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April 22, 2022

**FILED BY ELECTRONIC MAIL AND HAND DELIVERY**

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

Re: **PETITION NO. 1492** – CT NSB ProjectCo 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 1.99-megawatt AC solar photovoltaic electric generating facility located at 486 Fitch Hill Road, Montville (Uncasville), Connecticut, and associated electrical interconnection.

Dear Attorney Bachman:

On behalf of CT NSB ProjectCo LLC (“Petitioner”), please accept the enclosed responses to the interrogatories provided by the Connecticut Siting Council (“Council”) on March 28, 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,

A handwritten signature in blue ink that reads 'Paul R. Michaud'.

Paul R. Michaud  
Dylan J. Gillis

**Petition No. 1492**  
**CT NSB ProjectCo LLC**  
**486 Fitch Hill Road, Montville**

**Interrogatories**

**Project Development**

1. The Petition (p. 4) 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 Montville 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. Petitioner held two outreach meetings, but no abutters attended.**

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 1,990,000 Watts, or about \$6,407,800.**



### **Proposed Site**

5. Provide a map clearly depicting the boundaries of the **solar project site** and the boundaries of the host parcel. 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 residential, and this is not expected to change.**

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 off-site residence from the solar field perimeter fence.

**Response:**

**The nearest off-site residence from the perimeter fence is approximately 800’ to the north at 416 Fitch Hill 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. The Site Plans identify two separate solar array systems. Will these systems operate independently such that if an interconnection failure or maintenance shut down occurs at one, the other will continue to operate?

**Response:**

**There are eight separate solar array systems, but yes, if one system is disconnected for maintenance, then the other seven can continue operating.**

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. What is the grass aisle width between the solar panel rows from top panel edge to bottom panel edge?

**Response:**

**8' between the rows of modules.**

18. Referring to Site Plan OP-2, what is the Town of Montville's Zoning Building Setback Line? Can the Project be altered so that the solar array remains out of the Zoning Building Setback Line?

**Response:**

**The Montville Zoning Regulations (dated May 18, 2020) cite a side yard setback of 20' and a rear yard setback of 50' in the R-80 Zone. For purposes of this Petition, the north parcel boundary would be considered the side yard property line and the east parcel boundary would be considered the rear yard property line. The proposed solar array as currently designed remains outside the side and rear yard setback lines.**

19. Referring to Site Plan OP-2, a shading limit is shown south of the solar array area. Does this limit represent shading after or before site clearing?

**Response:**

**The shading limit shown on Site Plan Sheet OP-2 represents shading after the proposed clearing activities.**

20. Would the tracker racking system move in an up and down or side to side motion?

**Response:**

**The proposed tracker racking system for this site moves on a single axis from east to west. The panel system would be pitched toward the east in the morning and rotate to the west as the sun progresses throughout the day. For additional information, see Detail 2 on Sheet DN-1 of the Site Plans.**

21. Referencing petition p. 8, the narrative mentions a single pad for a transformer but also states there are eight pads. Clarify what equipment would be included on each pad.

**Response:**

**There are eight total transformers. One per system. Each pad has inverters, a panel, and a transformer.**

**Interconnection**

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

**Response:**

**No.**

23. What is the line voltage of the electrical interconnection?

**Response:**

**Utility Voltage is 13.2kV.**

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

**Response:**

**Approximately 1500' of Overhead Power lines will be added between the PV arrays to the (E) utility distribution line on the main road.**

25. Site Plan SP-04 indicates 15 utility poles are required for this project. Provide the following.  
a) What is the height of the proposed utility poles?

**Response:**

**Poles are 50ft, 40ft above ground**

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

**Response:**

**Poles 1-10 will be owned by the Utility. The rest will be owned by the Customer.**

- c) Why are there parallel sets of utility poles near Fitch Hill Road with a branching overhead wire configuration? (one western interconnect pole has three wires connecting to three poles and a second western interconnect pole has four wires connecting to four poles)

**Response:**

**The 2 poles that connect to multiple others are where multiple customer disconnects will be mounted. This was done in an effort to reduce the number of poles. They connect to individual meter poles, as the utility wants 1 meter per pole.**

- d) Provide a one-line drawing of the pole configuration and indicate the locations for reclosures, meters and other pole-mounted equipment.

**Response:**

**Please see Attachment B.**

- e) 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. See Attachment B.**

- f) Is it possible to reduce the number of utility poles required for the Project by undergrounding 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.**

- g) Can the interconnection line be moved to the southeast to avoid/reduce clearing within the wetland?

**Response:**

**No. The property owner directed the Petitioner to use this location in order to allow for future expansion of their farming operations into this open field area.**

**Tree removal work within the wetlands does not require equipment to be placed in the wetlands, no stump removal or soil disturbance would occur, the underlying shrub layer would be preserved, and the area of limited wetland tree removal is adjacent to the existing open field. The wetland functions and values will not be significantly affected by this small area of selective tree removal.**

- h) Can pad mounted transformers be used to reduce the number of utility poles? What would be the cost of a pad mounted interconnection design?

**Response:**

**Please see response to 25f). Pad mounting the transformers would significantly increase total project costs.**

- i) Is it possible to extend the utility poles along the proposed access drive towards the barns to avoid wetland clearing?

**Response:**

**No. The property owner directed the Petitioner to use this location in order to allow for future expansion of their farming operations into this open field area.**

**Tree removal work within the wetlands does not require equipment to be placed in the wetlands, no stump removal or soil disturbance would occur, the underlying shrub layer would be preserved, and the area of limited wetland tree removal is adjacent to the existing open field. The wetland functions and values will not be significantly affected by this small area of selective tree removal.**

**Public Safety**

26. 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.**

27. 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.**

28. 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:**

**Residences on the site and surrounding properties are served by private water wells. Although the specific construction of these potable drinking water wells is unknown, they are likely installed within the bedrock aquifer. The project is located on thick glacial till surficial geology deposits. Encountering bedrock or excessive vibrations from driving the racking posts is not anticipated and would not be a concern for causing sediment releases to nearby wells or effect the water quality of the bedrock aquifer. 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.**

29. Referencing Petition Environmental Assessment - p. 33, provide the calculated noise level from Project operations to the nearest property line.

**Response:**

**67dBA @ 10' from the inverter. The closest inverter is 1300 ft from the road.**

30. 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 a safety related concern?

**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.**

#### **Environmental**

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

**Response:**

**The maximum ground slope within the solar array area is 28.5% in a minute area the southeastern portion of the facility. The slope analysis as seen on sheet EX-1 on the revised Site Plans (see Attachment C) is based on LiDAR data. Areas of steep slope can reference, for example, tree stumps, fallen trees, and stone walls and may not represent actual grade conditions.**

32. Referencing Petition Environmental Assessment - p. 20, provide a species detail sheet for the Ernst Pollinator-friendly Solar Farm Seed Mix proposed for the site (it is not provided on Sheet DN-1).

**Response:**

**Two seed mixes will be utilized. The Ernst Seeds ERNMX-147 ("Fuzz and Buzz Mix"), or equivalent, would be used within the fenced Facility. The Ernst Seeds ERNX-610 ("Northeast Solar Pollinator Buffer Mix"), or equivalent, would be utilized in areas outside of the fenced compound. See Attachment D.**

33. Referencing Petition Environmental Assessment- Appendix B, would the Petitioner be willing to adhere to one or both of the recommended tree clearing restrictions to protect the Northern Long-eared bat? How would a tree clearing restriction impact the Project schedule and/or site phasing?

**Response:**

**The Petitioner would consider observing the voluntary tree removal recommendations for Northern Long-Eared Bat by avoiding tree clearing during the June 1<sup>st</sup> through July 31<sup>st</sup>**

pup season period. The Petitioner would also consider expanding that tree clearing restriction period to mid-May in order to avoid the early portion of the peak bird nesting period for species that may be using the forest habitat for breeding (mid-May to mid-June). Based on the currently planned construction schedule, which is anticipated to start in mid-to late-summer 2022 once all regulatory authorizations have been secured, adhering to this voluntary tree clearing time-of-year restriction would not significantly impact the project schedule.

34. Referencing Petition Attachment G, Environmental Assessment p. 24, describe the wildlife value of a small core forest block. (the link in the footnote does not connect)

**Response:**

Core forest blocks offer habitat for both edge-intolerant and edge-tolerant species. Large, unfragmented blocks of forest offer habitat, provide connectivity and corridors for species migration, and maintain overall biodiversity for edge-intolerant species. For edge-intolerant species, the recommended minimum core forest block size is 500 acres, while the absolute minimum size is 250 acres. The proposed Project is within a  $\pm 44$ -acre small core forest patch that contains a significant percentage of edge habitat so does not support habitat for edge-intolerant species.

The small core forest block on-site does still retain value for edge-tolerant wildlife. The proposed Project will result in  $\pm 18$  acres of core forest impact to the approximate 44-acre block. Edge-tolerant wildlife species would continue to use the surrounding forest habitat following construction of the Facility. Forested habitat would still be retained surrounding the Facility in all directions, thus preserving connectivity to other existing forested habitats and wildlife corridors.

One potential wildlife impact to core forest habitats is the establishment of invasive species of plants that colonize soils disturbed by development. To address this potential concern, the Petitioner will implement an Invasive Species Control Plan during construction. Please refer to the enclosed Invasive Species Control Plan provided in Attachment E.

35. Referencing Petition Environmental Assessment. p. 15, why was the agricultural field considered undeveloped habitat for vernal pool species? Do active agricultural fields provide suitable habitat for spotted salamanders and/or wood frog?

**Response:**

Vernal pool indicator species such as wood frog or spotted salamander rely primarily on both forested wetland and forested terrestrial habitats, but not all vernal pool species avoid open grassy habitats entirely. For example, wood frogs are known to utilize herbaceous sunny ecotones within or adjacent to forested habitat. However, the use of such open field habitats is generally transient in nature and expected to primarily be confined to field edges, unless the open field provides a migratory vector to other important forested habitat or breeding pool locations. Spotted salamanders have also been observed crossing through open field habitats under similar conditions. Therefore, the agricultural field would not be considered “developed” as it relates to performing a vernal pool impact analysis.



36. 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:**

**The Petitioner has not yet met with the DEEP Stormwater Division. An application for the State Stormwater Permit is expected to be submitted mid-May 2022.**

37. What is the anticipated depth to groundwater in the area of the Stormwater Basin P-2B?

**Response:**

**Groundwater elevations are currently unknown. As referenced in the response to Interrogatory No. 47, a geotechnical field investigation is being performed with an expected date of completion and findings in May 2022. Extrapolating the seasonal high groundwater table from the elevation of the nearby wetland boundary, the seasonal high groundwater elevation could be in the 245'-247' range below the existing ground surface at stormwater basin P-2B.**

38. Would Stormwater Basin P-2B intercept groundwater in the Spring so that it partially fills with water? If yes, how is the reduced storage capacity of the basin accounted for in the stormwater management design? Could intercepted groundwater within the basin act as a decoy pool for vernal pool species?

**Response:**

**Stormwater Basin P-2B could intercept seasonally high groundwater so that it partially fills with water. The design can be modified to incorporate a low-level outlet so that the basin drains after a rain event should high groundwater conditions and/or low infiltration rates be encountered during the geotechnical investigation.**

**Stormwater Basin P-2B, as well additional basins within the 750' Vernal Pool Critical Terrestrial Habitat (P-1, P-2A, and P-3C), could potentially intercept seasonally high groundwater and/or hold water for more than 24 hours after a storm event. In these scenarios, the basins could act as a decoy pool and intercept vernal pool species breeding. Permanent isolation barriers will be installed to separate these features from the vernal pool breeding habitat. The Site Plans have been revised to depict the limit of isolation barriers and details have been included for the proposed isolation fencing. See Attachment C. The potential that the proposed Stormwater basins would act as a decoy pool will be minimized with the incorporation of these isolation barriers.**

39. Is it possible to relocate Stormwater Basin P-2B further up the slope to reduce the potential groundwater interception and to provide a greater buffer to the adjacent wetland?

**Response:**

**Stormwater Basin P-2B is sited where shown in order to collect runoff from the western portion of the solar array and access drive in this area. Relocating Basin P-2B to the east is not recommended as it would shift the basin closer to the drainage divide and would not**

**collect sufficient water. The basin is designed in its current location so that it is down-gradient from the array/access drive and will adequately intercept and treat run-off from this area.**

40. What is the Town of Montville's wetland setback regulation/standard?

**Response:**

**The Inland Wetlands and Watercourses Regulations of the Town of Montville, Connecticut, adopted February 28, 1990, effective October 19, 2017, regulate a 50-foot Upland Review Area from the boundary of any wetland or watercourse. With the exception of the overhead utility interconnection and a portion of the proposed gravel access that follows an existing farm road, the remainder of the facility including the proposed limit of disturbance/limit of clearing associated with the fenced solar facility, is located outside of the 50-foot Upland Review Area.**

41. The limit of disturbance for the proposed access drive through the agricultural field is close to and directly abuts the wetland boundary. Can the access road be relocated to create a larger buffer to the adjacent wetland?

**Response:**

**The limit of disturbance for the proposed access drive is contained along an existing farm road already in use. The access drive and limit of disturbance (access drive and underground utilities) does not infringe on the wetland boundary, does not require clearing of woody vegetation, and is not anticipated to have an adverse effect to the wetland along the access drive. While relocating the access drive is technically feasible from a design and constructability standpoint, the proposed access drive route is the only one approved by the underlying property owner due to the location of existing horse paddock areas just south of the farm road. Shifting of the access drive for the proposed solar facility would also not eliminate the property owner's use of the existing farm road.**

42. What construction methods would be used to prevent/reduce impacts to wetland areas for installation of the overhead interconnection line?

**Response:**

**The proposed clearing of trees within wetland areas for the purposes of accommodating the overhead interconnection line would be restricted as follows to avoid/minimize impacts to wetlands.**

- No equipment would encroach into wetland areas; equipment would be staged outside of the wetland boundary.**
- Trees would be cut near ground level, stumps would remain, no grubbing or soil disturbance would occur.**
- Shrub understory would be retained within the areas of select wetland tree removal provided they do not conflict with electrical line safety clearances.**
- Implementation of the Resource Protection Measures provided on Sheet No. GN-2 of the project site plans.**

43. Referencing Petition Environmental Assessment- Appendix F, the visibility map shows year-round visibility from Fitch Hill Road. Would the year-round view be of the solar array or the interconnection line?

**Response:**

**The year-round visibility from Fitch Hill Road on the viewshed map in Appendix F depicts the predicted year-round visibility of the poles and lines associated with the interconnection, not the solar array.**

44. 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 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 F.**

**Facility Construction**

45. Referring to Site Plan EC-1, Construction Sequence, Phase 1, - what is the anticipated time interval required to stabilize the sediment basins/swales prior to the commencement of Phase 2?

**Response:**

**There is no time delay between Phase 1 and Phase 2 required to stabilize the sediment basins/swales. All basin slopes will utilize appropriate erosion and sedimentation controls.**

46. 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.**

47. 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 results of the geotechnical investigation will however establish the foundation conditions which will determine the sizing (length and depth of posts) for the racking columns and beams.**

48. Has the Petitioner consulted with the DEEP Dam Safety program regarding permitting requirements, if any, for the proposed stormwater basins?

**Response:**

**The Petitioner has not coordinated directly with the DEEP Dam Safety program as the proposed basins are less than their jurisdictional threshold of 3 AC-FT of storage.**

49. How would the posts that support the racking system be driven into the ground? In the event that ledge is encountered, what methods would be utilized for post installation?

**Response:**

**Posts will be driven with an appropriate rock drill using a bit 2" larger than the pile. If ledge is encountered, then Petitioner will fill hole with concrete.**

#### **Maintenance/Decommissioning**

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

**Response:**

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

51. 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 a desired depth.**

52. 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.**

53. Is livestock grazing proposed for the site? If yes, provide a livestock management plan and the location of any related outbuildings.

**Response:**

**Livestock grazing is not proposed for this site.**

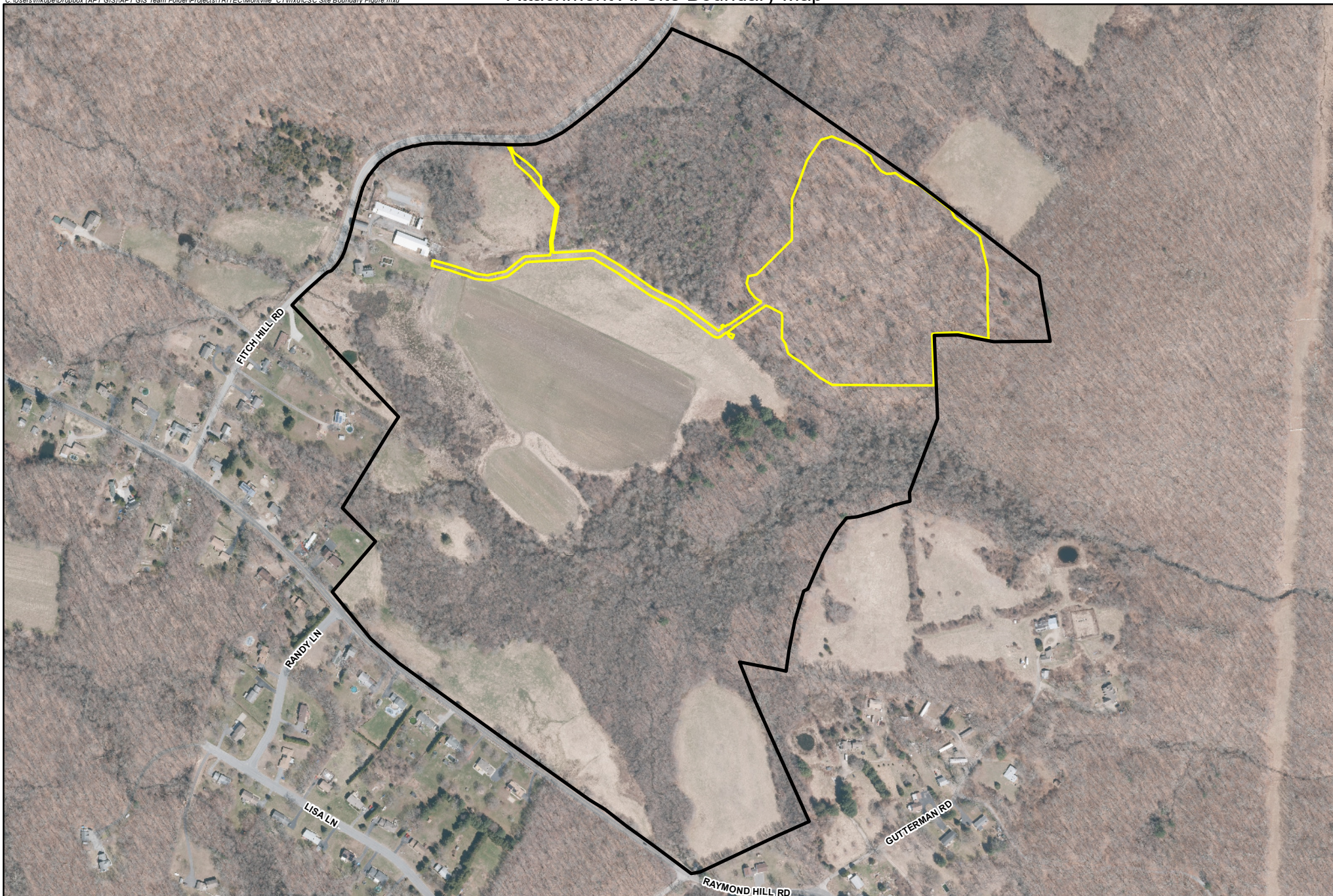
54. Has the manufacturer of the proposed solar panels conducted Toxicity Characteristic Leaching Procedure (TCLP) testing to determine if the panels would be characterized as hazardous waste at the time of disposal under current regulatory criteria? If so, submit information that indicates the proposed 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:**

**The TCLP Certificate for the Talesun modules is attached. See Attachment G. HT SAAE is still completing their testing and will the certificate by first week of May 2022.**



# Attachment A: Site Boundary Map

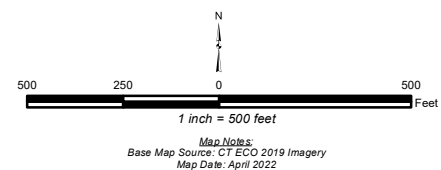


**Connecticut Siting Council**  
**Petition No. 1492**  
**TRITEC Americas, LLC**

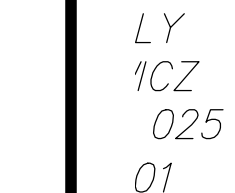
N Silver Brook Solar Facility  
486 Fitch Hill Road  
Uncasville, CT 06382

## Legend

- Site
- Project Area (Limit of Disturbance)

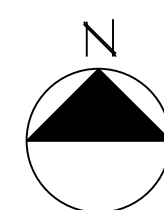






MERLY  
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 AGE 889  
 2/00A

ELSON  
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 400W MODULES 570W MODULES

486A SYSTEM SUMMARY	
MODULE QTY.	TALESUN: 864
INVERTER	SOLECTRIA XGI 1500-125/150 (2)
SYSTEM SIZE (AC)	249.2 kWAC
SYSTEM SIZE (DC)	345.6 kWDC

486B SYSTEM SUMMARY	
MODULE QTY.	TALESUN: 891
INVERTER	SOLETRIA XGI 1500-125/150 (2)
SYSTEM SIZE (AC)	249.2 kWAC
SYSTEM SIZE (DC)	356.4 kWDC

486C SYSTEM SUMMARY	
MODULE QTY.	HT-SAAE: 525
INVERTER	SOLETRIA XGI 1500-125/150 (2)
SYSTEM SIZE (AC)	249.2 kWAC
SYSTEM SIZE (DC)	299.25 kWDC

<b>486D SYSTEM SUMMARY</b>	
MODULE QTY.	HT-SAAE: 525
INVERTER	SOLETRIA XGI 1500-125/150 (2)
SYSTEM SIZE (AC)	249.2 kWAC
SYSTEM SIZE (DC)	299.25 kWDC

486E SYSTEM SUMMARY	
MODULE QTY.	HT-SAAE: 525
INVERTER	SOLETRIA XGI 1500-125/150 (2)
SYSTEM SIZE (AC)	249.2 kWAC
SYSTEM SIZE (DC)	299.25 kWDC

486F SYSTEM SUMMARY	
MODULE QTY.	HT-SAAE: 525
INVERTER	SOLECTRIA XGI 1500-125/150 (2)
SYSTEM SIZE (AC)	249.2 kWAC
SYSTEM SIZE (DC)	299.25 kWDC

486G SYSTEM SUMMARY	
MODULE QTY.	HT-SAAE: 525
INVERTER	SOLECTRIA XGI 1500-125/150 (2)
SYSTEM SIZE (AC)	249.2 kWAC
SYSTEM SIZE (DC)	299.25 kWDC

486H SYSTEM SUMMARY	
MODULE QTY.	HT-SAAE: 525
INVERTER	SOLECTRIA XGI 1500-125/150 (2)
SYSTEM SIZE (AC)	249.2 kWAC
SYSTEM SIZE (DC)	299.25 kWDC

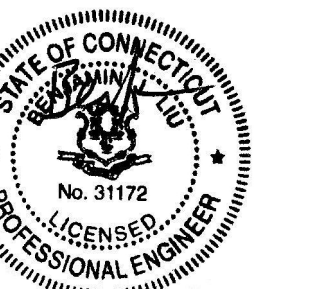
## PRELIMINARY

CONSULTANT



**BLYMYER**  
ENGINEERS  
1101 MARINA VILLAGE PARKWAY # 100  
ALAMEDA, CA 94501 510.521.3773

STAMP/SEAL



REV #	DESCRIPTION	DATE
	FOR UTILITY REVIEW	7/20/21
	UTILITY IA	3/14/22

PROJECT TITLE:  
SILVER BROOK SOLAR  
PV ARRAYS  
(8) 249.2 KWAC  
PV SYSTEMS  
486 FITCH HILL ROAD,  
UNCASVILLE, CT

SHEET TITLE:

# PHOTOVOLTAIC ARRAY SITE PLAN

JOB NO.: 2200XX	PROJECT MGR: SG
DRAWN: OF	SCALE: 1" = 100'
SHEET NUMBER	

# G-100





## E-2.0

- 1 ALL EQUIPMENT SHALL BE UL LISTED.
- 2 INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST ELECTRICAL  
3 AND BUILDING CODES. AHJ HAS FINAL JURISDICTIONAL AUTHORITY  
4 ON CODE APPLICATION AND COMPLIANCE.
- 5 ALL INVERTER WIRING AND GROUNDING METHODS SHALL CONFORM  
6 TO THE MANUFACTURER'S RECOMMENDED PRACTICES. REFER TO  
7 PNEC 705.31 AND INSTALLATION MANUAL FOR THIS GUIDANCE.
- 8 ALL DISCONNECTS SHALL BE LABELED "WARNING – ELECTRIC  
9 SHOCK HAZARD – DO NOT TOUCH TERMINALS" AND "TERMINALS  
10 ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN  
11 POSITION" PER NEC 690.13 & 690.15.
- 12 EXPOSED NON-CURRENT CARRYING METAL PARTS OF MODULE  
13 FRAMES, EQUIPMENT AND ENCLOSURES SHALL BE GROUNDED IN  
14 ACCORDANCE WITH NEC 250.134 AND 250.136(A).
- 15 COORDINATE DATE, TIME, AND LENGTH OF ANY REQUIRED FACILITY  
16 SHUTDOWNS WITH OWNER PRIOR TO CONSTRUCTION.
- 17 LUGS SHALL BE DUAL RATED FOR COPPER/ALUMINUM CONDUCTORS
- 18 PANELBOARDS SHALL INCLUDE A SINGLE-POLE AIR GAP BETWEEN  
19 ALL INVERTER BREAKERS.
- 20 SWITCHGEAR AND SWITCHBOARD BREAKERS SHALL BE ELECTRONIC  
21 TRIP TYPE.
- 22 REFER TO SHEET(S) E-6.X FOR WARNING LABELS AND LOCATIONS  
23 REFER TO SHEET(S) E-7.X FOR ELECTRICAL DETAILS  
24 REFER TO SHEET(S) E-10.X FOR EQUIPMENT DATASHEETS
- 25 ALL EQUIPMENT SHALL HAVE ARC FLASH WARNING LABELS WITH  
26 APPLICABLE INCIDENT ENERGY LEVELS, WARNING DISTANCES, AND  
27 REQUIRED PPE IN ACCORDANCE WITH NFPA 70E.
- 28 PHOTOVOLTAIC MODULES TO BE GROUNDED USING FACTORY  
29 PROVIDED OR APPROVED MEANS. REFER TO SHEET(S) E-10.X FOR  
30 MEANS/METHODS.
- 31 PV SYSTEM AND EQUIPMENT COMPLIANT WITH THE FOLLOWING NEC  
32 CODES:
  - 33 – POINT OF INTERCONNECTION PER NEC 705.12
  - 34 – INTEGRATED ARC DISCONNECT PER NEC 705.70
  - 35 – LOCATION OF OVERCURRENT PROTECTION PER NEC 705.31
  - 36 – DISCONNECTING OF PHOTOVOLTAIC MODULES PER NEC 690.15
  - 37 FOR INVERTER INTEGRATED DC DISCONNECTS

INVERTERS FOR UNGROUNDED PV ARRAYS:

SOLECRIA XG

- 600VAC, 3PH-3W, 1500VDC
- NEMA 4X
- NO ISOLATION TRANSFORMER
- INTEGRATED AC DISCONNECT
- UL1741 LISTED WITH INTEGRAL ANTI-ISLANDING PROTECTION.
- UL1741 LISTING INCLUDES COMPLIANCE WITH IEEE519 FOR POWER QUALITY, IEEE929 FOR INTERCONNECTION SAFETY AND NEC REQUIREMENTS.
- COMPLY WITH UL1741-5A ADVANCED INVERTER FUNCTIONS, INCLUDING L/HVRT, L/HFTV, Q/F, FPF, FPF, R, FW, SS, VW, AND 1.4PU LROV/TROV CLEARING TIME REQUIREMENT. ACTIVE ISLANDING DETECTION USES SANDIA FREQUENCY SIFT METHOD AND A MODIFIED PERTINENT FREQUENCY INVERTER INCLUDES VOLTAGE AND FREQUENCY PROTECTIVE SETTINGS. SEE SETTINGS TABLE.

2 DC DISCONNECT SWITCH

- INTEGRATED GANG OPERATED DC SWITCH FOR ALL MPPTS.
- DC DISCONNECT SWITCH SHALL COMPLY WITH NEC 690.15 REQUIREMENTS
- REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DETAILS.

3 APPLY PERMANENT WARNING LABEL WITH THE FOLLOWING MARKING:

CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

REFER TO DETAILS FOR LABEL 5-6.0.

4 UTILITY METER SHALL COMPLY WITH EVERSOURCE REQUIREMENTS.

5 ZREC METER SOCKET SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

- ALPHA METER BY EVERSOURCE FOR 9S, 120V
- PHASE ROTATION ABC.
- THREE SINGLE RATIO SLO CRO CTs: 400:5, MINIMUM RF=2.0
- THREE METERING WYE Vfs UNFUSED (346:120 OR 2.88:1, 0.3%-0.18)
- METERING MANUFACTURER MUST PROVIDE DATASHEETS FOR CTs AND Pfs WITH SHOP DRAWINGS FOR UTILITY APPROVAL PRIOR TO MARKING.
- CONSTRUCTION OF ALL EVERSOURCE-RELATED INFRASTRUCTURE SHALL COMPLY WITH EVERSOURCE CT STANDARDS AND DETAILS.
- PLEASE CONTACT THE EVERSOURCE STAFF BELOW TO PLAN CONSTRUCTION.

DOUGLAS GRIMSON: 860-208-5891  
JAMES CERKANOWICZ: 860-665-5108

6 GROUNDING TRANSFORMER

ZIG-ZAG MOV, 15.6 KVA, 1500V, CT, XO = 4.0KZ (0.87Q), X/R=5, OUTDOOR, PAD MOUNTED

7 GROUNDING TRANSFORMER BREAKER SHALL SHUNT TRIP MAIN CIRCUIT BREAKER WHEN OPENED OR TRIPPED. PROVIDE SIGN ON MAIN "CLOSE GROUNDING TRANSFORMER BREAKER BEFORE CLOSING"

8 SEE DATA ACQUISITION SYSTEM SHEET FOR DAS WIRING DIAGRAMS AND DETAILS.

9 BOND INVERTER GROUND TERMINALS BACK TO (N) GROUND

PERMANENT SERVICE GROUNDING ELECTRODE PER NEC 690.47(A). PANELBOARD SHALL BE SHOWN IN SCHEDULE MUST BE CONTINUOUS OR IRREVERSIBLY SPliced BETWEEN THE PV INVERTER AND THE SERVICE GROUNDING ELECTRODE, AND ALL METALLIC CONDUIT WHICH CONTAINS THE GROUNDING CONDUCTOR MUST BE BONDED AT BOTH ENDS. REVERSIBLE SPICES BETWEEN DIFFERENT WIRE SIZES MAY BE PERFORMED WITH JUMPFERS MATCHING THE SMALLER SIZE.

10 PROVIDE 100A, 1P/3W NEMA 3R LOAD CENTER, PROVIDE 15A/2P BREAKERS FOR ACPW THE DAS AND SYSTEMS.

11 MEDIUM VOLTAGE STEP-UP TRANSFORMER:

- 300VA, KVAH 745C
- 13.2KV, 600Y/346V, 3#, 4W
- Z=3.5%, X/R=6
- PAD-MOUNTED, OUTDOOR
- TAPS: (2) 2.50KFCN, (2) 2.5% FCBN
- GROUNDING WYE CONNECTED W/ WINDING
- GROUNDING WYE CONNECTED W/ WINDING WITH MIN. 4-HOLE SPADES AND REMOVABLE NEUTRAL GROUNDING STRAP.
- 5-LEGGED CORE CONSTRUCTION
- UNINSULATED, PAD-MOUNTED, 3-Phase, FED, BAYONNET AND CLF WITH HIGH-SIDE LOAD BREAK SWITCH, HIGH-SIDE 10.2KV MCWY MOV DISJ. ARRESTERS
- DEADFRONT CONSTRUCTION WITH 200A BUSHING WELMS.
- DISCRETE MONITORING OF TEMPERATURE, PRESSURE, VACUUM, AND OIL LEVEL.

# SINGLE-LINE DIAGRAM

JOB NO.: 2200XX	PROJECT MGR: SG
DRAWN: CVV	SCALE: NTS
SHEET NUMBER	



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DC SCHEDULE AND CALCULATIONS

*DESIGN TEMPERATURE BASED OFF OF -19°C LOW SITE TEMPERATURE.														
CIRCUIT ID	# OF MODULES IN STRING	Voc	Vmp	Isc*	Imp	KW @ STC	MIN FUSE SIZE	CONDUIT SIZE	WIRE QTY & SIZE	WIRE AMPACITY AFTER DERATE	WIRE MATERIAL	WIRE INSULATION	MAX ONE-WAY DISTANCE	%VOLTAGE DROP
PVM-1	N/A	55.1	41.4	11.22	9.67	0.4	N/A	N/A	SEE MFR DATASHEET	N/A	SEE MFR DATASHEET	SEE MFR DATASHEET	N/A	N/A
PVM-2	N/A	60.0	44.68	15.05	12.76	0.57	N/A	N/A	SEE MFR DATASHEET	N/A	SEE MFR DATASHEET	SEE MFR DATASHEET	N/A	N/A
STR-1	27	1477.4	1117.8	11.22	9.67	10.8	20	N/A	(2) #10 AWG (1) AWG #10 EGC	33.6	CU	PV WIRE	150	0.45%
STR-2	25	1464.6	1117	15.05	12.76	14.25	25	N/A	(2) #10 AWG (1) AWG #10 EGC	33.6	CU	PV WIRE	150	0.59%

\*NOTE: PV MODULE STC Isc IS INCREASED BY 10% FACTOR TO ADDRESS BIFACIAL PERFORMANCE.

AC SCHEDULE AND CALCULATIONS

* CONDUITS ARE MINIMUM REQUIRED SIZES; INSTALLED SIZES MAY BE LARGER, IF USED																
CIRCUIT ID	VOLTAGE	CURRENT	OCB	WIRE MATERIAL	WIRE INSULATION	PARALLEL SETS OF WIRES	PHASE CONDUCTORS PER SET	NEUTRAL CONDUCTOR PER SET	EGC PER SET	WIRE AMPACITY	*MIN EMT (IN)	*MIN LFMC (IN)	*MIN RMC (IN)	*MIN PVC (IN)	DISTANCE (FT)	% VOLTAGE DROP
INV-1.1	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-1.2	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-2.1	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-2.2	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-3.1	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-3.2	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-4.1	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-4.2	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-5.1	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-5.2	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-6.1	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-6.2	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-7.1	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-7.2	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-8.1	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
INV-8.2	600	144	200	Al	THWN-2	1	(3) 250 kcmil	N/A	#4 AWG	230	2	2	2	2	20	0.07%
PNL-1	600	288	400	Cu	THWN-2	1	(3) 500 kcmil	N/A	#3 AWG	430	2.5	3	3	3	20	0.05%
PNL-2	600	288	400	Cu	THWN-2	1	(3) 500 kcmil	N/A	#3 AWG	430	2.5	3	3	3	20	0.05%
PNL-3	600	288	400	Cu	THWN-2	1	(3) 500 kcmil	N/A	#3 AWG	430	2.5	3	3	3	20	0.05%
PNL-4	600	288	400	Cu	THWN-2	1	(3) 500 kcmil	N/A	#3 AWG	430	2.5	3	3	3	20	0.05%
PNL-5	600	288	400	Cu	THWN-2	1	(3) 500 kcmil	N/A	#3 AWG	430	2.5	3	3	3	20	0.05%
PNL-6	600	288	400	Cu	THWN-2	1	(3) 500 kcmil	N/A	#3 AWG	430	2.5	3	3	3	20	0.05%
PNL-7	600	288	400	Cu	THWN-2	1	(3) 500 kcmil	N/A	#3 AWG	430	2.5	3	3	3	20	0.05%
PNL-8	600	288	400	Cu	THWN-2	1	(3) 500 kcmil	N/A	#3 AWG	430	2.5	3	3	3	20	0.05%
AUX-H	600	25	35	Cu	THWN-2	1	(2) #10 AWG	N/A	#10 AWG	40	0.5	0.5	0.5	0.5	10	0.10%
AUX-L	240	62.5	80	Cu	THWN-2	1	(2) #1 AWG	N/A	#4 AWG	145	1.25	1.25	1.25	1.25	10	0.08%
GT-1	600	16	20	Cu	THWN-2	1	(3) #10 AWG	#10 AWG	#10 AWG	40	0.5	0.5	0.5	0.5	10	0.06%

PV MODULE

PVM1

PVM2

MODULE MAKE AND MODEL	TALESUN BIPRO TP6G72M	HT78-18X TRANSPARENT 570
Pmax – MAX POWER AT STC	400 W	570 W
Voc – OPEN CIRCUIT VOLTAGE AT STC	49.1 V	53.2 V
Vmp – MAX. POWER VOLTAGE AT STC	41.4 V	44.7 V
Isc – SHORT CIRCUIT CURRENT AT STC	10.20 A	13.68 A
BI-FACIAL MODULE BACKSIDE GAIN (ESTIMATED)	10%	10%
TOTAL Isc – SHORT CIRCUIT CURRENT	11.22 A	15.05 A
Imp – MAX POWER CURRENT AT STC	9.67 A	12.76 A
TEMPERATURE COEFFICIENT OF Voc	–0.26 % / °C	–0.29 % / °C
MAXIMUM SERIES FUSE RATING	20.0 A	25.0 A
STRING RATINGS	TALESUN BIPRO TP6G72M	HT78-18X TRANSPARENT 570
SERIES CONNECTED MODULES IN EACH PV SOURCE CIRCUIT	27	25
STRING MAX POWER AT STC	10,800 W	14,250 W
STRING Voc AT STC	1325.7 V	1329.8 V
MAXIMUM SYSTEM VOLTAGE (NEC 2017)	1500.0 V	1500.0 V
MAXIMUM EXPECTED SYSTEM VOLTAGE (SEE NOTE)	1,477.4	1,499.4
TEMPERATURE	–19° C	–19° C
IRRADIANCE	1000 W / M²	1000 W / M²
NOTE: THE IRRADIANCE AND TEMPERATURE COMBINATION RESULTING IN THE HIGHEST VOLTAGE IS SHOWN. CALCULATED USING 2017 NEC 690.7(A)(3) RECOMMENDED METHOD: "PHOTOVOLTAGIC ARRAY PERFORMANCE MODEL" BY SANDIA NATIONAL LABORATORIES REFERENCE# SAND 2004-3535.		

INVERTER PROTECTIVE SETTINGS

ANSI ID	DESCRIPTION	SETTING	TRIP	CLEARING TIME (SEC)
27-1	UNDERVOLTAGE – FAST	0.5	300.0 V	0.16
27-2	UNDERVOLTAGE – SLOW	0.88	528.0 V	2.00
59-1	OVERVOLTAGE – FAST	1.2	720.0 V	0.16
59-2	OVERVOLTAGE – SLOW	1.1	660.0 V	1.00
81U	UNDER FREQUENCY	57	57.0 Hz	0.16
81O	OVER FREQUENCY	60.5	60.5 Hz	0.16
ALARM	ALARM	–	TRIP	0.16

INVERTER SCHEDULE

INVERTER ID	INVERTER ARRAY	INVERTER MAKE & MODEL	INVERTER OCB	INVERTER KW	INVERTER KVA	STR-1 TOTAL QTY	STR-2 TOTAL QTY	MODULES PER INVERTER	KW DC PER INVERTER
						65	126		
INV-1.1	1	Solectria XGI 1500-125/150	200/3P	124.6	150	16	0	432	172.8
INV-1.2	1	Solectria XGI 1500-125/150	200/3P	124.6	150	16	0	432	172.8
INV-2.1	2	Solectria XGI 1500-125/150	200/3P	124.6	150	17	0	459	183.6
INV-2.2	2	Solectria XGI 1500-125/150	200/3P	124.6	150	16	0	432	172.8
INV-3.1	3	Solectria XGI 1500-125/150	200/3P	124.6	150	0	11	275	156.75
INV-3.2	3	Solectria XGI 1500-125/150	200/3P	124.6	150	0	10	250	142.5
INV-4.1	4	Solectria XGI 1500-125/150	200/3P	124.6	150	0	11	275	156.75
INV-4.2	4	Solectria XGI 1500-125/150	200/3P	124.6	150	0	10	250	142.5
INV-5.1	5	Solectria XGI 1500-125/150	200/3P	124.6	150	0	11	275	156.75
INV-5.2	5	Solectria XGI 1500-125/150	200/3P	124.6	150	0	10	250	142.5
INV-6.1	6	Solectria XGI 1500-125/150	200/3P	124.6	150	0	11	275	156.75
INV-6.2	6	Solectria XGI 1500-125/150	200/3P	124.6	150	0	10	250	142.5
INV-7.1	7	Solectria XGI 1500-125/150	200/3P	124.6	150	0	11	275	156.75
INV-7.2	7	Solectria XGI 1500-125/150	200/3P	124.6	150	0	10	250	142.5
INV-8.1	8	Solectria XGI 1500-125/150	200/3P	124.6	150	0	11	275	156.75
INV-8.2	8	Solectria XGI 1500-125/150	200/3P	124.6	150	0	10	250	142.5



CONSULTANT



STAMP/SEAL



REV #	DESCRIPTION	DATE
	FOR UTILITY REVIEW	7/20/21
	UTILITY IA	3/14/22

PROJECT TITLE:

SILVER BROOK SOLAR  
PV ARRAYS  
(8) 249.2 KWAC  
PV SYSTEMS  
486 FITCH HILL ROAD,  
UNCASVILLE, CT

SHEET TITLE:

INVERTER AND WIRE  
SCHEDULES

JOB NO.: 2200XX	PROJECT MGR: SG
DRAWN: CVV	SCALE: NTS
SHEET NUMBER	

E-2.1

PRELIMINARY

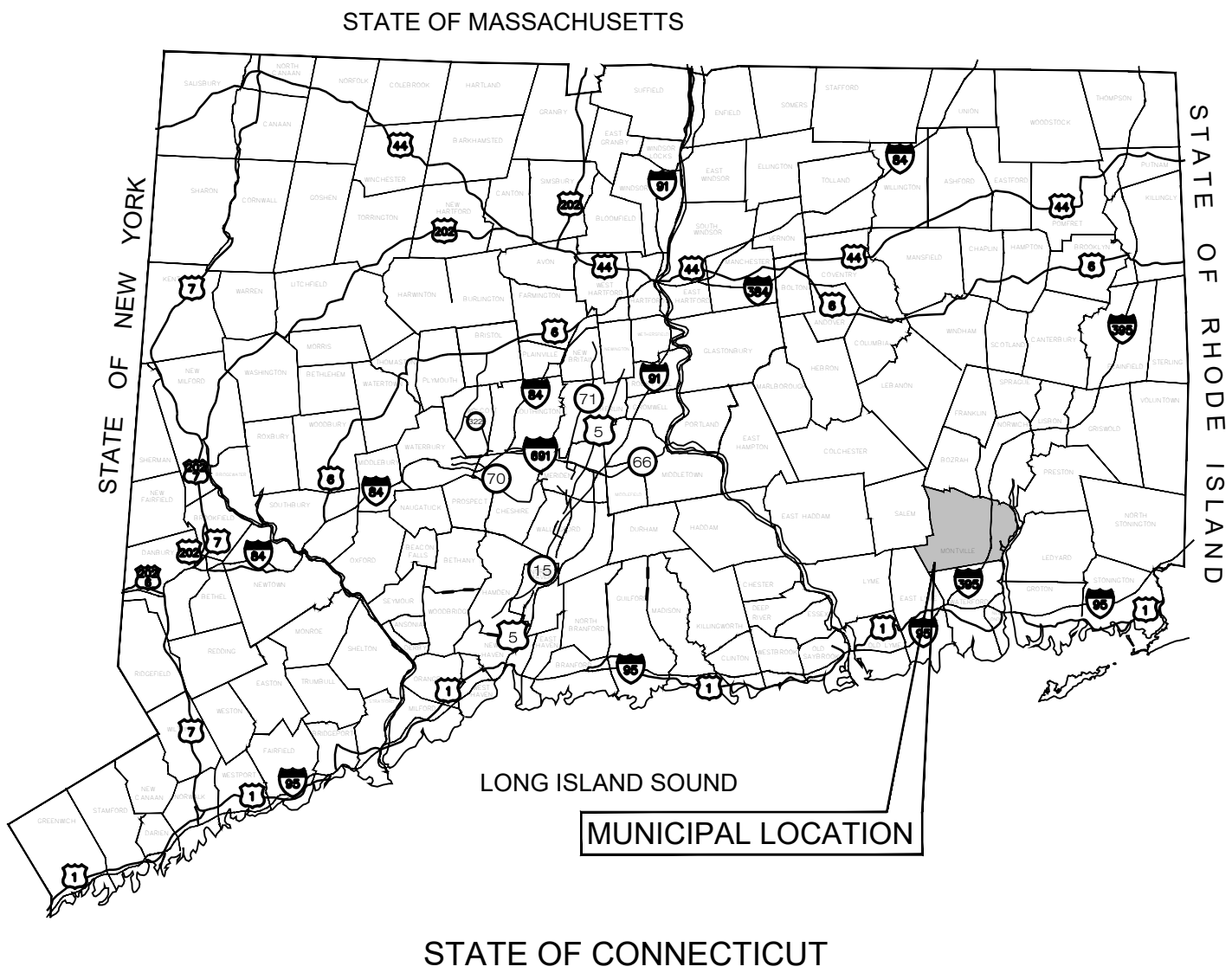


# Attachment C: Revised Site Plan

TRITEC AMERICAS

"N SILVER BROOK SOLAR"

486 FITCH HILL ROAD  
UNCASVILLE, CT 06382



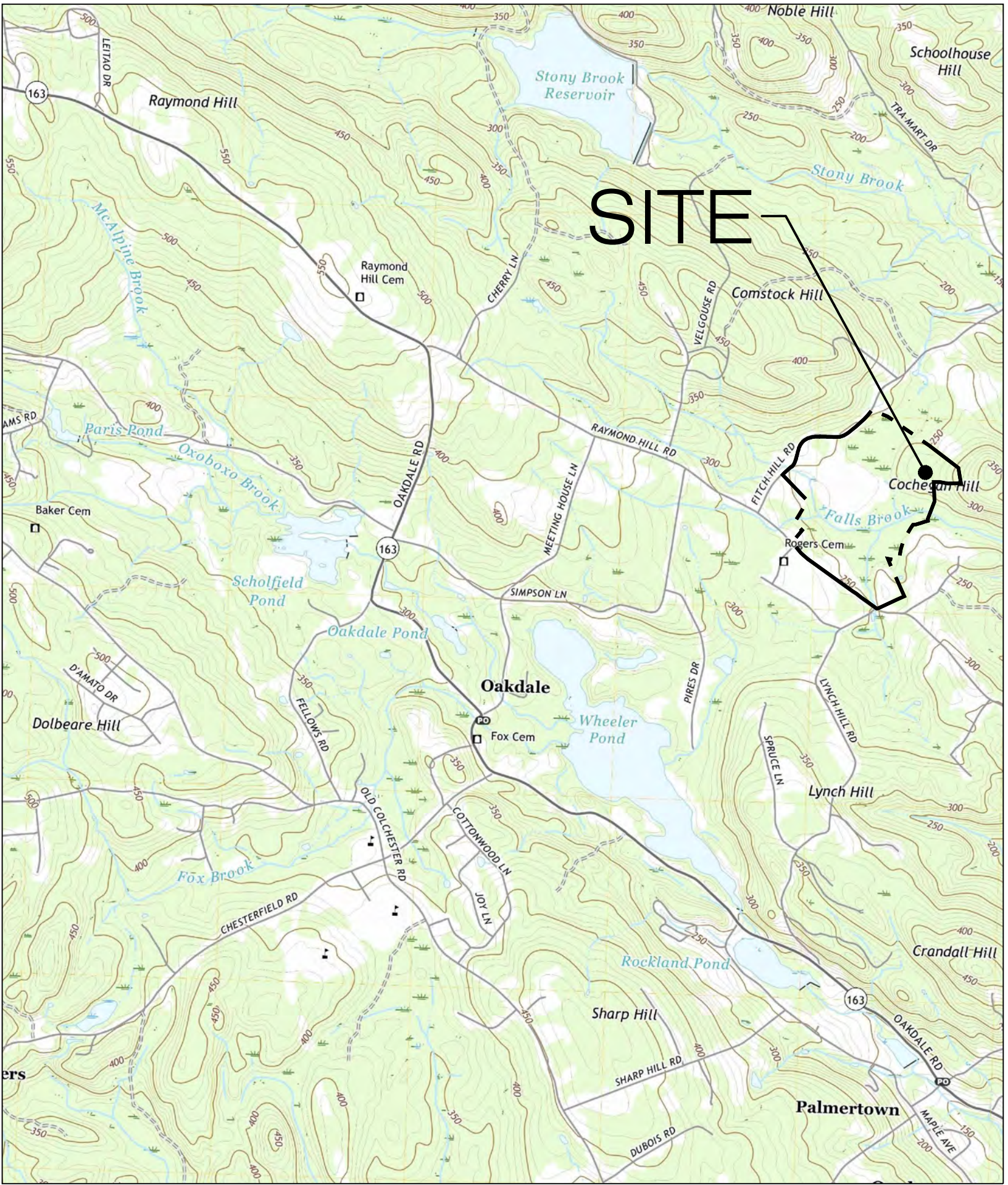
## LIST OF DRAWINGS

T-1	TITLE SHEET & INDEX
VT101 TO VT104	EXISTING CONDITIONS PLANS PROVIDED BY LANGAN
GN-1	GENERAL NOTES
GN-2	ENVIRONMENTAL NOTES & RESOURCE PROTECTION MEASURES
OP-1	OVERALL LOCUS MAP
OP-2	PARTIAL SITE PLAN
EC-1	SEDIMENTATION & EROSION CONTROL NOTES
EC-2	SEDIMENTATION & EROSION CONTROL DETAILS
EC-3 TO EC-6	PHASE 1 SEDIMENTATION & EROSION CONTROL PLAN
EC-7 TO EC-10	PHASE 2 SEDIMENTATION & EROSION CONTROL PLAN
GD-1 TO GD-4	FINAL GRADING & DRAINAGE PLAN
SP-1 TO SP-4	SITE & UTILITY PLAN
DN-1	SITE DETAILS
DN-2	SITE DETAILS
EX-1	SLOPE ANALYSIS

## SITE INFORMATION

SITE NAME:	"N SILVER BROOK SOLAR"
LOCATION:	486 FITCH HILL ROAD UNCASVILLE, CT 06382
SITE TYPE/DESCRIPTION:	ADD (1) GROUND MOUNTED SOLAR PANEL ARRAY W/ ASSOCIATED EQUIPMENT, GRAVEL ACCESS ROAD, AND STORMWATER MANAGEMENT.
PROPERTY OWNER:	N SILVER BROOK HOLDINGS, LLC 511 FITCH HILL ROAD UNCASVILLE, CT 06382
APPLICANT:	TRITEC AMERICAS 888 PROPECT STREET LA JOLLA, CA 92037
ENGINEER CONTACT:	KEVIN A. MCCAFFERY, P.E. (860) 581-4477
LATITUDE:	41°28'38.57" N
LONGITUDE:	72°07'50.54" W
ELEVATION:	270'± AMSL
MBLU:	047-051-000
ZONE:	"R-80"
EXISTING LAND USE:	SINGLE FAMILY RESIDENTIAL & AGRICULTURAL
PROPOSED LAND USE:	COMMUNICATIONS, TRANSPORTATION AND PUBLIC UTILITY USES - LARGE SCALE GROUND MOUNTED SOLAR PHOTOVOLTAIC INSTALLATIONS
TOTAL SITE ACREAGE:	128.67± AC.
TOTAL DISTURBED AREA:	15.25± AC.
APPROX. VOLUME OF CUT:	8,100± CY
APPROX. VOLUME OF FILL:	900± CY
APPROX. NET VOLUME:	7,200± CY OF CUT

## USGS TOPOGRAPHIC MAP



SCALE : 1" = 2000'± SOURCE: USGS 7.5 PALMERTOWN QUADRANGLE, CT 2021

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

CSC PERMIT SET		
NO	DATE	REVISION
0	01/10/22	SITING COUNCIL SUBMISSION
1	04/12/22	COUNCIL INTERROGATORIES
2		
3		
4		
5		
6		

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: N SILVER BROOK HOLDINGS LLC  
ADDRESS: 511 FITCH HILL ROAD  
UNCASVILLE, CT 06382

N SILVER BROOK SOLAR

SITE 486 FITCH HILL ROAD  
ADDRESS: UNCASVILLE, CT 06382

APT FILING NUMBER: CT657140

DATE: 12/14/21

DRAWN BY: CH

CHECKED BY: KAM

SHEET TITLE:

TITLE SHEET & INDEX

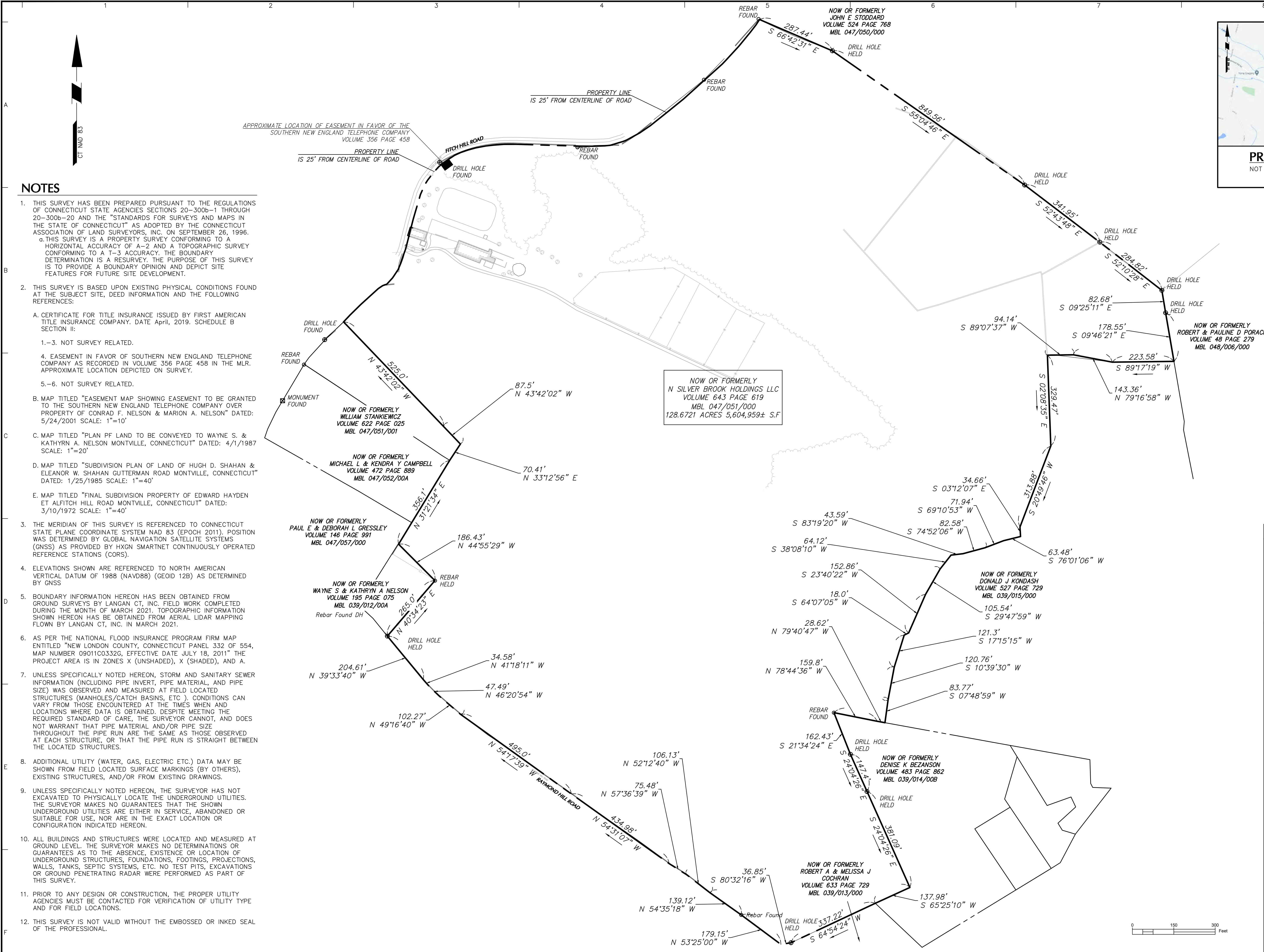
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T-1

STATE OF CONNECTICUT

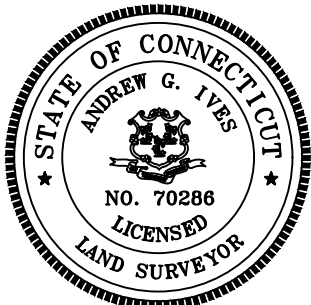
PROFESSIONAL ENGINEER





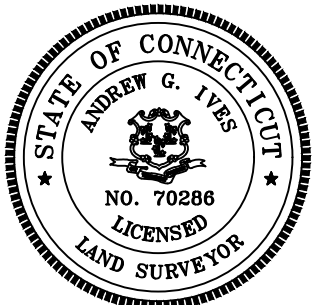
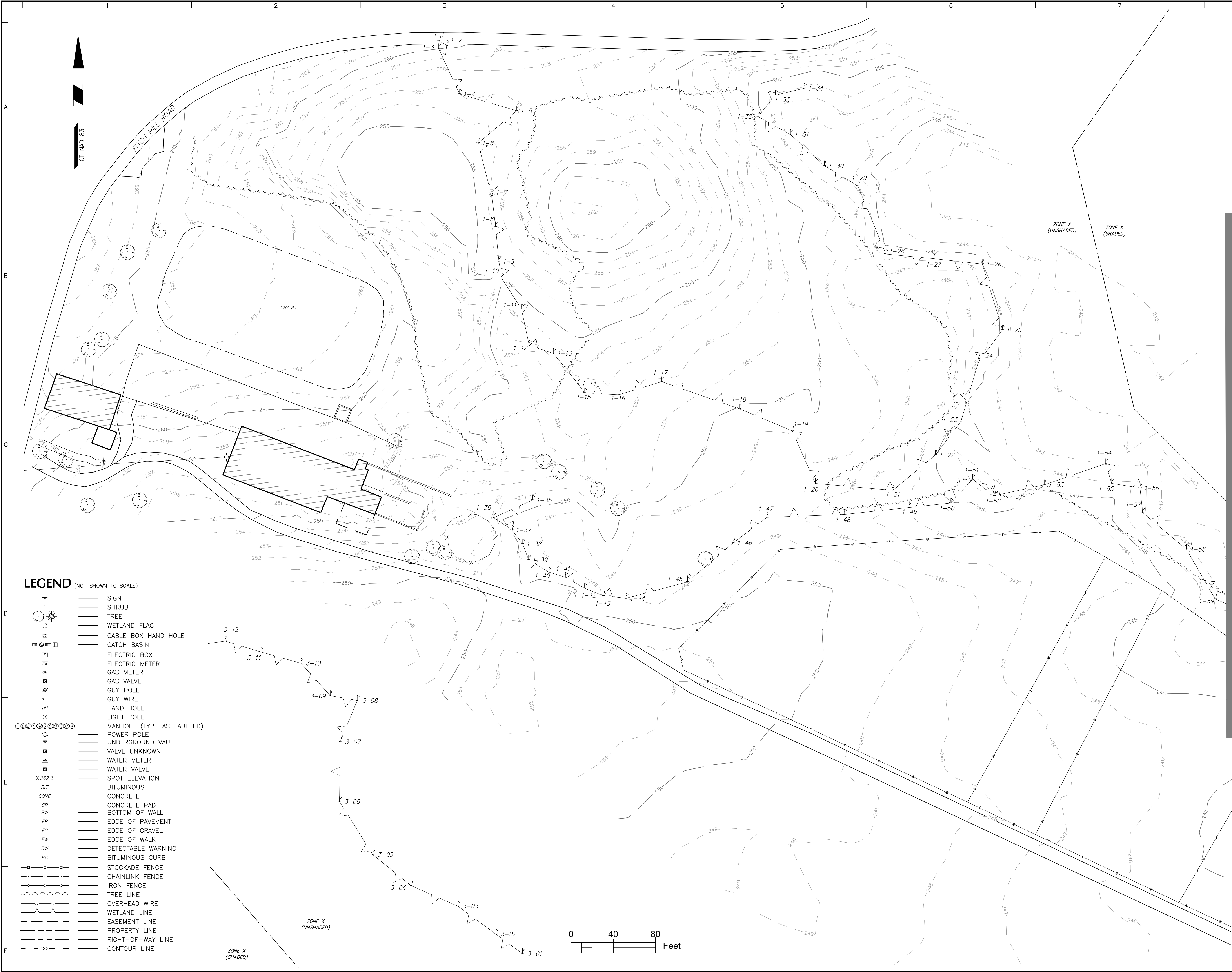
NOTES

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.  
a. THIS SURVEY IS A PROPERTY SURVEY CONFORMING TO A HORIZONTAL ACCURACY OF A-2 AND A TOPOGRAPHIC SURVEY CONFORMING TO A T-3 ACCURACY. THE BOUNDARY DETERMINATION IS A RESURVEY. THE PURPOSE OF THIS SURVEY IS TO PROVIDE A BOUNDARY OPINION AND DEPICT SITE FEATURES FOR FUTURE SITE DEVELOPMENT.
- THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, DEED INFORMATION AND THE FOLLOWING REFERENCES:  
A. CERTIFICATE FOR TITLE INSURANCE ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY. DATE April, 2019. SCHEDULE B SECTION II:  
1.-3. NOT SURVEY RELATED.  
4. EASEMENT IN FAVOR OF SOUTHERN NEW ENGLAND TELEPHONE COMPANY AS RECORDED IN VOLUME 356 PAGE 458 IN THE MLR. APPROXIMATE LOCATION DEPICTED ON SURVEY.  
5.-6. NOT SURVEY RELATED.  
B. MAP TITLED "EASEMENT MAP SHOWING EASEMENT TO BE GRANTED TO THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY OVER PROPERTY OF CONRAD F. NELSON & MARION A. NELSON" DATED: 5/24/2001 SCALE: 1"=10'  
C. MAP TITLED "PLAN PF LAND TO BE CONVEYED TO WAYNE S. & KATHYRN A. NELSON MONTVILLE, CONNECTICUT" DATED: 4/1/1987 SCALE: 1"=20'  
D. MAP TITLED "SUBDIVISION PLAN OF LAND OF HUGH D. SHAHAN & ELEANOR W. SHAHAN GUTTERMAN ROAD MONTVILLE, CONNECTICUT" DATED: 1/25/1985 SCALE: 1"=40'  
E. MAP TITLED "FINAL SUBDIVISION PROPERTY OF EDWARD HAYDEN ET AL FITCH HILL ROAD MONTVILLE, CONNECTICUT" DATED: 3/10/1972 SCALE: 1"=40'
- THE MERIDIAN OF THIS SURVEY IS REFERENCED TO CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD 83 (EPOCH 2011). POSITION WAS DETERMINED BY GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) AS PROVIDED BY HXGN SMARTNET CONTINUOUSLY OPERATED REFERENCE STATIONS (CORS).
- ELEVATIONS SHOWN ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) (GEOID 128) AS DETERMINED BY GNSS
- BOUNDARY INFORMATION HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN CT, INC. FIELD WORK COMPLETED DURING THE MONTH OF MARCH 2021. TOPOGRAPHIC INFORMATION SHOWN HEREON HAS BE OBTAINED FROM AERIAL LIDAR MAPPING FLOWN BY LANGAN CT, INC. IN MARCH 2021.
- AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM MAP ENTITLED "NEW LONDON COUNTY, CONNECTICUT PANEL 332 OF 554, MAP NUMBER 09011C0332G, EFFECTIVE DATE JULY 18, 2011" THE PROJECT AREA IS IN ZONES X (UNSHADED), X (SHADED), AND A.
- UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC ). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE, THE SURVEYOR CANNOT, AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES.
- ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.
- UNLESS SPECIFICALLY NOTED HEREON, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.
- ALL BUILDINGS AND STRUCTURES WERE LOCATED AND MEASURED AT GROUND LEVEL. THE SURVEYOR MAKES NO DETERMINATIONS OR GUARANTEES AS TO THE ABSENCE, EXISTENCE OR LOCATION OF UNDERGROUND STRUCTURES, FOUNDATIONS, FOOTINGS, PROJECTIONS, WALLS, TANKS, SEPTIC SYSTEMS, ETC. NO TEST PITS, EXCAVATIONS OR GROUND PENETRATING RADAR WERE PERFORMED AS PART OF THIS SURVEY.
- PRIOR TO ANY DESIGN OR CONSTRUCTION, THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.
- THIS SURVEY IS NOT VALID WITHOUT THE EMBOSSED OR INKED SEAL OF THE PROFESSIONAL.



Date	Description	No.
REVISIONS		
ANDREW G. IVES APRIL 27, 2021 PROFESSIONAL LAND SURVEYOR CT. LIC. No. 70286		
<b>LANGAN</b> Langan CT, Inc. 555 Long Wharf Drive New Haven, CT 06511 T: 203.562.5771 F: 203.789.6142 www.langan.com		
Project		
<b>486 FITCH HILL RD</b> UNCAVILLE		
NEW LONDON COUNTY CONNECTICUT Drawing Title		
<b>BOUNDARY SURVEY</b>		
Project No.	Drawing No.	
<b>14023201</b>	<b>VT-0101</b>	
Date		
<b>APRIL 27, 2021</b>		
Drawn By		
<b>RLH</b>	Sheet 1 of 4	
Checked By		
<b>ACI</b>		





Date	Description	No.
REVISIONS		

ANDREW G. IVES APRIL 27, 2021  
PROFESSIONAL LAND SURVEYOR  
CT. LIC. No. 70286

**LANGAN**

Langan CT, Inc.  
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Project

**486 FITCH HILL RD**  
UNCAVILLE

NEW LONDON COUNTY CONNECTICUT

Drawing Title

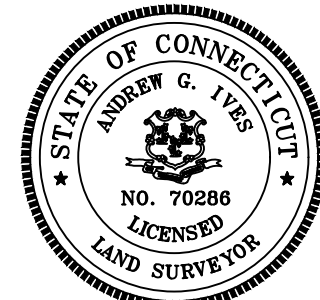
**LIMITED  
TOPOGRAPHIC  
SURVEY**

Project No. <b>14023201</b>	Drawing No. <b>VT-0102</b>
Date <b>APRIL 27, 2021</b>	
Drawn By <b>RLH</b>	
Checked By <b>ACI</b>	Sheet 2 of 4









Date	Description	No.
REVISIONS		
ANDREW G. IVES APRIL 27, 2021 PROFESSIONAL LAND SURVEYOR CT LIC. No. 70286		
<b>LANGAN</b> Langan CT, Inc. 555 Long Wharf Drive New Haven, CT 06511 T: 203.562.5771 F: 203.789.6142 www.langan.com		
Project <b>486 FITCH HILL RD</b> UNCAVILLE		
NEW LONDON COUNTY CONNECTICUT Drawing Title <b>LIMITED TOPOGRAPHIC SURVEY</b>		
Project No. <b>14023201</b>	Drawing No. <b>VT-0104</b>	
Date <b>APRIL 27, 2021</b>	<b>Sheet 4 of 4</b>	
Drawn By <b>RLH</b>		
Checked By <b>ACI</b>		



GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH PROJECT DEVELOPER STANDARDS, TOWN OF MONTVILLE 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.
2. IF NO PROJECT CONSTRUCTION SPECIFICATION PACKAGE IS PROVIDED BY THE PROJECT DEVELOPER OR THEIR REPRESENTATIVE, THE CONTRACTOR SHALL COMPLY WITH THE MANUFACTURER, TOWN OF MONTVILLE, OR CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND BE IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
3. 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 MONTVILLE CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
4. 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.
5. 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.
6. 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.
7. 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.
8. THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
9. 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.
10. THE CONTRACTOR SHALL COMPLY WITH OSHA CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
11. 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 DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
12. 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 THE TOWN OF MONTVILLE.
13. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE PROJECT DEVELOPER AT THE END OF CONSTRUCTION.
14. 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.
15. 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 "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "811" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
16. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.

SITE PLAN NOTES

1. THE SURVEY WAS PROVIDED BY LANGAN, DATED APRIL 27, 2021.
2. THERE ARE BVWS LOCATED ON THE SITE AS INDICATED ON THE PLANS. BVW BOUNDARIES WERE FLAGGED AND LOCATED BY ALL-POINTS TECHNOLOGY CORPORATION, IN MARCH 2021.
3. 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 OF CONSTRUCTION. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
4. PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR BVWS 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.
5. 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.
6. 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 MONTVILLE AND STATE OF CONNECTICUT.
7. 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

1. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE TOWN OF MONTVILLE TO SECURE CONSTRUCTION PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
2. 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.
3. UTILITY LOCATIONS AND PENETRATIONS ARE SHOWN FOR THE CONTRACTORS INFORMATION AND SHALL BE VERIFIED WITH THE ELECTRICAL ENGINEER AND THE PROJECT DEVELOPERS CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
4. 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.
5. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
6. 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.
7. 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.
8. 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 MONTVILLE.
9. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
10. RELOCATION OF UTILITY PROVIDER FACILITIES, SUCH AS POLES, SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.
11. 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.
12. CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.
13. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER REQUIREMENTS.
14. 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.
15. 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 THE TOWN OF MONTVILLE.
16. 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 "CALL BEFORE YOU DIG" 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.
17. 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.
18. ELECTRIC DRAWINGS AND REQUIREMENTS ARE NOT INCLUDED AS PART OF THIS DRAWING SET AND SHOULD BE OBTAINED FROM THE PROJECT DEVELOPER.
19. 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.
20. 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 MONTVILLE, 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		
OVERHEAD ELECTRIC		
GAS LINE		
WATER LINE		
BASIN		
SWALE		
FENCE		
LIMIT OF DISTURBANCE		
LIMIT OF CLEARING AND GRUBBING		
FILTER SOCK		
SILT FENCE		
BAFFLE		

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WATERFORD, CT 06385    PHONE: (860)-663-1697  
WWW.ALLPOINTSTECH.COM    FAX: (860)-663-0935

CSC PERMIT SET		
NO.	DATE	REVISION
0	01/10/22	SITING COUNCIL SUBMISSION
1	04/12/22	COUNCIL INTERROGATORIES
2		
3		
4		
5		
6		

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:	N SILVER BROOK HOLDINGS LLC
ADDRESS: 511 FITCH HILL ROAD UNCASVILLE, CT 06382	

N SILVER BROOK SOLAR	
SITE 486 FITCH HILL ROAD ADDRESS: UNCASVILLE, CT 06382	
APT FILING NUMBER: CT657140	
	DRAWN BY: CH
DATE: 12/14/21	CHECKED BY: KAM

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:	
---------------	--

GN-1







N/F  
NOELLA POND ET AL.  
67 VELGOUSE RD  
047-002-00A

N/F  
DAVID W MAURICE  
65 VELGOUSE RD  
047-002-00B

N/F  
BRIAN D HALL  
61 VELGOUSE RD  
047-002-000

N/F  
MICHAEL T STAEHLE  
54 VELGOUSE RD  
046-047-000

N/F  
WENDY DANIELS  
44 VELGOUSE RD  
046-046-00A

N/F  
NORMAN I & SALLY A GAUTHIER  
40 VELGOUSE RD  
046-046-000

N/F  
KIM M & TODD B PIKE  
39 VELGOUSE RD  
047-003-000

N/F  
JAMES A SR & JOANN A BABCOCK  
33 VELGOUSE RD  
047-004-000

DANIEL AND REBECCA L COY  
31 VELGOUSE RD  
047-004-T00

N/F  
WILLIAM STANKIEWICZ  
510 FITCH HILL RD  
047-051-001

N/F  
GARY R STRINGER SR  
514 FITCH HILL RD  
047-052-000

N/F  
MICHAEL L & KENDRA Y CAMPBELL  
518 FITCH HILL RD  
047-052-00A

N/F  
PAUL E & DEBORAH L GRESSLEY  
677 RAYMOND HILL RD  
047-057-000

N/F  
WAYNE S & KATHRYN A NELSON  
679 RAYMOND HILL RD  
039-012-00A

N/F  
JOAL & BRUCE A PATTERSON  
670 RAYMOND HILL RD  
039-041-000

N/F  
MELANIE A JENSEN  
662 RAYMOND HILL RD  
039-040-000

N/F  
ROBERT A & AMY B STOODT  
656 RAYMOND HILL RD  
039-039-000

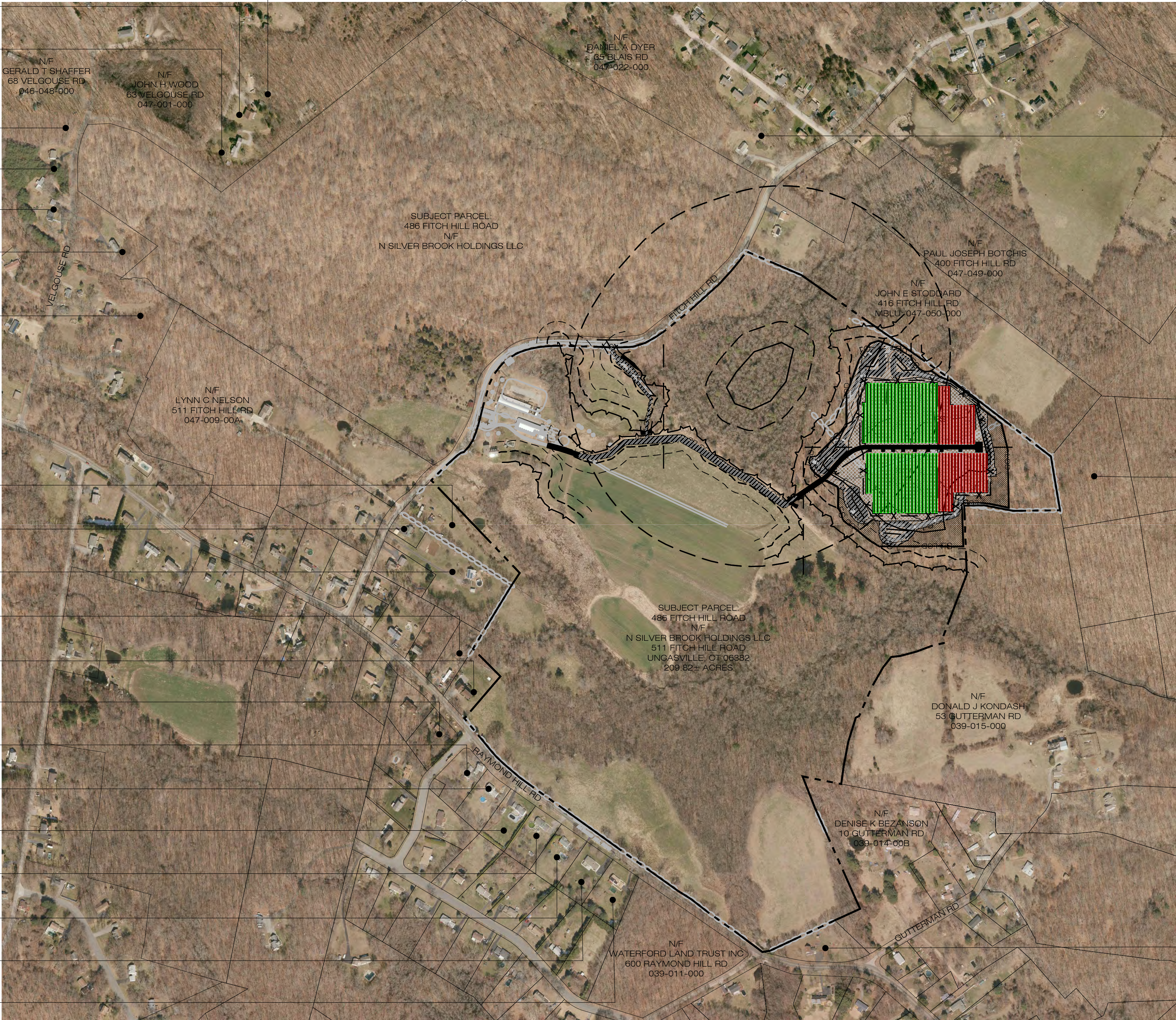
N/F  
JOHN CAMERON  
650 RAYMOND HILL RD  
039-038-000

N/F  
VIVIAN MARY KEITH  
644 RAYMOND HILL RD  
039-037-000

N/F  
JEREMY C & CHRYSTAL R LURETTE  
638 RAYMOND HILL RD  
039-036-000

N/F  
BARBARA ANN J BROWN  
632 RAYMOND HILL RD  
039-035-000

N/F  
CHRISTINA & JOHNATHAN CORMIER  
626 RAYMOND HILL RD  
039-034-000



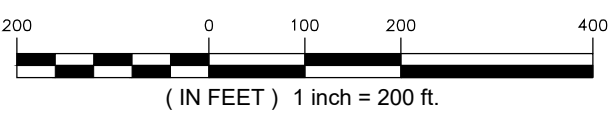
N/F  
GARY BRODASKI  
406 FITCH HILL RD  
047-010-000

N/F  
ROBERT & PAULINE D PORACH  
GUTTERMAN RD  
048-006-000

N/F  
ROBERT A & MELISSA J COCHRAN  
587 RAYMOND HILL RD  
039-013-000



1  
OP-1  
**OVERALL LOCUS MAP**  
SCALE : 1" = 200'-0"



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WATERFORD, CT 06385 PHONE: (860)-663-1697  
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**CSC PERMIT SET**

NO	DATE	REVISION
0	01/10/22	SITING COUNCIL SUBMISSION
1	04/12/22	COUNCIL INTERROGATORIES
2		
3		
4		
5		
6		

**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: N SILVER BROOK HOLDINGS LLC  
ADDRESS: 511 FITCH HILL ROAD  
UNCASVILLE, CT 06382

**N SILVER BROOK SOLAR**

SITE 486 FITCH HILL ROAD  
ADDRESS: UNCASVILLE, CT 06382

APT FILING NUMBER: CT657140

DRAWN BY: CH	
DATE: 12/14/21	CHECKED BY: KAM

**SHEET TITLE:**

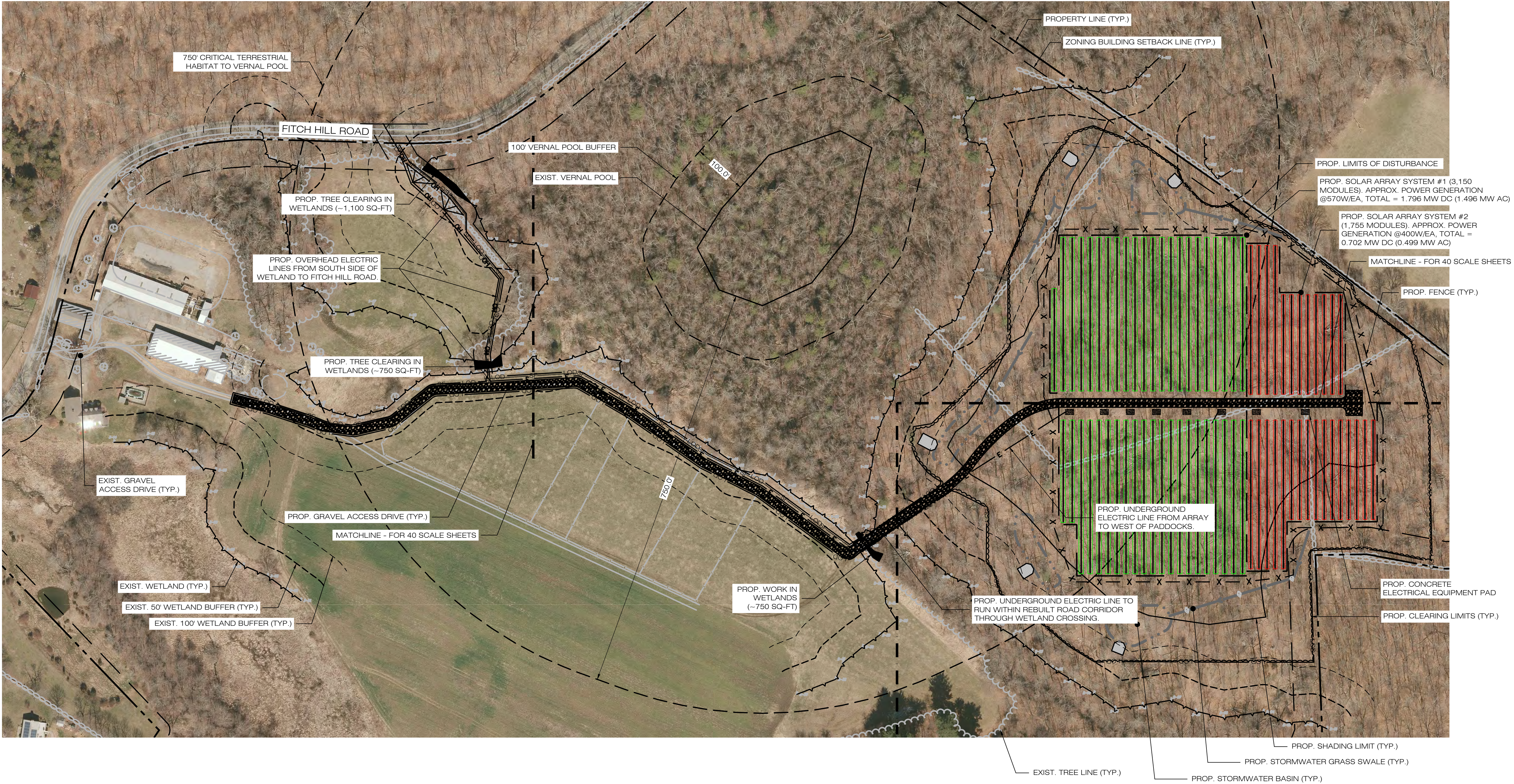
**OVERALL LOCUS MAP**

**SHEET NUMBER:**

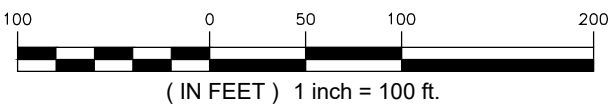
**OP-1**







1  
OP-1  
**PARTIAL SITE PLAN**  
SCALE: 1" = 100'-0"



TRITEC

AMERICAS

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

ALL-POINTS

TECHNOLOGY CORPORATION

567 VAUXHAUL STREET EXTENSION - SUITE 311  
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SHEET TITLE:  
**PARTIAL SITE 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 MONTVILLE, 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 HYDROSEEDDED 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.
- PERMANENT SEEDING MIXTURES SHALL BE AS DETAILED ON SHEET DN-2.

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, INCLUDING THE CLEARING, GRUBBING AND GRADING OF APPROXIMATELY 15.25± ACRES OF EXISTING LOT.  
  
THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:  
A. CLEARING, GRUBBING, AND GRADING OF EXISTING LOT.  
B. CONSTRUCTION OF 4,905 GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT.  
C. THE STABILIZATION OF DISTURBED AREAS WITH PERMANENT VEGETATIVE TREATMENTS.
- FOR THIS PROJECT, THERE ARE APPROXIMATELY 15.25± 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 18, DEC 6, 2018), CONTAINS TYPE 68C, 68D, 73C AND 703B (HYDROLOGIC SOIL GROUP B) AND 702B (HYDROLOGIC SOIL GROUP C). 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 MONTVILLE 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:  
A. STAGED CONSTRUCTION;  
B. MINIMIZE THE DISTURBED AREAS TO THE EXTENT PRACTICABLE DURING CONSTRUCTION;  
C. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT MEASURES AS SOON AS POSSIBLE, BUT NO LATER THAN 7-DAYS FOLLOWING DISTURBANCE;  
D. MINIMIZE IMPERVIOUS AREAS;  
E. UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.
- THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN:  
A. STORMWATER MANAGEMENT REPORT DATED DECEMBER 2021.  
B. SWPCP, TO BE ISSUED AT A LATER DATE.

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 OWNERS 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 811, AS REQUIRED, PRIOR TO THE START OF CONSTRUCTION.
- PHASE 1
- REMOVE EXISTING IMPEDIMENTS AS NECESSARY AND PROVIDE MINIMAL CLEARING AND GRUBBING TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCE/S.
  - CLEAR ONLY AS NEEDED TO INSTALL THE PERIMETER EROSION AND SEDIMENTATION CONTROL MEASURES AND, IF APPLICABLE, TREE PROTECTION. ALL WETLAND AREAS SHALL BE PROTECTED BEFORE MAJOR CONSTRUCTION BEGINS.
  - INSTALL PERIMETER EROSION CONTROL.
  - INSTALL EROSION CONTROL BELOW EQUIPMENT AREA AND INSTALL CONCRETE EQUIPMENT PADS AND CONDUITS PROTECTED BY THESE CONTROLS.
- 8A. INSTALL TEMPORARY SEDIMENT TRAPS 3B & 3C AND ASSOCIATED SWALES. UPON COMPLETION OF THE INSTALLATION AND STABILIZATION OF THE BASIN AND SWALES, PHASE 2 WORK UP GRADIENT CAN PROCEED.
- 8B. INSTALL TEMPORARY SEDIMENT TRAPS 2A & 2B AND ASSOCIATED SWALES. UPON COMPLETION OF THE INSTALLATION AND STABILIZATION OF THE BASIN AND SWALES, PHASE 2 WORK UP GRADIENT CAN PROCEED.
- 8C. INSTALL TEMPORARY SEDIMENT TRAP 1 AND ASSOCIATED SWALES. UPON COMPLETION OF THE INSTALLATION AND STABILIZATION OF THE BASIN AND SWALES, PHASE 2 WORK UP GRADIENT CAN PROCEED.

PHASE 2

- UPON COMPLETION OF THE INSTALLATION OF EACH OF THE TEMPORARY SEDIMENT TRAPS; THE AREA ABOVE THE BASIN CAN HAVE THE REMAINING ARRAY AREA CLEARING AND GRUBBING COMPLETED AS REQUIRED. REMOVE CUT WOOD AND STOCKPILE FOR FUTURE USE OR REMOVE OFF-SITE. REMOVE AND DISPOSE OF DEMOLITION DEBRIS OFF-SITE IN ACCORDANCE WITH APPLICABLE LAWS.
- TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.
- INSTALL REMAINING ELECTRICAL CONDUIT.
- 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 ANY REQUIRED LANDSCAPE SCREENING, AND 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 IF NECESSARY THE TOWN OF MONTVILLE AGENT, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS.



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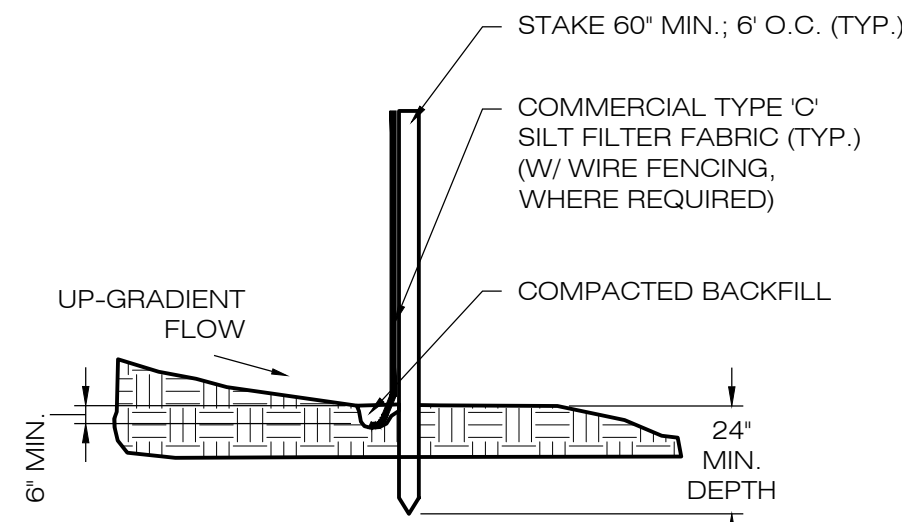
SEDIMENTATION & EROSION CONTROL NOTES

SHEET NUMBER:

EC-1

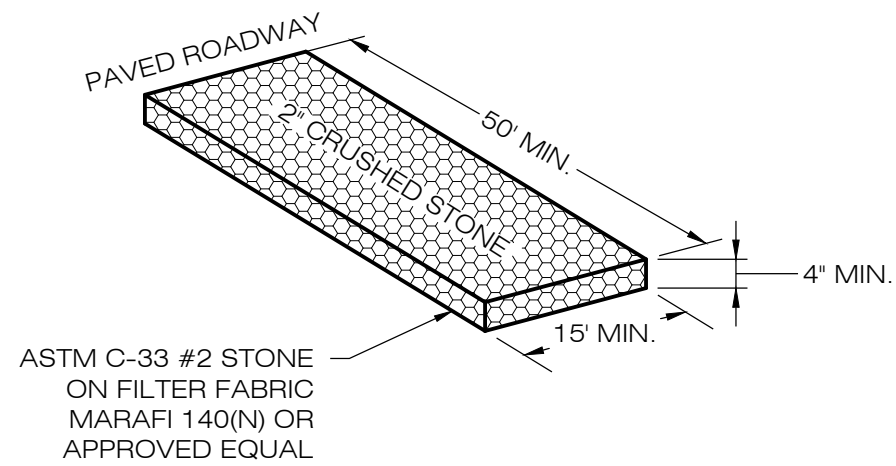




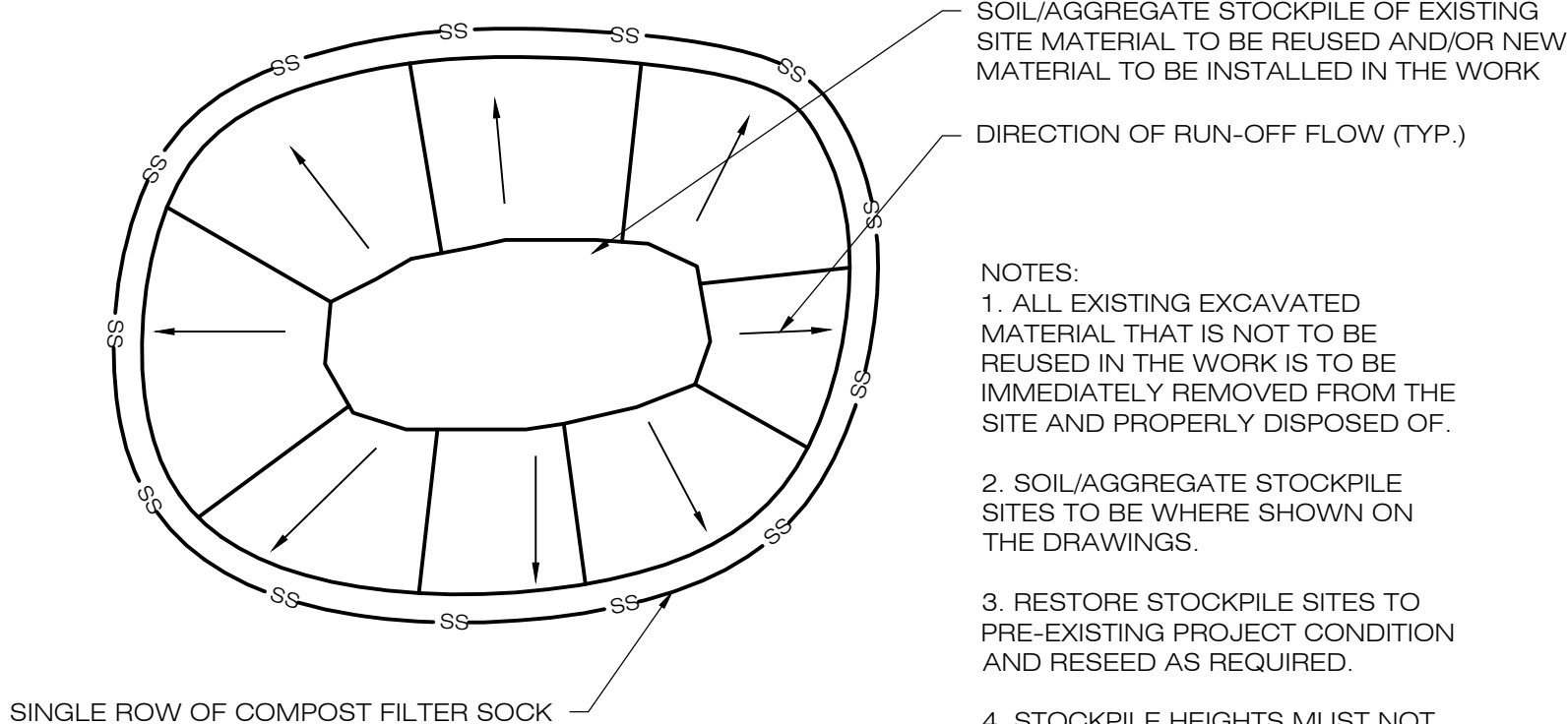


NOTE:  
SILT FENCE SHALL BE LAPPED ONLY  
WHEN NECESSARY PER THE  
MANUFACTURER RECOMMENDATIONS.

1  
EC-4  
**SILT FENCE DETAIL**  
SCALE : N.T.S.



2  
EC-4  
**CONSTRUCTION  
ENTRANCE DETAIL**  
SCALE : N.T.S.



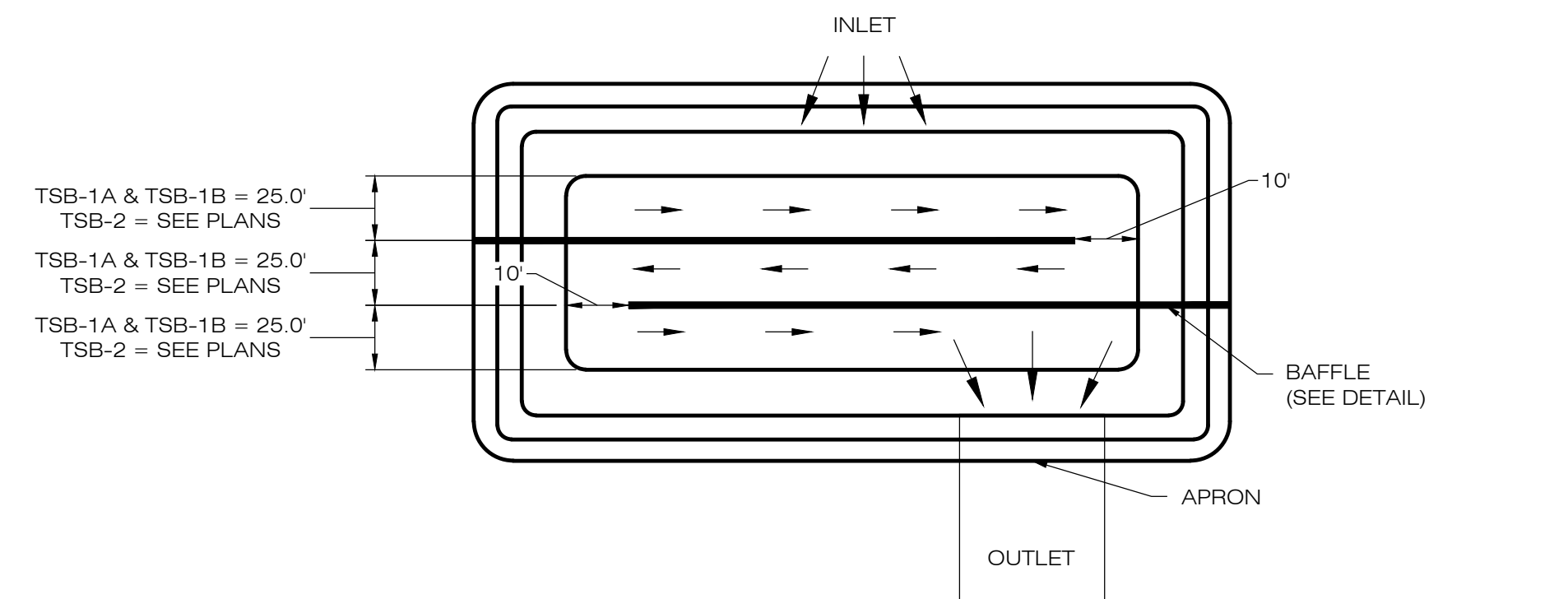
NOTES:  
1. ALL EXISTING EXCAVATED  
MATERIAL THAT IS NOT TO BE  
REUSED IN THE WORK IS TO BE  
IMMEDIATELY REMOVED FROM THE  
SITE AND PROPERLY DISPOSED OF.

2. SOIL/AGGREGATE STOCKPILE  
SITES TO BE WHERE SHOWN ON  
THE DRAWINGS.

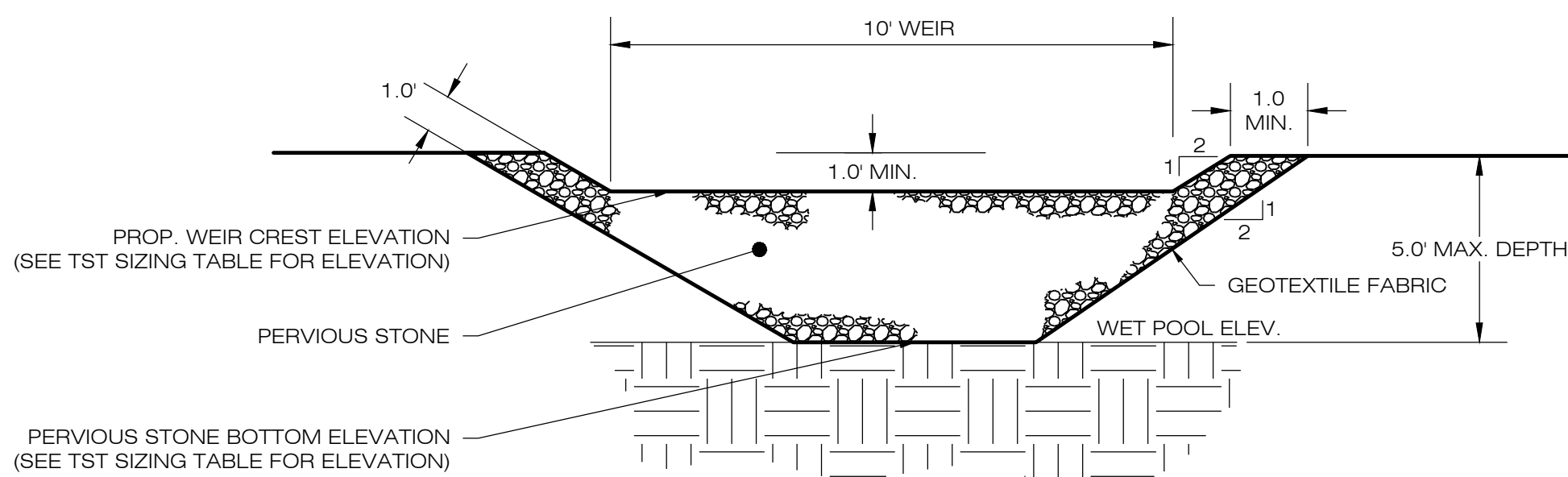
3. RESTORE STOCKPILE SITES TO  
PRE-EXISTING PROJECT CONDITION  
AND RESEED AS REQUIRED.

4. STOCKPILE HEIGHTS MUST NOT  
EXCEED 35'. STOCKPILE SLOPES  
MUST BE 2:1 OR FLATTER.

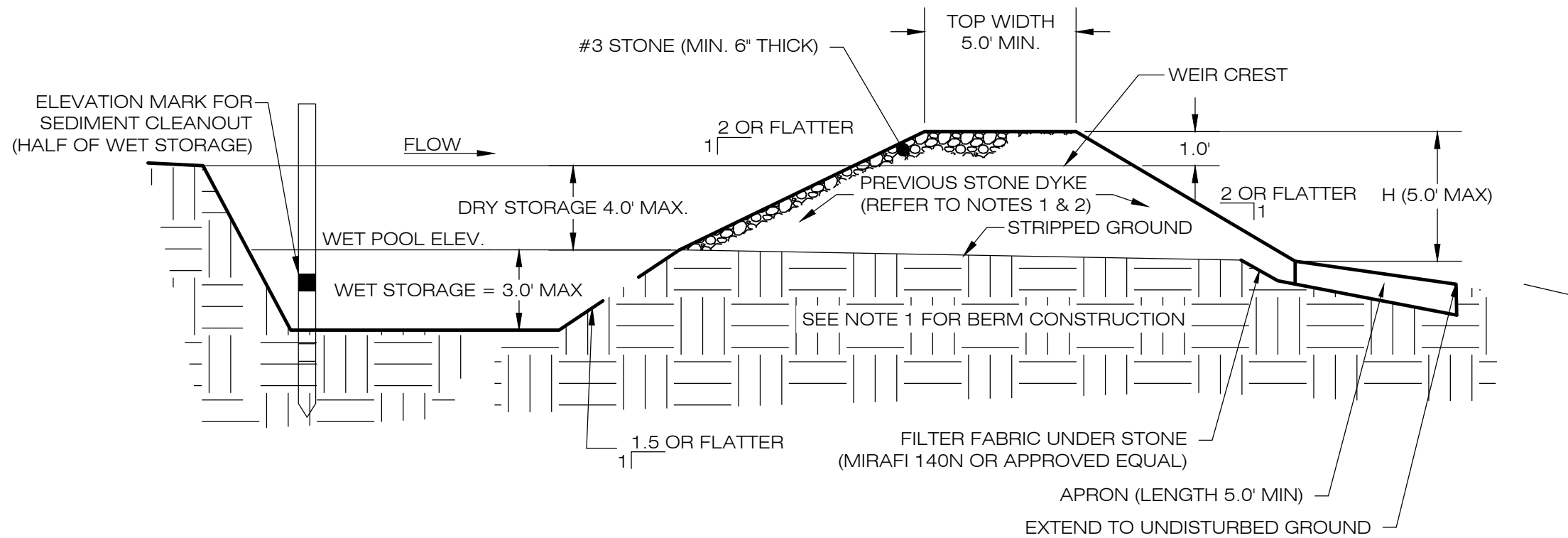
3  
EC-4  
**MATERIALS STOCKPILE DETAIL**  
SCALE : N.T.S.



TOP VIEW



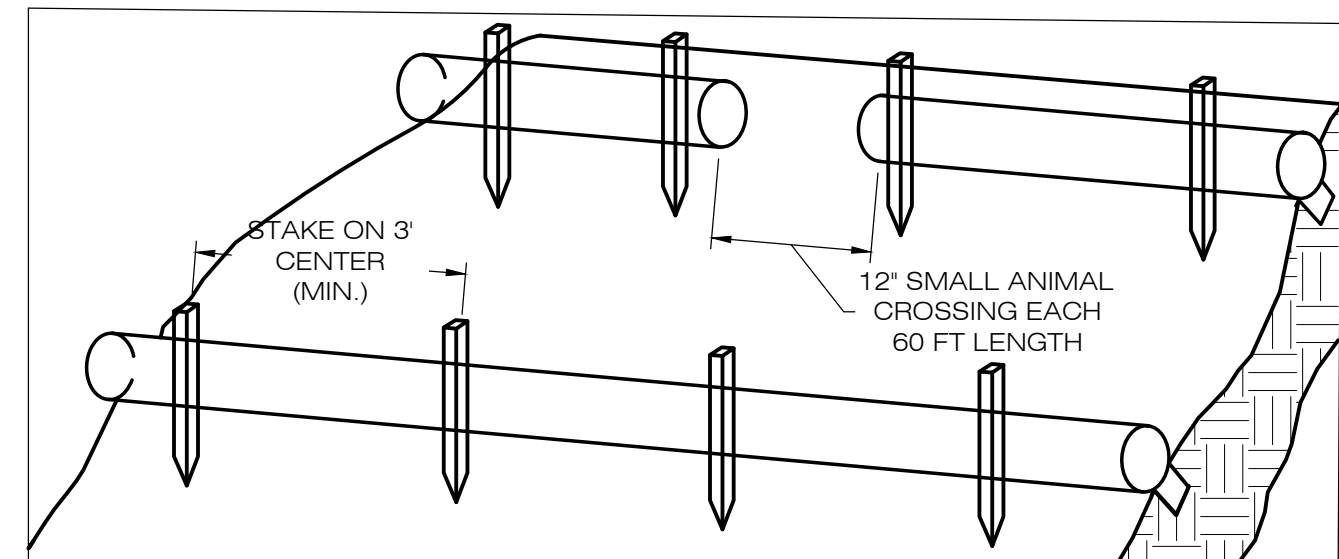
OUTLET ELEVATION



NOTES:  
1. CONSTRUCT TEMPORARY SEDIMENT TRAP BERMS AND SIDEWALLS PER THE INFILTRATION BASIN DETAIL.  
2. PERVIOUS STONE DIKE SHALL BE CONSTRUCTED OF CT DOT MODIFIED RIP-RAP WITH #3 STONE ON FACE.  
3. SEDIMENT TRAP BAFFLES SHALL BE INSTALLED AS SHOWN ON EC-1 AND EC-2.  
4. SEE TST SIZING TABLE FOR WET AND DRY STORAGE VOLUMES.

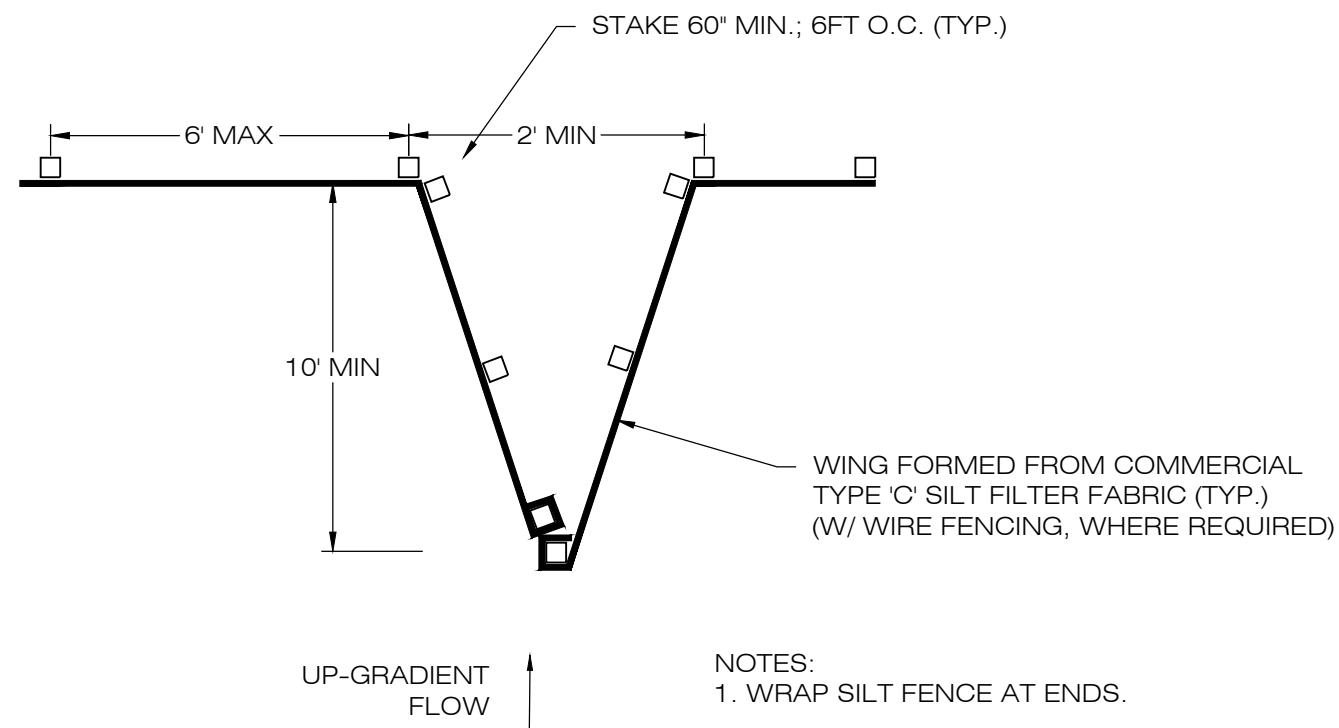
5  
EC-4  
**TEMPORARY SEDIMENT TRAP**  
SCALE : N.T.S.

TEMPORARY SEDIMENT TRAP SIZING TABLE										
NAME	DRAINAGE AREA (AC)	SEDIMENT VOLUME/ACRE AREA (CY)	REQ. VOLUME (CY)	REQ. WET VOLUME (CY)	PROP. BTM. ELEV. (FT)	PROP. STONE DIKE BTM. ELEV. (FT)	PROP. WEIR CREST ELEV. (FT)	PROP. TOP ELEV. (FT)	WET VOL. PROVIDED (CY)	TOTAL VOL. PROVIDED. (CY)
TST-1	2.21 AC	134 CY	296 CY	148 CY	250.0'	252.0'	253.0'	255.0'	234.52 CY	673.89 CY
TST-2A	3.04 AC	134 CY	407 CY	203.5 CY	247.0'	249.0'	250.0'	252.0'	341.93 CY	689.34 CY
TST-2B	1.58 AC	134 CY	212 CY	106 CY	244.0'	246.0'	247.0'	249.0'	270.39 CY	572.01 CY
TST-3B	2.90 AC	134 CY	389 CY	194.5 CY	250.0'	252.0'	253.0'	255.0'	392.74 CY	775.36 CY
TST-3C	1.34 AC	134 CY	180 CY	90 CY	249.0'	251.0'	252.0'	254.0'	202.09 CY	447.21 CY



1. BEGIN AT THE LOCATION WHERE THE SOCK IS TO BE INSTALLED BY EXCAVATING A 2'-3" (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE FROM THE ANCHOR TRENCH.  
2. PLACE THE SOCK IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE SOCK ON THE UPHILL SIDE. SOCKS SHALL BE INSTALLED IN 60 FT CONTINUOUS LENGTHS WITH ADJACENT SOCKS TIGHTLY ABUT. EVERY 60 FT THE SOCK ROW SHALL BE SPACED 12 INCHES CLEAR, END TO END, FOR AMPHIBIAN AND REPTILE TRAVEL. THE OPEN SPACES SHALL BE STAGGERED MID LENGTH OF THE NEXT DOWN GRADIENT SOCK.  
3. SECURE THE SOCK WITH 18-24" (45.7-61 CM) STAKES EVERY 3'-4' (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE SOCK LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE SOCK. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

4  
EC-4  
**COMPOST FILTER SOCK  
SEDIMENTATION CONTROL BARRIER**  
SCALE : N.T.S.



NOTES:  
1. WRAP SILT FENCE AT ENDS.  
2. NO JOINING FENCE SECTIONS SHALL BE  
INSTALLED WITHIN 30 FEET OF WING.

8  
EC-4  
**SILT FENCE WING DETAIL**  
SCALE : N.T.S.



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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: N SILVER BROOK HOLDINGS LLC  
ADDRESS: 511 FITCH HILL ROAD  
UNCASVILLE, CT 06382

#### N SILVER BROOK SOLAR

SITE 486 FITCH HILL ROAD  
ADDRESS: UNCASVILLE, CT 06382

APT FILING NUMBER: CT657140

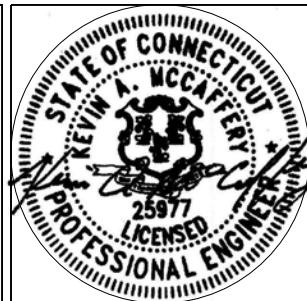
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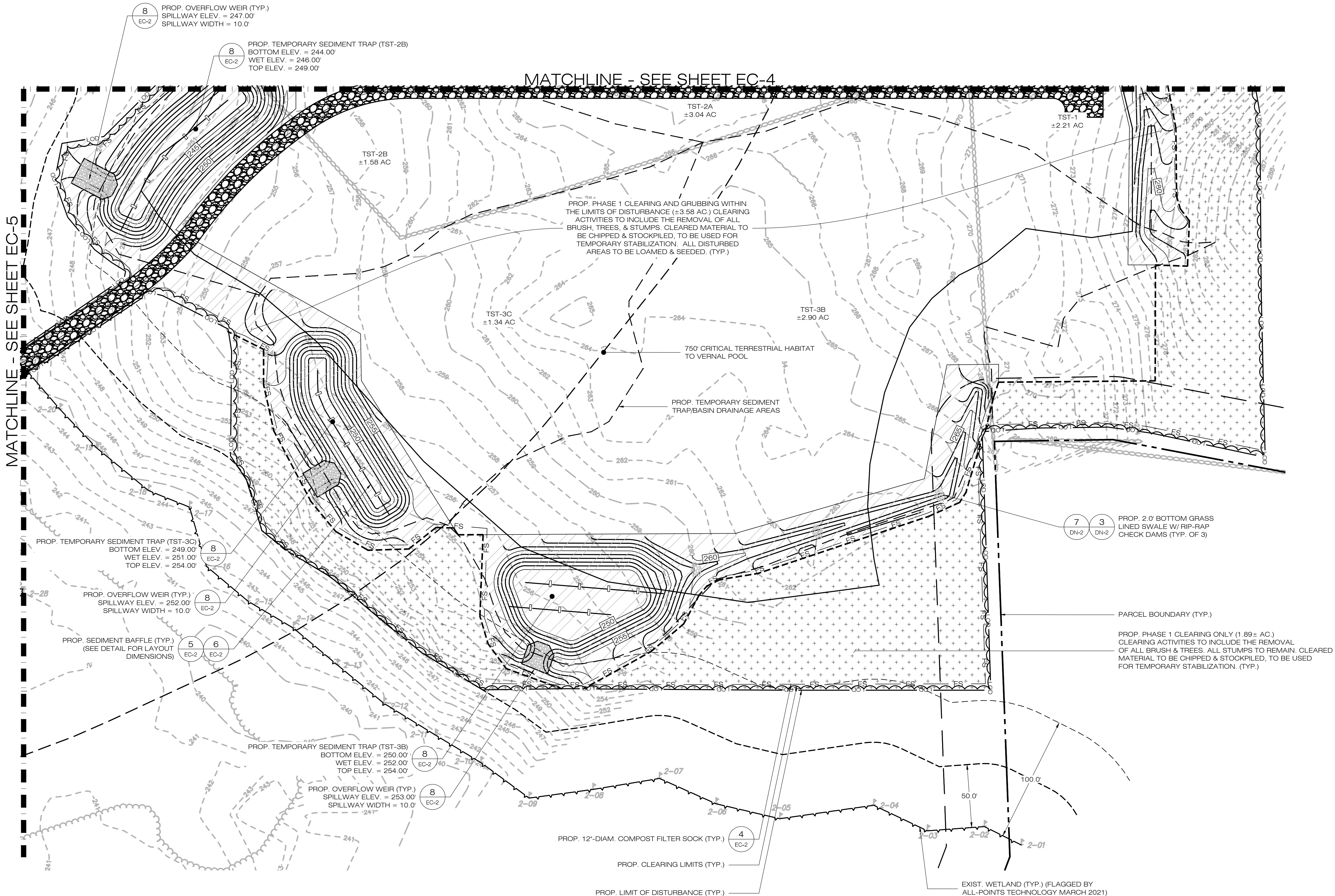
**SEDIMENTATION &  
EROSION CONTROL  
DETAILS**

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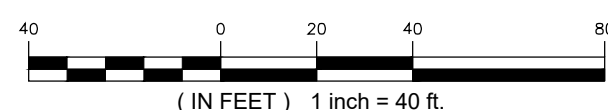
**EC-2**







1  
EC-3 **PHASE 1 - SEDIMENTATION & EROSION CONTROL PLAN**  
SCALE : 1" = 40'-0"



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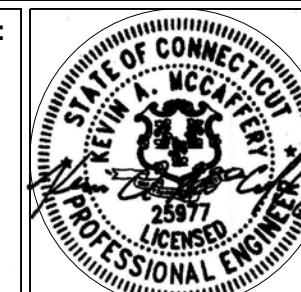
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**PHASE 1  
SEDIMENTATION &  
EROSION CONTROL PLAN**

SHEET NUMBER:

**EC-3**







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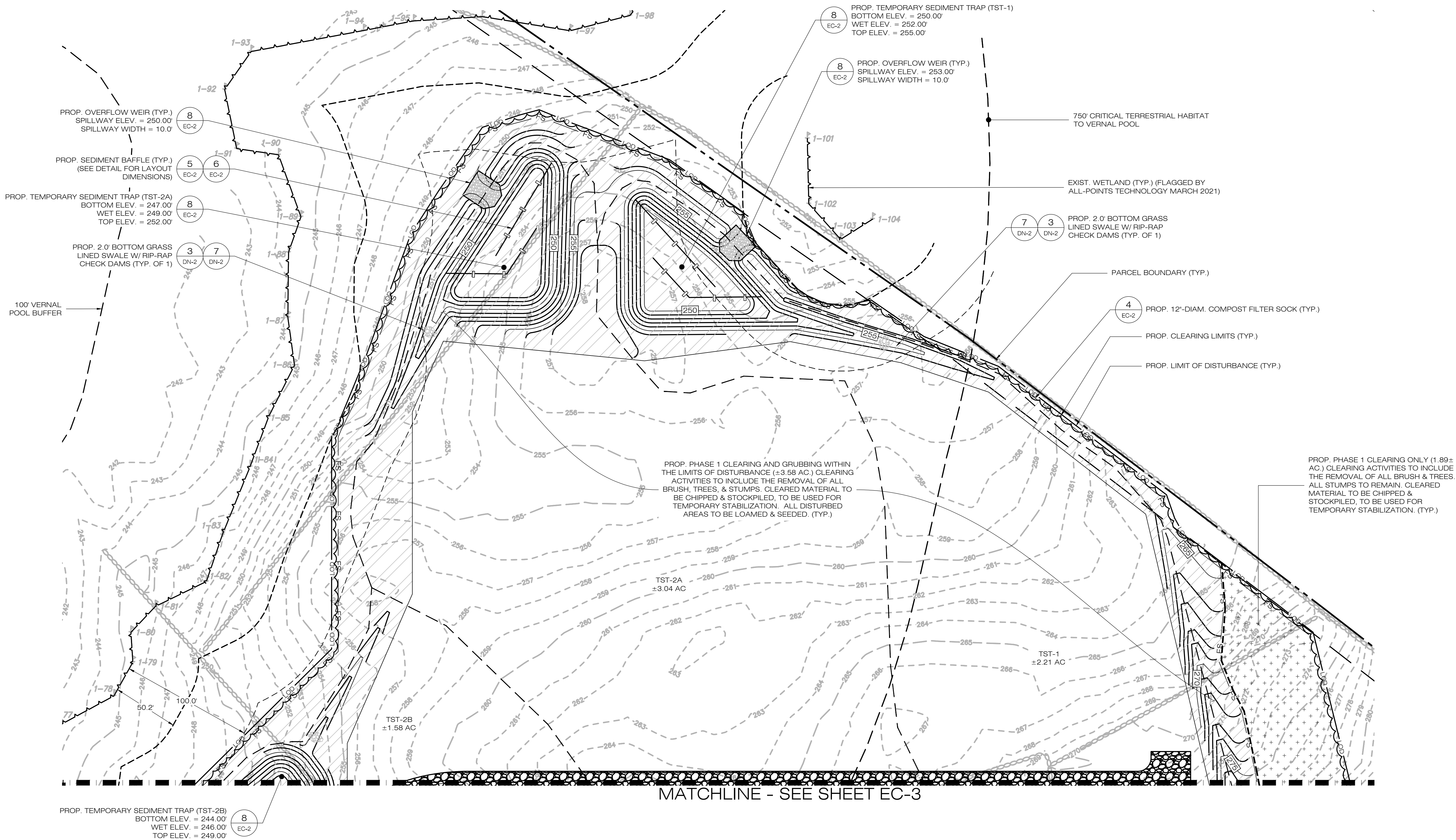
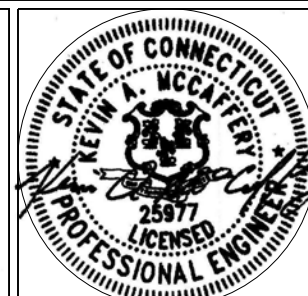
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CHECKED BY: KAM

#### SHEET TITLE:

PHASE 1  
SEDIMENTATION &  
EROSION CONTROL PLAN

#### SHEET NUMBER:

EC-4



## PHASE 1 - SEDIMENTATION & EROSION CONTROL PLAN

SCALE: 1" = 40'-0"

40 0 20 40 80  
(IN FEET) 1 inch = 40 ft.





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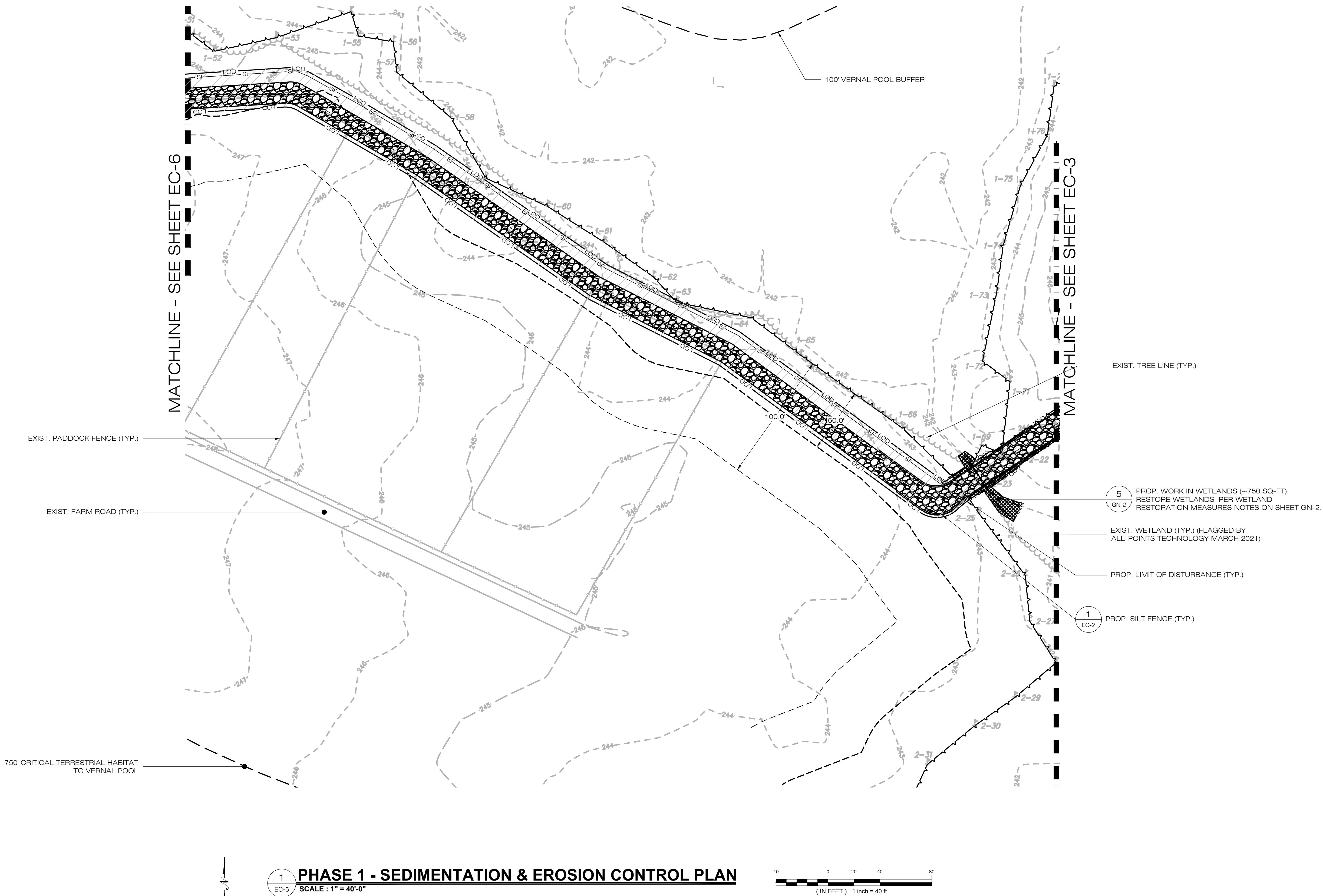
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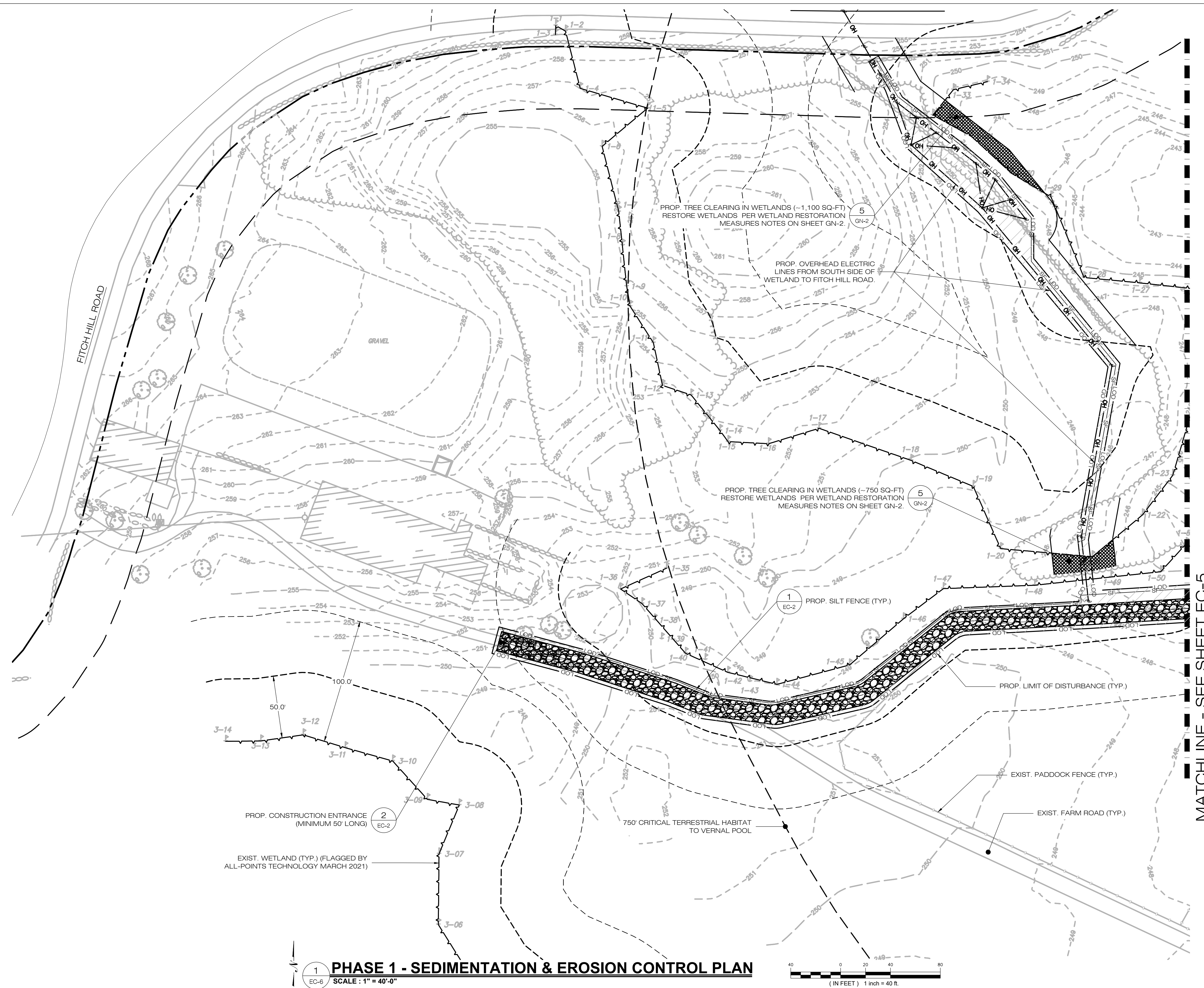
PHASE 1  
SEDIMENTATION &  
EROSION CONTROL PLAN

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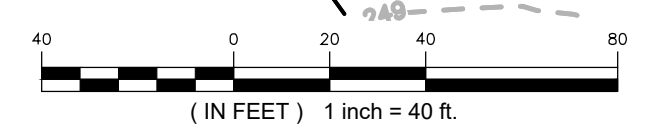
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**PHASE 1 - SEDIMENTATION & EROSION CONTROL PLAN**  
SCALE : 1" = 40'-0"



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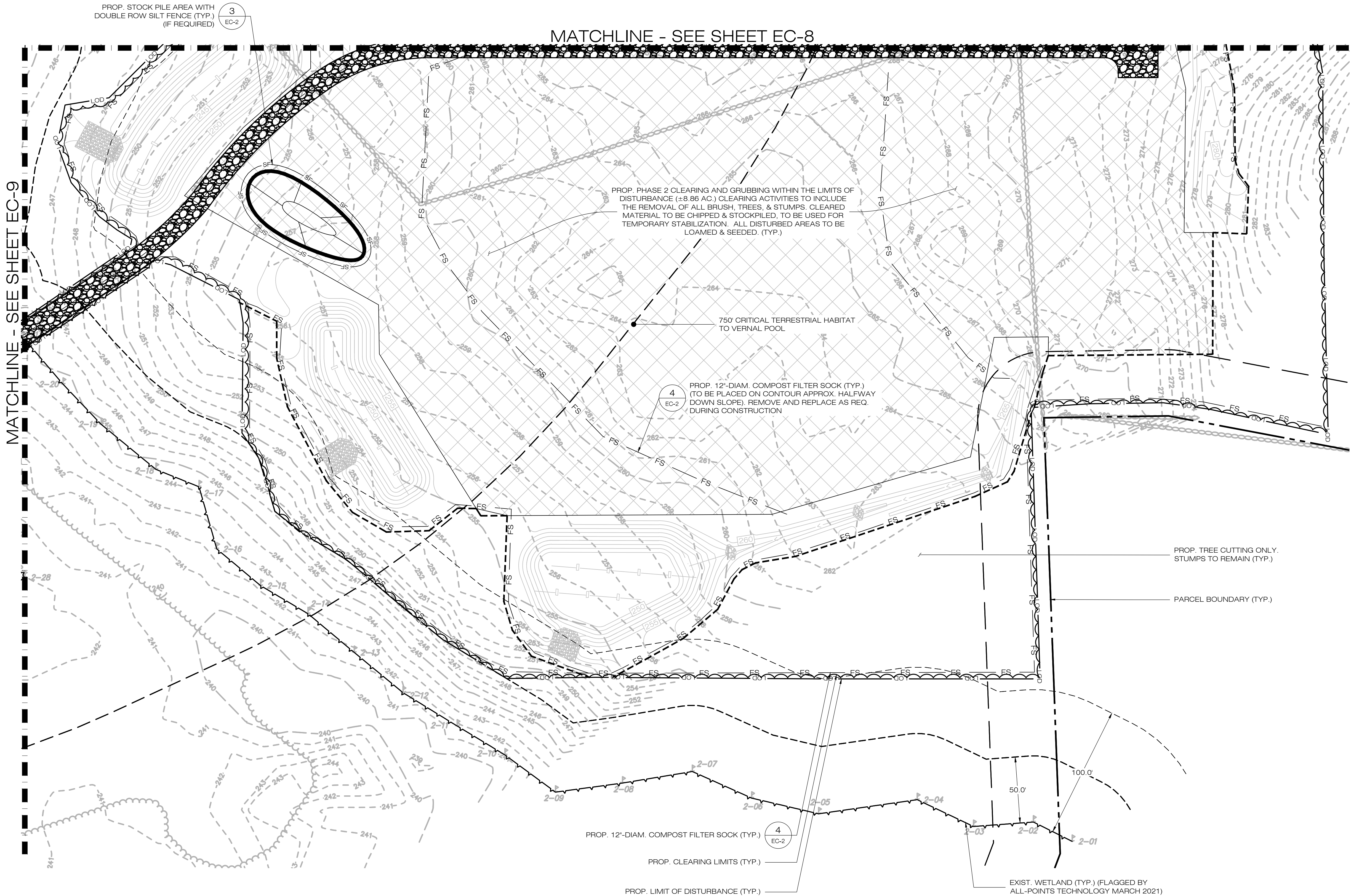
**N SILVER BROOK SOLAR**  
SITE 486 FITCH HILL ROAD  
ADDRESS: UNCASVILLE, CT 06382  
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**PHASE 1  
SEDIMENTATION &  
EROSION CONTROL PLAN**

SHEET NUMBER:  
**EC-6**



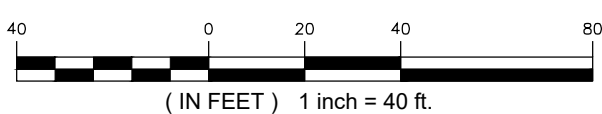




1  
EC-7

**PHASE 2 - SEDIMENTATION & EROSION CONTROL PLAN**

SCALE : 1" = 40'-0"



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**N SILVER BROOK SOLAR**

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ADDRESS: UNCASVILLE, CT 06382

APT FILING NUMBER: CT657140

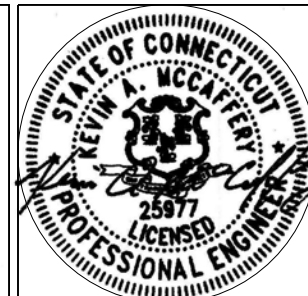
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**SHEET TITLE:**

**PHASE 2  
SEDIMENTATION &  
EROSION CONTROL PLAN**

**SHEET NUMBER:**

**EC-7**







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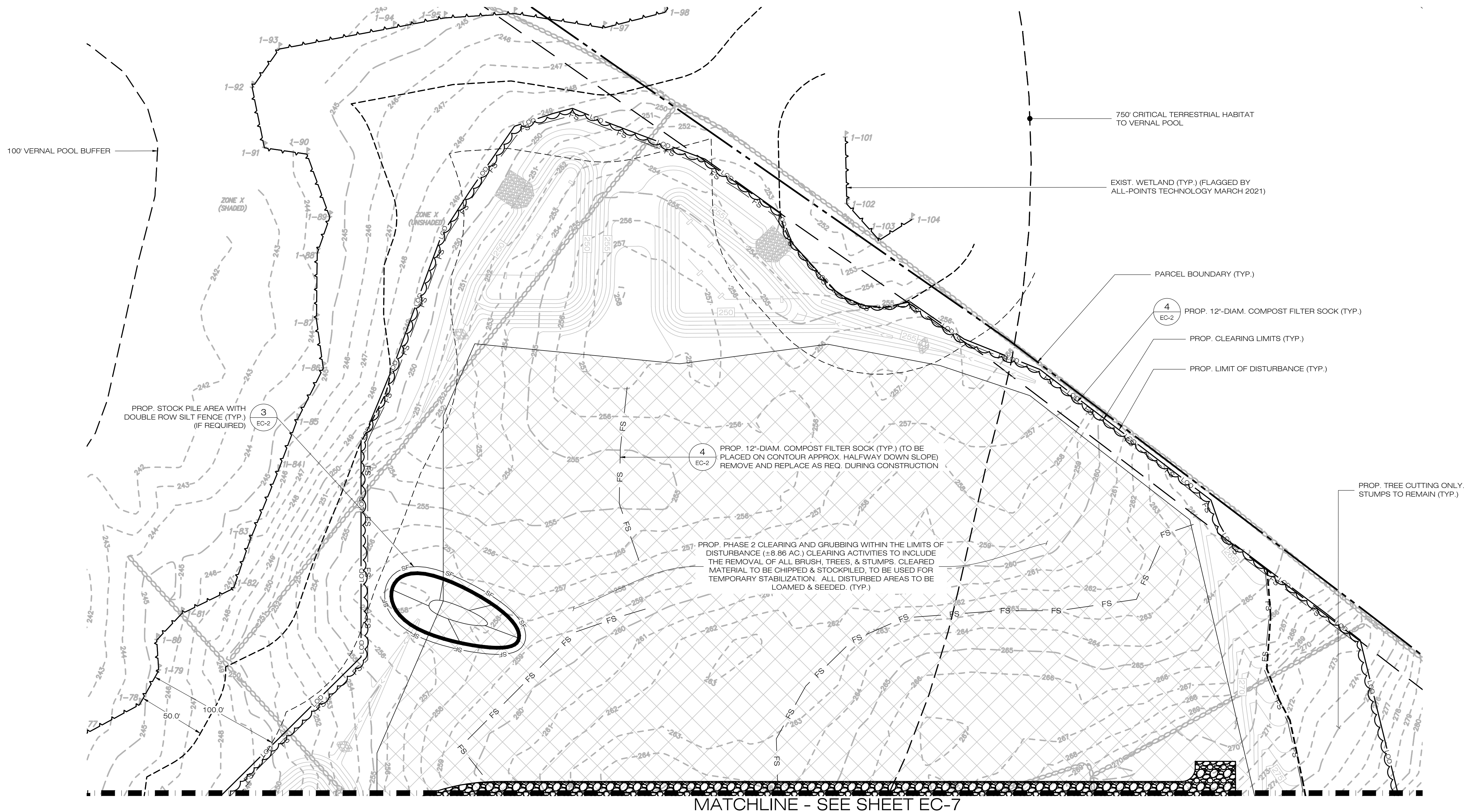
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**PHASE 2  
SEDIMENTATION &  
EROSION CONTROL PLAN**

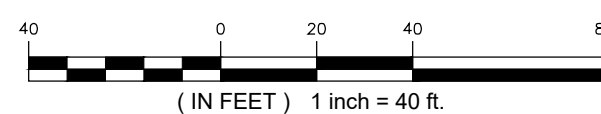
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**EC-8**



### 1 PHASE 2 - SEDIMENTATION & EROSION CONTROL PLAN

EC-8 SCALE : 1" = 40'-0"







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ADDRESS: UNCASVILLE, CT 06382

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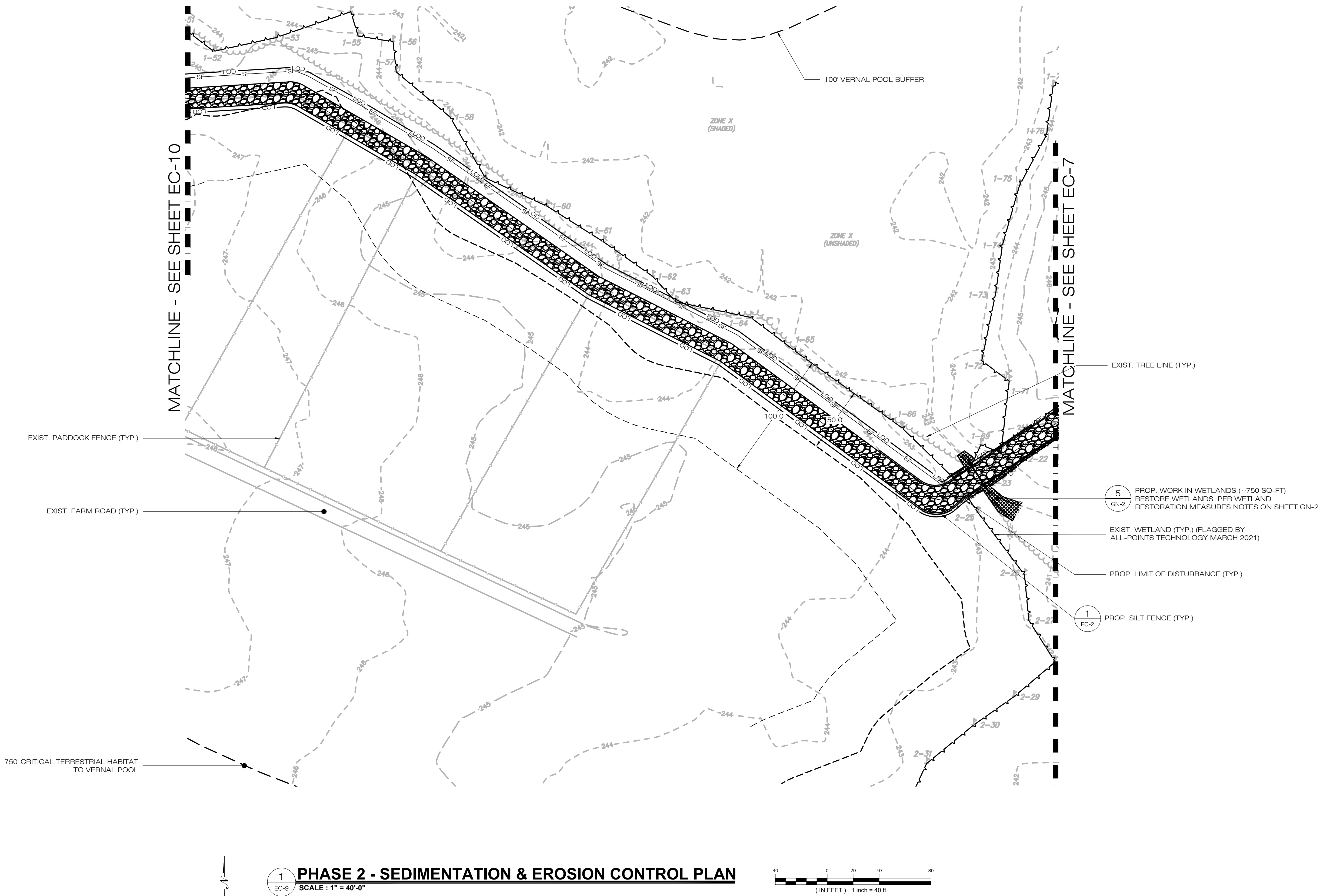
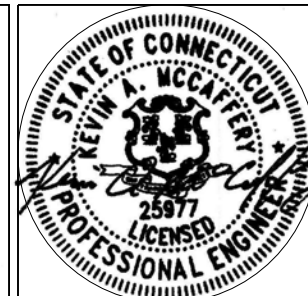
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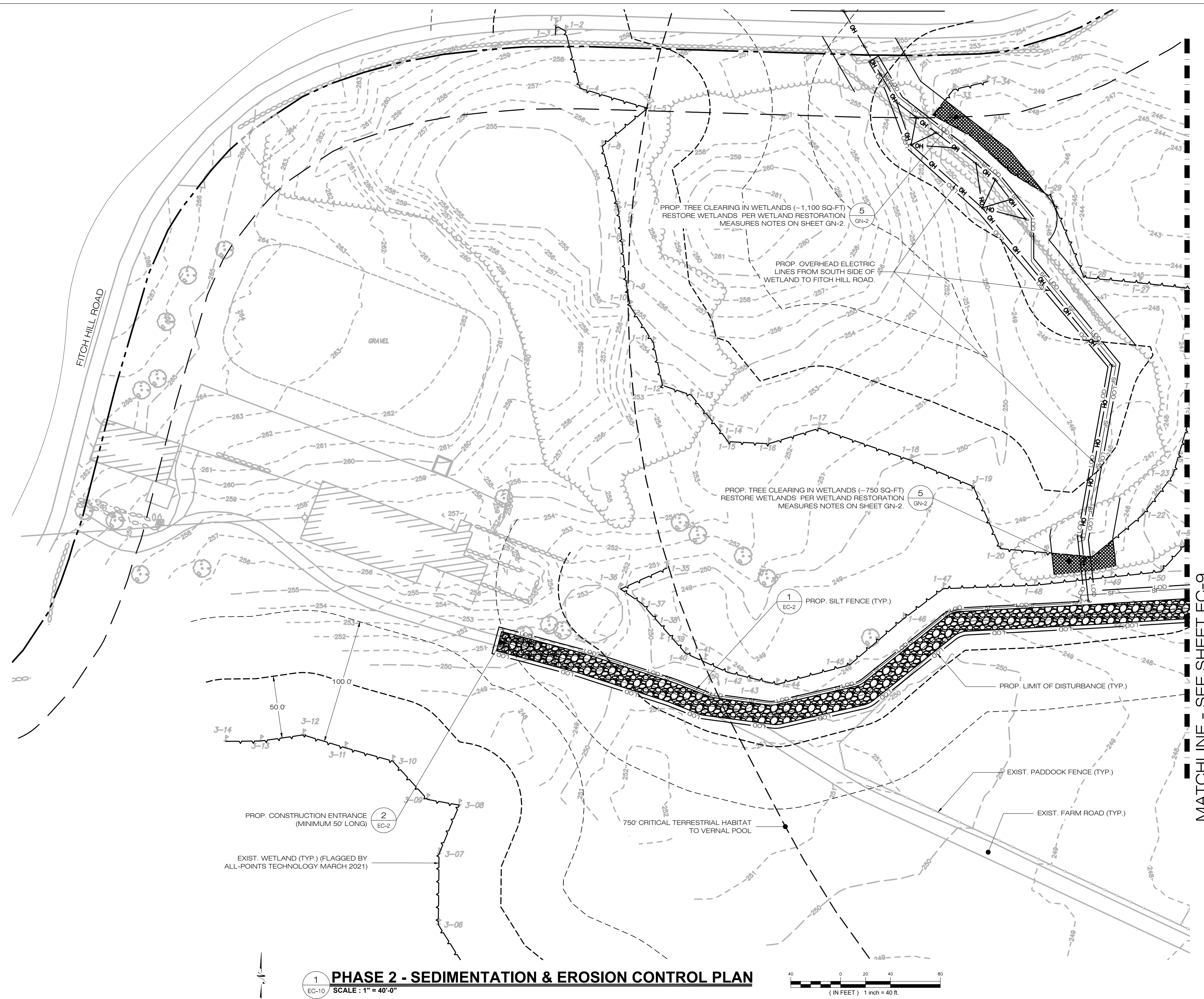
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SEDIMENTATION &  
EROSION CONTROL PLAN

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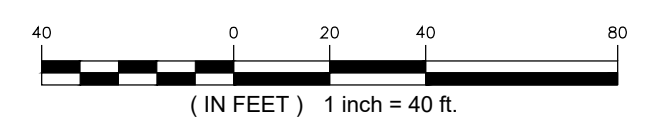
EC-9







**PHASE 2 - SEDIMENTATION & EROSION CONTROL PLAN**  
SCALE : 1" = 40'-0"



MATCHLINE - SEE SHEET EC-9



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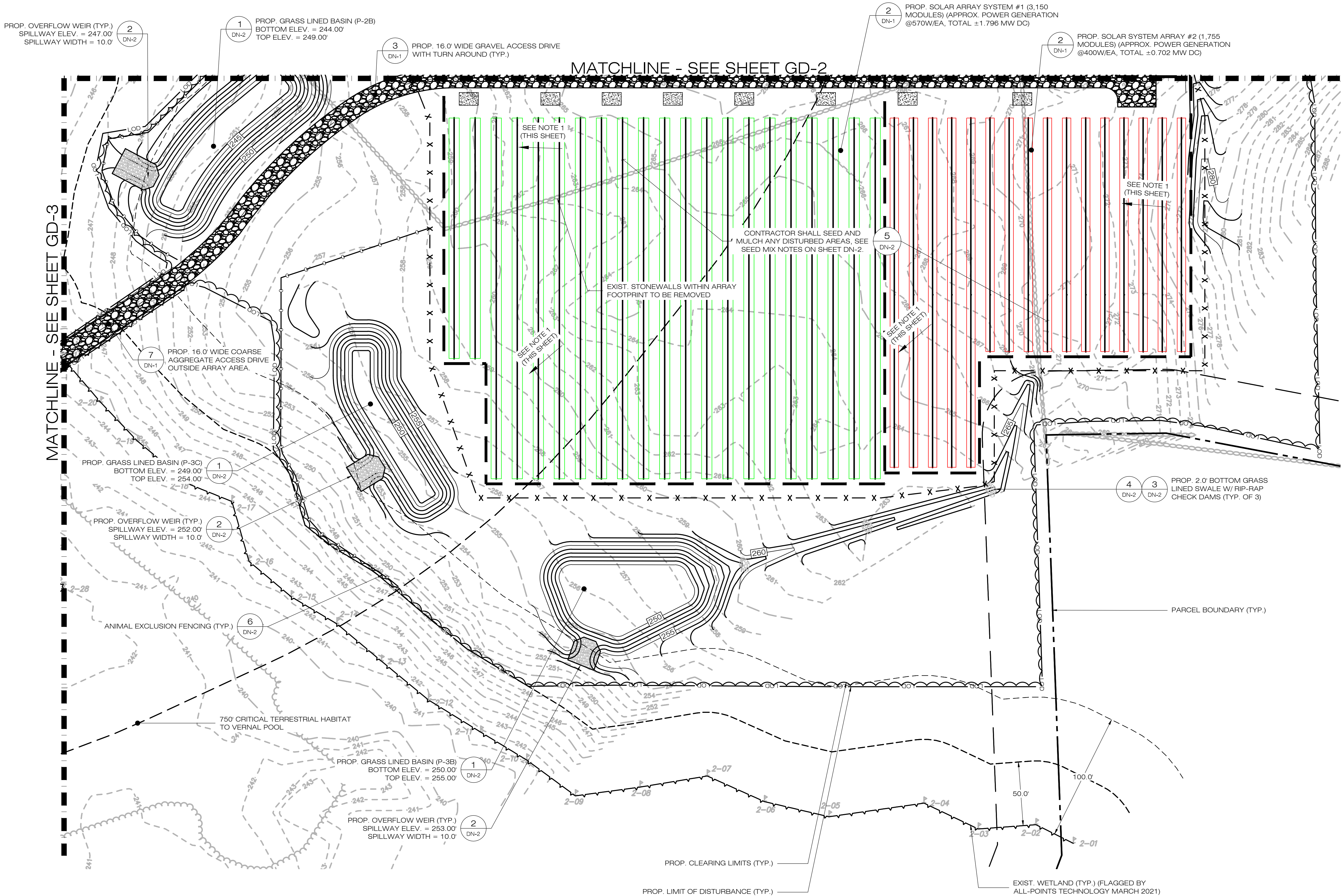
**PHASE 2  
SEDIMENTATION &  
EROSION CONTROL PLAN**

**SHEET NUMBER:**

**EC-10**







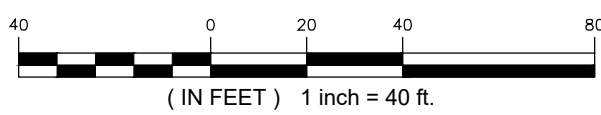
NOTES:

1. GRADE/SHAPE AREA TO MAINTAIN EXIST. DRAINAGE PATTERNS.
2. CONTRACTOR SHALL REMOVE ALL BAFFLES FROM SEDIMENT BASINS AND SWALES.
3. CONTRACTOR SHALL REPLACE TEMPORARY SEDIMENT BASIN OUTLET WITH GRAVEL OVERFLOW WEIR UPON THE SITE OR DRAINAGE AREA BEING DEEMED STABILIZED PER THE SWPCP.
4. CONTRACTOR SHALL MODIFY/REPLACE THE TEMPORARY SEDIMENT BASIN RISER AS NEEDED UPON THE SITE OR DRAINAGE AREA BEING DEEMED STABILIZED PER THE SWPCP MONITOR.

1  
GD-1

## FINAL GRADING & DRAINAGE PLAN

SCALE : 1" = 40'-0"



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### SHEET TITLE:

FINAL GRADING &  
DRAINAGE PLAN

### SHEET NUMBER:

GD-1







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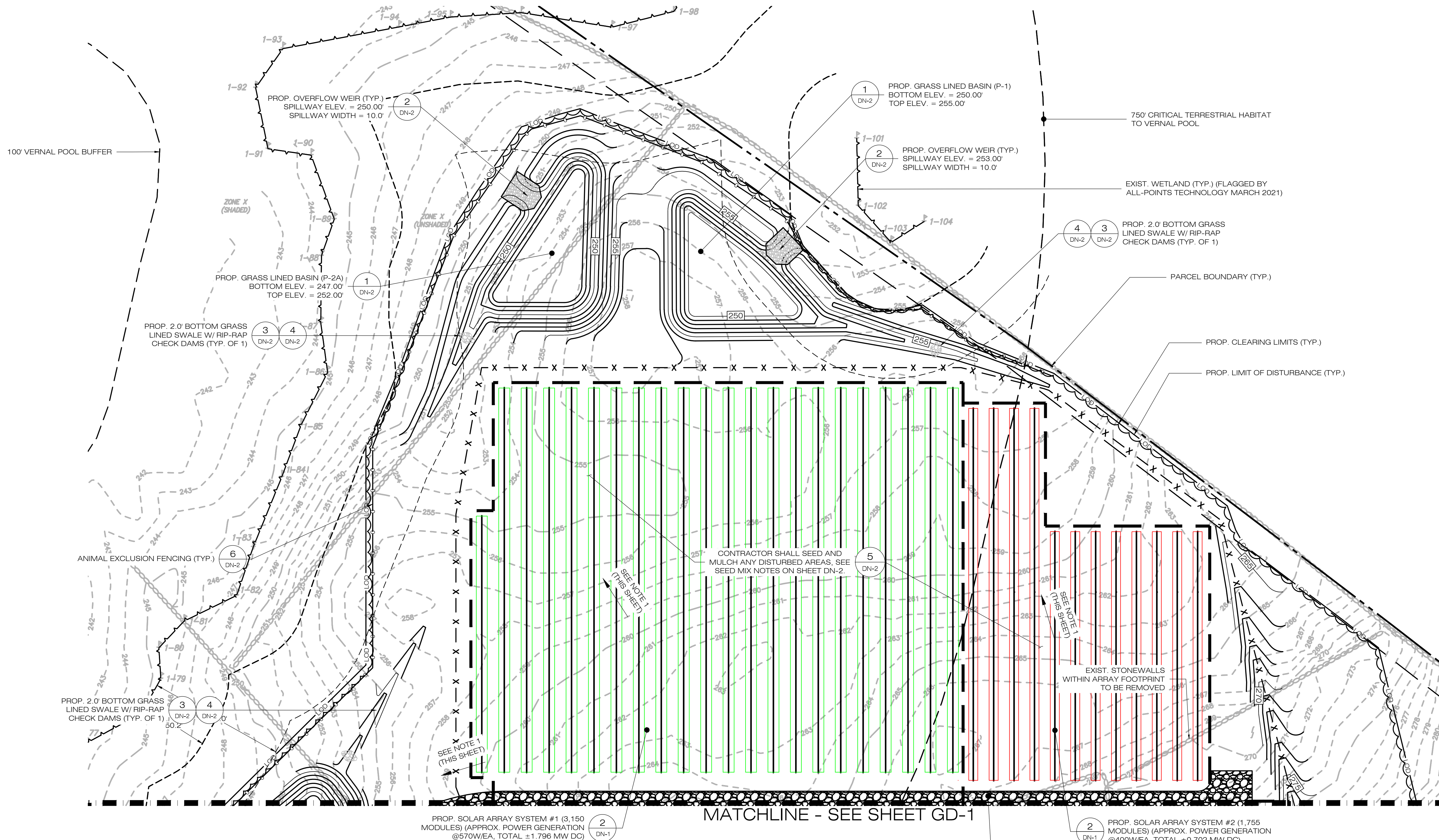
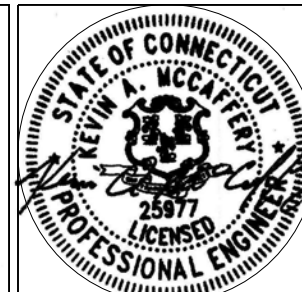
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#### SHEET TITLE:

**FINAL GRADING &  
DRAINAGE PLAN**

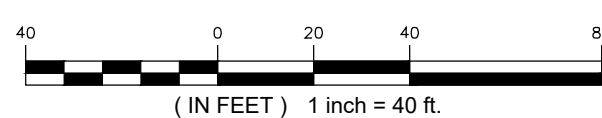
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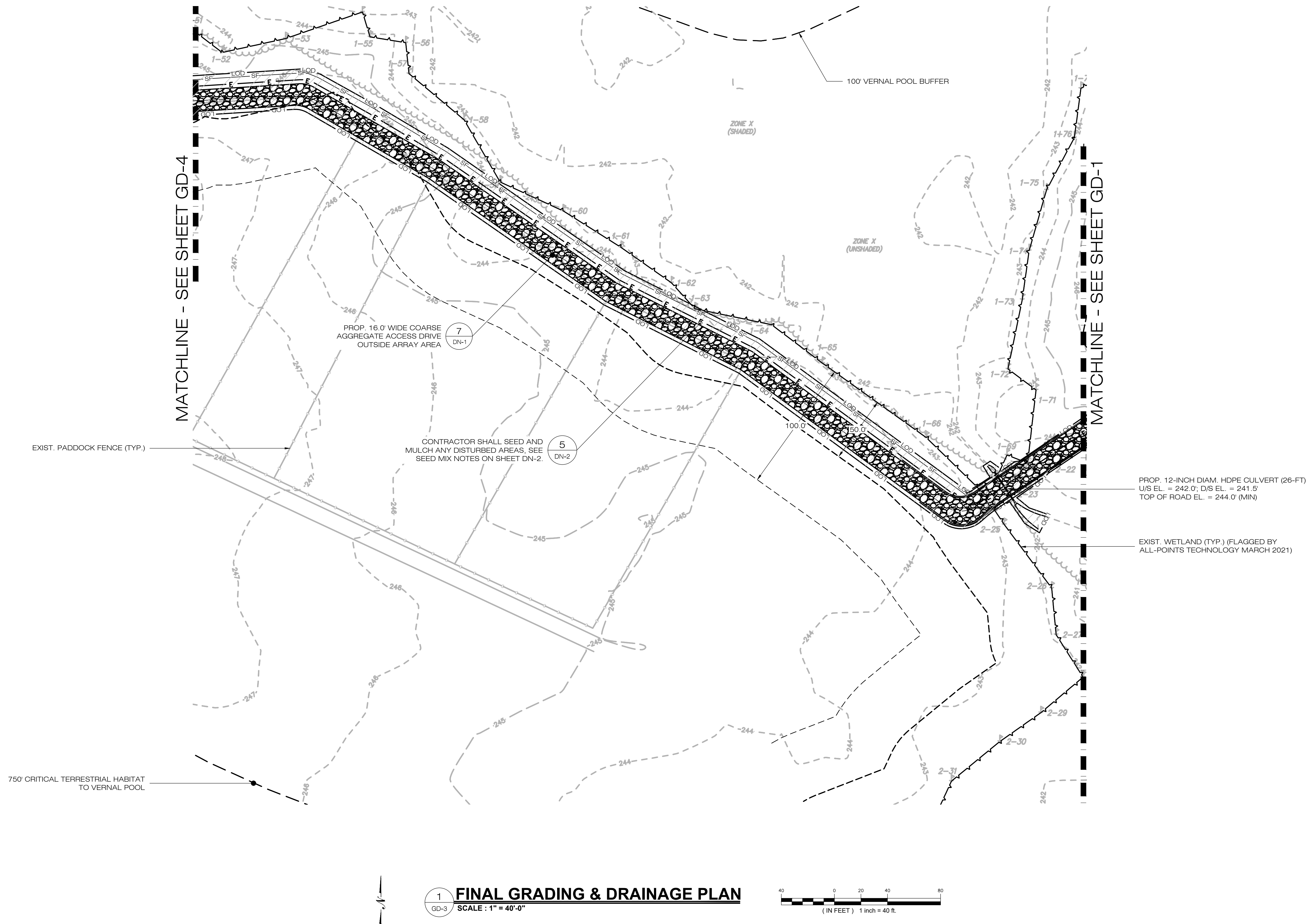


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**1 FINAL GRADING & DRAINAGE PLAN**  
GD-2 SCALE: 1" = 40'-0"









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N SILVER BROOK SOLAR

SITE 486 FITCH HILL ROAD  
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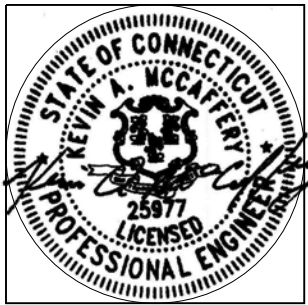
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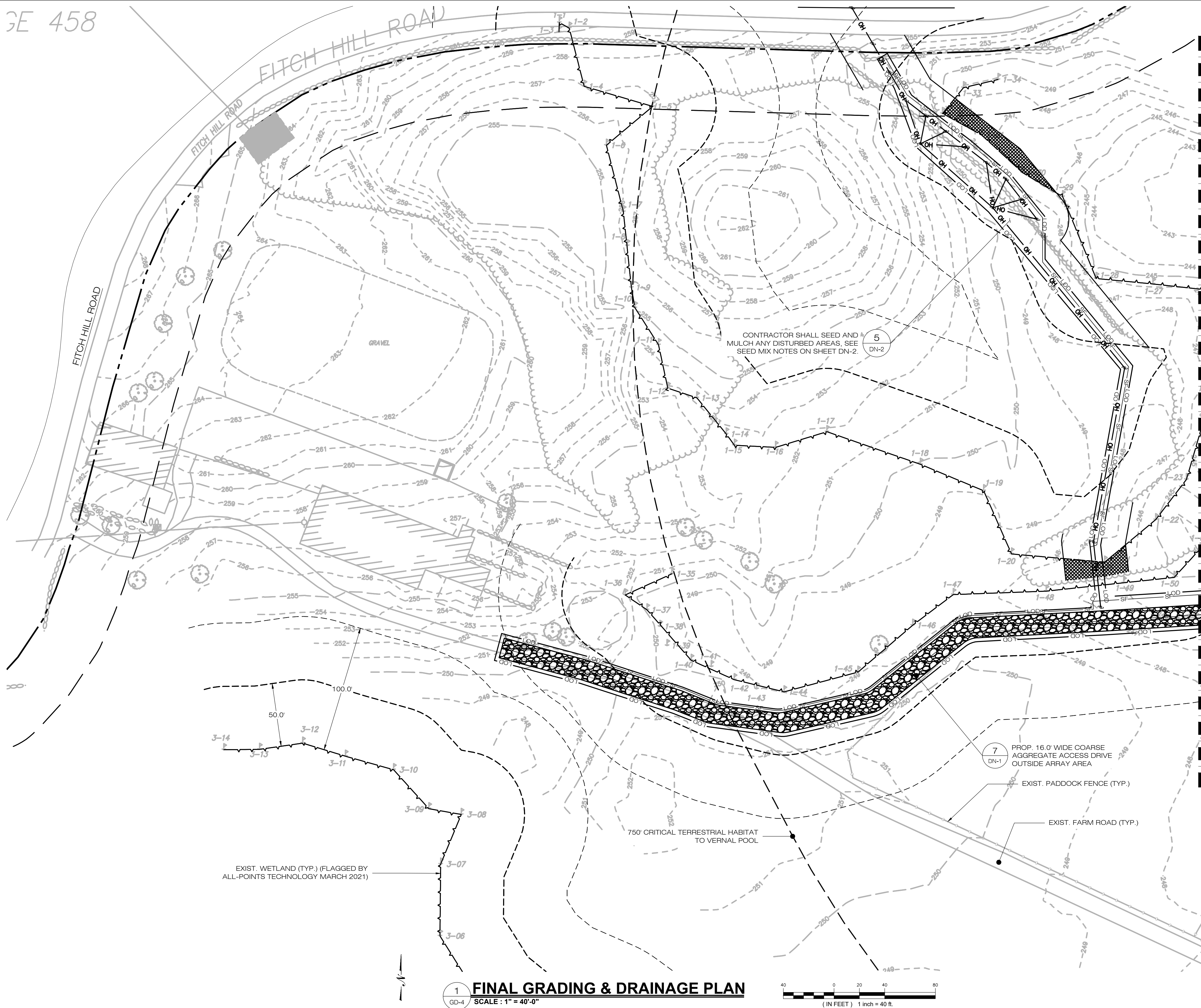
SHEET TITLE:  
**FINAL GRADING & DRAINAGE PLAN**

SHEET NUMBER:  
**GD-3**

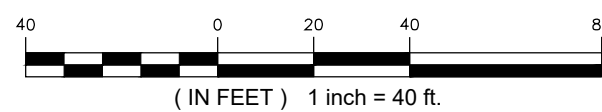




SE 458



1  
GD-4  
**FINAL GRADING & DRAINAGE PLAN**  
SCALE: 1" = 40'-0"



MATCHLINE - SEE SHEET EC-5



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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	01/10/22	SITING COUNCIL SUBMISSION
1	04/12/22	COUNCIL INTERROGATORIES
2		
3		
4		
5		
6		

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: N SILVER BROOK HOLDINGS LLC  
ADDRESS: 511 FITCH HILL ROAD  
UNCASVILLE, CT 06382

N SILVER BROOK SOLAR

SITE 486 FITCH HILL ROAD  
ADDRESS: UNCASVILLE, CT 06382

APT FILING NUMBER: CT657140

DATE: 12/14/21  
DRAWN BY: CH  
CHECKED BY: KAM

SHEET TITLE:

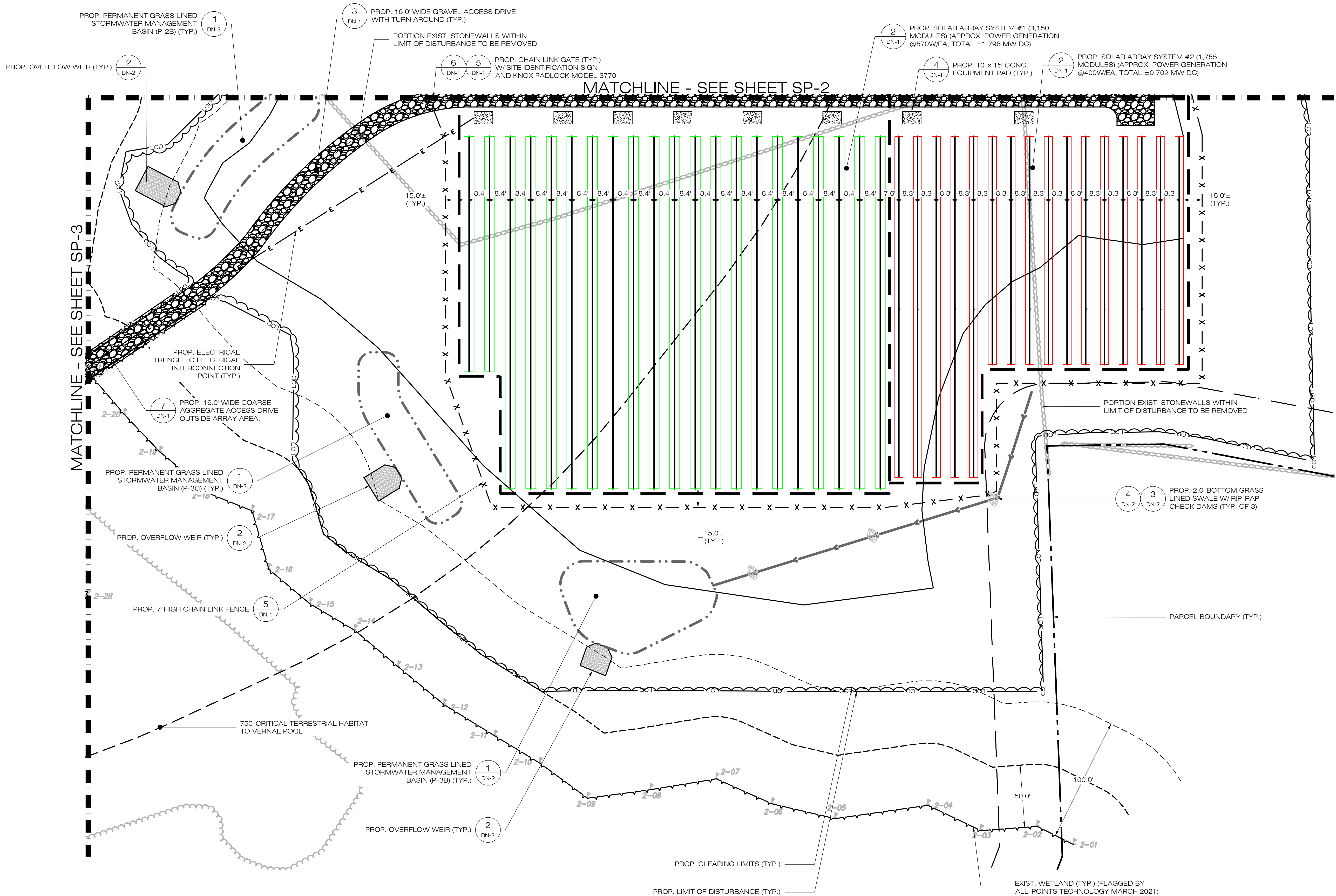
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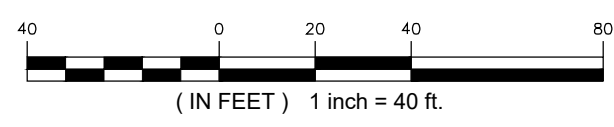
**GD-4**







**1**  
SP-1  
**SITE & UTILITY PLAN**  
SCALE : 1" = 40'-0"



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**ADDRESS: 511 FITCH HILL ROAD UNCASVILLE, CT 06382**

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**APT FILING NUMBER: CT657140**

**DRAWN BY: CH**  
**DATE: 12/14/21** **CHECKED BY: KAM**

**SHEET TITLE:**  
**SITE & UTILITY PLAN**

**SHEET NUMBER:**  
**SP-1**





TRITEC

AMERICAS

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ALL-POINTS

TECHNOLOGY CORPORATION

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DATE: 12/14/21	DRAWN BY: CH
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SHEET TITLE:  
**SITE & UTILITY PLAN**

SHEET NUMBER:  
**SP-2**

STATE OF CONNECTICUT  
2021  
LICENSED PROFESSIONAL ENGINEER

**1 SITE & UTILITY PLAN**  
SP-2 SCALE : 1" = 40'-0"



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N SILVER BROOK SOLAR

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ADDRESS: UNCASVILLE, CT 06382

APT FILING NUMBER: CT657140

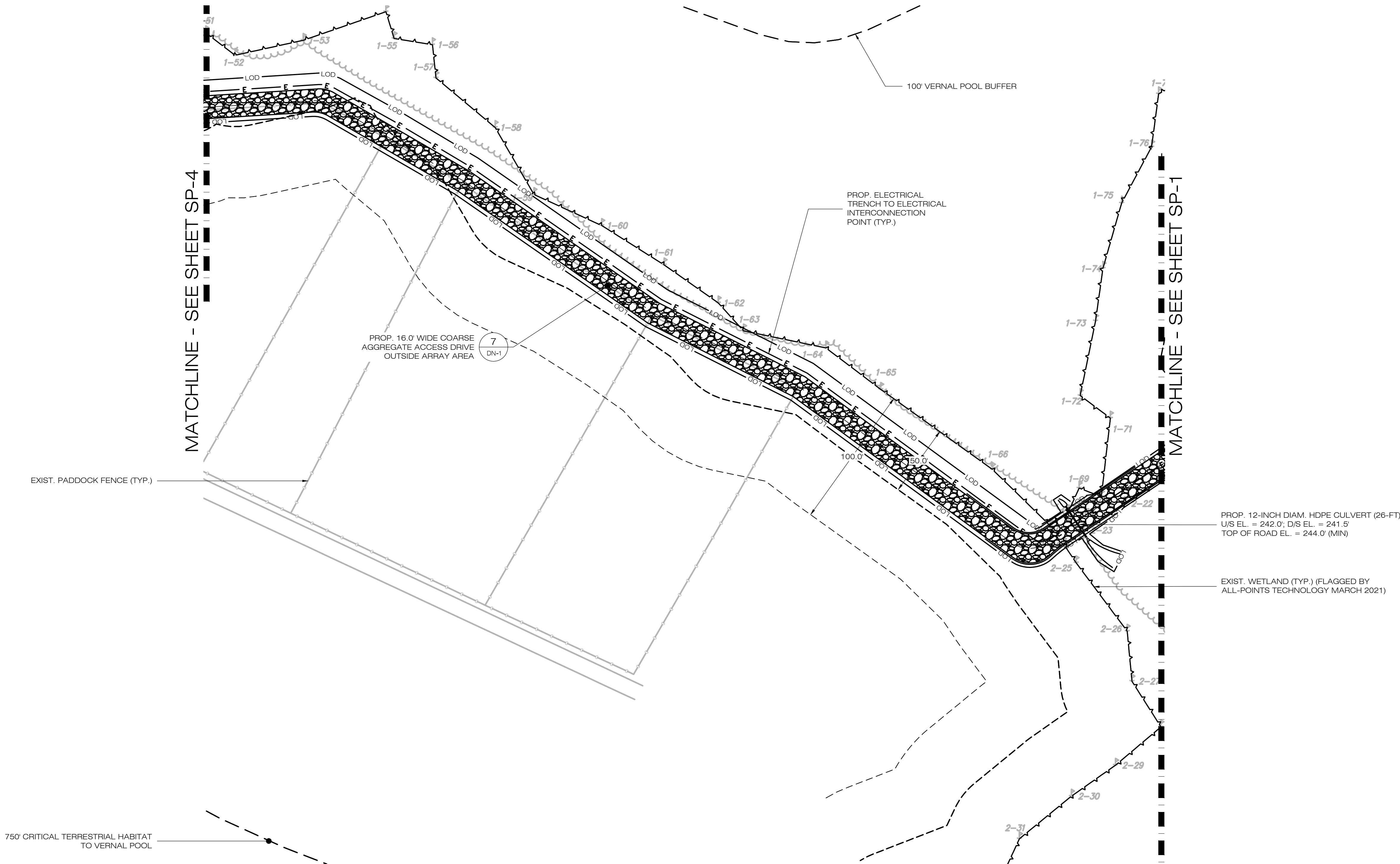
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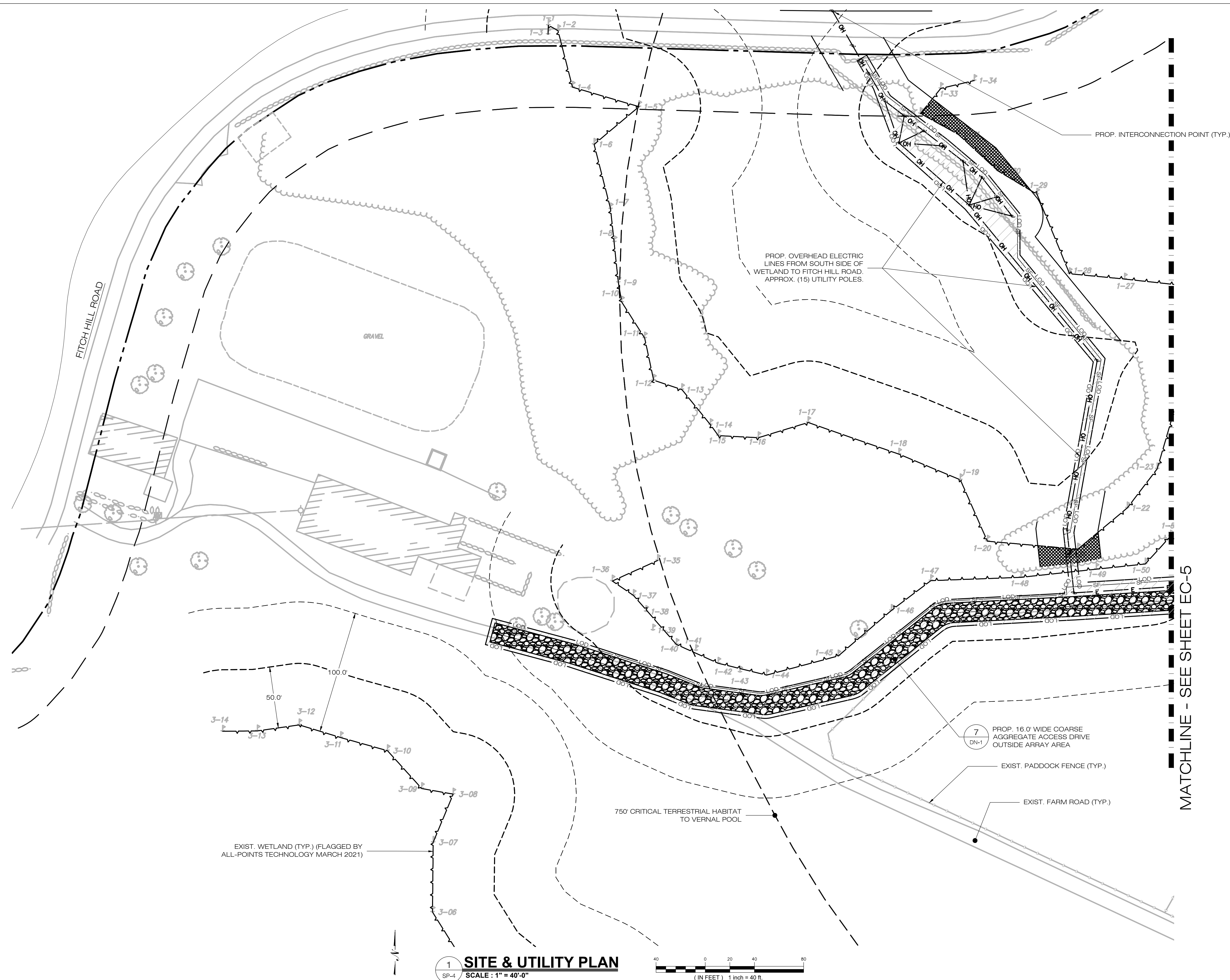
SITE & UTILITY PLAN

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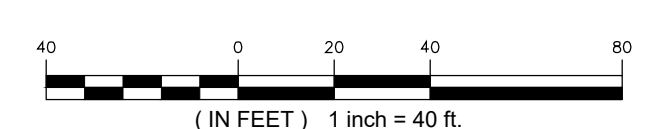
SP-3







1  
SP-4  
**SITE & UTILITY PLAN**  
SCALE: 1" = 40'-0"



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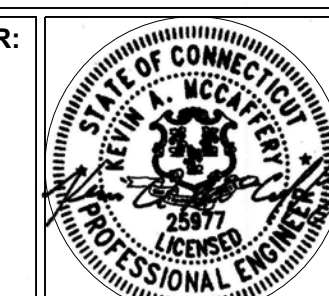
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**N SILVER BROOK SOLAR**  
SITE 486 FITCH HILL ROAD  
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APT FILING NUMBER: CT657140  
DATE: 12/14/21  
DRAWN BY: CH  
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SHEET TITLE:  
**SITE & UTILITY PLAN**

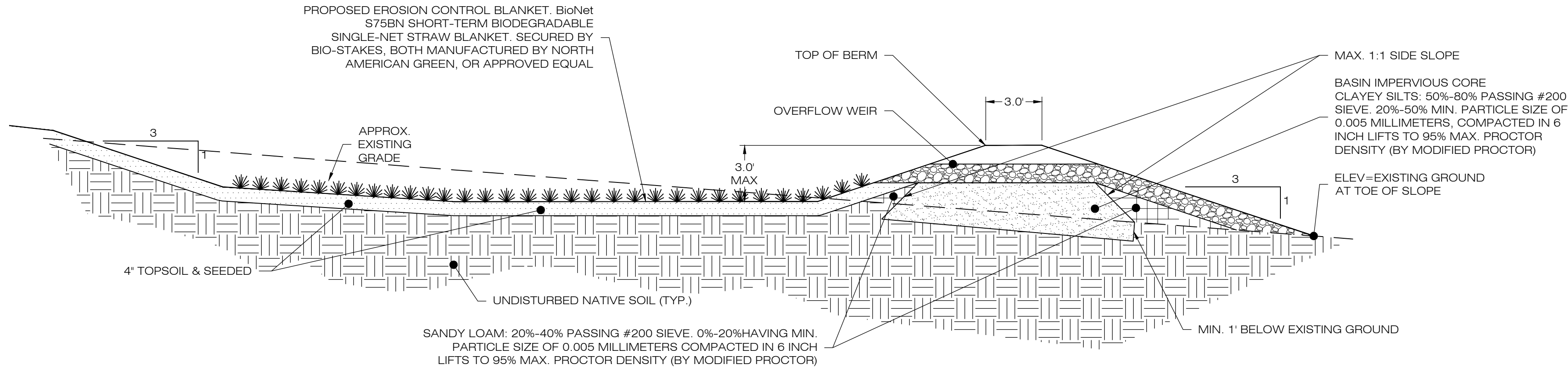
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**SP-4**









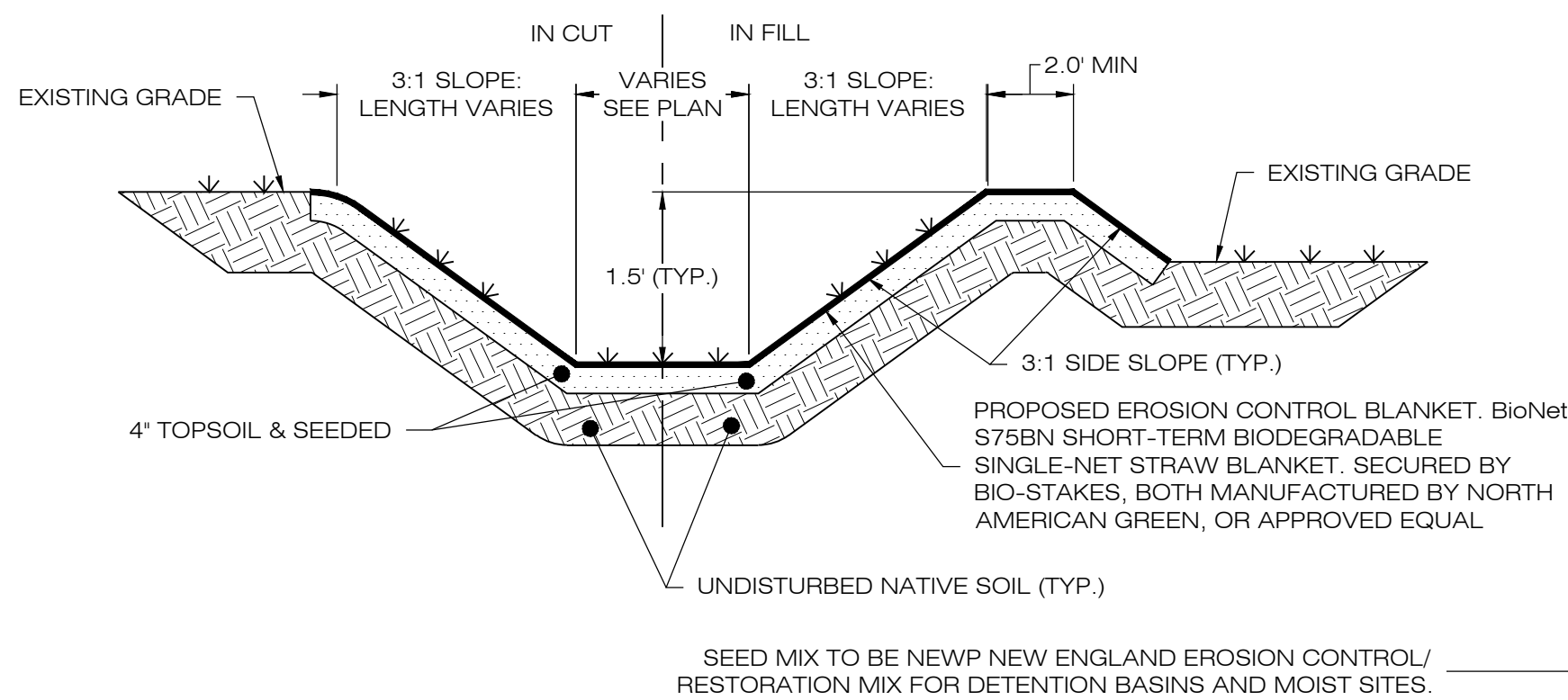


#### NOTES:

- SEED MIX TO BE NEWP NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES ON THE BOTTOM OF THE BASIN. ERNMX-610 ON THE SIDE SLOPES.
- FOR CONVERTING TSB TO INFILTRATION BASIN, REMOVE BAFFLES, CLEAN OUT SEDIMENT, RESHAPE AS REQUIRED, RECONSTRUCT OUTLET WEIR INCLUDING ADDITIONAL IMPERVIOUS CORE, AND RESEEDING.
- INSPECT AND CLEAN PIPES PRIOR TO INSTALLING PERMANENT OUTLET.

### 1 GRASS LINED INFILTRATION BASIN

SCALE : N.T.S.



### 3 GRASS LINED SWALE

SCALE : N.T.S.

#### Fuzz & Buzz Mix - Premium - ERNMX-147

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

Mix Price/lb Bulk: \$10.91

100.00 %

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 - ERNMX-610

Botanical Name	Common Name	Price/lb
37.00 % Schizachyrium scoparium, 'Camper'	Little Bluestem, 'Camper'	15.90
36.30 % Bouteloua curtipendula, Butte	Butte Bluestem	14.11
4.00 % Chamaecrista fasciculata, PA Ecotype	Partridge Pea, PA Ecotype	7.20
4.00 % Coreopsis lanceolata	Lanceleaf Coreopsis	28.80
4.00 % Echinacea purpurea	Purple Coneflower	43.20
3.30 % Rudbeckia hirta	Black-eyed Susan	24.00
2.30 % Helianthus scaberrimus, PA Ecotype	Oxeye Sunflower, PA Ecotype	33.60
1.60 % Penstemon digitalis, PA Ecotype	Tall White Beardtongue, PA Ecotype	192.00
1.50 % Asclepias tuberosa	Butterfly Milkweed	432.00
0.80 % Liatris spicata	Marsh Blazing Star	252.00
0.70 % Senecio heliopsis, VA & WV Ecotype	Wild Senna, VA & WV Ecotype	28.80
0.50 % Asclepias incarnata, PA Ecotype	Swamp Milkweed, PA Ecotype	192.00
0.50 % Gum canadensis, PA Ecotype	White Asters, PA Ecotype	192.00
0.50 % Monarda fistulosa, Fort Indiantown Gap-PA Ecotype	Wild Bergamot, Fort Indiantown Gap-PA Ecotype	120.00
0.50 % Pycnanthemum tenuifolium	Narrowleaf Mountainmint	168.00
0.50 % Zizia aurea	Golden Alexanders	288.00
0.40 % Aster laevis, NY Ecotype	Smooth Blue Aster, NY Ecotype	336.00
0.40 % Aster novae-angliae, PA Ecotype	New England Aster, PA Ecotype	336.00
0.30 % Baptisia australis, Southern WV Ecotype	Blue False Indigo, Southern WV Ecotype	96.00
0.30 % Tradescantia ohiensis, PA Ecotype	Ohio Spiderwort, PA Ecotype	192.00
0.20 % Oenothera fruticosa var. fruticosa	Sundrops	360.00
0.20 % Solidago nemoralis, PA Ecotype	Gray Goldenrod, PA Ecotype	336.00
0.10 % Aster praeantiochensis, PA Ecotype	Zigzag Aster, PA Ecotype	432.00
0.10 % Veronicastrum virginicum, PA Ecotype	Culver's Root, PA Ecotype	768.00

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).

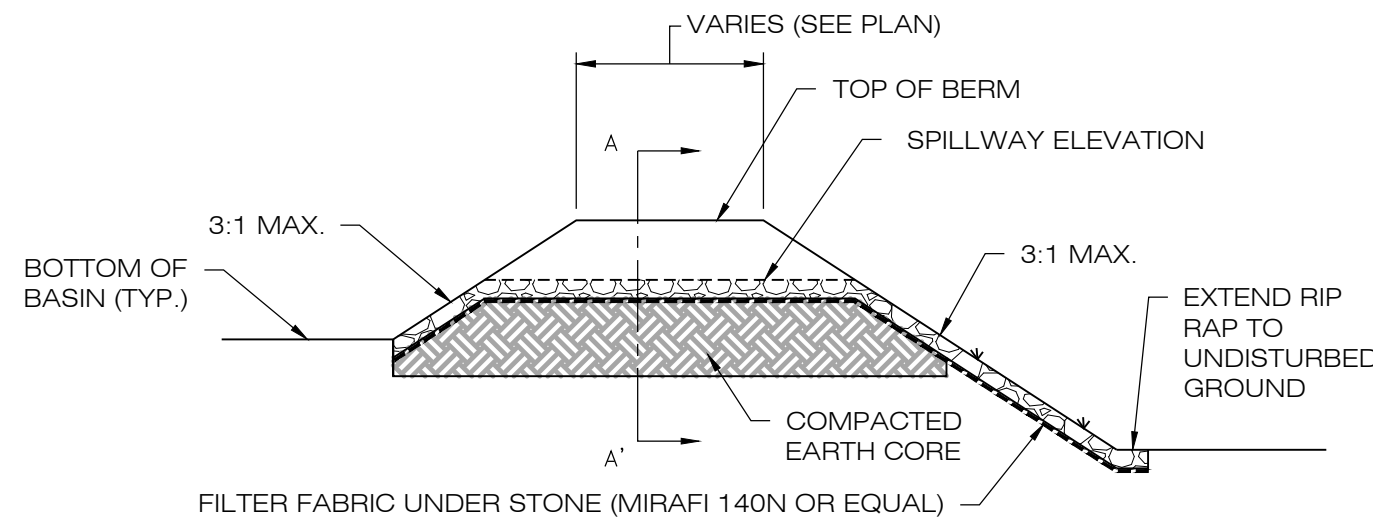
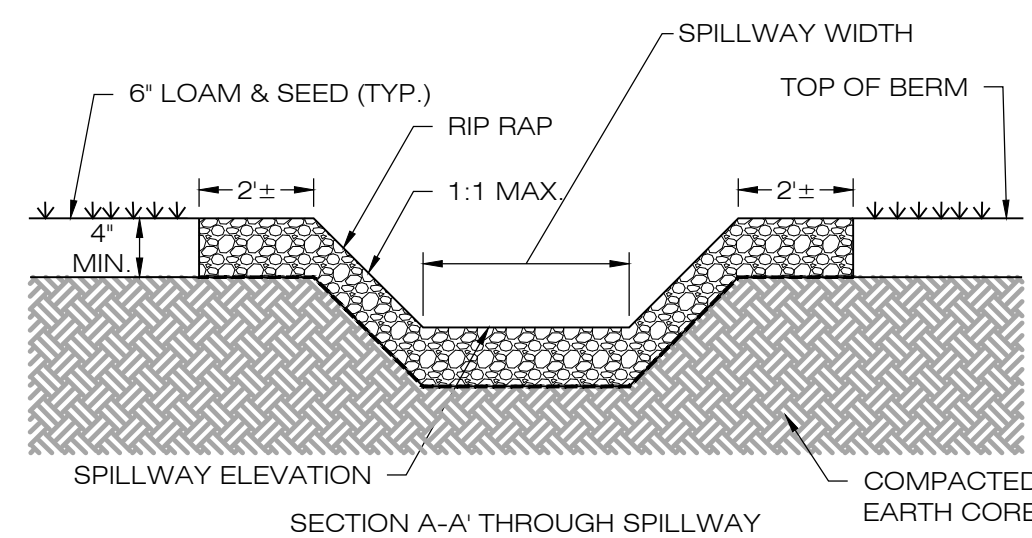
#### New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites

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

PRICE PER LB. \$37.00 MIN. QUANTITY 3 LBS.

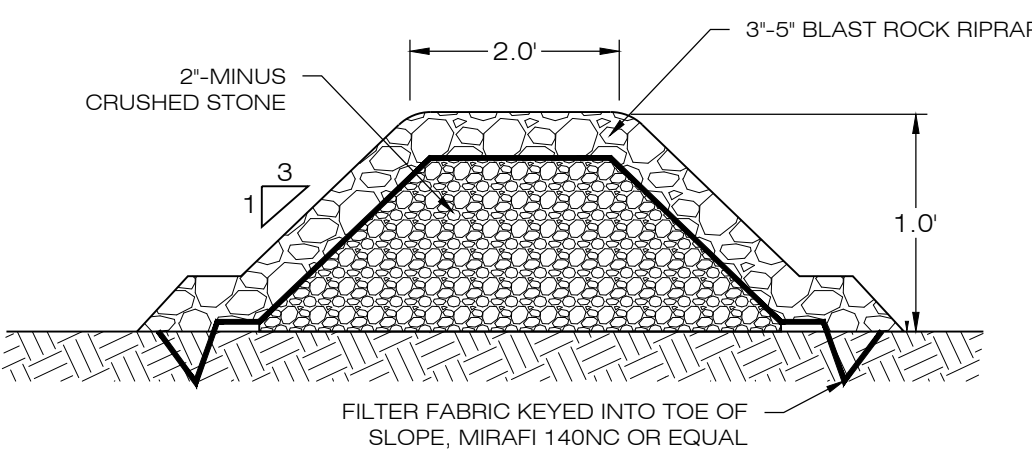
TOTAL: \$111.00

APPLY: 35 LBS/ACRE :1250 sq ft/lb



### 2 OVERFLOW WEIR DETAIL

SCALE : N.T.S.

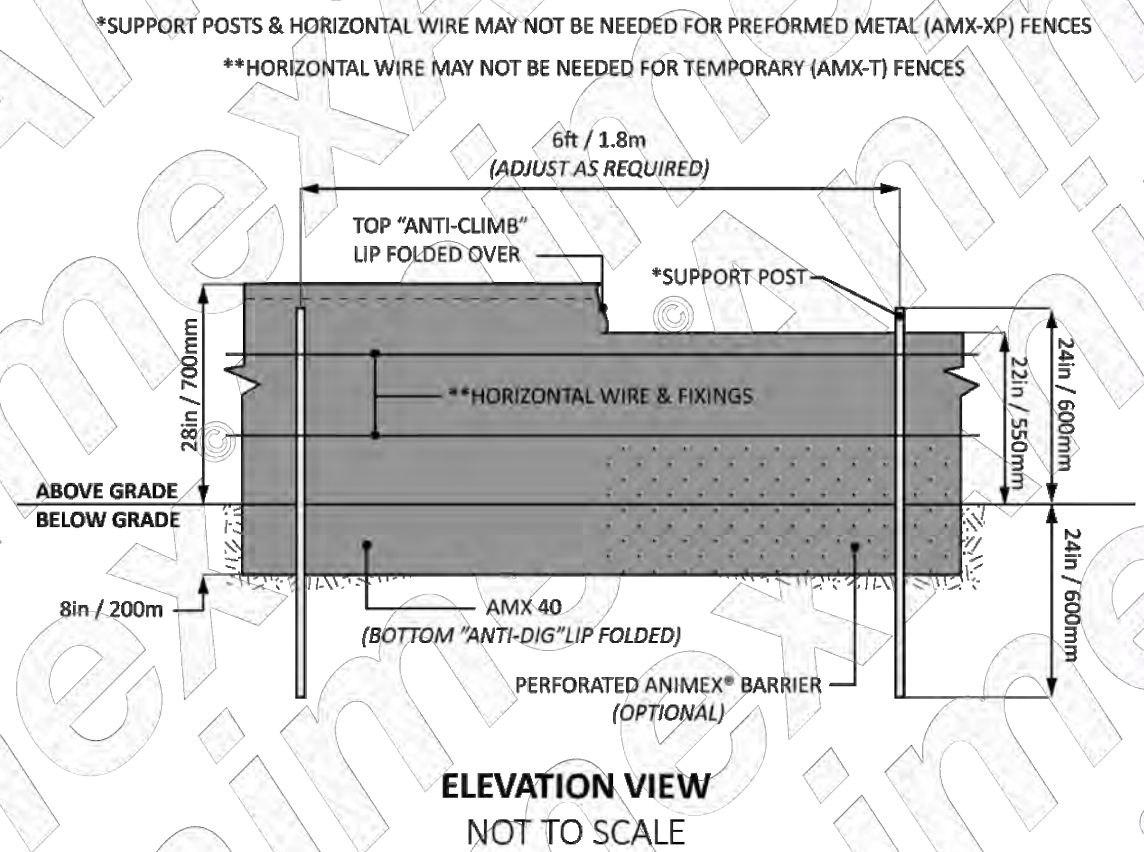
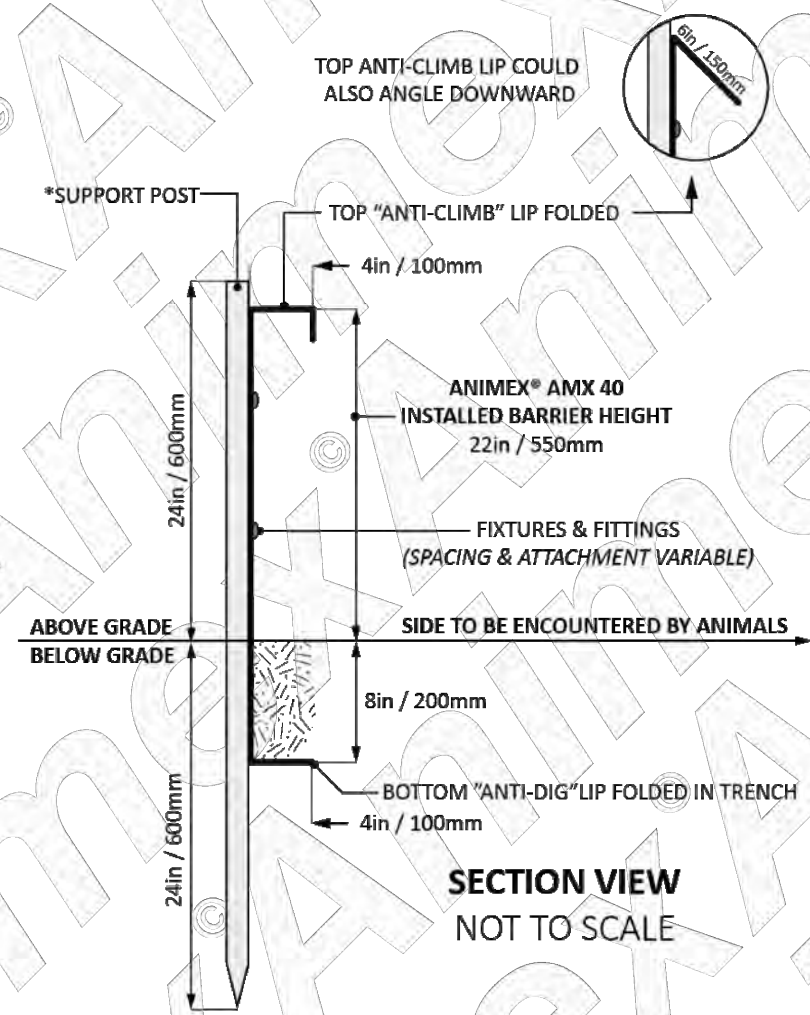


#### NOTES:

- STONE SHALL BE PLACED MECHANICALLY OR BY HAND. STONE SHALL NOT BE DUMPED DIRECTLY INTO SWALE.
- SEE GRADING AND DRAINAGE PLAN.

### 4 STONE CHECK DAM

SCALE : N.T.S.



### 6 ANIMAL EXCLUSION FENCING

SCALE : N.T.S.



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COMP: ALL-POINTS TECHNOLOGY CORPORATION  
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UNCASVILLE, CT 06382

#### N SILVER BROOK SOLAR

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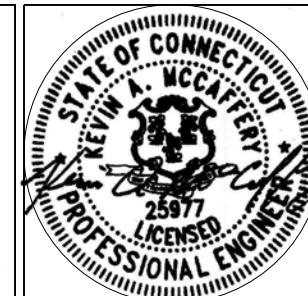
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CHECKED BY: KAM

#### SHEET TITLE:

#### SITE DETAILS

#### SHEET NUMBER:

DN-2



### 5 ERNST SEED MIXES

SCALE : N.T.S.

#### NOTE:

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





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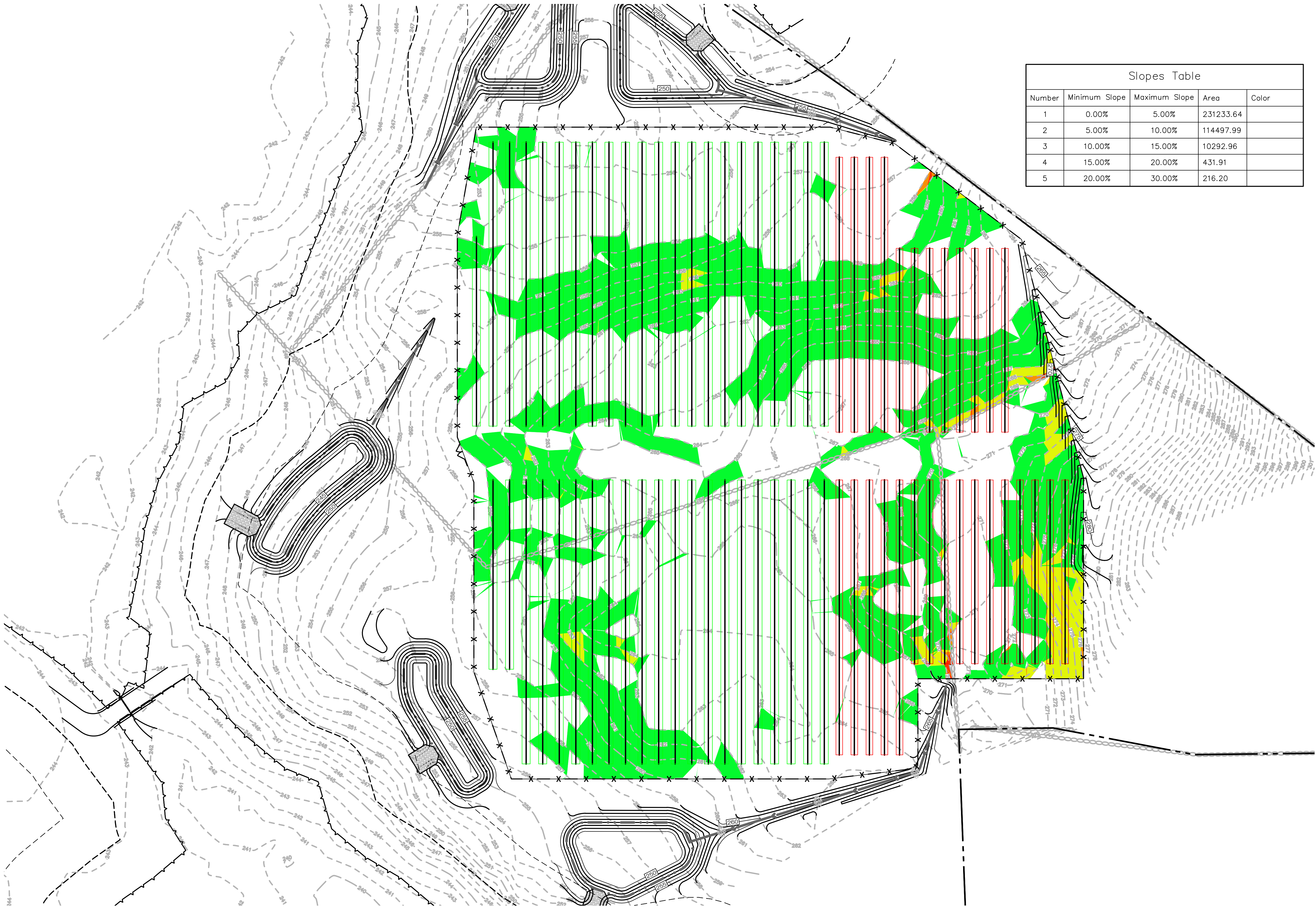
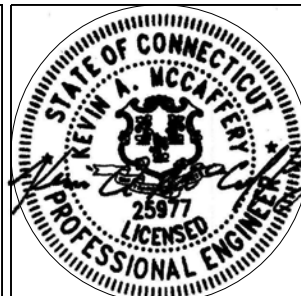
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SHEET TITLE:

SLOPE ANALYSIS

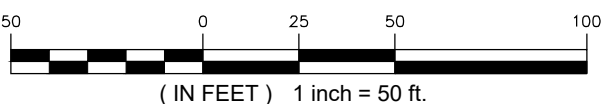
SHEET NUMBER:

EX-1



Slopes Table				
Number	Minimum Slope	Maximum Slope	Area	Color
1	0.00%	5.00%	231233.64	
2	5.00%	10.00%	114497.99	
3	10.00%	15.00%	10292.96	
4	15.00%	20.00%	431.91	
5	20.00%	30.00%	216.20	

1 EXISTING SITE SLOPES  
EX-1 SCALE : 1" = 50'-0"







## Ernst Conservation Seeds

8884 Mercer Pike  
Meadville, PA 16335  
(800) 873-3321 Fax (814) 336-5191  
[www.ernstseed.com](http://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
<b>100.00 %</b>	<b>Mix Price/lb Bulk:</b>	<b>\$10.91</b>

**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.  
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Please check our web site at [www.ernstseed.com](http://www.ernstseed.com)  
for current pricing when placing orders.





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[www.ernstseed.com](http://www.ernstseed.com)

Date: April 14, 2021

### Northeast Solar Pollinator Buffer Mix - ERNMX-610

Botanical Name	Common Name	Price/lb
37.00 % <i>Schizachyrium scoparium</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>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	28.80
4.00 % <i>Echinacea purpurea</i>	Purple Coneflower	43.20
3.30 % <i>Rudbeckia hirta</i>	Blackeyed Susan	24.00
2.30 % <i>Heliopsis helianthoides</i> , PA Ecotype	Oxeye Sunflower, PA Ecotype	33.60
1.60 % <i>Penstemon digitalis</i> , PA Ecotype	Tall White Beardtongue, PA Ecotype	192.00
1.50 % <i>Asclepias 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>Asclepias incarnata</i> , PA Ecotype	Swamp Milkweed, PA Ecotype	192.00
0.50 % <i>Geum canadense</i> , PA Ecotype	White Avena, 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 ohiensis</i> , PA Ecotype	Ohio Spiderwort, PA Ecotype	192.00
0.20 % <i>Oenothera 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
<b>100.00 %</b>	<b>Mix Price/lb Bulk:</b>	<b>\$38.45</b>

**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).

Solar Sites

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



### **Invasive Species Control Plan**

The setting for the proposed Facility consists primarily of a mature forest that is dominated by native trees, shrubs and forbs with minimal invasive plant species. However, the adjacent agricultural fields due contain invasive plants, particularly woody invasive shrubs such as multiflora rose and Japanese barberry. As such, certain precautions are recommended during construction in order to avoid/minimize the importation of invasive plant seeds/material that could colonize the interior of this forest community and diminish its wildlife habitat value. Proposed soil disturbances during construction provide an opportunity for invasive plants to gain a foothold and spread into the surrounding forested habitat. This can occur through the importation of soil that contains invasive plant seed stock or carried by construction equipment that has picked up soil with invasive seed stock. The invasive species plan includes the following:

- a. The contractor shall attend a pre-construction meeting to review the requirements of the Invasive Species Control Plan prior to mobilization of equipment, vehicles, materials, etc. onto the Property.
- b. Prior to entry onto the Property, all equipment and vehicles shall be pressure washed by the contractor at its storage yard in order to remove any loose soil that may be carrying invasive plant seeds.
- c. No topsoil shall be imported onto the Property.
- d. Any clean fill material imported onto the Property shall be free of weed seeds.
- e. Use of haybales is prohibited on this project. Natural erosion control materials shall be either straw bales or straw- or compost-filled socks/wattles.
- f. Topsoil removed from the proposed access drive and Facility compound shall be retained and temporarily stockpiled on the Property to restore and permanently stabilize disturbed areas. Temporarily stockpiled topsoil shall be immediately seeded with either annual rye or winter rye if it will not be used within one (1) week.
- g. All restored areas will be inspected during the growing season for two (2) years following establishment of permanent vegetation to monitor for possible colonization by invasive plants species. Invasive plants are those listed as non-native invasive woody plants by the Connecticut Invasive Plant Working Group.
- h. If invasive woody plants are identified to have more than 10% aerial coverage in the restored areas, a control plan for removal of the invasive woody plants will be implemented.



# REMOTE FIELD REVIEW



CT SITING COUNCIL PETITION NO. 1492  
RESPONSE TO INTERROGATORY 44  
N SILVER BROOK SOLAR FACILITY  
486 FITCH HILL ROAD  
UNCASVILLE, CT 06382

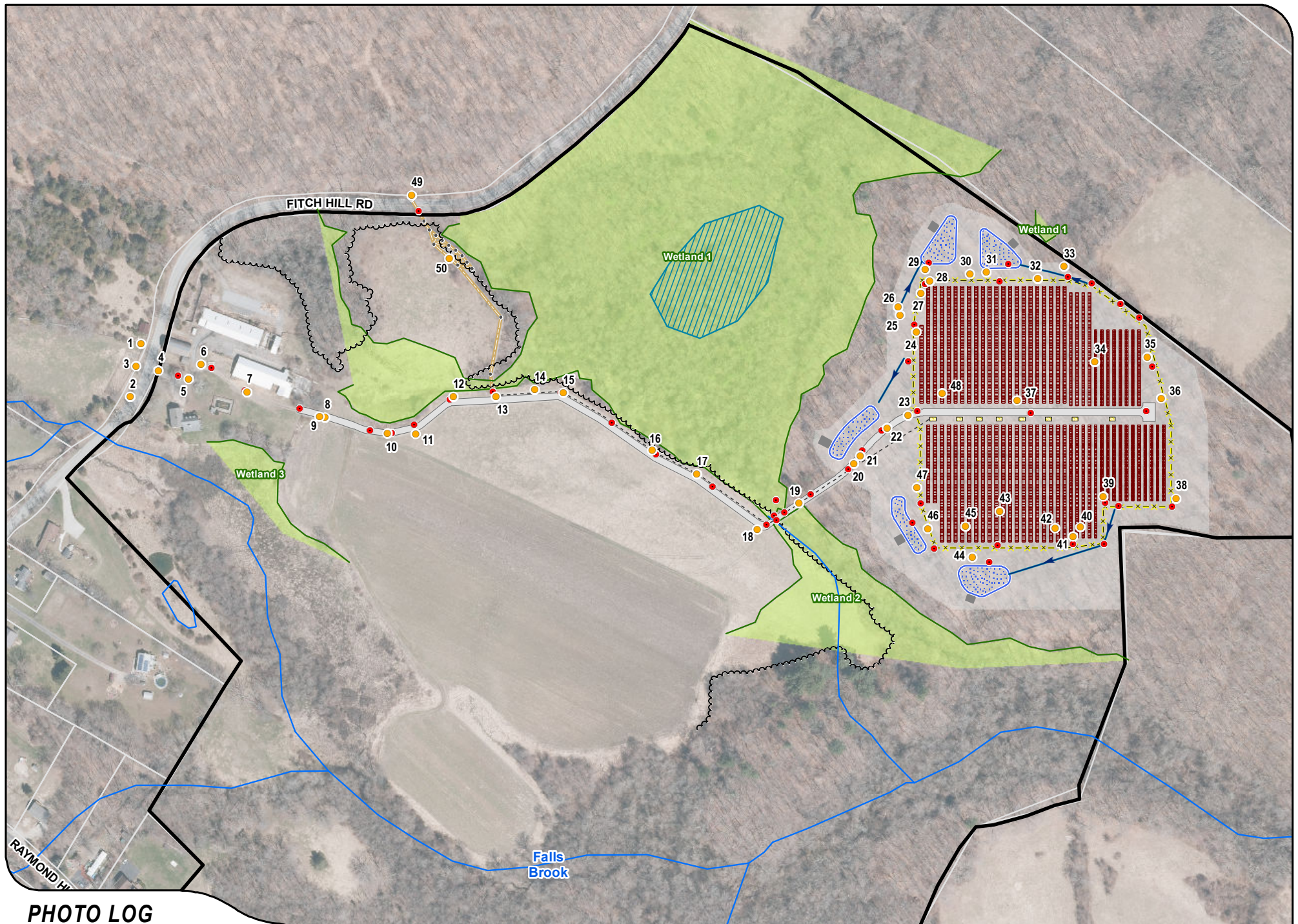
PREPARED FOR:

**TRITEC**

PREPARED BY:

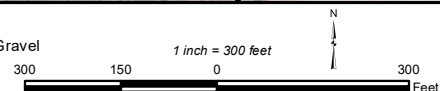
**ALL-POINTS TECHNOLOGY CORPORATION, P.C.**  
567 Vauxhall Street Extension – Suite 311  
Waterford, CT 06385





## PHOTO LOG

- |                     |                             |                        |                                      |                                |
|---------------------|-----------------------------|------------------------|--------------------------------------|--------------------------------|
| ● Photo Location    | — Watercourse               | — Limit of Disturbance | — Perimeter Fence                    | Stormwater Basin               |
| ● Photo Marker      | — Surveyed Wetland Boundary | — Solar Modules        | — Interconnection Path (Underground) | Stormwater Basin Outlet Gravel |
| — Site              | — Delineated Wetland Area   | — Concrete Pad         | — Interconnection Path (OVH)         | Stormwater Swale               |
| — Surveyed Treeline | — Vernal Pool               | — Gravel Access Road   | — Interconnection Utility Pole       |                                |







ENTRANCE TO PROPOSED ACCESS DRIVE

PHOTO

1

DESCRIPTION

FITCH HILL ROAD LOOKING SOUTH





ENTRANCE TO PROPOSED ACCESS DRIVE

PHOTO

2

DESCRIPTION

FITCH HILL ROAD LOOKING NORTHEAST





ENTRANCE TO PROPOSED ACCESS DRIVE

PHOTO

3

DESCRIPTION

FITCH HILL ROAD LOOKING EAST





PHOTO

DESCRIPTION

4

**PROPOSED ACCESS DRIVE ENTRANCE LOOKING EAST**





PHOTO

DESCRIPTION

5

PROPOSED ACCESS DRIVE LOOKING NORTHEAST





PROPOSED ACCESS DRIVE

PHOTO

DESCRIPTION

6

PROPOSED ACCESS DRIVE LOOKING SOUTHEAST





PROPOSED ACCESS DRIVE

PHOTO

DESCRIPTION

7

PROPOSED ACCESS DRIVE LOOKING SOUTHEAST





PHOTO

DESCRIPTION

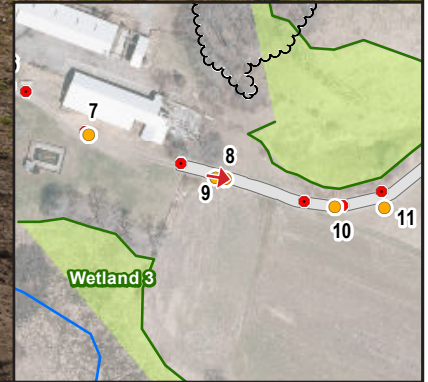
8

**PROPOSED ACCESS DRIVE LOOKING NORTHEAST TOWARD INTERCONNECTION**





PROPOSED ACCESS DRIVE



PHOTOGRAPHED ON 4/5/2023

PHOTO

DESCRIPTION

9

PROPOSED ACCESS DRIVE LOOKING SOUTHEAST





PHOTOGRAPHED ON 4/5/2022

PHOTO

10A

DESCRIPTION

PROPOSED ACCESS DRIVE LOOKING NORTHWEST





PHOTO

10B

DESCRIPTION

PROPOSED ACCESS DRIVE LOOKING NORTHEAST





PHOTO

11

DESCRIPTION

**PROPOSED ACCESS DRIVE LOOKING NORTHEAST**





PHOTO

12

DESCRIPTION

PROPOSED ACCESS DRIVE LOOKING EAST





PHOTO  
13A

DESCRIPTION  
JUNCTION OF INTERCONNECTION AND PROPOSED ACCESS DRIVE





PHOTOGRAPHED ON 4/5/2023

PHOTO

13B

DESCRIPTION

PROPOSED ACCESS DRIVE LOOKING EAST





PHOTO

14

DESCRIPTION

**PROPOSED ACCESS DRIVE LOOKING WEST**





PHOTOGRAPHED ON 4/5/2022

PHOTO

DESCRIPTION

15

**PROPOSED ACCESS DRIVE LOOKING SOUTHEAST**





PHOTO  
16A

DESCRIPTION  
PROPOSED ACCESS DRIVE LOOKING SOUTHEAST





PHOTO  
16B

DESCRIPTION  
PROPOSED ACCESS DRIVE LOOKING NORTHWEST





PROPOSED ACCESS DRIVE

PHOTO

17

DESCRIPTION

PROPOSED ACCESS DRIVE LOOKING SOUTHEAST





PHOTO

DESCRIPTION

18

PROPOSED ACCESS DRIVE LOOKING NORTHEAST TOWARD WETLAND CROSSING





PHOTO

DESCRIPTION

19A

PROPOSED ACCESS DRIVE LOOKING SOUTHWEST TOWARD WETLAND CROSSING





PHOTO

19B

DESCRIPTION

PROPOSED ACCESS DRIVE LOOKING NORTHEAST





PHOTO

DESCRIPTION

20

**PROPOSED ACCESS DRIVE LOOKING SOUTHWEST**





PROPOSED ACCESS DRIVE

PHOTO

21

DESCRIPTION

PROPOSED ACCESS DRIVE LOOKING NORTHEAST





PROPOSED ACCESS DRIVE

PHOTO

DESCRIPTION

22

PROPOSED ACCESS DRIVE LOOKING NORTHEAST TOWARD FACILITY ENTRANCE





PHOTO

23A

DESCRIPTION

FACILITY ENTRANCE LOOKING SOUTHWEST ALONG PROPOSED ACCESS DRIVE





PHOTO

23B

DESCRIPTION

FACILITY ENTRANCE LOOKING EAST TOWARD FACILITY





PROPOSED FENCELINE

PHOTO  
23C

DESCRIPTION  
FACILITY ENTRANCE LOOKING NORTH ALONG FENCELINE





PHOTO

24

DESCRIPTION

NORTHWEST PORTION OF COMPOUND LOOKING WEST





PHOTO

25

DESCRIPTION

NORTHWEST PORTION OF COMPOUND LOOKING NORTH





PHOTO

DESCRIPTION

26

NORTHWEST PORTION OF COMPOUND LOOKING WEST TOWARD WETLAND





PHOTO

27

DESCRIPTION

**NORTHWEST COMPOUND CORNER LOOKING NORTH**





PHOTO

DESCRIPTION

28

NORTHWEST COMPOUND CORNER LOOKING EAST





PHOTO

DESCRIPTION

29

**NORTHWEST COMPOUND CORNER LOOKING SOUTHEAST**





PHOTO

DESCRIPTION

30A

NORTHCENTRAL PORTION OF COMPOUND LOOKING SOUTH





PHOTO

30B

DESCRIPTION

NORTHCENTRAL PORTION OF COMPOUND LOOKING NORTH





PHOTO

DESCRIPTION

31A

NORTHCENTRAL PORTION OF COMPOUND LOOKING EAST ALONG FENCELINE





PHOTO

31B

DESCRIPTION

NORTHCENTRAL PORTION OF COMPOUND LOOKING SOUTH





PHOTOGRAPHED ON 4/5/2022

PHOTO

DESCRIPTION

32

NORTHEAST PORTION OF COMPOUND LOOKING NORTHEAST TOWARD ADJACENT PROPERTY





PHOTO

DESCRIPTION

33A

NORTHEAST CORNER OF COMPOUND LOOKING SOUTHEAST





PHOTOGRAPHED ON 4/5/2022

PHOTO

DESCRIPTION

33B

NORTHEAST CORNER OF COMPOUND LOOKING EAST TOWARD ADJACENT PROPERTY



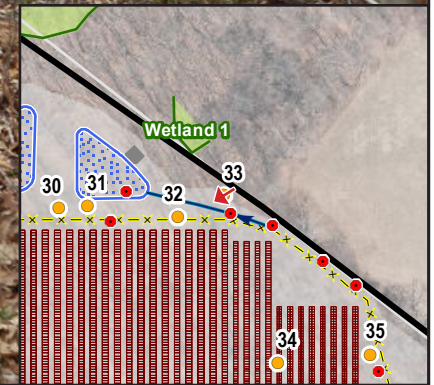


PHOTO  
33C

DESCRIPTION  
NORTHEAST CORNER OF COMPOUND LOOKING SOUTHWEST





PHOTOGRAPHED ON 4/5/2022

PHOTO

DESCRIPTION

34

EASTCENTRAL PORTION OF COMPOUND LOOKING EAST



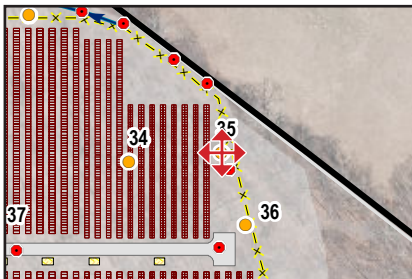


PHOTO	DESCRIPTION
35	NORTHEAST PORTION OF COMPOUND - FOUR CARDINAL DIRECTIONS





PROPOSED ACCESS DRIVE

PHOTO

DESCRIPTION

36A

EASTERN PORTION OF COMPOUND LOOKING WEST TOWARD TERMINUS OF PROPOSED ACCESS DRIVE





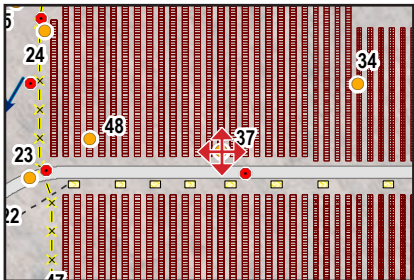
PHOTO

36B

DESCRIPTION

TERMINUS OF PROPOSED ACCESS DRIVE LOOKING EAST





PHOTO

37

DESCRIPTION

CENTER OF COMPOUND - FOUR CARDINAL DIRECTIONS

PHOTOGRAPHED ON 4/5/2022





PHOTOGRAPHED ON 4/5/2022

PHOTO

DESCRIPTION

38A

SOUTHEAST COMPOUND CORNER LOOKING NORTHWEST





PHOTO

38B

DESCRIPTION

SOUTHEAST COMPOUND CORNER LOOKING SOUTHEAST





PROPOSED FENCELINE

PHOTO

39

DESCRIPTION

SOUTHEAST PORTION OF COMPOUND LOOKING NORTHWEST





PHOTOGRAPHED ON 4/5/2023

PHOTO

DESCRIPTION

40

**SOUTHCENTRAL PORTION OF COMPOUND LOOKING EAST ALONG FENCELINE**





PHOTOGRAPHED ON 4/5/2023

PHOTO

DESCRIPTION

41

**SOUTHCENTRAL PORTION OF COMPOUND LOOKING NORTH**





PROPOSED FENCELINE

PHOTO

42

DESCRIPTION

SOUTHCENTRAL PORTION OF COMPOUND LOOKING SOUTH





PHOTO

DESCRIPTION

43

**SOUTHCENTRAL PORTION OF COMPOUND LOOKING SOUTHWEST TOWARDS CATCH BASIN**





PHOTO

DESCRIPTION

44

XXXXXXXXXXXXX SOUTHERN CATCH BASIN LOOKING NORTH XXXXXXXXXXXXXXXX





PHOTO	DESCRIPTION
45	SOUTHWEST PORTION OF COMPOUND LOOKING WEST TOWARD SOUTHWEST COMPOUND CORNER





PHOTO

DESCRIPTION

46A

SOUTHWEST COMPOUND CORNER LOOKING NORTHEAST





PHOTO

DESCRIPTION

46B

SOUTHWEST COMPOUND CORNER LOOKING SOUTHWEST





PROPOSED FENCELINE

PHOTO  
47A

DESCRIPTION  
SOUTHWEST PORTION OF COMPOUND LOOKING WEST

PHOTOGRAPHED ON 4/5/2022





PHOTO

47B

DESCRIPTION

SOUTHWEST PORTION OF COMPOUND LOOKING NORTHEAST





PROPOSED COMPOUND ENTRANCE

PHOTO

DESCRIPTION

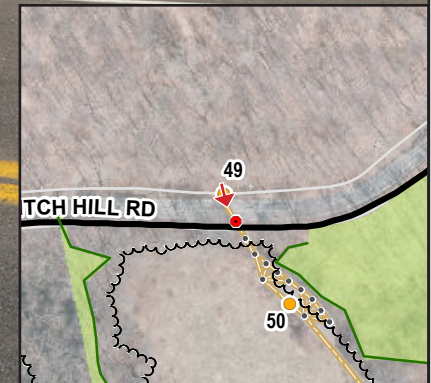
48

WEST PORTION OF COMPOUND LOOKING WEST TOWARD COMPOUND ENTRANCE





PROPOSED INTERCONNECTION



PHOTO

DESCRIPTION

49

FITCH HILL ROAD LOOKING SOUTH TOWARD INTERCONNECTION





PHOTOGRAPHED ON 4/5/2023

PHOTO  
50A

DESCRIPTION  
INTERCONNECTION LOOKING SOUTH





PHOTOGRAPHED ON 4/5/2022

PHOTO  
50B

DESCRIPTION  
INTERCONNECTION LOOKING NORTHWEST





PHOTOGRAPHED ON 4/5/2023

PHOTO  
50C

DESCRIPTION  
INTERCONNECTION LOOKING EAST TOWARD WETLAND





## 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

Page 1 of 7



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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: -

INORGANIC & ORGANIC ANALYSIS		Lab ID		Limit	SHE20-03744.001
		Customer ID			TD6G72M
		Date Received			2020/04/30
					Other (Solid)
Report No.: SHE20-03744					
Customer Reference: -					
ITEM	METHOD	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



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## INORGANIC & ORGANIC ANALYSIS

Report No.: SHE20-03744

Customer Reference: -

INORGANIC & ORGANIC ANALYSIS		Lab ID		Limit	SHE20-03744.001
		Customer ID			TD6G72M
		Date Received			2020/04/30
					Other (Solid)
Report No.: SHE20-03744					
Customer Reference: -					
ITEM	METHOD	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.





## 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 7800	CHEM-988	JP16311502

### Method:USEPA 7473-2007

Equipment Name	Model	Equipment Number	Serial Number
Hg analyzer	Milestone DMA-80	CHEM-958	16041979

### Method:USEPA 8151A-1996

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890A/5975C	CHEM-ENV095	CN12371032/US12362A17

### Method:USEPA 8260D-2018

Equipment Name	Model	Equipment Number	Serial Number
PT-GC-MS	Agilent 4860/7890B/5977A	CHEM-ENV091/092	H205486317P/CN13313013/US1330M207

### Method:USEPA 8270E-2016

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

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## APPENDIX 2

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