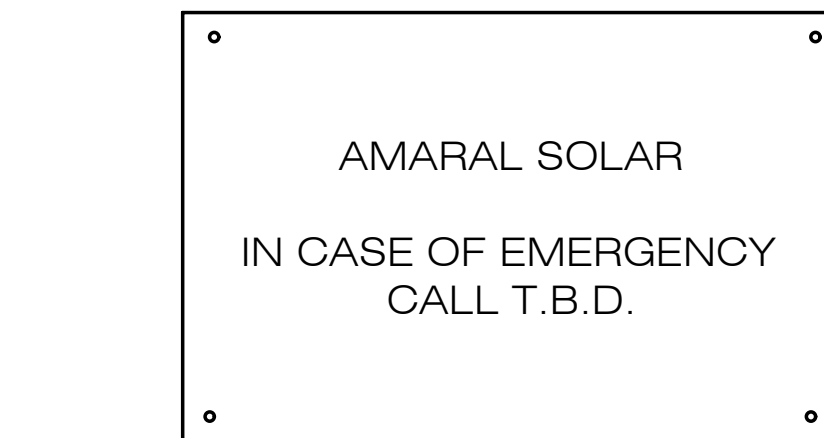
3 GRAVEL ACCESS DRIVE SECTION
DN-1 SCALE : N.T.S.



4 CONCRETE EQUIPMENT PAD
DN-1 SCALE : N.T.S.

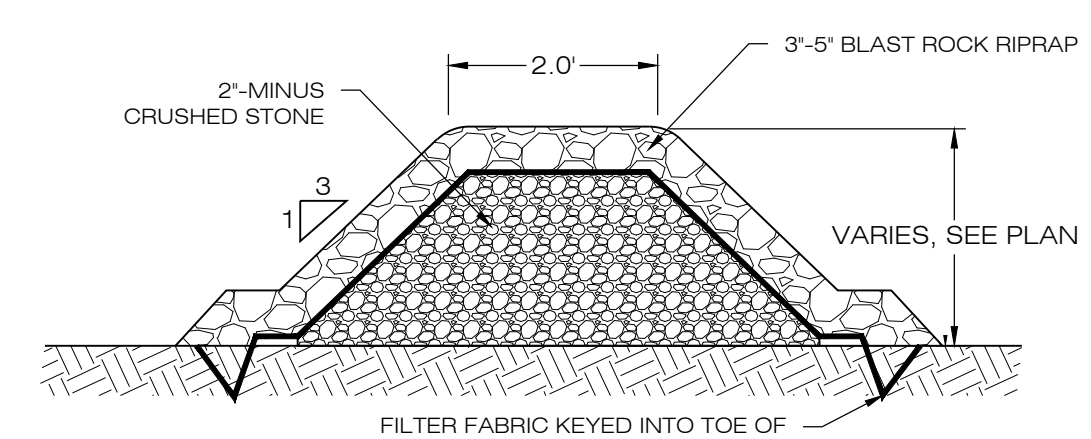


5 CHAIN-LINK FENCE & GATE DETAIL
DN-1 SCALE : N.T.S.



NOTES:
EMERGENCY CALL NUMBER TO BE PROVIDED ONCE DETERMINED.

6 NOTIFICATION SIGN DETAIL
DN-1 SCALE : N.T.S.



NOTES:
1. STONE SHALL BE PLACED MECHANICALLY OR BY HAND. STONE SHALL NOT BE DUMPED DIRECTLY INTO SWALE.
2. SEE GRADING AND DRAINAGE PLAN.

9 ROCK CHECK DAM
DN-1 SCALE : N.T.S.

Fuzz & Buzz Mix - Premium - ERNM-147

Botanical Name	Common Name	Price/lb
24.20 % <i>Lolium perenne</i> , 'Crave', Tetraploid	Perennial Ryegrass, 'Crave', Tetraploid	3.48
17.70 % <i>Oxycthis glomerata</i> , 'Pinnacle'	Oxycthis glomerata, 'Pinnacle'	3.00
17.70 % <i>Festuca elatior</i>	Meadow Fescue	4.80
17.70 % <i>Poa pratensis</i> , 'Ginger'	Kentucky Bluegrass, 'Ginger' (pasture type)	3.36
5.40 % <i>Trifolium hybridum</i>	Alsike Clover	3.90
4.90 % <i>Trifolium incarnatum</i> , Variety Not Stated	Crimson Clover, Variety Not Stated	1.92
4.50 % <i>Trifolium pratense</i> , Medium, Variety Not Stated	Red Clover, Medium, Variety Not Stated	3.00
2.00 % <i>Lotus corniculatus</i> , 'Leif'	Beet's Foot, 'Trelli', 'Leif'	7.50
1.30 % <i>Chrysanthemum leucanthemum</i>	Owey Daisy	33.60
1.30 % <i>Cichorium intybus</i>	Blue Chicory	19.20
0.80 % <i>Chamaecrista fasciculata</i> , PA Ecotype	Partridge Pea, PA Ecotype	7.20
0.40 % <i>Aster oblongifolius</i> , PA Ecotype	Aromatic Aster, PA Ecotype	336.00
0.40 % <i>Aster prenanthoides</i> , PA Ecotype	Zigzag Aster, PA Ecotype	432.00
0.40 % <i>Cirsopsis lanceolata</i>	Lanceleaf Coreopsis	28.80
0.40 % <i>Tradescantia ohioensis</i> , PA Ecotype	Ohio Spiderwort, PA Ecotype	192.00
0.40 % <i>Zizia aurea</i>	Golden Alexanders	288.00
0.30 % <i>Solidago nemoralis</i> , PA Ecotype	Gray Goldenrod, PA Ecotype	336.00
0.10 % <i>Achillea millefolium</i>	Common Milkweed	163.20
0.10 % <i>Penstemon hirsutus</i>	Hairy Beardtongue	480.00

100.00 % Mix Price/lb Bulk: \$10.91

Seeding Rate: Expect to apply about 42 lbs per acre with a cover crop of annual ryegrass at 12 lbs/acre.

Northeast Solar Pollinator Buffer Mix - ERNM-610

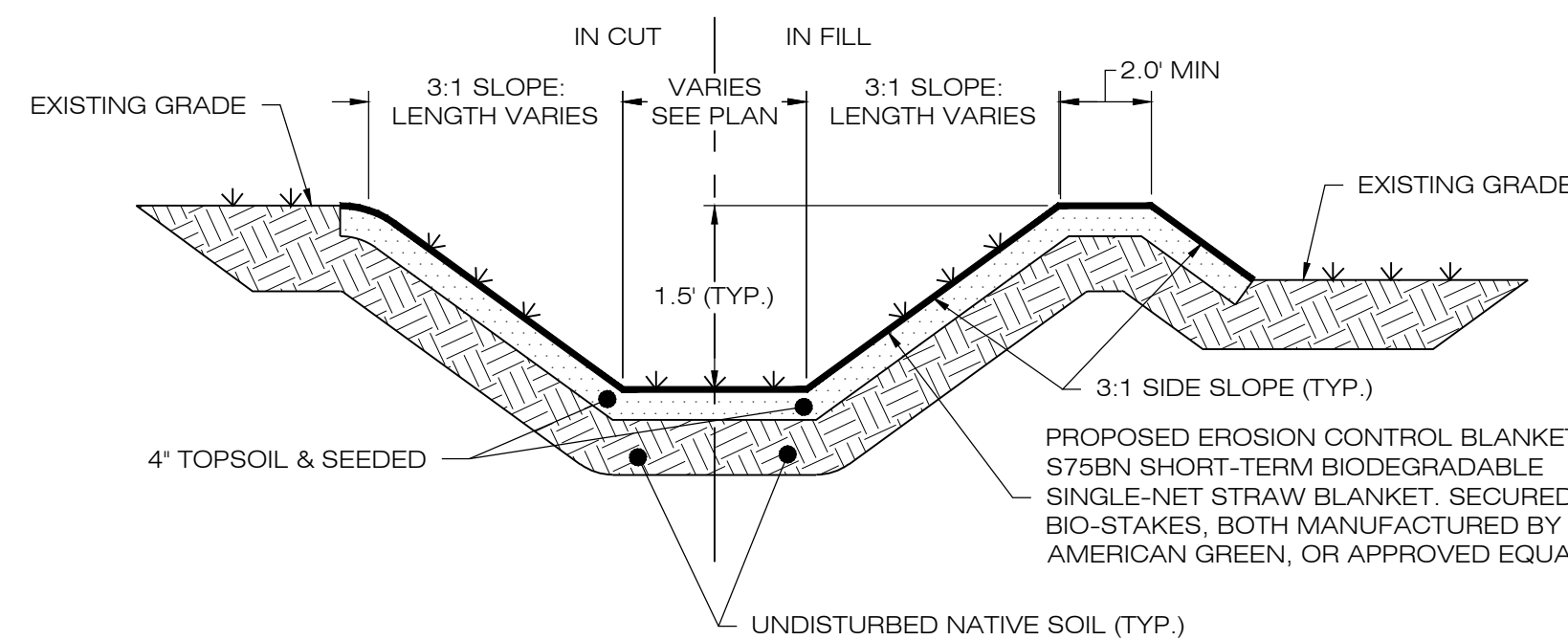
Botanical Name	Common Name	Price/lb
37.00 % <i>Schizanthus scarpianus</i> , 'Camper'	Little Bluestem, 'Camper'	15.90
36.30 % <i>Bouteloua curtipendula</i> , 'Butte'	Sideoats Grama, 'Butte'	14.11
4.00 % <i>Chamaecrista fasciculata</i> , PA Ecotype	Partridge Pea, PA Ecotype	7.20
4.00 % <i>Cirsopsis lanceolata</i>	Lanceleaf Coreopsis	28.80
4.00 % <i>Cirsopsis discolor</i>	Purple Coreopsis	43.20
3.30 % <i>Rudbeckia hirta</i>	Blackeyed Susan	24.00
2.30 % <i>Helianthus helianthoides</i> , PA Ecotype	Owey Sunflower, PA Ecotype	33.60
1.60 % <i>Penstemon digitalis</i> , PA Ecotype	Tall White Beardtongue, PA Ecotype	192.00
1.50 % <i>Achillea tuberosa</i>	Butterfly Milkweed	432.00
0.80 % <i>Liatris spicata</i>	Marsh Blazing Star	252.00
0.70 % <i>Senna hebecarpa</i> , VA & WV Ecotype	Wild Senna, VA & WV Ecotype	28.80
0.50 % <i>Achillea incarnata</i> , PA Ecotype	Swamp Milkweed, PA Ecotype	192.00
0.50 % <i>Goum canadensis</i> , PA Ecotype	White Asters, PA Ecotype	192.00
0.50 % <i>Monarda fistulosa</i> , Fort Indiantown Gap-PA Ecotype	Wild Bergamot, Fort Indiantown Gap-PA Ecotype	120.00
0.50 % <i>Pycnanthemum tenuifolium</i>	Narrowleaf Mountainmint	168.00
0.50 % <i>Zizia aurea</i>	Golden Alexanders	288.00
0.40 % <i>Aster laevis</i> , NY Ecotype	Smooth Blue Aster, NY Ecotype	336.00
0.40 % <i>Aster novae-angliae</i> , PA Ecotype	New England Aster, PA Ecotype	336.00
0.30 % <i>Baptisia australis</i> , Southern WV Ecotype	Blue False Indigo, Southern WV Ecotype	96.00
0.30 % <i>Tradescantia ohioensis</i> , PA Ecotype	Ohio Spiderwort, PA Ecotype	192.00
0.20 % <i>Onocletha fruticosa</i> var. <i>fruticosa</i>	Sundrops	360.00
0.20 % <i>Solidago nemoralis</i> , PA Ecotype	Gray Goldenrod, PA Ecotype	336.00
0.10 % <i>Aster prenanthoides</i> , PA Ecotype	Zigzag Aster, PA Ecotype	432.00
0.10 % <i>Veronicastrum virginicum</i> , PA Ecotype	Culver's Root, PA Ecotype	768.00

100.00 % Mix Price/lb Bulk: \$38.45

Seeding Rate: Seed with 30 lbs/acre of a cover crop. For a cover crop use either grain oats (1 Jan to 31 Jul) or grain rye (1 Aug to 31 Dec).

7 ERNST SEED MIXES
DN-1 SCALE : N.T.S.

NOTE:
ERNM-147 TO BE USED WITHIN ARRAY.
ERNM-610 TO BE USED OUTSIDE FENCELINE AND IN NON-ARRAY AREAS (ROAD SHOULDERS, PERIMETER ALLEYS, ELECTRICAL TRENCHES, ETC.)



SEED MIX TO BE NEWP NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES.

8 GRASS LINED SWALE
DN-1 SCALE : N.T.S.

New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites

Botanical Name	Common Name	Indicator
<i>Elymus riparius</i>	Riverbank Wild Rye	FACW
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Andropogon gerardii</i>	Big Bluestem	FAC
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Vernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Agrostis perennans</i>	Upland Bentgrass	FACU
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Eupatorium maculatum</i> (<i>Eutrochium maculatum</i>)	Spotted Joe Pye Weed	OBL
<i>Eupatorium perfoliatum</i>	Boneset	FACW
<i>Aster novae-angliae</i> (<i>Symphoricarpon novae-angliae</i>)	New England Aster	FACW-
<i>Scirpus cyperinus</i>	Wool Grass	FACW
<i>Juncus effusus</i>	Soft Rush	FACW+

PRICE PER LB. \$37.00 MIN. QUANTITY 3 LBS. TOTAL: \$111.00 APPLY: 35 LBS/ACRE :1250 sq ft/lb

TRITEC AMERICAS
888 PROSPECT STREET
LA JOLLA, CA 92037
OFFICE: (619) 363-3080

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

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DESIGN PROFESSIONAL OF RECORD
PROF: KEVIN A. MCCAFFERY, PE
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE 311 WATERFORD, CT 06385

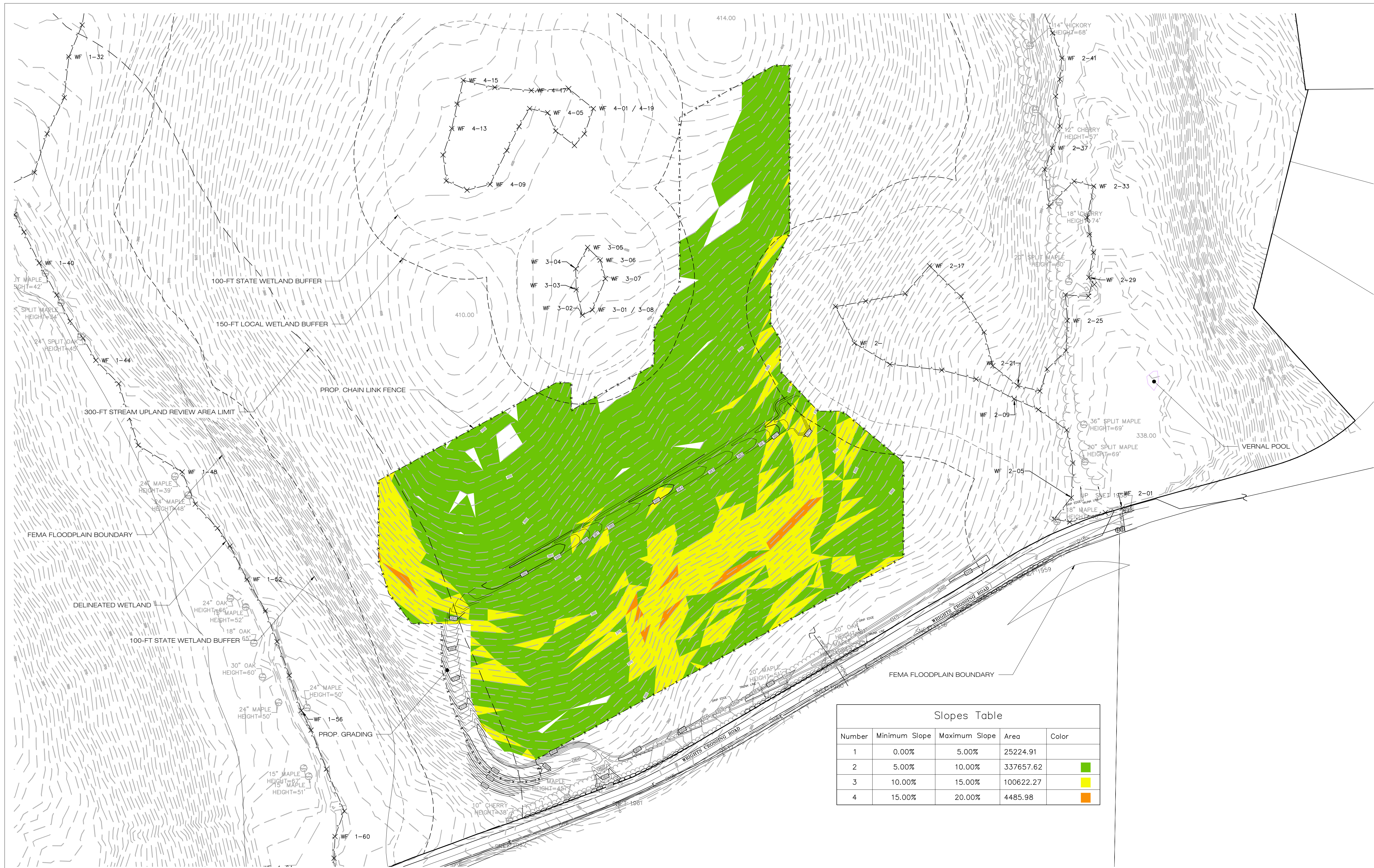
OWNER: ANTONIO & MARY AMARAL
ADDRESS: 254 PUTNAM ROAD POMFRET CENTER, CT 06259

AMARAL SOLAR
SITE ADDRESS: 254 PUTNAM ROAD POMFRET CENTER, CT 06259
APT FILING NUMBER: CT657100
DRAWN BY: KAM
DATE: 12/09/21 CHECKED BY: BG

AMARAL SOLAR
SITE ADDRESS: 254 PUTNAM ROAD POMFRET CENTER, CT 06259
APT FILING NUMBER: CT657100
DRAWN BY: KAM
DATE: 12/09/21 CHECKED BY: BG

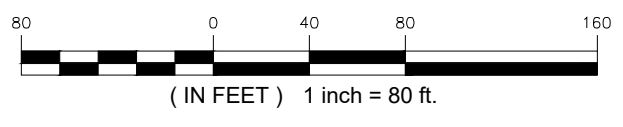
SHEET TITLE: SITE DETAILS

SHEET NUMBER: DN-1



Number	Minimum Slope	Maximum Slope	Area	Color
1	0.00%	5.00%	25224.91	
2	5.00%	10.00%	337657.62	Green
3	10.00%	15.00%	100622.27	Yellow
4	15.00%	20.00%	4485.98	Orange

1 EXISTING SITE SLOPES
EX-1 SCALE: 1" = 80'-0"



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AMARAL SOLAR
SITE: 254 PUTNAM ROAD
ADDRESS: POMFRET CENTER, CT 06259
APT FILING NUMBER: CT657100
DRAWN BY: KAM
DATE: 12/09/21 CHECKED BY: BG

SHEET TITLE:
SLOPE ANALYSIS

SHEET NUMBER:
EX-1



Department of Economic and
Community Development

State Historic Preservation Office

March 29, 2022

Mr. David R. George
Heritage Consultants
PO Box 310249
Newington, CT 06131

Subject: Phase IB Cultural Resource Reconnaissance Survey
Tritec Amaral Solar Project
Wright's Crossing Road,
Pomfret, Connecticut
ENV-22-0627

Dear Mr. George:

The State Historic Preservation Office (SHPO) has reviewed the archeological survey report prepared by Heritage Consultants, LLC (Heritage), dated July, 2021. The proposed activities are under the jurisdiction of the Connecticut Siting Council and are subject to review by this office pursuant to the Connecticut Environmental Policy Act (CEPA). The proposed undertaking includes the construction of a solar facility, which is to occupy an approximately 13.9 acre project area, and is bordered to the north by open hayfields, to the east by wooded areas, to the Wright's Crossing Road to the South, and a steep slope down to Bark Meadow Brook to the West. Access to the facility is to be from Wright's Crossing Road. The submitted reports are well-written, comprehensive, and meet the standards set forth in the *Environmental Review Primer for Connecticut's Archaeological Resources*.

Nine previously recorded archaeological sites are located within 1 mile of the project area; however, none will be impacted by the proposed undertaking. One property listed on the State Register of Historic Places is located within 1 mile of the project area; however, it will not be impacted by the proposed undertaking.

Phase IB of the reconnaissance survey consisted of subsurface testing of the areas determined to have moderate to high archaeological sensitivity. A total of 137 of 137 planned shovel tests were excavated successfully throughout the proposed work area, resulting in the identification of a single locus, Locus 1.

State Historic Preservation Office

450 Columbus Boulevard, Suite 5 | Hartford, CT 06103 | P: 860.500.2300 | ct.gov/historic-preservation

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Department of Economic and
Community Development

State Historic Preservation Office

Locus 1 contained a small assemblage of prehistoric artifacts, none of which could be dated to a specific time period or cultural affiliation, and therefore not eligible for listing on the National Register of Historic Places. Ten (10) historic period artifacts were recovered throughout the project area, and indicative of field scatter. Like Locus 1, this assemblage of artifacts are not eligible for listing on the National Register. No other cultural features or materials from either historic or prehistoric periods were identified.

As a result of the information submitted, SHPO concurs with the findings of the report that additional archeological investigations of the project area are not warranted and that no historic properties will be affected by the proposed activities. However, please be advised that if construction plans change to include previously uninvestigated/undisturbed areas, this office should be contacted for additional consultation.

This office appreciates the opportunity to review and comment upon this project. For additional information, please contact Marena Wisniewski, Environmental Reviewer, at (860) 500-2357 or marena.wisniewski@ct.gov.

Sincerely,

A handwritten signature in cursive script that reads "Jonathan Kinney".

Jonathan Kinney
State Historic Preservation Officer

State Historic Preservation Office

450 Columbus Boulevard, Suite 5 | Hartford, CT 06103 | P: 860.500.2300 | ct.gov/historic-preservation

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Ernst Conservation Seeds

8884 Mercer Pike
 Meadville, PA 16335
 (800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: April 14, 2021

Fuzz & Buzz Mix - Premium - ERNMX-147

Botanical Name	Common Name	Price/lb
24.20 % <i>Lolium perenne</i> , 'Crave', Tetraploid	Perennial Ryegrass, 'Crave', Tetraploid	3.48
17.70 % <i>Dactylis glomerata</i> , 'Pennlate'	Orchardgrass, 'Pennlate'	3.00
17.70 % <i>Festuca elatior</i>	Meadow Fescue	4.80
17.70 % <i>Poa pratensis</i> , 'Ginger'	Kentucky Bluegrass, 'Ginger' (pasture type)	3.36
5.40 % <i>Trifolium hybridum</i>	Alsike Clover	3.90
4.90 % <i>Trifolium incarnatum</i> , Variety Not Stated	Crimson Clover, Variety Not Stated	1.92
4.50 % <i>Trifolium pratense</i> , Medium, Variety Not Stated	Red Clover, Medium, Variety Not Stated	3.00
2.00 % <i>Lotus corniculatus</i> , 'Leo'	Bird's Foot Trefoil, 'Leo'	7.50
1.30 % <i>Chrysanthemum leucanthemum</i>	Oxeye Daisy	33.60
1.30 % <i>Cichorium intybus</i>	Blue Chicory	19.20
0.80 % <i>Chamaecrista fasciculata</i> , PA Ecotype	Partridge Pea, PA Ecotype	7.20
0.40 % <i>Aster oblongifolius</i> , PA Ecotype	Aromatic Aster, PA Ecotype	336.00
0.40 % <i>Aster prenanthoides</i> , PA Ecotype	Zigzag Aster, PA Ecotype	432.00
0.40 % <i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	28.80
0.40 % <i>Tradescantia ohiensis</i> , PA Ecotype	Ohio Spiderwort, PA Ecotype	192.00
0.40 % <i>Zizia aurea</i>	Golden Alexanders	288.00
0.30 % <i>Solidago nemoralis</i> , PA Ecotype	Gray Goldenrod, PA Ecotype	336.00
0.10 % <i>Asclepias syriaca</i>	Common Milkweed	163.20
0.10 % <i>Penstemon hirsutus</i>	Hairy Beardtongue	480.00
100.00 %	Mix Price/lb Bulk:	\$10.91

Seeding Rate: Expect to apply about 42 lbs per acre with a cover crop of annual ryegrass at 12 lbs/acre.

Forage & Pasture Sites; Solar Sites

Price quotes guaranteed for 30 days.
 All prices are FOB Meadville, PA.
 Please check our web site at www.ernstseed.com
 for current pricing when placing orders.

REMOTE FIELD REVIEW



**CT SITING COUNCIL PETITION NO. 1487
RESPONSE TO INTERROGATORY 35
AMARAL SOLAR
TRITEC AMERICAS, LLC
254 PUTNAM ROAD
POMFRET CENTER, CT**

PREPARED FOR:



PREPARED BY:

ALL-POINTS TECHNOLOGY CORPORATION, P.C.
567 Vauxhall Street Extension – Suite 311
Waterford, CT 06385

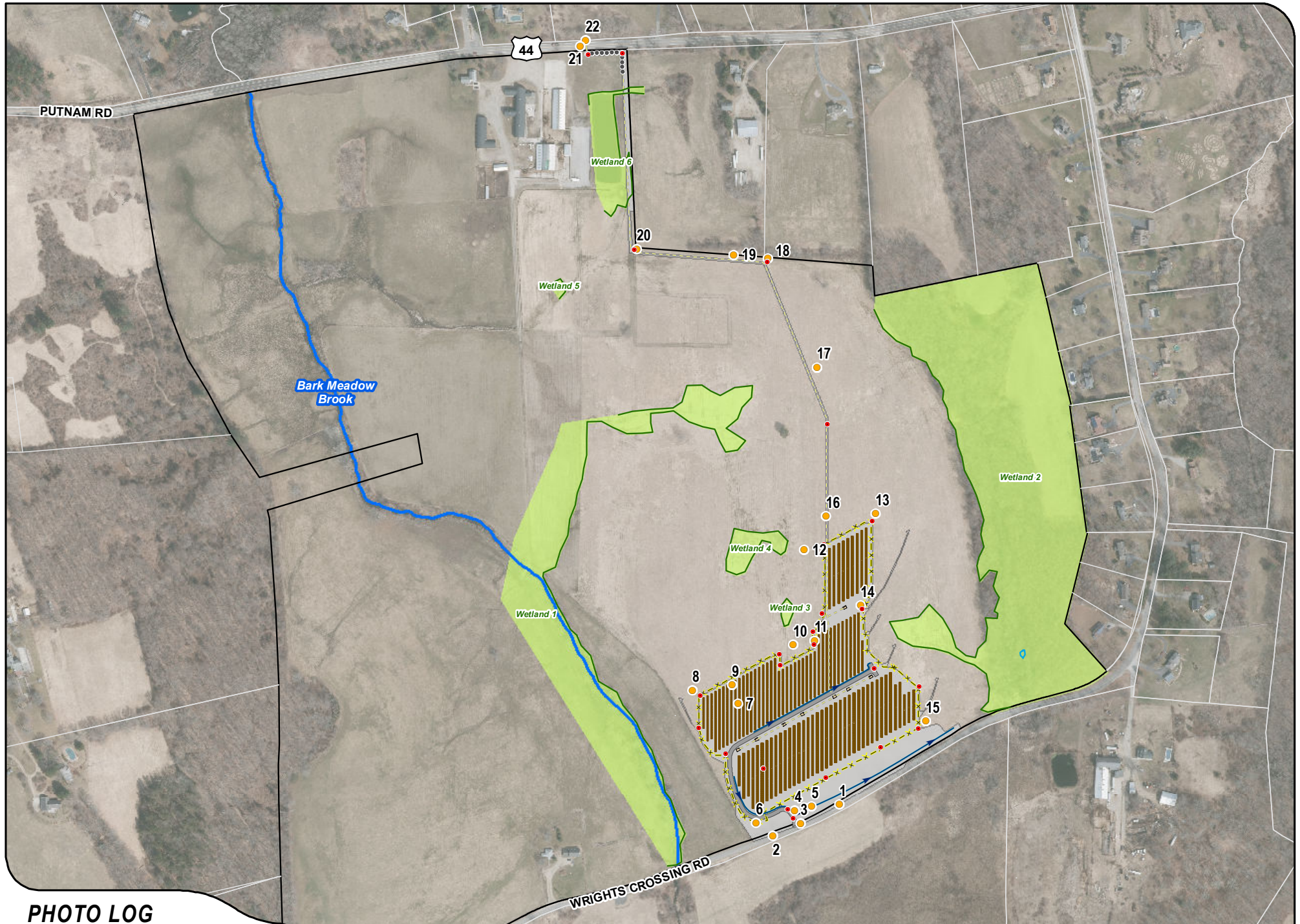
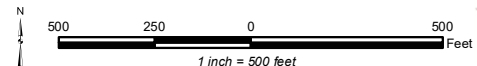


PHOTO LOG

- | | | | | |
|------------------------|-------------------------------|----------------------|------------------------------|----------------|
| ● Photo Locations | — Approx. Parcel Boundary | 🌿 Vernal Pool | → Stormwater Swale | • Utility Pole |
| ● Photo Markers | — Delineated Wetland Boundary | ☀ Solar Modules | ⋯ Interconnection Path (UD) | |
| □ Site | ■ Wetland Area | 🏠 Conc. Equip. Pad | — Interconnection Path (OVH) | |
| ▭ Limit of Disturbance | — Approx. Watercourse | 🛣 Gravel Access Road | ⌘ Perimeter Fence | |





PHOTOGRAPHED ON 3/30/2022

PHOTO

DESCRIPTION

1

WRIGHTS CROSSING ROAD LOOKING SOUTHWEST

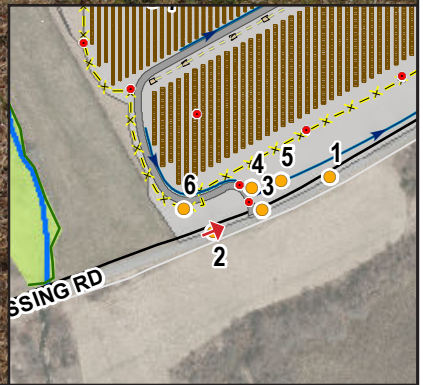


PHOTO

2

DESCRIPTION

WRIGHTS CROSSING ROAD LOOKING NORTHEAST



PHOTOGRAPHED ON 3/30/2022



ENTRANCE TO PROPOSED ACCESS ROAD

PHOTO

3

DESCRIPTION

WRIGHTS CROSSING ROAD LOOKING NORTH



PHOTOGRAPHED ON 3/30/2022

PHOTO

DESCRIPTION

4

PROPOSED ACCESS ROAD LOOKING SOUTH



PROPOSED ACCESS ROAD

PHOTO

5

DESCRIPTION
LOOKING WEST

PHOTOGRAPHED ON 3/30/2022

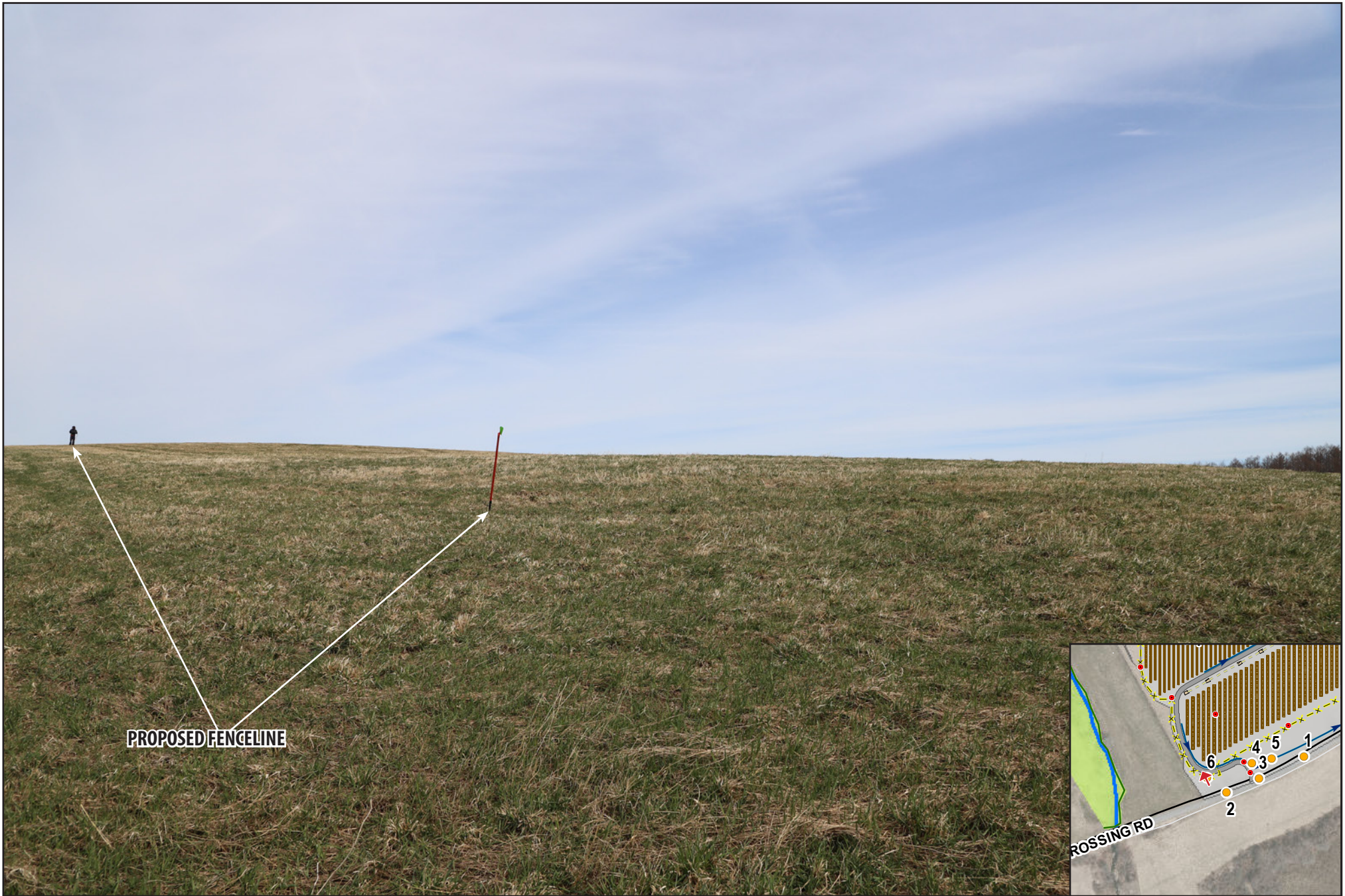


PHOTO

DESCRIPTION

6A

SOUTHWEST CORNER OF PROPOSED FACILITY LOOKING NORTHEAST



PHOTO

DESCRIPTION

6B

SOUTHWEST CORNER OF PROPOSED FACILITY LOOKING NORTHWEST



PROPOSED FENCELINE

PHOTO

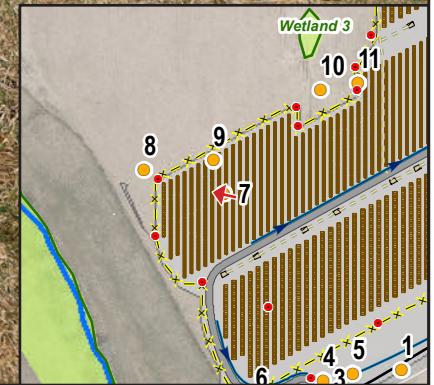
7A

DESCRIPTION

WESTERN PORTION OF PROPOSED FACILITY LOOKING SOUTHWEST



PROPOSED FENCELINE



PHOTO

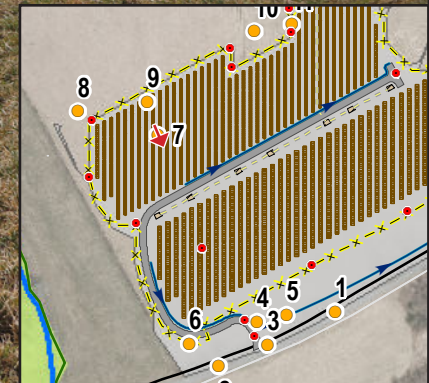
DESCRIPTION

7B

WESTERN PORTION OF PROPOSED FACILITY LOOKING NORTHWEST



PROPOSED ACCESS ROAD



PHOTO

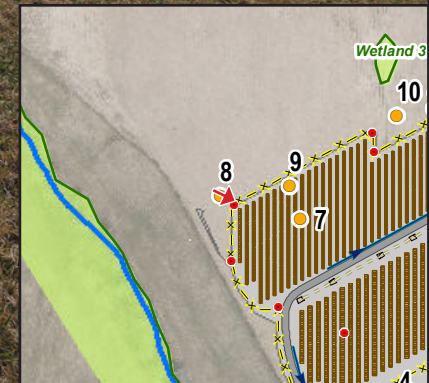
DESCRIPTION

7C

WESTERN PORTION OF PROPOSED FACILITY LOOKING SOUTHEAST



PROPOSED NORTHWEST FENCE CORNER



PHOTO

DESCRIPTION

8

NORTHWEST CORNER OF PROPOSED FACILITY LOOKING SOUTHEAST



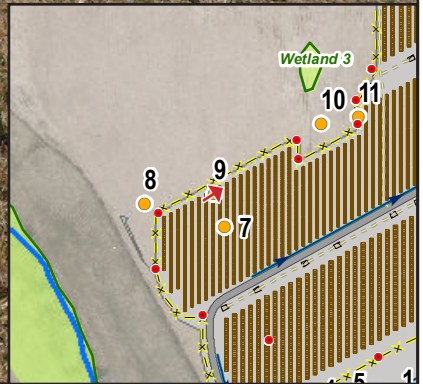
PROPOSED FENCE CORNERS

PHOTO

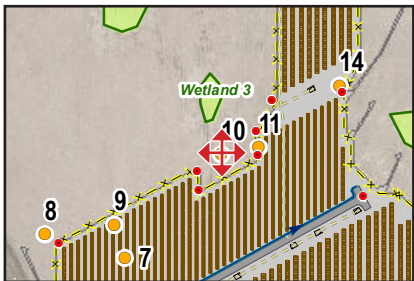
DESCRIPTION

9

NORTHWEST PORTION OF PROPOSED FACILITY LOOKING NORTHEAST



PHOTOGRAPHED ON 3/30/2022



PHOTO

10

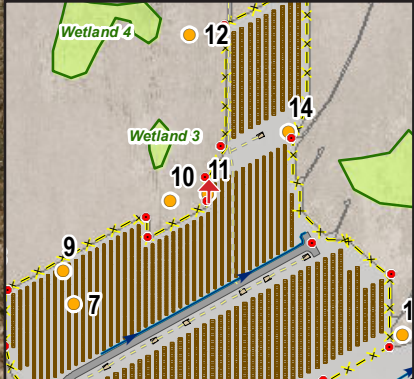
DESCRIPTION

NORTHCENTRAL PORTION OF FACILITY - FOUR CARDINAL POINTS

PHOTOGRAPHED ON 3/30/2022



PROPOSED FENCELINE



PHOTOGRAPHED ON 3/30/2022

PHOTO

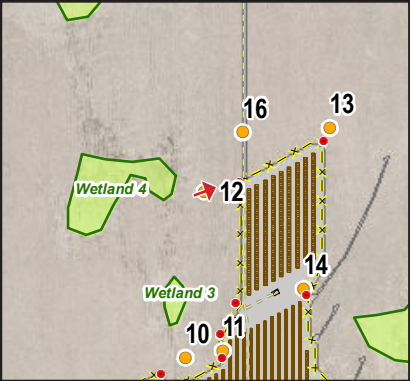
DESCRIPTION

11

NORTHCENTRAL PORTION OF PROPOSED FACILITY LOOKING NORTH



PROPOSED FENCE CORNER



PHOTOGRAPHED ON 3/30/2022

PHOTO

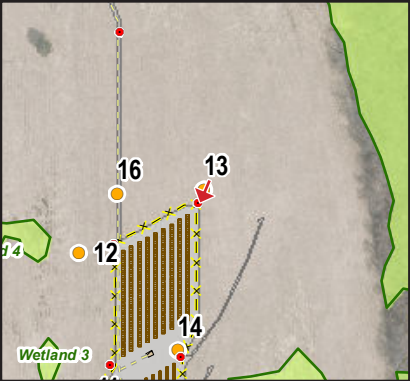
DESCRIPTION

12

NORTHEAST PORTION OF PROPOSED FACILITY LOOKING EAST



PROPOSED NORTHEAST FENCE CORNER



PHOTOGRAPHED ON 3/30/2022

PHOTO

DESCRIPTION

13

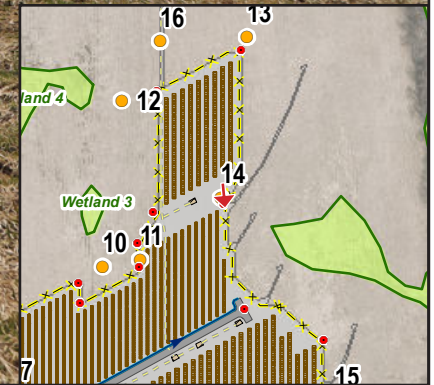
NORTHEAST CORNER OF PROPOSED FACILITY LOOKING SW





PROPOSED FENCELINE

PROPOSED ACCESS ROAD TERMINUS



PHOTO

DESCRIPTION

14

EASTERN PORTION OF PROPOSED FACILITY LOOKING SOUTH

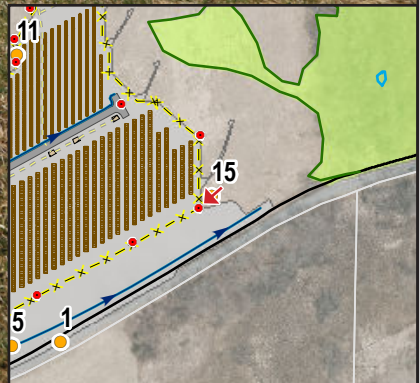


PHOTO

15

DESCRIPTION

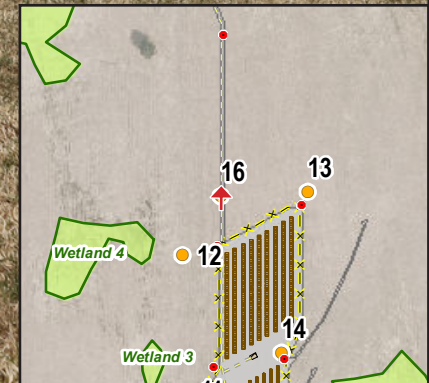
SOUTHEAST CORNER OF PROPOSED FACILITY LOOKING SOUTHWEST



PHOTOGRAPHED ON 3/30/2022



PROPOSED INTERCONNECTION PATH



PHOTO

DESCRIPTION

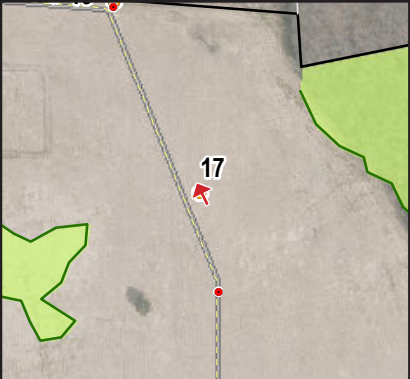
16

NORTHERN PORTION OF PROPOSED FACILITY LOOKING NORTH

PHOTOGRAPHED ON 3/30/2022



PROPOSED INTERCONNECTION PATH



PHOTOGRAPHED ON 3/30/2022

PHOTO

DESCRIPTION

17

PROPOSED INTERCONNECTION PATH LOOKING NORTHWEST



PROPOSED INTERCONNECTION PATH

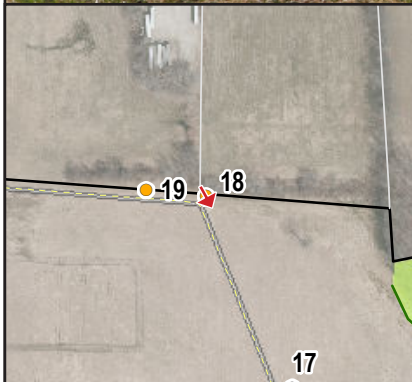


PHOTO
18A

DESCRIPTION

PROPOSED INTERCONNECTION PATH LOOKING SOUTHEAST

PHOTOGRAPHED ON 3/30/2022



PHOTOGRAPHED ON 3/30/2022

PHOTO
18B

DESCRIPTION

PROPOSED INTERCONNECTION PATH LOOKING WEST



PHOTOGRAPHED ON 3/30/2022

PHOTO
19A

DESCRIPTION

PROPOSED INTERCONNECTION PATH LOOKING EAST



PHOTOGRAPHED ON 3/30/2022

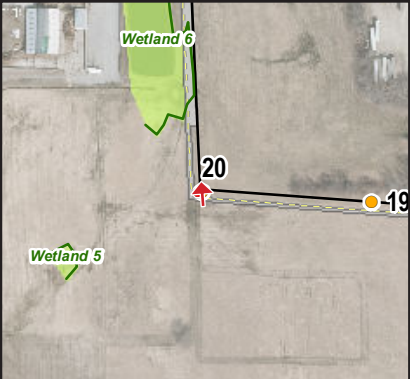
PHOTO
19B

DESCRIPTION

PROPOSED INTERCONNECTION PATH LOOKING WEST



PROPOSED INTERCONNECTION PATH



PHOTOGRAPHED ON 3/30/2022

PHOTO
20

DESCRIPTION

PROPOSED INTERCONNECTION PATH LOOKING NORTH



PROPOSED INTERCONNECTION PATH



PHOTOGRAPHED ON 3/30/2022

PHOTO

21

DESCRIPTION

US HIGHWAY 44 LOOKING SOUTHEAST



PROPOSED INTERCONNECTION PATH (BEYOND)



PHOTO

DESCRIPTION

22

US HIGHWAY 44 LOOKING SOUTHEAST

Attachment F: Revised O&M Plan

	O&M Scope	Frequency per Year	Description
1.	General Site Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and Identification labeling is present and legible. - Inspect site access/egress locations are free of obstructions and hazards. - Equipment access lanes are free of obstructions and hazards. - Inspect for changes of environmental conditions such as nearby construction activity, agricultural activities, bird migrations, water table changes, acts of vandalism, and shading.
2.	Mechanical System Inspection	1x per year	<ul style="list-style-type: none"> - Racking structures visual and mechanical inspection. - Mechanical inspection 2% of Module-to-racking attachments for torque specification. - Module visual inspection. - DC Optimizer operation verification via monitoring equipment (when applicable). - Ballast block, foundations, driven piers, mechanical attachments, and earth screw visual inspection. - Roof protection installation methods and materials. - Equipment Grounding Conductor electrical continuity inspection. - Equipment bonding to ground electrical continuity inspection.
3.	DC & AC Electrical System Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and Identification labeling is present and legible. - Enclosure mounting, gaskets, interior, and exterior visual inspection. - Grounding and bonding inspection. - Terminations (conductors) thermography scanning. - Visual inspection of conductor termination torque markings. - Fuse and breaker thermography scanning. - Vacuum clean interiors. - Visual inspection of conduits, fittings, junctions/splice boxes, and enclosures. - Exercise operation of all protective devices. - Switchgear inspection. - Use infrared camera to inspect for hot spots, bypass.
4.	Inverter Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and Identification labeling is present and legible. - Enclosure mounting, gaskets, Interior, and exterior visual inspection. - Grounding and bonding inspection. - Inverter operation verification. - Use an infrared camera to check connections. - Vacuum clean interior. - Clean air intake/exhaust screens, fans, and filters. - Complete all other manufacturer specific maintenance procedures not listed above.

5.	Data Acquisition System Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and Identification labeling is present and legible. - Meteorological data sensor cleaning, positioning, and operation. - Inverter communication (when applicable).
6.	Reporting	1x per year	<ul style="list-style-type: none"> - Provide digital commissioning report including results from all steps with responses noting Pass, Values, or Failure with explanation. - Photo report of deficiencies.
7.	Inverter Replacement	As Needed	<ul style="list-style-type: none"> - Additional site visits related to inverter failure will be billed to Asset Manager on a time and materials basis. - Site visits will be followed with a report on site conditions and findings within three (3) business days.
8.	Testing	1x per year	<ul style="list-style-type: none"> - Perform performance test: measure incident sunlight and simultaneously observe temperature and calculate the balance of system efficiency. Compare readings with diagnostic benchmark (original efficiency of system).
9.	Mowing	As Needed	<ul style="list-style-type: none"> - See attached Rare Grassland Birds Site Management Measures (Mowing)
10.	Environmental Notes	Ongoing	<ul style="list-style-type: none"> - See attached Environmental Notes From Site Plan (EN-1)
11.	Environmental Notes – Resources Protection Measures	Ongoing	<ul style="list-style-type: none"> - See attached Environmental Notes – Resources Protection Measures

9. Rare Grassland Birds Site Management Measures (Mowing)

- a. The following measures are intended for implementation within the fenced solar-powered generation facility. The likelihood of nesting occurring within the fenced compound, and amongst the arrays themselves, is low. However, these birds may breed in the contiguous grassland habitat adjacent to the facility and therefore would be subject to secondary impacts such as noise or visual disturbance that may affect nesting. Additionally, there is the potential for adults and fledglings to feed within the fenced compound.
- b. Timing of Mowing/Vegetation Maintenance: If possible, mowing should be avoided from May 15th through August 15th to minimize impacts to nesting birds. For the benefit of birds as well as terrestrial wildlife, mowing conducted once per season is optimal, after October 15th when most species have entered fall/winter dormancy.
- c. Mowing Type/Method:
 1. Mower Speed: Mowing at slow speeds will allow animals to react and move out of the field.
 2. Mowing style: Avoid flail mower heads with guide bars that ride along the ground. Sickle bar mowers will have the least impact if mowing every 1-5 years.
 3. Mowing height: If mowing during the breeding season, retention of mowing stubble at a minimum height of 7 inches will reduce mortality and will leave important cover for wildlife.
 4. Directionality: If mowing during the breeding season is necessary, start mowing closest to the arrays and move outward toward the edge of the array field.
- d. Pre-Mowing Nest Surveys: If mowing outside of the nesting season is not possible, a pre-mowing inspection by an ornithologist is recommended to confirm that no nests are present within the mowing limits. That survey should occur no more than one week prior to the start of mowing. Any activity by target species should be field flagged and/or conveyed to the contractor. If a nest site is observed within the mowing limits, no mowing should occur within 100 feet of the nest site until it is inactive and the fledglings are fully mobile.

10. Environmental Notes From Site Plan (EN-1)

A portion of the proposed underground utility route is located within wetlands that were previously disturbed by agricultural activities and construction of the farm pond. As a result, temporary disturbances to wetlands will result from installation of the proposed underground utilities via trenching. The following protective measures and restoration activities shall be followed to help avoid degradation, and proper restoration of these wetlands.

It is of the utmost importance that the contractor complies with the requirements for the installation of protective measures, restoration of affected wetlands and the education of its employees and subcontractors performing work on the project site. All-points technology corporation, P.c. ("APT") will serve as the environmental monitor for this project to ensure that wetland protection and restoration measures are implemented properly. The contractor shall contact Matthew Gustafson, wetland scientist at APT at least 5 business days prior to the pre-construction meeting. Mr. Gustafson can be reached by phone at (860) 617-0613 or via email at mgustafson@allpointstech.com.

The resource protection program consists of several components, including: education of all contractors and sub-contractors prior to initiation of work on the site; use of appropriate erosion control measures to control and contain erosion while avoiding/minimizing wildlife entanglement; periodic inspection and maintenance of isolation structures and erosion control measures; wetland protective measures; wetland restoration measures; spill prevention; herbicide/pesticide restrictions; and, reporting.

1. Contractor education
 - a. Prior to work on site, the contractor shall attend an educational session at the pre-construction meeting with APT. This orientation and educational session will consist of an introductory meeting with APT to understand the environmentally sensitive nature of the development site and the need to follow protective measures and restoration measures as described in section 3 below.
2. Erosion and sedimentation controls
 - a. All erosion and sedimentation controls shall conform to the 2002 Connecticut guidelines for soil erosion and sediment control, dep bulletin 34.
 - b. Plastic netting used in a variety of erosion control products (i.e., erosion control blankets, fiber rolls [wattles], reinforced silt fence) has been found to entangle wildlife, including reptiles, amphibians, birds and small mammals. No permanent erosion control products or reinforced silt fence will be used on the project. Temporary erosion control products will use either erosion control blankets and fiber rolls composed of processed fibers mechanically bound together to form a continuous matrix (net less) or netting composed of planar woven natural biodegradable fiber to avoid/minimize wildlife entanglement.
 - c. Installation of silt fencing and/or other erosion control devices (i.e., straw wattles, compost filter socks, etc.) Shall be performed by the contractor prior to any earthwork. APT will inspect the work zone area prior to and following erosion control installation to ensure devices are properly installed.
 - d. Silt fencing shall consist of non-reinforced conventional erosion control woven fabric, installed approximately six inches below surface grade and staked at seven to ten-foot intervals using four-foot oak stakes or approved equivalent. The contractor is responsible for daily inspections of the sedimentation and erosion controls for tears or breeches and accumulation levels of sediment, particularly following storm events that generate a discharge. The environmental monitor will provide periodic inspections of the sedimentation and erosion controls throughout the duration of construction

activities only as it pertains to protection of nearby wetlands.

- e. The extent of erosion controls will be as shown on the site plans. The contractor shall have additional sedimentation and erosion controls stockpiled on site should field or construction conditions warrant extending devices. In addition to the contractor making these determinations, requests for additional controls will also be at the discretion of the environmental monitor.
- f. No equipment, vehicles or construction materials shall be stored outside of the exclusionary fencing or within 50 feet of wetlands or watercourses.
- g. All silt fencing and other erosion control devices shall be removed within 30 days of completion of work and permanent stabilization of site soils so that reptile and amphibian movement between uplands and wetlands is not restricted. If fiber rolls/wattles, straw bales, or other natural material erosion control products are used, such devices will not be left in place to biodegrade and shall be promptly removed after soils are stable so as not to create a barrier to migrating wildlife. Seed from seeding of soils should not spread over fiber rolls/wattles as it makes them harder to remove once soils are stabilized by vegetation.

11. ENVIRONMENTAL NOTES - RESOURCES PROTECTION MEASURES

WETLAND, VERNAL POOL, AND RARE SPECIES PROTECTION PROGRAM

The proposed solar facility is located proximate to sensitive habitats including wetland resource areas, vernal pools, and rare species habitat. In addition, a portion of the proposed underground utility route is located within wetlands that were previously disturbed by agricultural activities and construction of the farm pond. As a result, temporary disturbances to wetlands will result from installation of the proposed underground utilities via trenching. The following protective measures and restoration activities shall be followed to help avoid degradation, and proper restoration of these wetlands as well as help avoid degradation of nearby wetland/watercourses, avoid incidental impact to vernal pool indicator species, and rare species.

Wood Turtle (*Glyptemys insculpta*), Spotted Turtle (*Clemmys guttata*), Bobolink (*Dolichonyx oryzivorus*) and Savannah Sparrow (*Passerculus sandwichensis*), all State Special Concern species afforded protection under the Connecticut Endangered Species Act, are known to occur on the subject property in proximity to the proposed facility. The rare species protection measures that follow are similar to protection measures previously approved by the Connecticut Department of Energy and Environmental Protection (“DEEP”) Wildlife Division on other similar projects.

Two State-listed birds occur and potentially breed on the project site: bobolink (*Dolichonyx oryzivorus*) and savannah sparrow (*Passerculus sandwichensis*). These species are small (approximately 6” in height) migratory songbirds that inhabit grasslands, hayfields or other open treeless habitats with little to no woody shrub cover. They arrive on the breeding grounds in early to mid-May and establish well-concealed nests on or close to the ground amongst tall grassy cover. Ideally, construction should be performed outside of the grassland bird breeding season (April 1 through August 30). However, if construction activities are planned during the active peak breeding season for grassland bird species (May 20 through August 20), the Rare Grassland Birds Protective Measures During Construction should be followed to have the least impact on State-listed grassland bird species.

It is of the utmost importance that the Contractor complies with the requirement for implementation of these protective measures and the education of its employees and subcontractors performing work on the project site. The wetland protection measures shall be implemented and maintained throughout the duration of construction activities until permanent stabilization of site soils has occurred. Vernal pool protection measures should be implemented during peak amphibian movement periods (early spring breeding [March 1st to May 15th] and late summer dispersal [July 15th to September 15th]) if construction cannot be avoided during these periods. The turtle protection measures within this plan shall be implemented if work will occur during either the turtle’s active period (March 15th to November 1st) or dormant period (November 1st to March 15th).

All-Points Technology Corporation, P.C. (“APT”) will serve as the Environmental Monitor for this project to ensure that these protection measures are implemented properly. APT will provide an education session for the Contractor prior to the start of construction activities on project’s location within sensitive habitats (e.g., rare species, wetlands, vernal pools). The Contractor shall contact Dean Gustafson, Senior Biologist at APT, at least 5 business days prior to the start of any construction activities to schedule a pre-construction meeting. Mr. Gustafson can be reached by phone at (860) 552-2033 or via email at dgustafson@allpointstech.com.

This protection program consists of several components: education of all contractors and sub-contractors prior to initiation of work on the site; protective measures; wetland restoration measures; petroleum storage and spill prevention; vernal pool/wetland protection measures; turtle protection measures; grassland bird protection measures and mowing restrictions; and, reporting.

1. Contractor Education

- a. Prior to work on site, the Contractor shall attend an educational session at the pre-construction meeting with APT. This orientation and educational session will consist of an introductory meeting with APT to emphasize the environmentally sensitive nature of the project, the various wetland, vernal pool and rare species resources, and the requirement to diligently follow the Protective Measures as described in sections below. Workers will also be provided information regarding the identification of other turtles, snakes, common herpetofauna, and rare grassland bird species that could be encountered, typical species behavior, and proper procedures if species are encountered. The importance of protecting nearby wetland and vernal pool resources will also be stressed as part of this educational session.
- b. The education session will also focus on means to discriminate between the species of concern and other native species to avoid unnecessary “false alarms”. Encounters with any species of turtles, snakes and amphibians will be documented.
- c. The Contractor will designate one of its workers as the “Project Monitor” to be responsible for the periodic “sweeps” for rare species and herpetofauna within the construction zone each morning and for any areas of ground disturbance work. This individual will receive more intense training from APT on the identification and protection of rare species and herpetofauna in order to perform sweeps. Any herpetofauna discovered would be translocated outside the work zone in the general direction the animal was oriented.
- d. APT will also post Caution Signs throughout the project site for the duration of the construction project to maintain worker awareness as the project progresses providing notice of the environmentally sensitive nature of the work area, the potential for encountering various rare species, amphibians and reptiles and precautions to be taken to avoid injury to or mortality of these animals.
- e. The Contractor will be provided with cell phone and email contacts for APT personnel to immediately report any encounters with any rare species. If any rare species are encountered, the Contractor shall immediately cease all work, avoid any disturbance to the species, and contact APT.

2. Isolation Measures & Sedimentation and Erosion Controls

- a. All erosion and sedimentation controls shall conform to the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, DEP Bulletin 34.
- b. Plastic netting used in a variety of erosion control products (i.e., erosion control blankets, fiber rolls [wattles], reinforced silt fence) has been found to entangle wildlife, including reptiles, amphibians, birds, and small mammals, but particularly snakes. No permanent erosion control products or reinforced silt fence will be used on the project. Temporary erosion control products will use either erosion control blankets and fiber rolls composed of processed fibers mechanically bound together to form a continuous matrix (netless) or netting composed of planar woven natural biodegradable fiber to avoid/minimize wildlife entanglement.
- c. Installation of sedimentation and erosion controls, required for erosion control compliance and creation of a barrier to possible migrating/dispersing turtles, shall be performed by the Contractor following clearing activities and prior to any earthwork. The Environmental Monitor will inspect the work zone area prior to and following erosion control barrier installation to

ensure the area is free of turtles and other herpetofauna and document barriers have been satisfactorily installed. The intent of the barrier is to segregate the majority of the work zone and isolate it from nesting/foraging/migrating/dispersing turtles, snakes and other herpetofauna. Oftentimes complete isolation of a work zone is not feasible due to accessibility needs and locations of staging/material storage areas, etc. Although the barriers may not completely isolate the work zone, they will be positioned to deflect migrating/dispersal routes away from the work zone to minimize potential encounters with turtles, snakes and other herpetofauna.

- d. Exclusionary fencing for turtles shall be at least 20 inches tall and must be secured to and remain in contact with the ground and be regularly maintained by the contractor (at least bi-weekly and after major weather events) to secure any gaps or openings at ground level that may let animal pass through.
- e. Silt fencing shall consist of non-reinforced conventional erosion control woven fabric, installed approximately six inches below surface grade and staked at seven to ten-foot intervals using four-foot oak stakes or approved equivalent.
- f. The Contractor shall be responsible for daily inspections of the sedimentation and erosion controls, including but not limited to for tears or breeches and accumulation levels of sediment, particularly following storm events that generate a discharge as defined by and in accordance with applicable local, state and federal regulations.
- g. The Contractor shall notify the Environmental Monitor within 24 hours of any breeches of the sedimentation and erosion controls and any sediment releases beyond the perimeter controls that impact wetlands, watercourses or within 100 feet of wetlands and watercourses.
- h. APT will provide periodic inspections of the sedimentation and erosion controls throughout the duration of construction activities only as it pertains to their function as isolation measures for the purposes of this protection plan. Third party monitoring of sedimentation and erosion controls will be performed by other parties, as necessary, under applicable local, state and/or federal regulations and other project authorizations (i.e., DEEP stormwater permit, etc.).
- i. The APT Environmental Monitor will provide periodic inspections of the sedimentation and erosion controls throughout the duration of construction activities only as it pertains to this resource protection plan, which will generally occur on a monthly basis. If APT is notified by the Contractor of a breach in sediment and erosion controls resulting in a sediment release, an inspection will be scheduled specifically to investigate and evaluate possible impacts to resource areas, with a focus on nearby wetland resources.
- j. The extent of the sedimentation and erosion controls will be as shown on the site plans. The Contractor shall have additional sedimentation and erosion controls stockpiled on site should field or construction conditions warrant extending the controls as directed by APT or other regulatory agencies.
- k. No equipment, vehicles or construction materials shall be stored outside of the sedimentation and erosion controls within 100 feet of wetlands or watercourses.
- l. All sedimentation and erosion controls shall be removed within 30 days of completion of work and permanent stabilization of site soils so that reptile and amphibian movement between uplands and wetlands is not restricted. If fiber rolls/wattles, straw bales, or other natural material erosion control products are used, such devices will not be left in place to biodegrade

and shall be promptly removed after soils are stable so as not to create a barrier to migrating wildlife. Seed from seeding of soils should not spread over fiber rolls/wattles as it makes them harder to remove once soils are stabilized by vegetation.

3. Wetland Restoration Measures

- a. Flag or fence project limits of disturbance within all wetland areas and areas within 100 feet of wetlands prior to any work in wetland areas.
- b. Locate staging areas and access points. Staging areas should be located at least 50 feet from the edge of the wetland. Install sediment barriers down slope of any staging areas or access points.
- c. Swamp mats, timber mats, truck mats or similar devices shall be used during the crossings of wetlands. Such devices shall be installed prior to clearing, grubbing or excavation activities.
- d. Clearing, grubbing and utility trenching activities may not commence in any stage or phase of the project until the erosion and sedimentation controls specified by this protection plan and as detailed on the project site plans have been installed and have been reviewed and approved by the Environmental Monitor to ensure erosion controls are properly installed.
- e. Soil excavated from wetland areas shall be carefully removed with the roots intact. This soil should be placed in a separate stockpile to be reused during the wetland restoration work. Both wetland topsoil and subsoil shall be segregated into separate stockpiles.
- f. Soil excavated from the utilities trench located within or adjacent to wetlands shall be temporarily placed on geotextile fabric.
- g. Dewatering of the utility trench excavation shall be pumped to a sediment filter bag or temporary sediment basin, following requirements as noted in Section 2.
- h. Install pipe and trench plugs in wetland areas, as necessary, to prevent the trench from draining the wetland or changing its hydrology, as determined by the Environmental Monitor.
- i. Backfill pipe trench. Backfill first with stockpiled wetland subsoil, with the top 12-inches of the excavated trench filled with the stockpiled wetland topsoil to match original surface grades.
- j. No soil amendments such as agricultural lime, fertilizer, etc. will be used within wetland areas.
- k. Compact backfill and grade the surface of the trench area to allow for positive drainage to soil erosion and sediment controls and to prepare disturbed areas for permanent trench restoration.
- l. Original grades through wetlands must be restored after trenching and backfilling. Any excess fill materials must be removed from the wetland and not spread on-site.
- m. Seed disturbed wetland areas with a New England Wet Seed Mix (New England Wetland Plants, Inc., or approved equivalent) at the manufacturers recommended seed rate. Mulch disturbed wetland areas with non-woven natural fiber erosion control blanket or 1 to 2 inches of clean straw mulch.
- n. Seed disturbed upland areas with a New England Semi-Shade Grass and Forbs Mix (New England Wetland Plants, Inc., or approved equivalent) at the manufacturers recommended seed

rate. Mulch disturbed areas with non-woven natural fiber erosion control blanket or 1 to 2 inches of clean straw mulch.

- o. Maintain all erosion and sedimentation control devices until site work is complete and a uniform 70% perennial vegetative cover is established as confirmed by the Environmental Monitor.
- p. Remove all soil and erosion sediment control measures within 30 days upon establishment of a uniform 70% vegetative cover over the disturbed area. Re-grade and revegetate areas disturbed during the removal of the soil erosion and sediment controls.

4. Petroleum Materials Storage and Spill Prevention

- a. Certain precautions are necessary to store petroleum materials, refuel and contain and properly clean up any inadvertent fuel or petroleum (i.e., oil, hydraulic fluid, etc.) spill to avoid possible impact to resources.
- b. A spill containment kit consisting of a sufficient supply of absorbent pads and absorbent material will be maintained by the Contractor at the construction site throughout the duration of the project. In addition, a waste drum will be kept on site to contain any used absorbent pads/material for proper and timely disposal off site in accordance with applicable local, state, and federal laws.
- c. The following petroleum and hazardous materials storage and refueling restrictions and spill response procedures will be adhered to by the Contractor.

- i. Petroleum and Hazardous Materials Storage and Refueling

- 1. Refueling of vehicles or machinery shall occur a minimum of 100 feet from wetlands or watercourses and shall take place on an impervious pad with secondary containment designed to contain fuels.
 - 2. Any fuel or hazardous materials that must be kept on site shall be stored on an impervious surface utilizing secondary containment a minimum of 100 feet from wetlands or watercourses.
 - 3. The contractor shall inspect all equipment at the beginning and end of each day for any fuel or hydraulic leaks and if discovered shall take immediate steps to make repairs and clean up any discharges as detailed in the following sections.

- ii. Initial Spill Response Procedures

- 1. Stop operations and shut off equipment.
 - 2. Remove any sources of spark or flame.
 - 3. Contain the source of the spill.
 - 4. Determine the approximate volume of the spill.
 - 5. Identify the location of natural flow paths to prevent the release of the spill to sensitive nearby waterways or wetlands.
 - 6. Ensure that fellow workers are notified of the spill.

iii. Spill Clean Up & Containment

1. Obtain spill response materials from the on-site spill response kit. Place absorbent materials directly on the release area.
2. Limit the spread of the spill by placing absorbent materials around the perimeter of the spill.
3. Isolate and eliminate the spill source.
4. Contact the appropriate local, state and/or federal agencies, as necessary.
5. Contact a disposal company to properly dispose of contaminated materials in accordance with all local, state, and federal regulations.

iv. Reporting

1. Complete an incident report.
2. Submit a completed incident report to the Connecticut Siting Council, and other applicable local, state, and federal officials.

5. Herbicide, Pesticide and Salt Restrictions

- a. The use of herbicides and pesticides at the facility shall be restricted. In the event herbicides and/or pesticides are required at the facility (i.e., to assist in management of invasive species within habitat enhancement areas), their use will be used in accordance with Integrated Pest Management (“IPM”) principles with particular attention to minimize applications within 100 feet of wetland or watercourse resources. No applications of herbicides or pesticides are allowed within actual wetland or watercourse resources.
- b. Maintenance of the facility during the winter months shall not include the application of salt or similar products for melting snow or ice.

6. Vernal Pool Protective Measures

- a. A thorough cover search of the construction area will be performed by APT’s Environmental Monitor for herpetofauna (amphibians and reptiles) prior to and following installation of the silt fencing barrier to remove any species from the work zone prior to the initiation of construction activities. Any herpetofauna discovered would be carefully translocated outside the work zone in the general direction the animal was oriented. Periodic inspections will be performed by APT’s Environmental Monitor throughout the duration of the construction.
- b. Any stormwater management features, ruts or artificial depressions that could hold water created intentionally or unintentionally by site clearing/construction activities will be properly filled in and permanently stabilized with vegetation to avoid the creation of vernal pool “decoy pools” that could intercept amphibians moving toward the vernal pools. Stormwater management features such as level spreaders will be carefully reviewed in the field to ensure that standing water does not endure for more than a 24-hour period to avoid creation of decoy pools and may be subject to field design changes. Any such proposed design changes will be reviewed by the design engineer to ensure stormwater management functions are maintained.

7. Turtle Protective Measures - Active Period (March 15th to November 1st)

- a. Prior to construction and following installation of isolation barriers, the construction area will be swept by APT and any turtles occurring within the work area will be relocated to suitable habitat outside of the isolation barriers.
- a. Prior to the start of construction each day, the contractor shall search the entire work area for turtles.
- b. If a turtle is found during the active period, it shall be immediately moved, unharmed, by carefully grasped in both hands, one on each side of the shell, between the turtle's forelimbs and the hind limbs, and placed just outside of the isolation barrier in the same approximate direction it was heading. These animals are protected by law and no turtles should be relocated from the property.
- c. Special care shall be taken by the contractor during early morning and evening hours so that possible basking or foraging turtles are not harmed by construction activities.
- d. The contractor shall be particularly diligent during the months of May and June when turtles are actively selecting nesting sites which results in an increase in turtle movement activity.
- e. No heavy machinery or vehicles may be parked in any turtle habitat.
- f. Special precautions must be taken to avoid degradation of wetland habitats including any wet meadow habitat and vernal pools.

8. Turtle Protective Measures – Dormant Period (November 1st to March 15th)

- a. Do not conduct land clearing activities within 100 feet of wetlands during the turtle's dormant period.
- b. Avoid and limit any equipment use within 100 feet of wetlands and no heavy machinery or vehicles may be parked in any turtle habitat or within 100 feet of wetlands.

9. Rare Grassland Birds Protective Measures During Construction

- a. If construction activities are to occur during the active peak breeding season for rare grassland bird species (May 20 to August 20), these birds should be deterred from nesting within the Project limits by implementing the following measures.
- b. The Project area should be mowed continuously twice per week starting on May 1st and continuing until construction begins.
- c. Vegetation should not be allowed to exceed three inches in height during this period.
- d. The twice per week mowing schedule should be maintained regardless of vegetation height (i.e., even if vegetation height remains below three inches), to serve as an additional deterrent to nest establishment.
- e. Field surveys by qualified biologists should occur during this mowing period and through the month of May until construction begins to ensure that the measures are effectively deterring nest establishment. If this proves unsuccessful, remedial measures will be recommended.
- f. For maintenance of the Facility once construction has been completed, mowing activities should be restricted as outlined in Section 8: Site Management Protection Measures (Mowing).

10. Rare Grassland Birds Site Management Measures (Mowing)

- e. The following measures are intended for implementation within the fenced solar-powered generation facility. The likelihood of nesting occurring within the fenced compound, and amongst the arrays themselves, is low. However, these birds may breed in the contiguous grassland habitat adjacent to the facility and therefore would be subject to secondary impacts such as noise or visual disturbance that may affect nesting. Additionally, there is the potential for adults and fledglings to feed within the fenced compound.
- f. Timing of Mowing/Vegetation Maintenance: If possible, mowing should be avoided from May 15th through August 15th to minimize impacts to nesting birds. For the benefit of birds as well as terrestrial wildlife, mowing conducted once per season is optimal, after October 15th when most species have entered fall/winter dormancy.
- g. Mowing Type/Method:
 - 1. Mower Speed: Mowing at slow speeds will allow animals to react and move out of the field.
 - 2. Mowing style: Avoid flail mower heads with guide bars that ride along the ground. Sickle bar mowers will have the least impact if mowing every 1-5 years.
 - 3. Mowing height: If mowing during the breeding season, retention of mowing stubble at a minimum height of 7 inches will reduce mortality and will leave important cover for wildlife.
 - 4. Directionality: If mowing during the breeding season is necessary, start mowing closest to the arrays and move outward toward the edge of the array field.
- h. Pre-Mowing Nest Surveys: If mowing outside of the nesting season is not possible, a pre-mowing inspection by an ornithologist is recommended to confirm that no nests are present within the mowing limits. That survey should occur no more than one week prior to the start of mowing. Any activity by target species should be field flagged and/or conveyed to the contractor. If a nest site is observed within the mowing limits, no mowing should occur within 100 feet of the nest site until it is inactive and the fledglings are fully mobile.

11. Reporting

- a. Compliance Monitoring Reports (brief narrative and applicable photos) documenting each APT inspection will be submitted by APT to the Permittee/Facility Owner and its Contractor for compliance verification of these protection measures. These reports are not to be used to document compliance with any other permit agency approval conditions (i.e., DEEP Stormwater Permit monitoring, etc.). Any non-compliance observations of erosion control measures or evidence of erosion or sediment release by APT's Environmental Monitor will be reported within 24 hours to the Permittee/Facility Owner and its Contractor and included in the reports along with any observations of rare species or herpetofauna.
- b. Following completion of the construction project, APT will provide a Compliance Monitoring Summary Report to the Permittee/Facility Owner documenting implementation of this resource protection program, monitoring and any species observations. The Permittee/Facility Owner

shall provide a copy of the Compliance Monitoring Summary Report to the Connecticut Siting Council for compliance verification.

- c. Any observations of rare species will be reported to DEEP by APT on the appropriate special animal reporting form, with photo-documentation (if possible) and specific information on the location and disposition of the animal.

Test Report

REPORT No.: SHE20-03744

ATTENTION: Ming HOU

DATE RECEIVED: 2020/04/30

CUSTOMER: Suzhou Talesun Solar Technologies Co., Ltd.

DATE REPORTED: 2020/05/15

No.1 Talesun Road, Changkun Industrial Park, Shajiabang Town, Changshu, 215542 Suzhou

SAMPLE (S): Other (Solid) (1)

REFERENCE: -

REMARKS

1.The results apply to the sample(s) as received

Edited by:
Min ZHOU

Reviewed by:
Jun MENG

Approved by:
Liqiong TANG



声明 Statement

1. 检测报告无本实验室检验检测专用章无效。

The test report is invalid without the official seal of the laboratory.

2. 未经本公司书面许可，不得复制(全文复制除外)检测报告。

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3. 检测报告无编制、审核、批准人签字无效。

The test report is invalid without the signature of the compiler, the checker and the approver

4. 检测报告涂改无效。

The test report is invalid if altered.

5. 本检测报告以中文为准，英文文本(如有)仅为译文，两者发生冲突时，应以中文文本为准。

The test report has been drafted in Chinese and translated into English (if applicable) for convenience only. In the event of discrepancy, the Chinese version shall prevail.

6. 如对本检测报告有异议，请在收到报告10天之内与本公司联系。

Should you have any queries or objection to the test report, please contact us within 10 days after receiving the report.

符号表/Legend

NA 样品未测试该参数/The sample was not analysed for this analyte

↑ 提高检出限/Detection limit raised

↓ 降低检出限/Detection limit lowered

ND 未检出/Not Detected



INORGANIC & ORGANIC ANALYSIS

Report No.: SHE20-03744

Customer Reference: -

ITEM	METHOD	Lab ID		Limit	SHE20-03744.001
		LOR	UNIT		
Arsenic (As)	USEPA 200.8-1994	0.050	mg/L	≤5	<0.050
Barium (Ba)	USEPA 200.8-1994	0.010	mg/L	≤100	<0.010
Cadmium (Cd)	USEPA 200.8-1994	0.001	mg/L	≤1	<0.001
Chromium (Cr)	USEPA 200.8-1994	0.010	mg/L	≤5	<0.010
Lead (Pb)	USEPA 200.8-1994	0.010	mg/L	≤5	14.2
Selenium (Se)	USEPA 200.8-1994	0.050	mg/L	≤1	<0.050
Silver (Ag)	USEPA 200.8-1994	0.010	mg/L	≤5	<0.010
Mercury (Hg)	USEPA 7473-2007	0.005	mg/L	≤0.2	<0.005
2,4-D	USEPA 8151A-1996	0.0005	mg/L	≤10	<0.0005
2,4,5-TP (Silvex, Fenopop)	USEPA 8151A-1996	0.0005	mg/L	≤1	<0.0005
Benzene	USEPA 8260D-2018	0.0005	mg/L	≤0.5	<0.0005
Carbon tetrachloride	USEPA 8260D-2018	0.0005	mg/L	≤0.5	<0.0005
Chlorobenzene	USEPA 8260D-2018	0.0005	mg/L	≤100	<0.0005
Chloroform	USEPA 8260D-2018	0.0005	mg/L	≤6	<0.0005
1,4-Dichlorobenzene	USEPA 8260D-2018	0.0005	mg/L	≤7.5	<0.0005
1,2-Dichloroethane	USEPA 8260D-2018	0.0005	mg/L	≤0.5	<0.0005
1,1-Dichloroethene	USEPA 8260D-2018	0.0005	mg/L	≤0.7	<0.0005
2-butanone(MEK)	USEPA 8260D-2018	0.020	mg/L	≤200	<0.020
Tetrachloroethene	USEPA 8260D-2018	0.0005	mg/L	≤0.7	<0.0005
Trichloroethene	USEPA 8260D-2018	0.0005	mg/L	≤0.5	<0.0005
Vinyl chloride	USEPA 8260D-2018	0.0005	mg/L	≤0.2	<0.0005
2,4-Dinitrotoluene	USEPA 8270E-2018	0.0005	mg/L	≤0.13	<0.0005
Hexachlorobenzene	USEPA 8270E-2018	0.0005	mg/L	≤0.13	<0.0005
Hexachlorobutadiene	USEPA 8270E-2018	0.0005	mg/L	≤0.5	<0.0005



INORGANIC & ORGANIC ANALYSIS

Report No.: SHE20-03744

Customer Reference: -

ITEM	METHOD	Lab ID		Limit	SHE20-03744.001
		LOR	UNIT		
Hexachloroethane	USEPA 8270E-2018	0.0005	mg/L	≤3	<0.0005
Nitrobenzene	USEPA 8270E-2018	0.0005	mg/L	≤2	<0.0005
Pentachlorophenol	USEPA 8270E-2018	0.0025	mg/L	≤100	<0.0025
Pyridine	USEPA 8270E-2018	0.002	mg/L	≤5.0	<0.002
2,4,5-Trichlorophenol	USEPA 8270E-2018	0.0005	mg/L	≤400	<0.0005
2,4,6-Trichlorophenol	USEPA 8270E-2018	0.0005	mg/L	≤2	<0.0005
Methylphenol	USEPA 8270E-2018	0.001	mg/L	≤200	<0.001
2-Methylphenol	USEPA 8270E-2018	0.0005	mg/L	≤200	<0.0005
3&4-Methylphenol	USEPA 8270E-2018	0.0005	mg/L	≤200	<0.0005
Endrin	USEPA 8270E-2018	0.0005	mg/L	≤0.02	<0.0005
γ-BHC	USEPA 8270E-2018	0.0005	mg/L	≤0.4	<0.0005
Toxaphene	USEPA 8270E-2018	0.050	mg/L	≤0.5	<0.05
Methoxychlor	USEPA 8270E-2018	0.0005	mg/L	≤10	<0.0005
Heptachlor	USEPA 8270E-2018	0.0005	mg/L	≤0.008	<0.0005
Chlordane(Total)	USEPA 8270E-2018	0.001	mg/L	≤0.03	<0.001

Remark:

Preparative method:USEPA1311-1992(Toxicity Characteristic Leaching Procedure)

The Limits comes from CFR(code of federal regulations) title 40 part 261.24.

The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc... and just for client internal reference.



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Method List

USEPA 200.8-1994 Metals ICP-MS
 USEPA 7473-2007 Metals-Hg
 USEPA 8151A-1996 Acid Herbicides in Water by GC-MS
 USEPA 8260D-2018 VOCs
 USEPA 8270E-2018 SVOCs

Equipment information

Method:USEPA 200.8-1994

Equipment Name	Model	Equipment Number	Serial Number
ICP-MS	Agilent 7900	CHEM-968	JP 16311502

Method:USEPA 7473-2007

Equipment Name	Model	Equipment Number	Serial Number
Hg analyzer	Milestone DMA-80	CHEM-858	16041978

Method:USEPA 8151A-1996

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890A/5975C	CHEM-ENV086	CN12371032/US12362417

Method:USEPA 8260D-2018

Equipment Name	Model	Equipment Number	Serial Number
PT-GC-MS	Agilent 4660/7890B/5977A	CHEM-ENV081/092	H205466317P/CN13313013/US1330M207

Method:USEPA 8270E-2018

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977B	CHEM-1013	CN16433131/US1643M01

Method:USEPA 8270E-2018

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977B	CHEM-1013	CN16433131/US1643M01



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APPENDIX 1

Report No.: SHE20-03744

Customer Reference: -



APPENDIX 2

Report No.:SHE20-03744

Customer Reference: -



End of report

Page 7 of 7



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DECOMMISSIONING PLAN

I. Summary

The decommissioning of the solar photovoltaic project includes the removal of all components associated with the project and the restoration of the site to its condition at the time of commencement of construction. The goal of which is to remove all equipment installed for the purpose of power. The decommission process will include the de-energization of the solar project, the removal of PV modules, the removal of the PV module steel racking system, the removal of driven steel foundations, the removal of concrete pads, the removal of all buried conduit and conductors, the removal of inverters, the removal of transformers, the removal of security fencing, the removal of access roads and the revegetation of the site. Many of the components including electrical components, steel structures, PV modules and conductors can be recycled. All aspects of the decommissioning process will be in accordance with local permitting requirements as well as all applicable federal, state, and local laws. An on-site manager will be designated to the decommissioning process. The on-site manager will be responsible for the successful completion of the decommissioning process as well as the safety of the workers, public health, and environment of the project site for the duration of the work. TRITEC Americas, LLC will be responsible for the decommissioning of the project in accordance with this scope.

II. Decommissioning and Restoration Process

Petitioner will remove all associated components of the Project in approximately eight (8) weeks. Debris and recyclable material will be placed in temporary storage locations on-Site pending permanent removal. Approximately 95% of materials are recyclable and will be transported to the appropriate recycling facilities. Any non-recyclable material will be transported to a nearby landfill and properly disposed of in accordance with state and federal law. The total decommissioning process will be comprised of five (5) steps as more thoroughly discussed below:

- a. Mobilization:** The decommissioning process will require the mobilization of construction equipment, tools, trash containers, and material transportation trucks.
- b. Module and Rack Disassembly:** The first component to address in the decommissioning process is the photovoltaic array and its associated racking structure. Certified electricians will de-energize the circuits and confirm the array is safe for disassembly. Modules will then be removed individually and temporarily stored on-site. The modules will be assessed for value at the time of decommissioning and either recycled or transported to an appropriate disposal site.

The steel racking structure will be unbolted and disassembled. Steel posts embedded in the ground that support the module racking system will be removed using construction equipment. Since the posts have no concrete foundation, associated holes will be small during the removal process. Any resulting holes

will be backfilled with local soil to match existing soil conditions. All steel associated with the module racking structure will be transported to a steel recycling site.

- c. **Electrical Component Removal:** Certified electricians will de-energize circuits and confirm the components are safe for removal. The transformers contains an environmentally safe mineral oil which will be contained and recycled separately from the equipment. The equipment will be removed, aggregated on-site, and transported to an appropriate electrical recycling facility.

There will be eight (8) concrete pads, one for each transformer. The transformer pads are proposed to be a 15' x 10' x 1' slab consisting of 5.56 yards of concrete each. The concrete will be demolished using jackhammers and hauled to an appropriate concrete disposal site.

The electrical conductors/wiring will be removed from above ground and underground locations. Underground conduit is assumed to be excavated to a depth of 3' below grade. All excavated areas will be filled, compacted and regraded. All electrical conductors and associated conduit will be removed and recycled. The overhead interconnection circuit which connects the solar project to the utility distribution circuit on Wrights Crossing Road is owned and operated by Eversource Energy. At the time of decommissioning, the circuit consisting of eighteen (18) overhead utility poles may remain in place if the landowner prefers this circuit for future use on the site. If the circuit is not to be used, the associated poles and conductors will be removed.

- d. **Perimeter Fence:** The seven-foot (7') steel perimeter security fence will remain in place during the decommissioning process for security and public safety. Once power generation materials have been properly disposed, the security fence will be dismantled. Components will be transported to an appropriate recycling site.
- e. **Civil Site Restoration:** The gravel access road will remain in place during the decommissioning process. Once associated components and materials have been properly disposed, the gravel access road will be removed.

The civil site restoration will target the restoration of the property to pre-project conditions. Any excavated areas will be backfilled and compacted with local soils to match surrounding topography. Any compacted areas that will inhibit the growth of new vegetation will be aerated to encourage new vegetative cover. Aeration, de-compaction, disking and seeding processes will be utilized as needed to encourage full vegetative coverage.