

*Via Hand Delivery and Electronic Mail ([siting.council@ct.gov](mailto:siting.council@ct.gov))*

October 19, 2022

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

Re: **PETITION NO. 1443A - SR North Stonington, 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 9.9-megawatt AC solar photovoltaic electric generating facility on five parcels located north and south of Providence New London Turnpike (State Route 184), west of Boombridge Road and north of Interstate 95 in North Stonington, Connecticut, and associated electrical interconnection. Reopening of this petition based on changed conditions pursuant to Connecticut General Statutes §4-181a(b)**

Dear Attorney Bachman:

SR North Stonington, LLC's (SRNS) hereby submits responses to the Connecticut Siting Council's (Council) Partial D&M Plan I Interrogatories 1 through 6 (Responses), issued on October 5, 2022 in connection with the above-referenced Petition.

Enclosed please find one (1) original and fifteen (15) copies of the Responses, including Attachments 1, 2, and 3. The copies of Attachments 2 and 3 are being provided on 11" x 17" paper. If the Council would like copies of these documents on larger paper, please let me know.

If you have any questions, please do not hesitate to contact me.

Sincerely,



Jonathan H. Schaefer

Enclosures (One original and fifteen copies of Responses, including Attachments 1, 2, and 3)

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE:

PETITION NO. 1443A

SR NORTH STONINGTON, LLC  
DECLARATORY RULING, PURSUANT TO  
CONNECTICUT GENERAL STATUTES §4-  
176 AND §16-50K, FOR THE PROPOSED  
CONSTRUCTION, MAINTENANCE AND  
OPERATION OF A 9.9-MEGAWATT AC  
SOLAR PHOTOVOLTAIC ELECTRIC  
GENERATING FACILITY ON FIVE PARCELS  
LOCATED NORTH AND SOUTH OF  
PROVIDENCE NEW LONDON TURNPIKE  
(STATE ROUTE 184), WEST OF  
BOOMBRIDGE ROAD AND NORTH OF  
INTERSTATE 95 IN NORTH STONINGTON,  
CONNECTICUT, AND ASSOCIATED  
ELECTRICAL INTERCONNECTION.  
REOPENING OF THIS PETITION BASED ON  
CHANGED CONDITIONS PURSUANT TO  
CONNECTICUT GENERAL STATUTES §4-  
181A(B).

OCTOBER 19, 2022

**RESPONSES OF SR NORTH STONINGTON, LLC  
TO CONNECTICUT SITING COUNCIL PARTIAL D&M PLAN INTERROGATORIES**

On September 26, 2022, the Connecticut Siting Council (“Council”) issued Partial D&M Plan (Phase 1) Interrogatories to SR North Stonington, LLC (“Petitioner”), relating to Petition No. 1443A. Below are Petitioner’s responses to the interrogatories.

**Question No. 1**

Has the Department of Energy and Environmental Protection Stormwater Program issued a Stormwater Permit for the proposed site? If not, has there been any consultation with the DEEP Stormwater program to determine if site layout modifications are necessary to accommodate the proposed stormwater management system?

Response

The DEEP Stormwater Program issued a Stormwater Permit for the proposed site on October 5, 2022 (*see Attachment 1*). Since receiving the Stormwater Permit, the Petitioner has provided DEEP Stormwater Program with an updated version of the Site Civil Design plans and is awaiting DEEP Stormwater Program's confirmation that this updated version will be incorporated into the Stormwater Permit. The only changes reflected in this updated version related to notes on NDDB and environmental matters and no changes to the design or drawings were made. Based on discussions with the DEEP Stormwater Program, the Petitioner anticipates confirmation in short order that this updated version has been accepted. A copy of this updated version of the Site Civil Design is provided in **Attachment 2**.

Question No. 2

Have there been any consultation with the DEEP Stormwater program regarding the potential impacts of sheep grazing at the site, including, but not limited to, water quality impacts from animal waste? Would there be any required site layout modifications associated with stormwater design and/or hosting sheep at the site that would alter the proposed tree clearing plan?

Response

The Petitioner is not planning to introduce sheep grazing at the site until at least Spring 2024, approximately four to five months after construction is completed. Therefore, sheep will not be hosted at the site during the tree clearing. The Petitioner did mention the potential future introduction of sheep grazing at the site when consulting with the DEEP Stormwater program and no site layout modifications associated with stormwater design were identified.

Question No. 3

Page 2 of Partial Development and Management Plan (D&M Plan) I states that, “SNRS expects that CT DEEP will issue its Stormwater Permit imminently and will provide a copy of the approved permit prior to removing any tree stumps.” Page 3 of Partial D&M Plan I notes that, “SRNS will submit a copy of the Stormwater Permit, to the Council prior to commencing any Phase I activities.” Is it correct to say that no trees would be removed and no erosion and sedimentation (E&S) controls would be installed until after a Stormwater Permit has been submitted to the Council?

Response

Yes.

Question No. 4

Referencing page 4 of Partial D&M Plan I, please respond to the following:

- a) Provide details as to how site stabilization of disturbed areas will be determined prior to the beginning of construction.
- b) Define growing season. Has the DEEP Stormwater program established a growing season for this project? If yes, provide detail.

Response

a) The site will be stabilized by installing the construction entrance, tree protection fence, silt fence, and silt fence stone outlets as shown on plans, prior to any site disturbance activities (clearing, grubbing, grading, or excavation including skimmer/sediment basins). All field non-wooded areas that are not to be graded (i.e. fields) will be mowed to facilitate panel installation but will be otherwise left undisturbed to maintain existing drainage patterns where stable. Any severely eroded drainage ways will be graded back, roughened, matted, and seeded. Only the

number of trees needed to provide access to the site basins and diversion ditches to be constructed will be cleared. Once the structural measures have been constructed, the remaining clearing and grubbing of the site can take place. Temporary seeding will be completed after each area has been grubbed.

Any areas exceeding 8 vertical feet will be stabilized with synthetic or vegetated mats in addition to seeding. Once the site has been cleared, the remainder of the roads and culverts will be installed to each of the solar array areas. Following this, any required grading can then begin in the areas shown on the plans. Once an area has been graded, permanent seeding will be placed, including synthetic or vegetated matting for areas exceeding 8 vertical feet, and the site stabilized.

b) The Final Stabilization Inspection must occur at least two full growing seasons after final stabilization has been achieved. A full growing season is defined as the timeframe encompassed by two consecutive full seeding seasons: April 1 through June 15, and August 15 through October 1. If final stabilization is achieved during a seeding season, the following seeding season will be considered the first full seeding season after final stabilization has been achieved.

#### Question No. 5

Referencing page 3 of Partial D&M Plan I, E&S controls would be installed for the tree cutting areas of the Eastern Array. Would E&S controls also be installed for the tree cutting areas of the Western Array? Submit a site plan that details the type(s) of and location(s) of E&S controls that would be established for Partial D&M Plan I.

#### Response

Yes, the Petitioner now plans to install all E&S controls required by the Stormwater

Permit, as part of Partial D&M Plan I. This includes completing the following, which were originally listed as items c, d, and e for Partial D&M Plan II:

- site grading and fill within the Project area in preparation for construction and installation of the solar arrays;
- installation of temporary and permeant stormwater controls in accordance with plans approved by the DEEP Stormwater Bureau (and if applicable, consistent with DEEP Dam Safety Division permitting requirements) for proposed stormwater basins;
- the installation of additional SESC measures as required under a Stormwater Permit.

The updated revised Site Civil Design (*see Attachment 2*) details the types of and locations of all E&S controls.

#### Question No. 6

Would the Eastern Array be accessed from the existing farm access drive for Partial D&M Plan I work? What upgrades, if any, would occur to the existing farm access drive to facilitate Western Array Partial D&M Plan I activities? Referencing page 3 of the Partial D&M Plan I, describe the installation of the Western Array driveway entrance off of Route 184.

#### Response

Yes, access to the Eastern Array would use the existing farm access drive from Boombridge Road. No farm access drive currently exists to the Western Array. Assuming the reference was intended to be to the Eastern Array, no upgrades to this access drive will be necessary for the Partial D&M Plan I activities.

The Petitioner intends to install and construct the Western Array driveway entrance off of Route 184 consistent with the plans Petitioner submitted to the Connecticut Department of Transportation (CTDOT) on September 8, 2022 for an Encroachment Permit. The submitted plans include the updated revised Site Civil Design (*see Attachment 2*) and the Encroachment Permit Exhibit (*see Attachment 3*). Pending CTDOT's review of these plans, and any comments, the Petitioner will submit a complete Encroachment Permit Application for installation and construction of the Western Array driveway entrance off of Route 184.

CERTIFICATE OF SERVICE

I hereby certify that on the 19th day of October, 2022, a copy of the foregoing was sent,  
via electronic mail, to:

Robert A. Avena, Esq.  
Suisman Shapiro  
20 South Anguilla Road  
P.O. Box 1445  
Pawcatuck, CT 06379  
[RAvena@sswbgg.com](mailto:RAvena@sswbgg.com)

Nathan Reichert  
North Stonington Planning,  
Development & Zoning Official  
40 Main Street  
North Stonington, CT 06359  
[nreichert@northstonington.com](mailto:nreichert@northstonington.com)

  
\_\_\_\_\_  
Jonathan H. Schaefer



# **ATTACHMENT 1**



Connecticut Department of  
**ENERGY &  
ENVIRONMENTAL  
PROTECTION**

79 Elm Street • Hartford, CT 06106-5127

[www.ct.gov/deep](http://www.ct.gov/deep)

Affirmative Action/Equal Opportunity Employer

## NOTICE OF PERMIT AUTHORIZATION

Date: 10/5/22

ATTN: Dee Koehler, Project Director

**Mailing Address:**

North Stonington, LLC, c/o Silicon Ranch  
222 Second Ave S, Suite 1900  
Nashville, TN 37201

**Site Information:**

SR North Stonington  
428 Providence New London Tpke  
North Stonington, CT 06359

RE: General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities  
Permit No. GSN003815, issued to North Stonington, LLC  
Application No. 202205795

Dear Ms. Koehler:

The Department of Energy and Environmental Protection, Water Permitting and Enforcement Division of the Bureau of Materials Management and Compliance Assurance, has completed the review of the North Stonington, LLC (located at 428 Providence New London Tpke) registration for the **General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 12/31/2020 (general permit)**. The project is compliant with the requirements of the general permit and the discharge(s) associated with this project is (are) authorized to commence as of the date of this letter. Permit No. GSN003815 has been assigned to authorize the stormwater discharge(s) from this project.

Should you have any questions about this letter or any other question concerning the general permit, please feel free to contact Christopher Stone, P.E. at 860-424-3850 or [chris.stone@ct.gov](mailto:chris.stone@ct.gov).

Sincerely,  
Karen L. Allen, PE  
Supervising Sanitary Engineer  
Water Permitting and Enforcement Division  
Bureau of Materials Management and Compliance Assurance

# **ATTACHMENT 2**



SCALE: 1"=1000'

Contract Drawings For

# SR NORTH STONINGTON, LLC

## North Stonington Solar

### Site Civil Design

41° 25' 58" N, 71° 49' 7" W

HDR Project No.  
10243352

North Stonington, Connecticut

ISSUED FOR PERMIT

9/30/2020 PROGRESS SET (Not for Construction)

02/19/2021 REVISION 1 (Not for Construction)

05/28/2021 REVISION 2 (Not for Construction)

06/25/2021 REVISION 3 (Not for Construction)

11/19/2021 REVISION 4 (Not for Construction)

04/22/2022 REVISION 5 (Not for Construction)

09/02/2022 REVISION 6 (Not for Construction)

10/05/2022 REVISION 7 (Not for Construction)

10/18/2022 REVISION 8 (Not for Construction)

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C-508	EROSION AND SEDIMENT CONTROL NOTES
C-601	SITE PLAN 1
C-602	SITE PLAN DETAILS
C-700	SITE DETAILS

CONTACT INFORMATION  
OWNER: SILICON RANCH CORPORATION  
222 2ND AVE S, SUITE 1900  
NASHVILLE, TN 37201

CONTACT: PETER CANDELARIA  
BRENDAN.JULIAN@SILICONRANCH.COM  
628-484-1946

ENGINEER: HDR ENGINEERING, INC.  
4646 VILLAGE SQUARE DRIVE  
PADUCAH, KY 42001-7448

CONTACT: MATTHEW BRAWLEY, PE  
MATTHEW.BRAWLEY@HDRINC.COM  
270-538-1540



**GENERAL DEMOLITION NOTES:**

- ALL MATERIAL PRODUCED AS A RESULT OF DEMOLITION TO BE DISPOSED OF OFFSITE IN COMPLIANCE WITH ALL STATE, FEDERAL AND LOCAL ENVIRONMENTAL REGULATIONS.
- CONTRACTOR TO FIELD VERIFY ALL UTILITIES BEFORE START OF DEMOLITION AND PROTECT AS REQUIRED TO COMPLETE DEMOLITION ACTIVITIES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DEMOLITION OR RELOCATION WITH APPLICABLE UTILITY COMPANIES: GAS, CABLE, POWER, TELEPHONE, WATER, SEWER, ETC.
- CONTRACTOR TO INSTALL ALL PERIMETER EROSION CONTROLS PRIOR TO COMMENCEMENT OF DEMOLITION.
- SAW CUT EXISTING ASPHALT TO CLEAN EDGE.
- DEMOLITION OF FENCING SHALL BE COMPLETED WITH OWNER APPROVAL. TEMPORARY FENCING AND SECURITY FENCING WILL BE REQUIRED. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING TIMING AND REQUIREMENTS OF ALL FENCING ESTABLISHMENT TO ENSURE SITE TEMPORARY WAY FINDING IS UP TO DATE PRIOR TO ACCESS CLOSURES. IF PERIMETER FENCING EXISTS AND IS INTACT, CONTRACTOR TO PRESERVE AS POSSIBLE.
- ALL UTILITIES SHALL BE DEMOLISHED TO NEAREST JOINT WHERE FEASIBLE. CONFIRM PROPER CONNECTIONS WITH ENGINEER IF PIPING MATERIALS ARE TO BE CUT AND JOINED.
- DEMOLITION OR REROUTE OF EXISTING UTILITIES TO REMAIN SHALL ALLOW FOR CONTINUOUS USE OF THE SYSTEM(S). CONTRACTOR SHOULD PRESERVE EXISTING WATER SERVICE (IE. WATER TAP OR WELL) AND INSTALL BURIED HDPE PIPE AND FROST FREE HYDRANT DIRECTLY INSIDE MAIN ENTRY GATE.
- CONTRACTOR, PRIOR TO DEMOLITION, SHALL WALK THE SITE WITH THE OWNER AND SPECIFICALLY NOTE ITEMS THAT SHALL BE REMOVED AND HANDED OVER TO THE OWNER.

**SEEDBED PREPARATION NOTES:**

- SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
- AREAS TO BE SEEDBED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 6" DEEP.
- LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION AT FINISHED GRADES SHOWN SHALL BE REASONABLY SMOOTH AND UNIFORM.
- SOIL TESTS SHOULD BE TAKEN, AND AMENDMENTS SHOULD BE APPLIED PER SOIL TEST RECOMMENDATIONS.
- LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.
- MULCH TO BE TACKED OR MECHANICALLY TIED DOWN WITHIN TWO DAYS AFTER MULCH IS SPREAD.
- ALL SLOPES GREATER THAN 2.5:1 SHALL BE STABILIZED WITH JUTE MESH.

**EROSION CONTROL NOTES:**

- ALL EROSION CONTROL MEASURES SHALL BE IN STRICT ACCORDANCE WITH CONNECTICUT EROSION AND SEDIMENT CONTROL STANDARDS.
- NO ON-SITE BURIAL PITS ARE ALLOWED.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF CONNECTICUT EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- GRADING MORE THAN HALF ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE STATE.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED DUE TO FIELD CONDITIONS OR AS DIRECTED BY THE CT DEEP INSPECTOR.
- SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES.
- ALL MATERIALS REQUIRED FOR CONSTRUCTION OF SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE AVAILABLE ON SITE BEFORE ANY LAND-DISTURBING ACTIVITY IS BEGUN.
- LINEAR TREE PROTECTION SHALL BE ORANGE SAFETY FENCE 3' HIGH, TO PROVIDE ADDITIONAL WORKING ROOM. CONTRACTOR MAY COORDINATE WITH THE INSPECTOR TO UTILIZE COMBINATION SILT FENCE WITH ORANGE STRIP ON TOP.

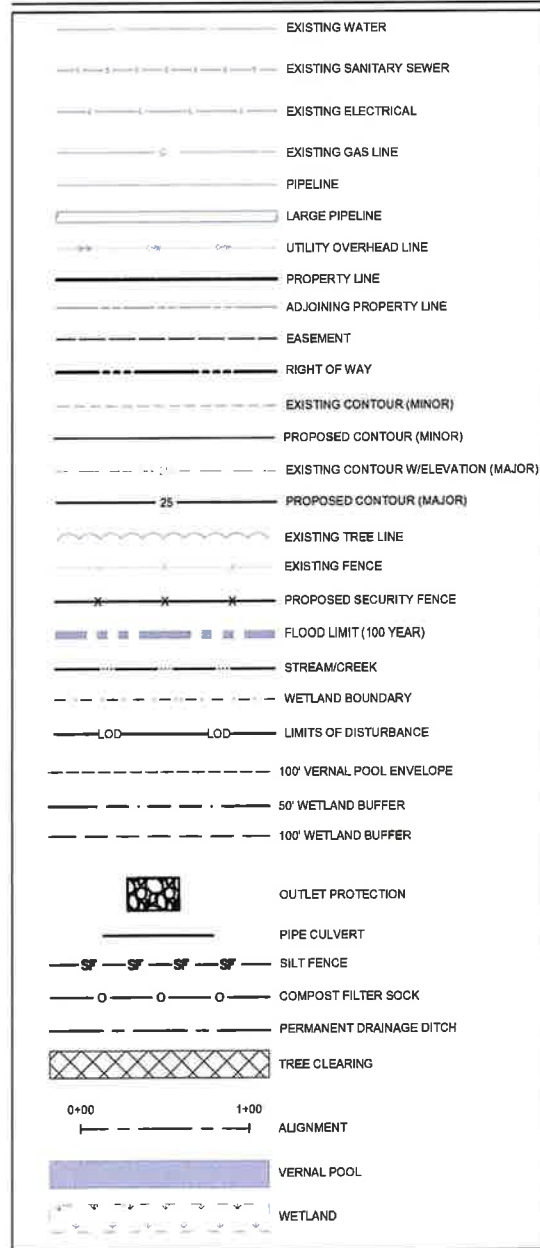
STONINGTON CIVIL QUANTITIES		
ITEM	UNIT	QUANTITY
LIMITS OF DISTURBANCE	ACRES	35.0
PROPERTY AREA	ACRES	125
ROADS	LF	3711
PERIMETER FENCE	LF	7058
SWING GATES	EA	2
BAR GATES	EA	1
TREE REMOVAL	ACRES	35.0
CUT VOLUME	CY	30761
FILL VOLUME*	CY	7889

\* 10% SLOPE/MASS FACTOR APPLIED

**GENERAL NOTES:**

- PROVIDE SILT FENCE AROUND PERIMETER OF ALL STOCKPILES. STABILIZE IMMEDIATELY UPON ESTABLISHMENT OF PILE.
- GRADING CONTRACTOR SHALL CHECK/IDENTIFY FOR ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING THE CLEARING / GRADING.
- ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED DAILY. ALL TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. THE TEMPORARY SEDIMENT BASINS SHALL BE CLEANED OUT WHEN THE SEDIMENT REACHES 1/2 OF THE SEDIMENT STORAGE CAPACITY. SILT FENCE SHALL BE CLEANED FROM SEDIMENT WHEN THE SEDIMENT LEVEL IS HALF WAY UP THE SILT FENCE FABRIC.
- THE CONSTRUCTION ENTRANCE MAY REQUIRE ADDITIONAL STONE TO PREVENT TRACKING.
- THE GRADING CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ANY TRACKING OF SEDIMENT ONTO PAVED ROAD AS SOON AS POSSIBLE, BUT BEFORE THE END OF THE WORK DAY.
- ALL DEBRIS STOCK PILES SHALL BE REMOVED AND PROPERLY DISPOSED OF IN A LEGAL LANDFILL (IE. MULCH AND LOG PILES). CONTRACTOR SHALL COMPLY WITH ALL LOCAL ORDINANCES, SURROUNDING PROPERTIES AND COMMUNICATE WITH LOCAL FIRE DEPARTMENTS FOR THE BURNING OF ANY CLEARING DEBRIS.
- BOUNDARY SURVEY FOR THE SITE PROVIDED BY PROVOST & ROVERO, INC. FOR SURVEY COMPLETED ON 08/27/2018.
- GEOTECHNICAL INVESTIGATION PROVIDED BY TERRACON FOR SITE VISIT ON 06/08/2019.

**UTILITY/CIVIL LINE SYMBOLOGY**



**NOT FOR CONSTRUCTION**

**NORTH STONINGTON SOLAR**

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA  
LAT: 41.431830°N  
LON: 71.821514°W



NORTH STONINGTON, CT

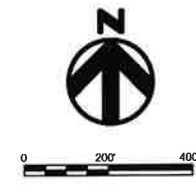
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7	RE-ISSUED FOR PERMIT	10/05/22
6	RE-ISSUED FOR PERMIT	09/02/22
5	RE-ISSUED FOR PERMIT	04/22/22
4	RE-ISSUED FOR PERMIT	11/19/21
3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

**SHEET TITLE:**  
**CIVIL NOTES AND ABBREVIATIONS**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/18/2022
DRAWN BY: JP	CHECKED BY: CP	SCALE:

DRAWING NO.  
**C002**





NOT FOR  
CONSTRUCTION

**NORTH  
STONINGTON  
SOLAR**

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA  
LAT: 41.431830°N  
LON: 71.821514°W



NORTH STONINGTON, CT

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2	RE-ISSUED FOR PERMIT	05/28/21

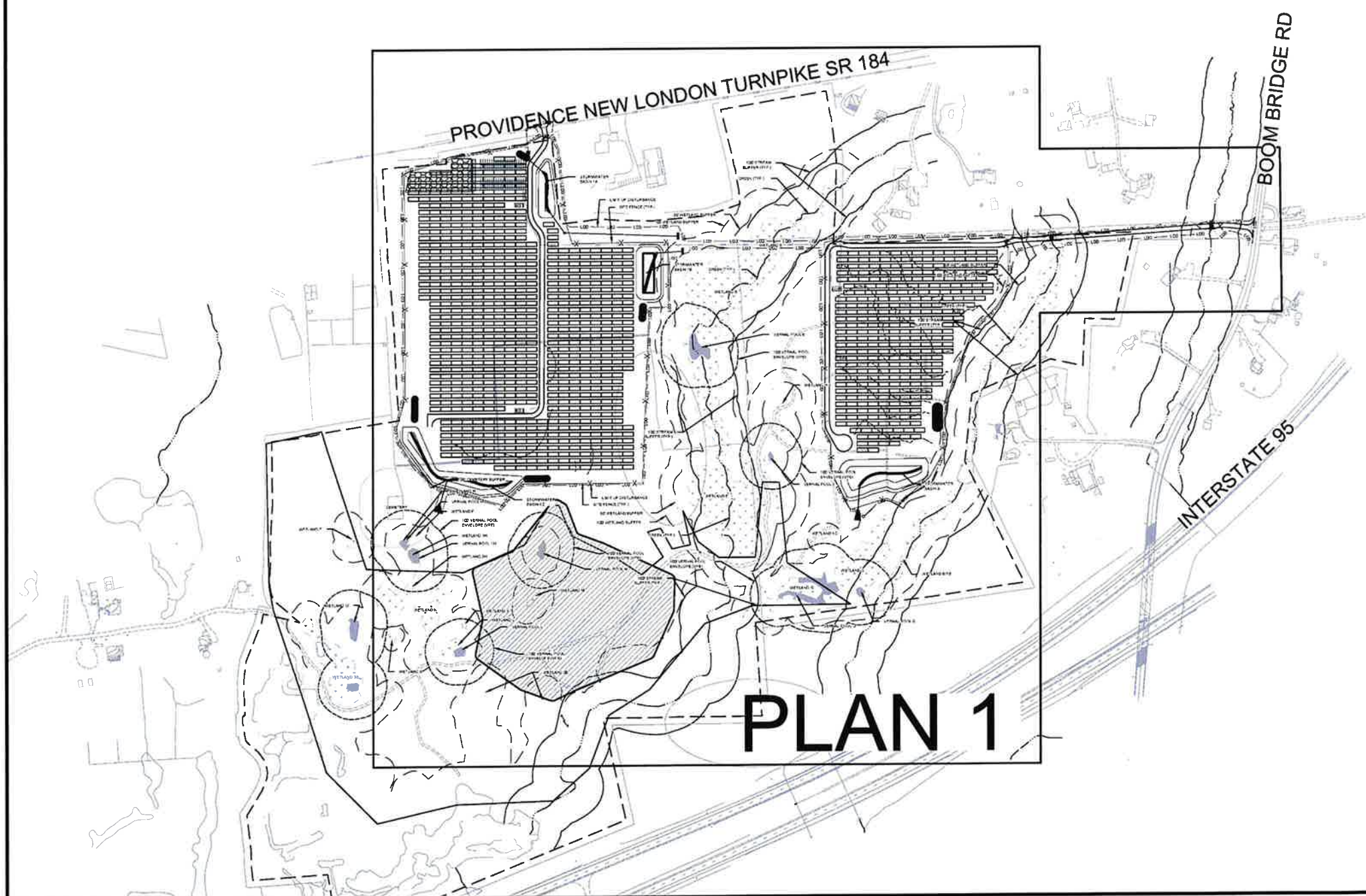
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**OVERALL SITE PLAN**

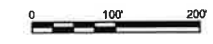
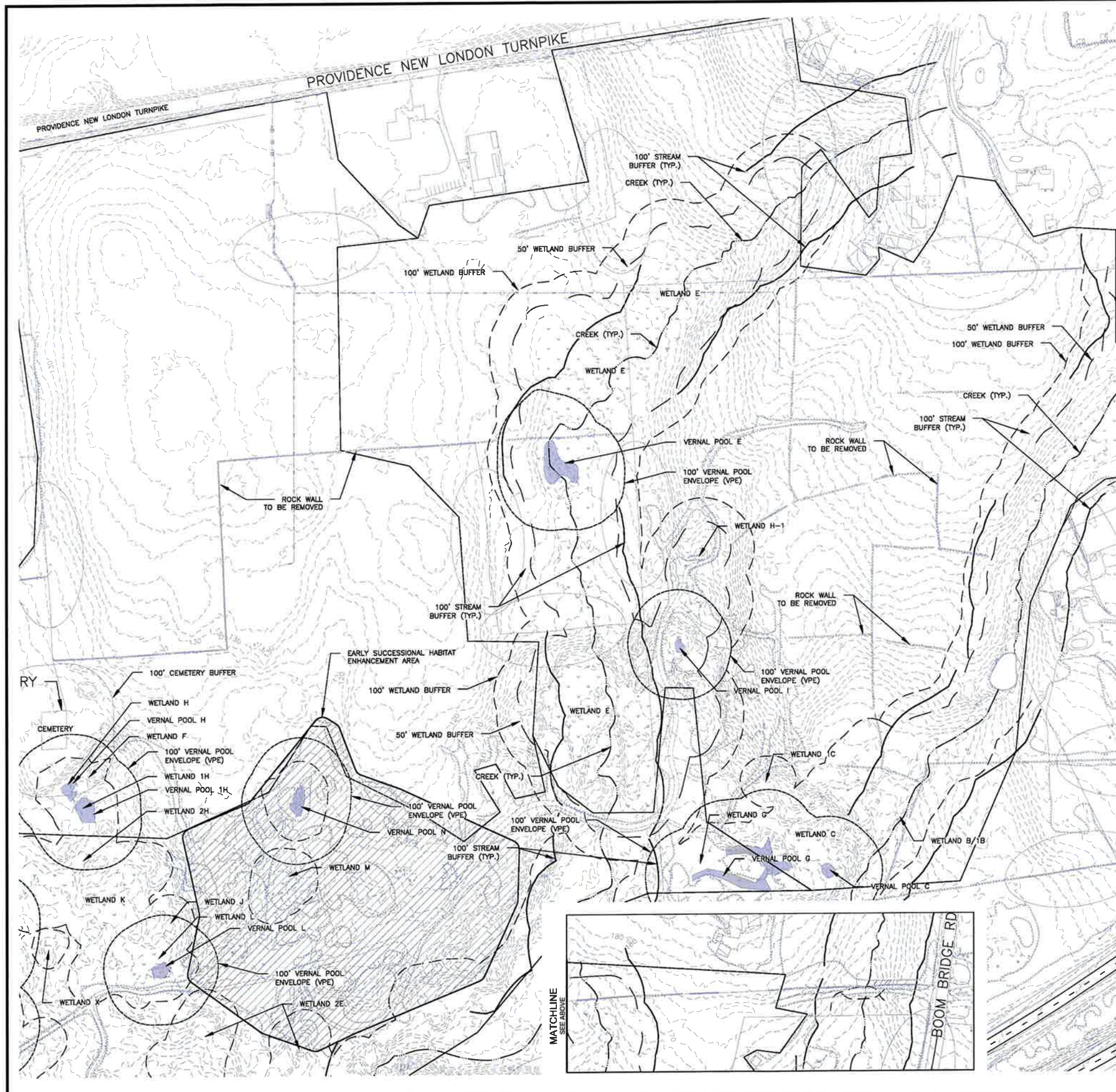
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DRAWING NO.

**C101**




	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING ELECTRICAL
	EXISTING GAS LINE
	PIPELINE
	LARGE PIPELINE
	UTILITY OVERHEAD LINE
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENT
	RIGHT OF WAY
	EXISTING CONTOUR (MINOR)
	PROPOSED CONTOUR (MINOR)
	EXISTING CONTOUR (MAJOR)
	PROPOSED CONTOUR (MAJOR)
	EXISTING TREE LINE
	EXISTING FENCE
	PROPOSED SECURITY FENCE
	FLOOD LIMIT (100 YEAR)
	STREAM/CREEK
	WETLAND
	LIMITS OF DISTURBANCE
	100' VERNAL POOL ENVELOPE
	50' WETLAND BUFFER
	100' WETLAND BUFFER
	OUTLET PROTECTION
	PIPE CULVERT
	SILT FENCE
	COMPOST FILTER SOCK
	PERMANENT DRAINAGE DITCH
	TREE CLEARING
	ALIGNMENT
	VERNAL POOL
	WETLAND



GENERAL NOTES:  
 1. SEE SHEET C101 FOR OVERALL PLAN.  
 2. ALTA PROVIDED BY PROVOST & ROVERO, INC DATED JUNE 18, 2018.



**NOT FOR  
CONSTRUCTION**

**NORTH  
STONINGTON  
SOLAR**  
 428, PROVIDENCE-NEW LONDON TURNPIKE  
 NORTH STONINGTON, CT 06359, USA  
 LAT: 41.431830°N  
 LON: 71.821514°W  
  
 NORTH STONINGTON, CT

	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING ELECTRICAL
	EXISTING GAS LINE
	PIPELINE
	LARGE PIPELINE
	UTILITY OVERHEAD LINE
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENT
	RIGHT OF WAY
	EXISTING CONTOUR (MINOR)
	PROPOSED CONTOUR (MINOR)
	EXISTING CONTOUR (MAJOR)
	PROPOSED CONTOUR (MAJOR)
	EXISTING TREE LINE
	EXISTING FENCE
	PROPOSED SECURITY FENCE
	FLOOD LIMIT (100 YEAR)
	STREAM/CREEK
	WETLAND
	LIMITS OF DISTURBANCE
	100' VERNAL POOL ENVELOPE
	50' WETLAND BUFFER
	100' WETLAND BUFFER
	OUTLET PROTECTION
	PIPE CULVERT
	SILT FENCE
	COMPOST FILTER SOCK
	PERMANENT DRAINAGE DITCH
	TREE CLEARING
	ALIGNMENT
	VERNAL POOL
	WETLAND
	EARLY SUCCESSIONAL HABITAT ENHANCEMENT AREA

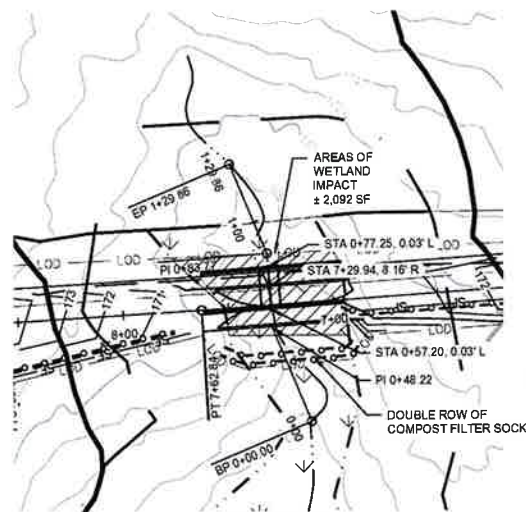
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4	RE-ISSUED FOR PERMIT	11/19/21
3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:  
**EXISTING CONDITIONS  
PLAN 1**

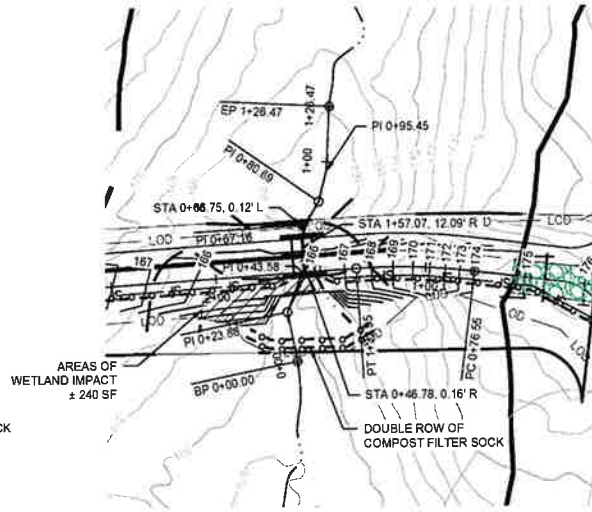
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DRAWING NO.  
**C102**





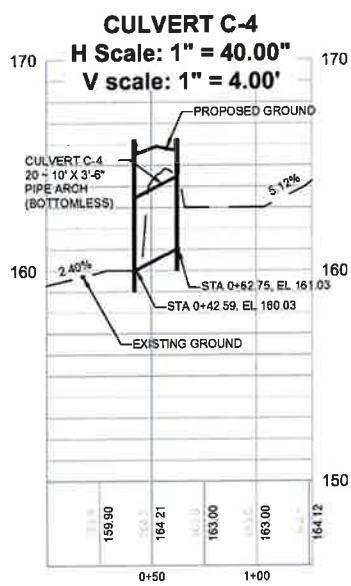
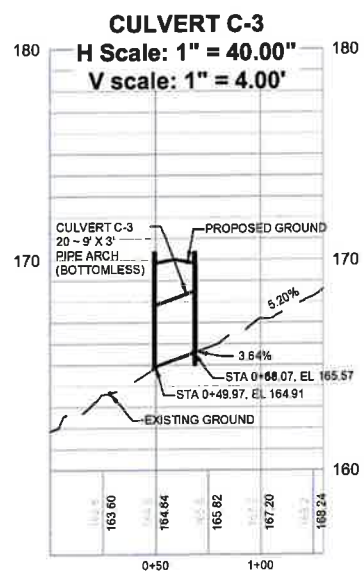
CULVERT C-3



CULVERT C-4

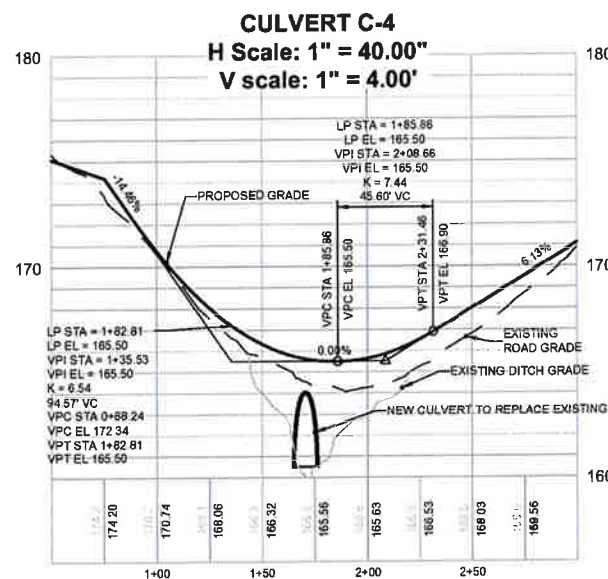
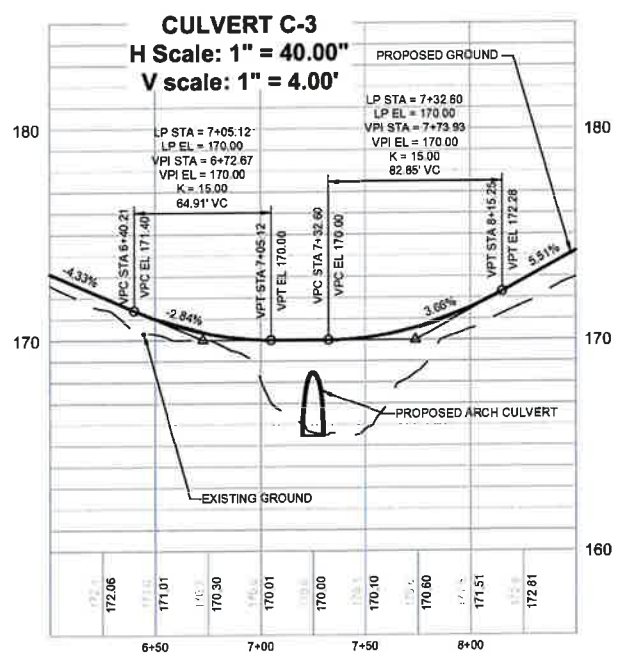


REFER TO GRADING AND DRAINAGE PLAN ON SHEET C401 FOR CULVERT LOCATIONS.



Culvert	Est. Peak Flow Q 50-yr (cfs)	Length (ft)	Shape	Span (ft)	Rise (ft)	Area (sf)	Open Area (sf)	OR (Open Area)/Length
C-3	87.2300	20	Arch (Bottomless)	9	3.0	27.0	27.0	1.35
C-4	104.7800	20	Arch (Bottomless)	10	3.5	35.0	35.0	1.75

PROVIDE PRECAST, 4000 PSI, CLASS IV, CULVERT. SHAPE AND DIMENSIONS PER TABLE ABOVE.



NOT FOR CONSTRUCTION

**NORTH STONINGTON SOLAR**

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA  
LAT: 41.431830°N  
LON: 71.821514°W



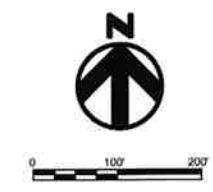
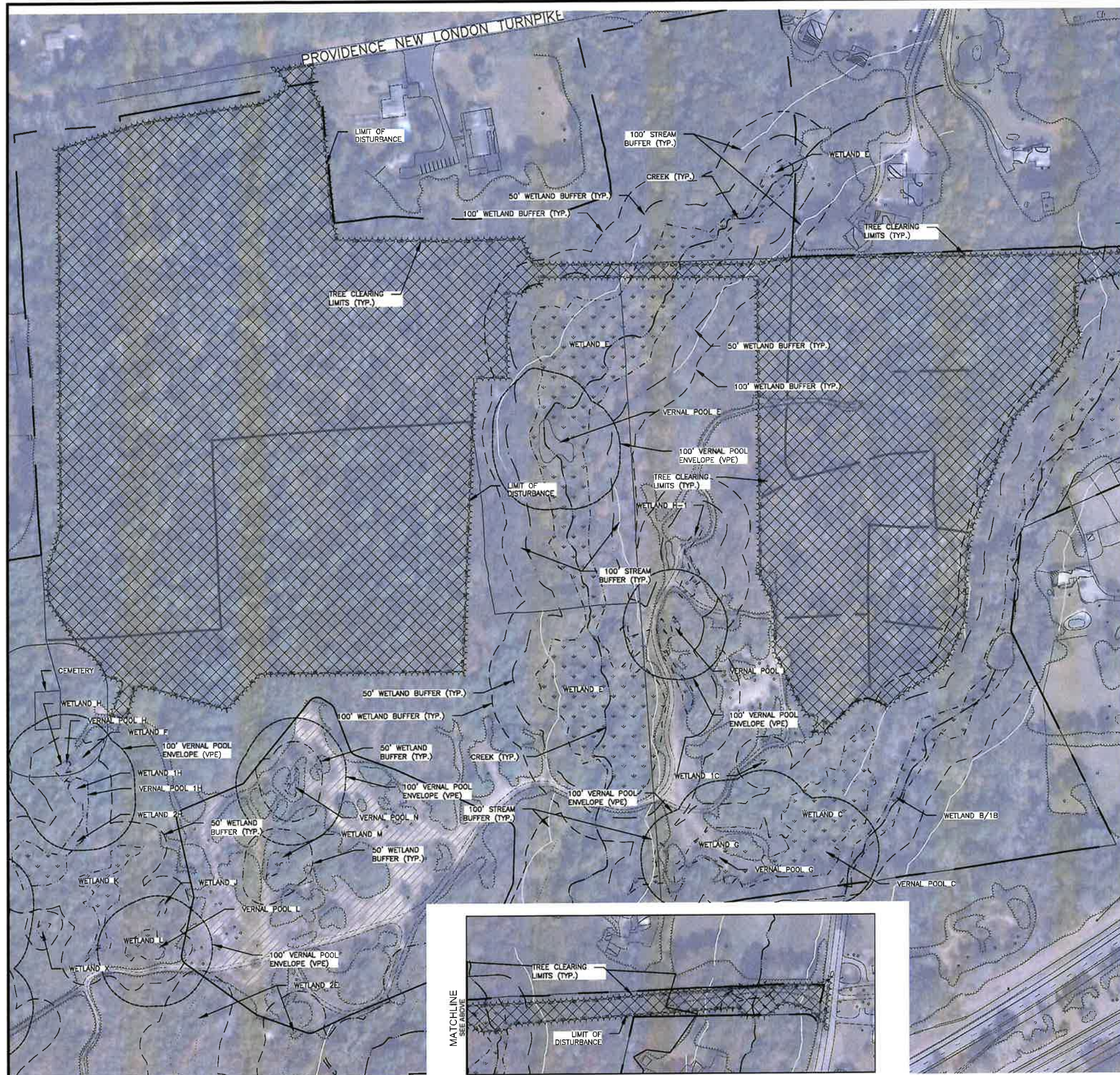
NORTH STONINGTON, CT

REV. NO	DESCRIPTION	DATE
8	RE-ISSUED FOR PERMIT	10/18/22
7	RE-ISSUED FOR PERMIT	10/05/22
6	RE-ISSUED FOR PERMIT	09/02/22
5	RE-ISSUED FOR PERMIT	04/22/22
4	RE-ISSUED FOR PERMIT	11/19/21
3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:  
**WETLAND CROSSINGS**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/18/2022
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'

DRAWING NO.  
**C-200**



**NOT FOR  
CONSTRUCTION**

**NORTH  
STONINGTON  
SOLAR**

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA

LAT: 41.431830°N  
LON: 71.821514°W

NORTH STONINGTON, CT

	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING ELECTRICAL
	EXISTING GAS LINE
	PIPELINE
	LARGE PIPELINE
	UTILITY OVERHEAD LINE
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENT
	RIGHT OF WAY
	EXISTING CONTOUR (MINOR)
	PROPOSED CONTOUR (MINOR)
	EXISTING CONTOUR (MAJOR)
	PROPOSED CONTOUR (MAJOR)
	EXISTING TREE LINE
	EXISTING FENCE
	PROPOSED SECURITY FENCE
	FLOOD LIMIT (100 YEAR)
	STREAM/CREEK
	WETLAND
	LIMITS OF DISTURBANCE
	100' VERNAL POOL ENVELOPE
	50' WETLAND BUFFER
	100' WETLAND BUFFER
	OUTLET PROTECTION
	PIPE CULVERT
	SILT FENCE
	COMPOST FILTER SOCK
	PERMANENT DRAINAGE DITCH
	TREE CLEARING
	ALIGNMENT
	VERNAL POOL
	WETLAND

REV. NO.	DESCRIPTION	DATE
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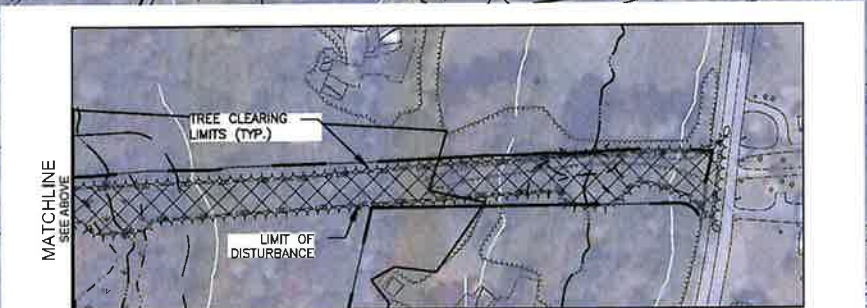
SHEET TITLE:

**TREE CLEARING PLAN 1**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/18/2022
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100

DRAWING NO.:

**C301**





- GENERAL NOTES :**
1. SEE SHEET C101 FOR OVERALL PLAN.
  2. ALL TIE-IN GRADING SLOPES ARE 3H:1V.
  3. ALL BASIN SIDE SLOPES ARE 3H:1V.
  4. SEE SHEET C200 FOR CULVERT WETLAND CROSSING PROFILES.
  5. SEE DETAIL 2, SHEET 505 FOR STORMWATER BASIN.
  6. GRADE DITCH BETWEEN PV SYSTEM PILES, ADJUST IN FIELD AS NEEDED.



**NOT FOR CONSTRUCTION**

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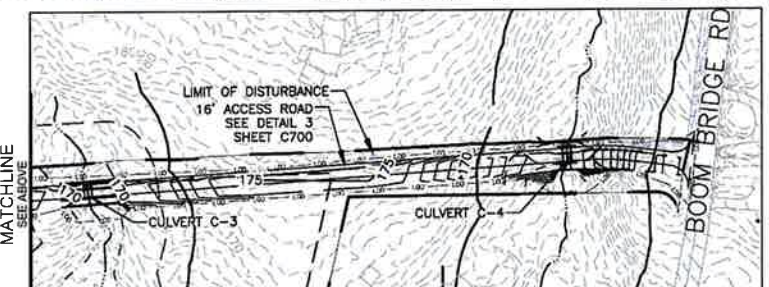
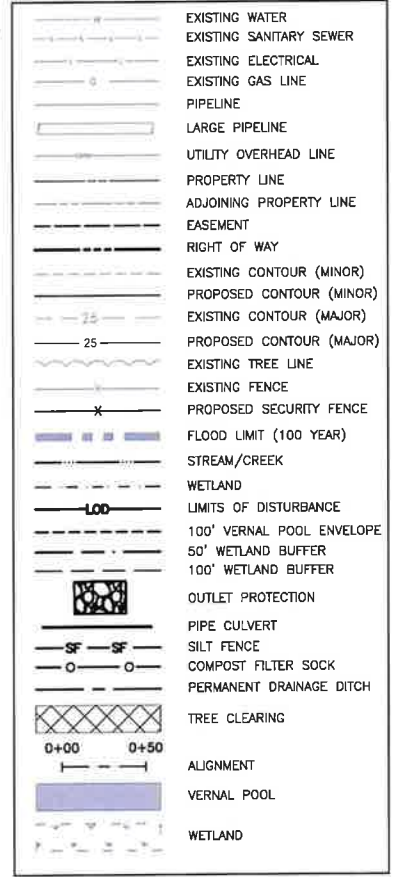
**NORTH STONINGTON, CT**

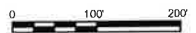
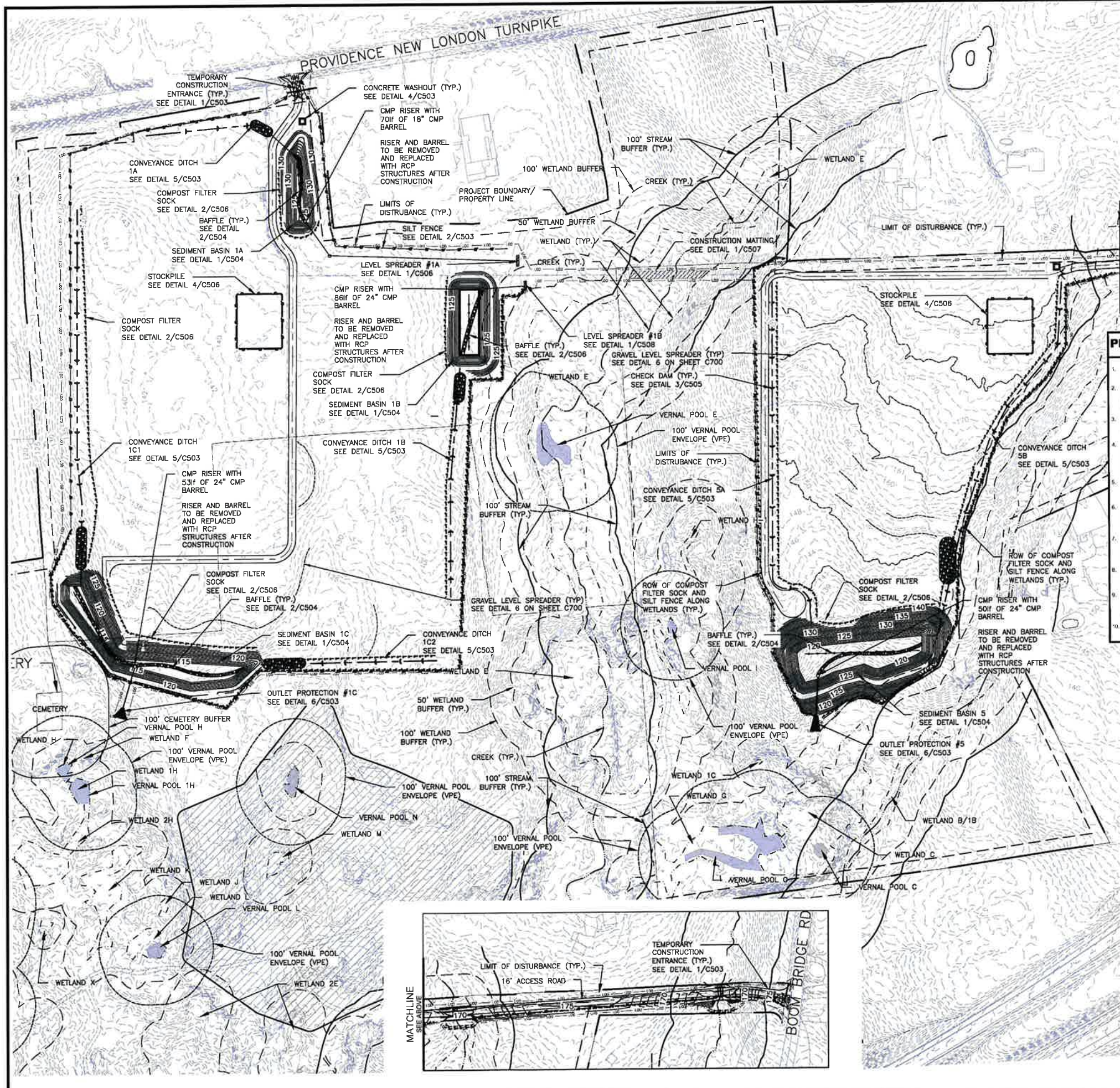
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SHEET TITLE:  
**ARRAY GRADING AND DRAINAGE 1**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/18/2022
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100
DRAWING NO.		

**C401**





**GENERAL NOTES :**

- SEE SHEET C101 FOR OVERALL PLAN.
- ALL BASIN SIDE SLOPES ARE 3H:1V.

**PHASE 1 CONSTRUCTION SEQUENCE**

- CONTACT THE CT DEEP INSPECTOR TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE TO DISCUSS EROSION CONTROL MEASURES.
- INSTALL THE CONSTRUCTION ENTRANCE, TREE PROTECTION FENCE, SILT FENCE AND SILT FENCE STONE OUTLET AS SHOWN ON PLANS, PRIOR TO ANY SITE DISTURBANCE ACTIVITIES (CLEARING, GRUBBING, GRADING, OR EXCAVATION INCLUDING SKIMMER SEDIMENT BASINS).
- DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY CT DEEP. CONTACT THE INSPECTOR FOR AN ON-SITE INSPECTION OF THE INSTALLED TREE PROTECTION FENCE.
- ALL FIELD NON-WOODED AREAS THAT ARE NOT TO BE GRADED (I.E. FIELDS) SHALL BE MOVED TO FACILITATE PANEL INSTALLATION BUT SHALL BE OTHERWISE LEFT UNDISTURBED TO MAINTAIN EXISTING DRAINAGE PATTERNS WHERE STABLE. ANY SEVERELY ERODED DRAINAGEWAYS SHALL BE GRADED BACK, ROUGHENED, MATTED AND SEEDED.
- INSTALL BASINS UPON INSTALLATION OF THE BASINS. INSTALL OUTFLOW SWALES TO THE BASIN AS NEEDED. STABILIZE IMMEDIATELY UPON REACHING FINAL GRADE. PROVIDE TEMPORARY CULVERT FOR CROSSING EXISTING DRAINAGE AREAS.
- INSTALL REMAINING EROSION CONTROL MEASURES AS INDICATED ON CONSTRUCTION DOCUMENTS TO FACILITATE SEDIMENT CONTROL PRIOR TO GRADING. CLEARING ONLY AS NECESSARY TO INSTALL THESE BEST MANAGEMENT PRACTICES (BMPs).
- INSPECT ALL EROSION CONTROL DEVICES ONCE EVERY CALENDAR WEEK AND AFTER EVERY RAINFALL EXCEEDING 1" TO VERIFY THEY ARE FUNCTIONING PROPERLY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND PLACED IN A DESIGNATED SPILL DISPOSAL AREA APPROVED BY THE INSPECTOR.
- CONDUCT PERIODIC INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AND MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
- STABILIZE ALL GRADED AREAS WITH TEMPORARY SEEDING PER THE REQUIRED CT DEEP REGULATIONS. PROVIDE PERMANENT SEEDING AS GRADED AREAS ARE FINISHED. PROVIDE NORTH AMERICAN GRASS 1550 OR APPROVED EQUAL MATTING ON ALL FILL SLOPES.
- BEGIN CLEARING, GRUBBING, DEMOLITION, AND GRADING OF SITE. STABILIZE SITE PER EROSION CONTROL NOTES AS AREAS ARE BROUGHT TO ROUGH GRADE'S.



**NOT FOR CONSTRUCTION**

**NORTH STONINGTON SOLAR**  
 428, PROVIDENCE-NEW LONDON TURNPIKE  
 NORTH STONINGTON, CT 06359, USA  
 LAT: 41.431830°N  
 LON: 71.821514°W



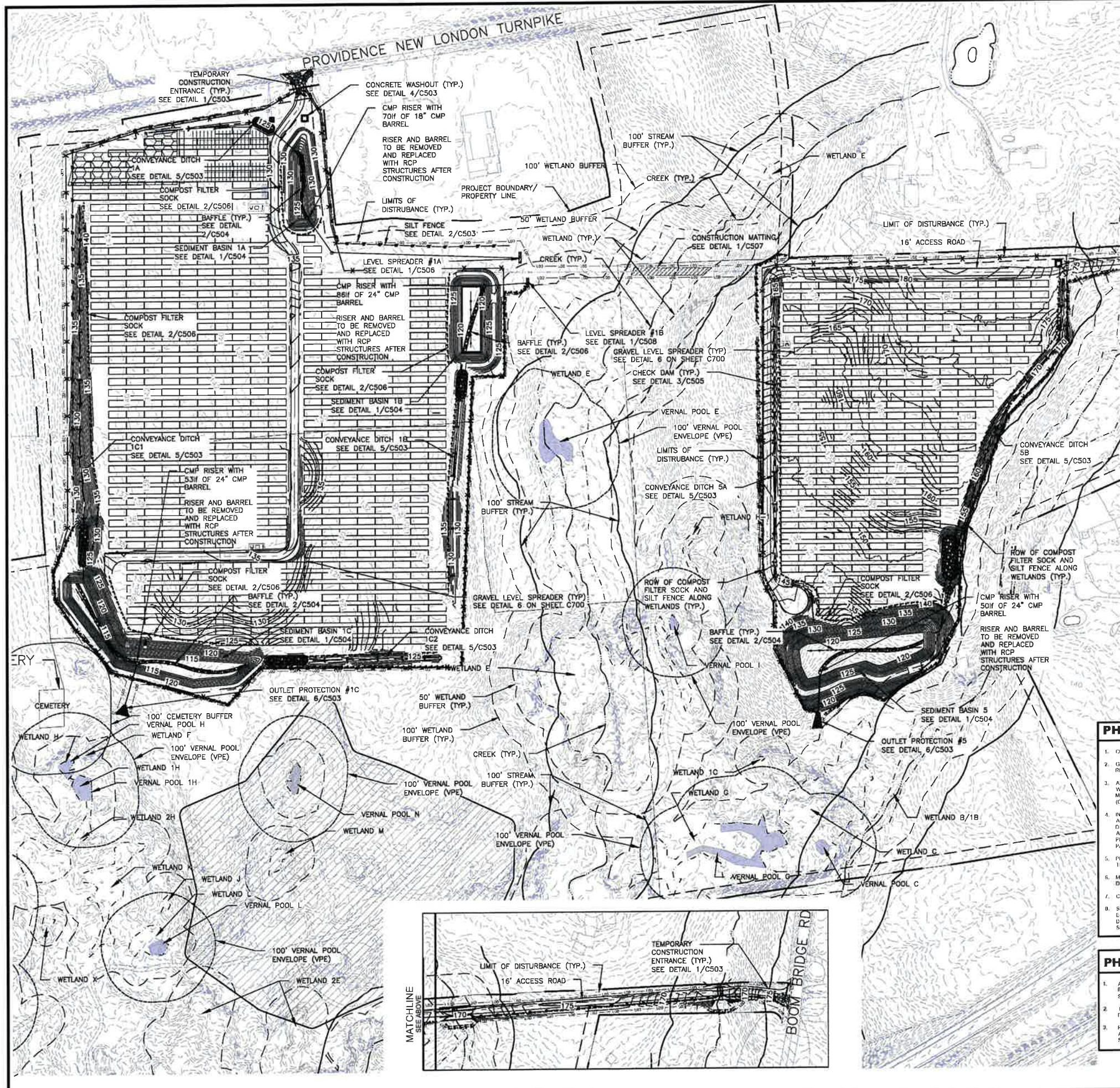
NORTH STONINGTON, CT

REV. NO.	DESCRIPTION	DATE
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2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:  
**EROSION AND SEDIMENTATION CONTROL  
 PHASE 1 - SHEET 1**

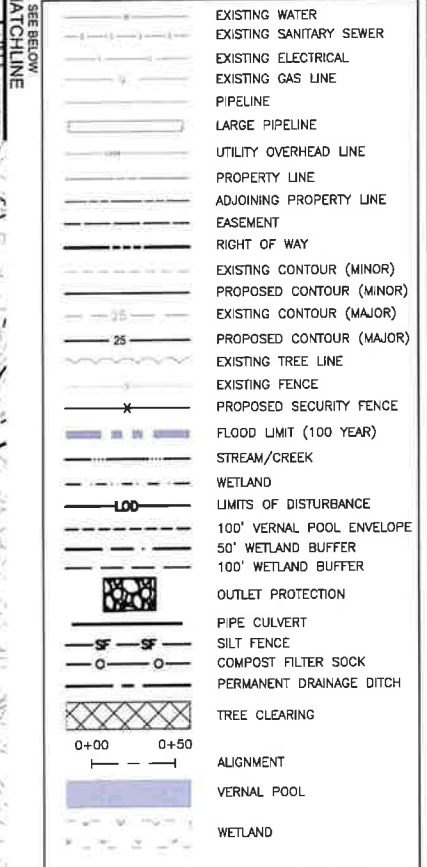
PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	10/18/2022
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	1:100
DRAWING NO.		

**C501**



**GENERAL NOTES :**

1. SEE SHEET C101 FOR OVERALL PLAN.
2. ALL TIE-IN GRADING SLOPES ARE 3H:1V.
3. ALL BASIN SIDE SLOPES ARE 3H:1V.
4. FOR SLOPES EQUAL TO OR GREATER THAN 8%, EROSION CONTROL BLANKETS, STUMP GRINDINGS, EROSION CONTROL MIX MULCH, OR HYDROSEED WITH TACKIFIER SHALL BE APPLIED WITHIN 72 HOURS OF FINAL GRADING, OR WHEN A RAINFALL OF 0.5 INCHES OR GREATER IS PREDICTED WITHIN 24 HOURS OF FINAL GRADING, WHICHEVER TIME PERIOD IS LESS.



**PHASE 2 CONSTRUCTION SEQUENCE**

1. CLEAR AND GRUB REMAINDER OF AREA AS REQUIRED.
2. GRADE THE CONTRACTOR LAYDOWN AREA AND AREAS INDICATED TO ACHIEVE REQUIRED PANEL AREA SLOPES.
3. AS GRADED AREAS ARE BROUGHT TO GRADE, ROUGHEN AND IMMEDIATELY SEED WITH PERMANENT SEEDING TO ESTABLISH COVER. APPLY EROSION CONTROL MATTING AS DETAILD WITHIN THE PLANS CONSISTING OF NORTH AMERICAN GRASS (OR APPROVED CLONAL) ON ALL FILL SLOPES.
4. INSTALL CULVERTS AS ACCESS ROADS ARE CONSTRUCTED TO FACILITATE DRAINAGE ACROSS DRIVE. NOTE THAT SOME CULVERTS MAY NEED TO BE LOCKED TO MAINTAIN DIVERSION OF STORMWATER TO BASINS. COORDINATE WITH INSPECTOR WHEN AREAS OF THE SITE ARE STABILIZED AND BASINS CAN BE TRANSFERRED TO PERMANENT POND. TO FACILITATE SITE STABILIZATION AND INSTALLATION OF FINAL PANELS IN PROXIMITY TO USABIS (SEE PHASE 3 BELOW).
5. PROVIDE INLET & OUTLET PROTECTION FOR EACH CULVERT AND BASIN DITCHFALLS AS THEY ARE INSTALLED.
6. MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION ACCORDING TO CT DEEP REQUIREMENTS.
7. COMPLETE ANY FINAL FINE GRADING.
8. BUILDINGS IS TO BE PERFORMED IMMEDIATELY FOLLOWING THE COMPLETION OF MASS EARTHWORK. NO ELECTRICAL INSTALLATION IS TO BEGIN UNTIL THE CONSTRUCTION DISTRICT AND/OR SWPPP INSPECTORS AGREE THAT VEGETATION GROWTH IS SUFFICIENT.

**PHASE 3 CONSTRUCTION SEQUENCE**

1. AT PROJECT END, CONTACT CT DEEP COUNTY FOR REVIEW AND WITH APPROVAL REMOVE THE SUMMER AND CONVERT TEMPORARY BASINS TO PERMANENT STORMWATER PONDS AS SHOWN IN THE PLANS.
2. TEMPORARY CONVEYANCE DITCHES AND TEMPORARY SEDIMENT POND MAY BE REMOVED ONCE THE SITE HAS ACHIEVED 80% STABILIZATION.
3. FURNISH BASIN AREAS TO BE SEEDD AND STABILIZED. SILT FENCE TO REMAIN AROUND THE LOWER SIDE OF THE FORMER BASIN AREAS UNTIL VEGETATIVE STABILIZATION IS IN PLACE.



**NOT FOR CONSTRUCTION**

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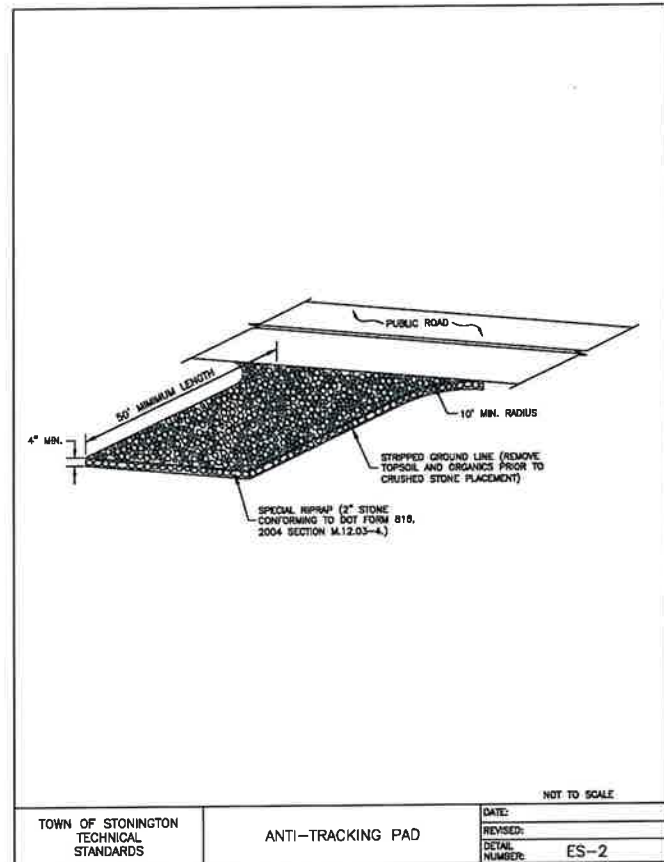
**NORTH STONINGTON, CT**

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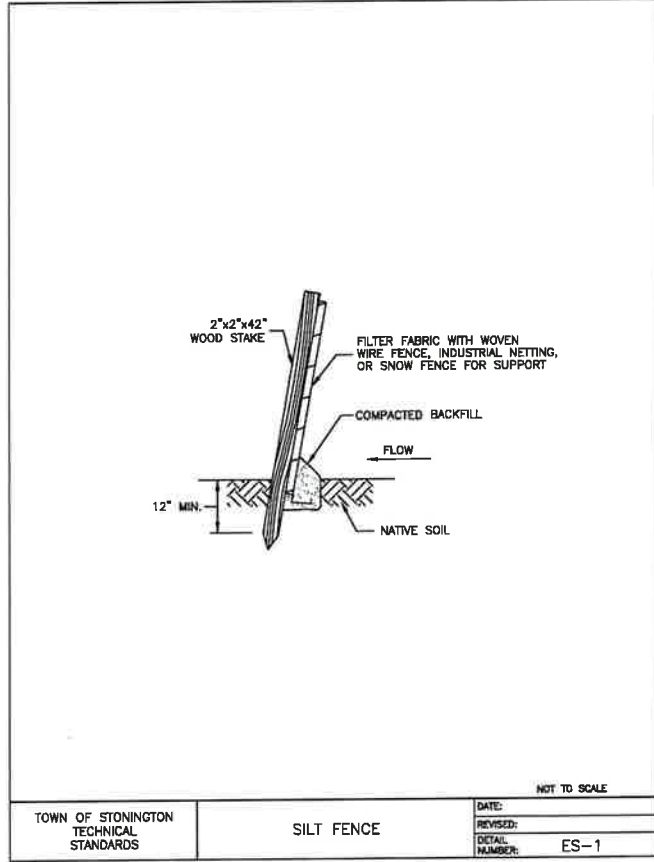
SHEET TITLE:  
**EROSION AND SEDIMENTATION CONTROL  
 PHASE 2 - SHEET 1**

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	10/18/2022
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	1:100
DRAWING NO.		

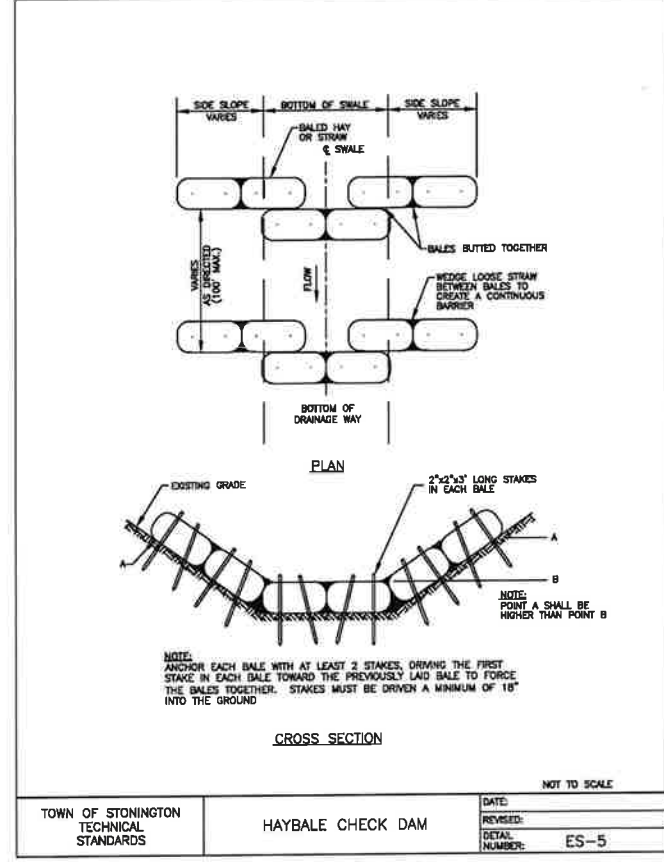
**C502**



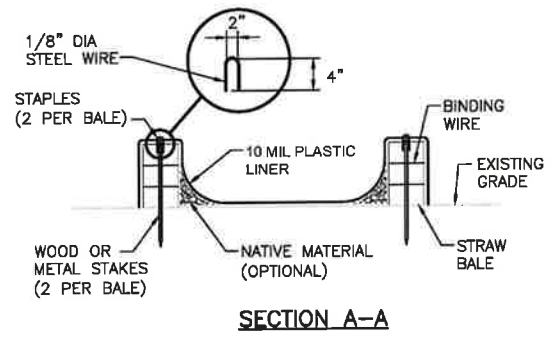
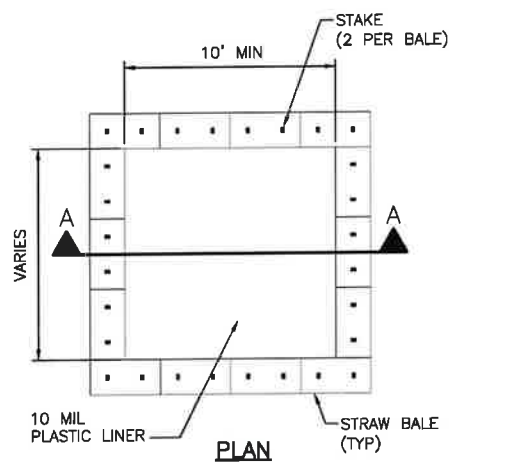
**TEMPORARY CONSTRUCTION ENTRANCE** ①  
NOT TO SCALE



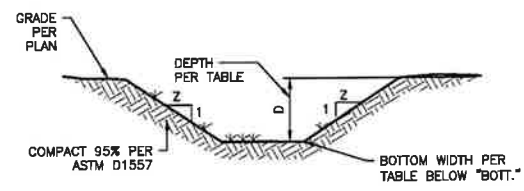
**SILT FENCE** ②  
NOT TO SCALE



**CHECK DAM** ③  
NOT TO SCALE



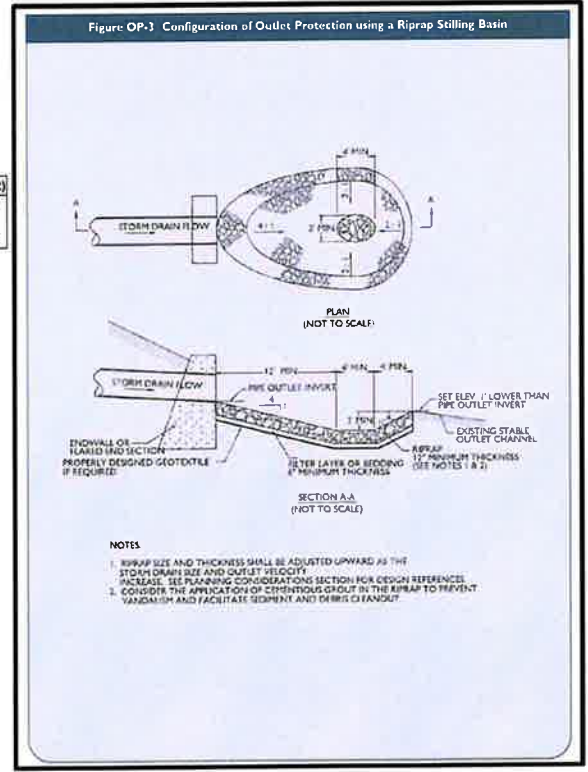
**CONCRETE WASHOUT** ④  
NOT TO SCALE



Ditch	Weighted Peak Runoff 100-yr Event (cfs)	Avg. Slope (%)	Shape	Side Slope z:1	Bot. (ft)	Depth (ft)	Top Width (ft)
1A	6.27	0.69%	Trap.	3	1	1.00	7.0
1B	9.03	0.29%	Trap.	3	1.5	1.25	9.0
1C1	10.59	1.77%	Trap.	3	1.5	1.00	7.5
1C2	20.11	1.19%	Trap.	3	2	1.25	9.5
5A	21.64	3.91%	Trap.	3	2	1.00	8.0
5B	7.32	4.99%	Tri.	3	0	1.00	6.0

**CONVEYANCE DITCH DETAIL** ⑤  
NOT TO SCALE

Culvert #	Q (cfs)	D <sub>0</sub> (ft)	TW (ft)	L <sub>1</sub> (ft)	W (ft)	d <sub>88</sub> (ft)
1C	10.27	2	1.15	22.2	29.7	0.15
5	17.76	2	0.90	26.7	65.3	0.41
D1A	4.58	1	0.84	15.8	9.3	0.18



**OUTFALL PROTECTION** ⑥  
NOT TO SCALE



NOT FOR CONSTRUCTION

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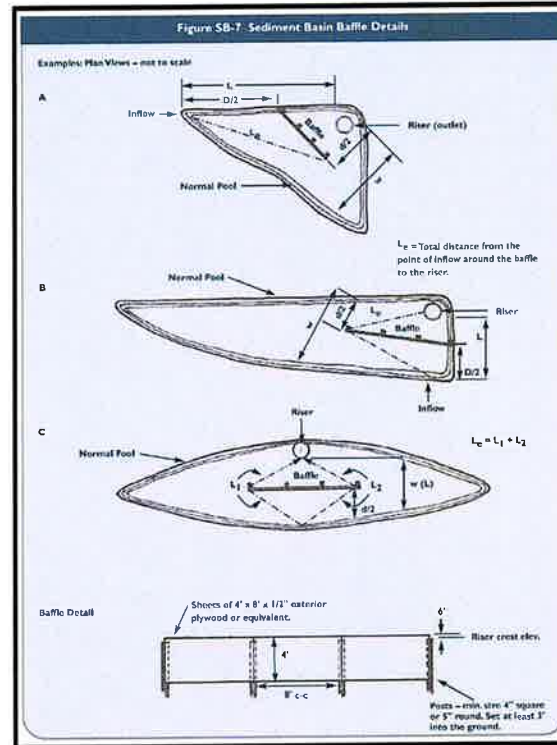
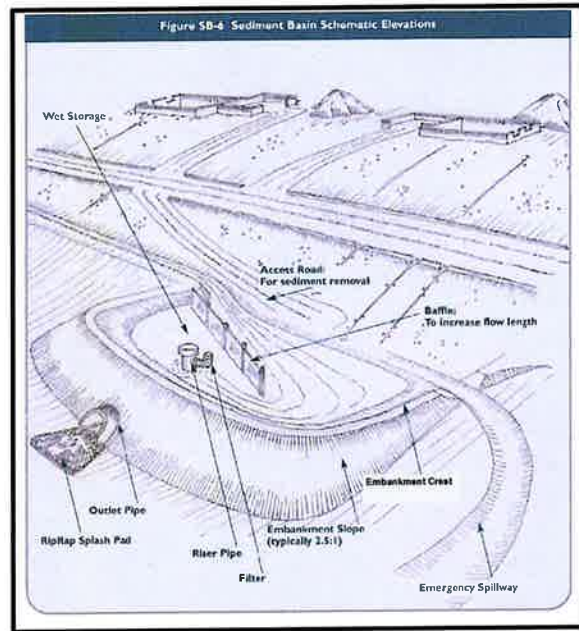
NORTH STONINGTON, CT

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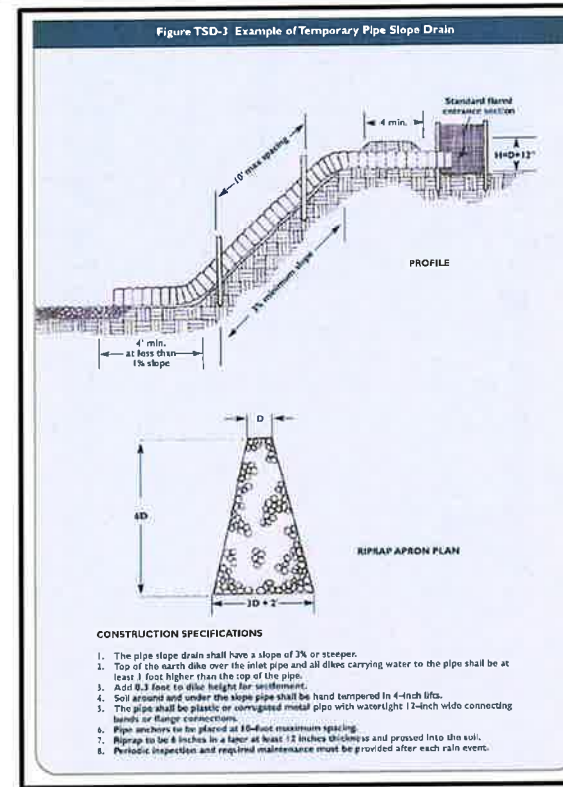
SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL DETAILS 1**

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	10/18/2022
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	AS NOTED

DRAWING NO.  
**C503**



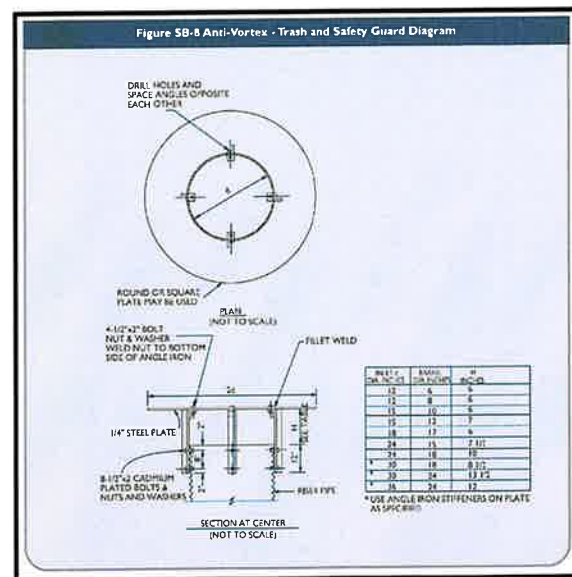
**BAFFLES**  
NOT TO SCALE



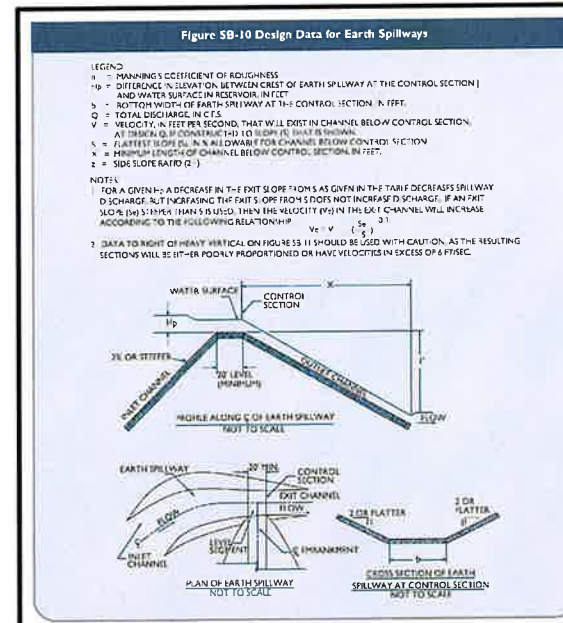
**TEMPORARY SLOPE DRAIN**  
NOT TO SCALE

BASIN #	TOTAL DRAINAGE AREA (AC)	DEPTH OF STORAGE VOLUME (FT)	10YR PEAK FLOW (CFS)	RETENTION TIME REQUIRED (MIN)	RETENTION TIME PROVIDED (MIN)	BOTTOM ELEVATION (FT)	RISER CREST ELEVATION (FT)	EMERGENCY SPILLWAY ELEVATION (FT)	TOP OF BERM ELEVATION (FT)	HIGHWATER ELEVATION (10-YR) (FT)	OUTLET PIPE SIZE (INCH)	OUTLET PIPE INVERT IN (FT)	OUTLET PIPE INVERT OUT (FT)	FILTER ORIFICE SIZE (INCH)
1A	4.19	7.00	2.46	600	605	124.00	128.50	130.50	131.00	128.64	18.00	124.00	123.50	4.00
1B	4.57	8.00	3.46	600	605	119.00	121.50	126.00	127.00	121.65	24.00	119.00	118.50	4.00
1C	11.85	6.00	8.22	600	651	114.00	115.50	119.00	120.00	116.81	24.00	114.00	113.50	4.00
5	15.23	8.00	16.27	600	764	120.00	123.00	127.00	128.00	125.12	24.00	120.00	117.00	3.00

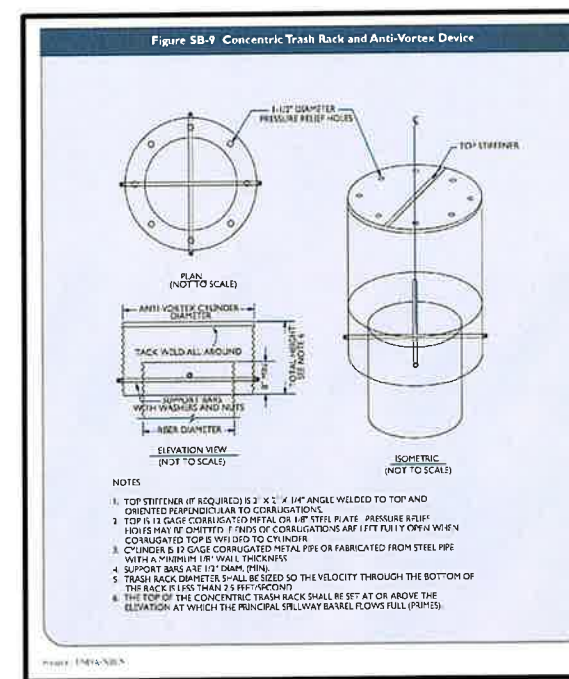
**SEDIMENT BASIN**  
NOT TO SCALE



**ANTI-VORTEX TRASH GUARD**  
NOT TO SCALE



**EARTH SPILLWAY**  
NOT TO SCALE



**CONCENTRIC TRASH RACK**  
NOT TO SCALE



NOT FOR CONSTRUCTION

**NORTH STONINGTON SOLAR**

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA

LAT: 41.431830°N  
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NORTH STONINGTON, CT

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2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:

**EROSION AND SEDIMENT CONTROL DETAILS 2**

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	10/18/2022
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	AS NOTED

DRAWING NO.

C504

### 4-Short Term Non-living Soil Protection

#### Temporary Erosion Control Blanket (ECB)

##### Definition

A manufactured blanket composed of biodegradable / photodegradable material or polymer fibers and/or slammers that have been mechanically, structurally or chemically bonded together to form a continuous matting.

##### Purpose

To provide temporary surface protection to newly seeded and/or cleared soils to abate erosion, impact and to reduce silt and fill erosion and to enhance the establishment of vegetation.

##### Applicability

- On disturbed soils where slopes are 2:1 or flatter.
- Where wind and/or rain generated or flow may dislodge standard, untreated mulches.
- May be used as a substitute for Temporary Soil Protection.
- May be used as a substitute for Mulch for Seed.

##### Planning Considerations

When considering the use of ECB sweep in a project, the contractor should be aware of the blanket's capability to conform to ground surface irregularities. If the blanket is not capable of developing a continuous contact with the soil, there may be applied to a fine graded surface. Some blankets will settle and when settled conform to the ground. Also, when the ground is loose, proper anchoring can be difficult, if not impossible.

Care must be taken to choose the type of blanket which is most appropriate for the specific need of the project. With the abundance of erosion control blankets available, it is impossible to cover all of the advantages, disadvantages and specifications of all manufactured blankets. There is no substitute for a thorough understanding of the manufacturer's instructions and recommendations in comparison with a site visit by the erosion and sedimentation plan engineer prior to and during installation to verify a product's appropriateness.

The success of temporary erosion control blankets is dependent upon strict adherence to the manufacturer's installation recommendations. As such, a final inspection should be planned to ensure that the blankets are secured, all edges are properly anchored and all staking/stapling patterns follow the manufacturer's recommendations.

##### Specifications

###### Materials

- Temporary erosion control blankets shall be composed of fibers and/or filaments that:
- are biodegradable or photodegradable in that they break down to a degree substantial degradation over the period of maximum design life expectancy.
  - are chemically resistant to chemical based fertilizers to form a continuous surface of even thickness and distribution that does not pull back and when used with existing abatement practices to penetrate the blanket.
  - are of sufficient structural strength to withstand anchoring equipment to form a continuous surface of even thickness and distribution that does not pull back and when used with existing abatement practices to penetrate the blanket.
  - are free of any substance that may harm plants and animals and is not toxic to the environment.
  - contain no substances that inhibit the use of water of the basin when properly applied and installed.

5-4-10

2002 Connecticut Guidelines for Soil Erosion and Sediment Control

- Provide a minimum 95% soil coverage when used as a substitute for Mulch for Seed or 100% soil coverage when used as a substitute for Temporary Soil Protection measures.

Blankets shall be selected as appropriate for the specific site conditions in accordance with manufacturer's recommendations. Use of any patented temporary erosion control blanket should be supported by manufacturer's test data that confirms the blanket meets these general specifications and will provide the short term erosion control capabilities necessary for the specific project.

##### Site Preparation and Installation

Prepare the surface, remove protruding objects and install temporary erosion control blankets in accordance with the manufacturer's recommendations. Ensure that the orientation and anchoring of the blanket is appropriate for the site.

The blanket can be laid over areas where sprigged grass seedlings have been inserted into the soil. Where landscape plantings are planned, lay the blanket first and then plant through the blanket in accordance with Landscape Planting measures.

Inspect the installation to ensure that all lap joints are secured, all edges are properly anchored and all staking/stapling patterns follow manufacturer's recommendations.

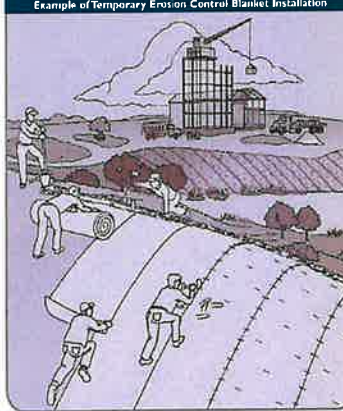
##### Maintenance

Inspect temporary erosion control blankets at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for failures. Blanket failures may occur when debris and/or soil have washed away from beneath the blankets and the soil surface can be expected to continue to erode at an elevated rate, unless (a) the blanket has become dislodged from the soil surface or is torn.

If washouts or failures occur, re-install the blanket after regrading and reseedling, ensuring that blanket installation still meets design specifications. When repetitive failures occur at the same location, review conditions and limitations for use and determine if alternatives, stone check dams or other measures are needed to reduce the risk.

Repair any damaged or failed blankets immediately. When used as a substitute for Mulch for Seed, continue to inspect as required by the seeding measures. When used as a substitute for Temporary Soil Protection, continue to inspect until it is replaced by a permanent erosion control measure or until work resumes.

Figure ECB-1 Example of Temporary Erosion Control Blanket Installation

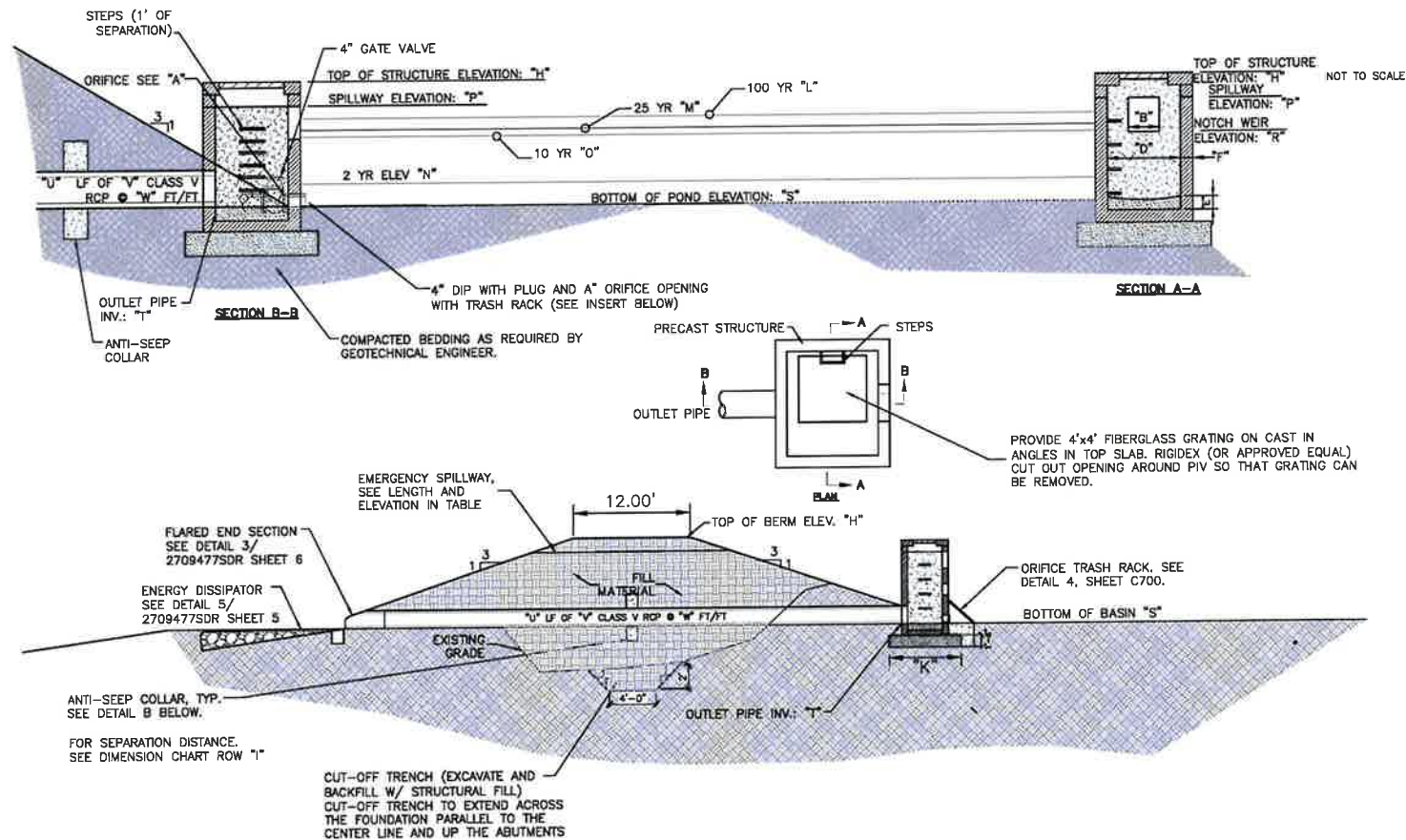


2002 Connecticut Guidelines for Soil Erosion and Sediment Control

5-4-11

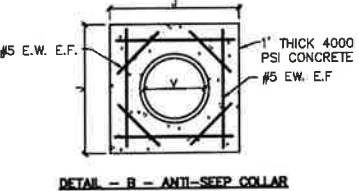
##### GENERAL NOTES:

- PRECAST STRUCTURES SHALL CONFORM TO LATEST ASTM C-913 SPECIFICATIONS FOR "REINFORCED CONCRETE WATER AND WASTEWATER STRUCTURES".
- ALL EXPOSED CONCRETE TO BE CHAMFERED 1".
- CONCRETE COMPRESSIVE STRENGTH 4000 PSI MINIMUM.
- SECTION JOINTS TO BE SEALED WITH BUTYL RUBBER SEALANT SUPPLIED BY VENDOR AND INSTALLED BY CONTRACTOR. BARREL CONNECTIONS TO BE SEALED WITH LINK SEAL CONNECTORS SUPPLIED BY VENDOR AND INSTALLED BY CONTRACTOR.
- CONCRETE PIPE SHALL HAVE 'O' RING SEALS OR WATER TIGHT JOINTS.
- SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- GEOTECHNICAL ENGINEER SHALL MONITOR DAM AND OUTLET STRUCTURE INSTALLATION. ALL FILL AREAS SHALL BE COMPACTED TO 100% OF THE MATERIALS MAXIMUM DRY DENSITY UNLESS OTHERWISE DICTATED BY THE GEOTECHNICAL ENGINEER.
- PROVIDED STEPS 1' ON CENTERS. STEPS SHALL BE EPOXY COATED. MANHOLE OPENING TO ALIGN WITH STEPS.
- ALL PIPE IN STORM DRAIN STRUCTURE TO BE STRUCK EVEN WITH THE INSIDE WALL, GROUTED AND BRUSHED SMOOTH.



DIMENSION CHART

	48"	60"	72"	84"	96"
A	Outlet Diameter (in)	6	8	10	12
B	Well Length (in)	3	3	3	3
C	Emergency Spillway Length (ft)	20	20	30	30
D	Inside Dimension of Outlet Structure (ft) (Square Box)	4	4	6	6
E	Concrete Outlet Depth (in)	8	8	8	8
F	Width of Outlet Structure Well (in)	6	8	8	8
G	NOT USED				
H	Top of Berm - Top of Outlet Structure	131.00	127.00	120.00	126.00
I	Anti-seep Collar Separation (ft)	20	20	20	20
J	Anti-seep Collar Length and Width (ft)	6	6	6	6
K	Outlet Structure Bottom Dimension (ft) (Depth is 18")	6	8	8	8
L	100 Year Water Elevation	130.67	124.16	118.18	126.33
M	25 Year Water Elevation	129.74	122.84	118.04	125.28
N	2 Year Water Elevation	128.83	120.71	116.33	122.91
O	10 Year Water Elevation	128.68	121.66	117.40	124.52
P	Emergency Spillway Elevation	130.90	126.90	119.80	127.90
Q	Well Elevation	130.50	124.50	118.90	123.50
R	Bottom of Pond Elevation	123.00	118.00	114.00	120.00
S	Outlet Pipe Invert	123.80	120.20	115.70	121.30
T	Linear Feet of Outlet Pipe	402	88	82	82
U	Diameter of Outlet Pipe	24"	18"	18"	24"
V	Outlet Pipe Slope Ft/Ft	0.0050	0.0138	0.0078	0.0742
W	Outlet Pipe FTS Invert	133.80	118.00	115.00	113.30



NOT FOR CONSTRUCTION

NORTH STONINGTON SOLAR

428, PROVIDENCE-NEW LONDON TURNPIKE NORTH STONINGTON, CT 06359, USA

LAT: 41.431830°N  
 LON: 71.821514°W



NORTH STONINGTON, CT

REV. NO	DESCRIPTION	DATE
8	RE-ISSUED FOR PERMIT	10/18/22
7	RE-ISSUED FOR PERMIT	10/05/22
6	RE-ISSUED FOR PERMIT	09/02/22
5	RE-ISSUED FOR PERMIT	04/22/22
4	RE-ISSUED FOR PERMIT	11/19/21
3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:

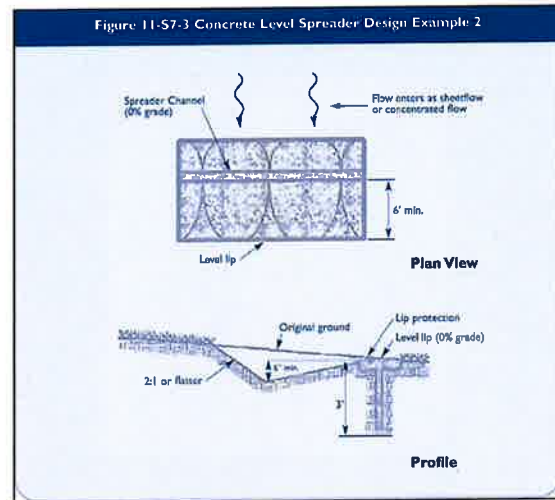
EROSION AND SEDIMENT CONTROL DETAILS 3

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	10/18/2022
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	AS NOTED

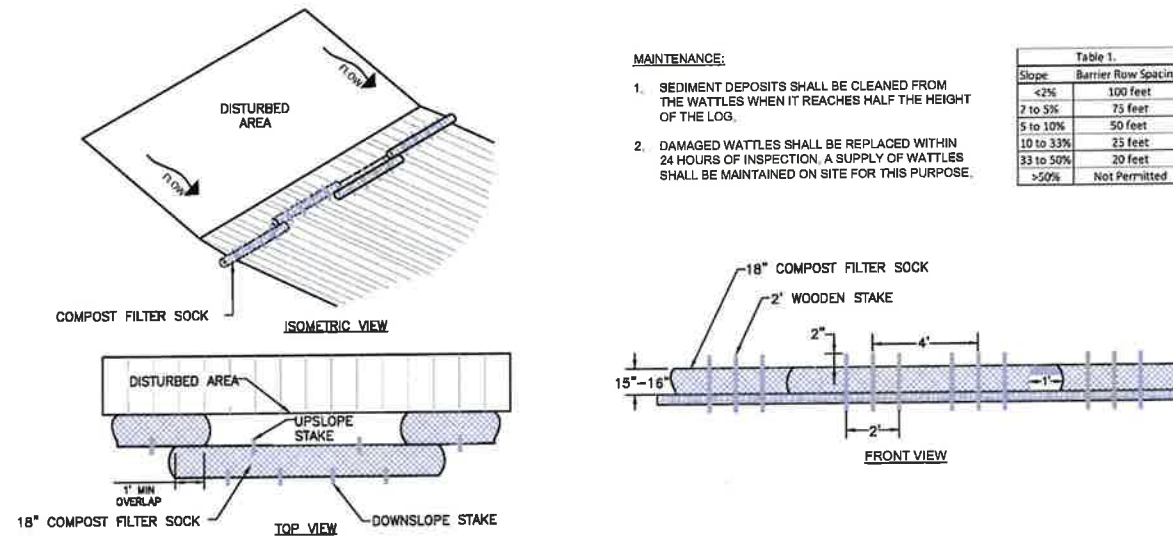
DRAWING NO.

C505



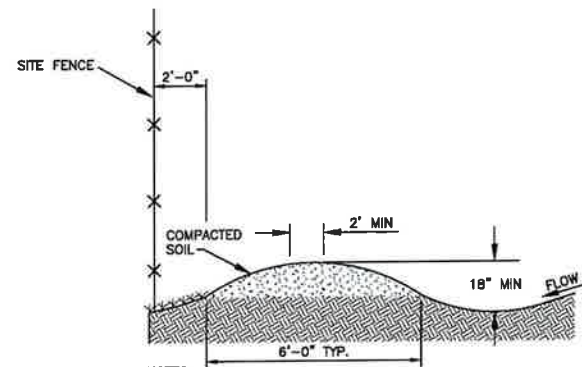


Culvert #	Q (cfs)	Min. Length (ft)	Design Length (ft)	Height of Flow (ft)	Flow Velocity (ft/s)
1A	1.79	23.27	23	0.09	0.85
1B	1.46	18.98	19	0.09	0.84



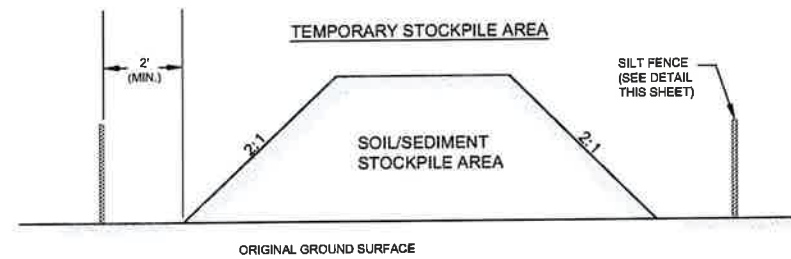
**OUTFALL LEVEL SPREADER**  
NOT TO SCALE

**COMPOST FILTER SOCK**  
NOT TO SCALE



- NOTES**
1. CONSTRUCT DIVERSION CHANNEL AT A MINIMUM OF 1.0% SLOPE TOWARD OUTLET.
  2. SIDE SLOPES SHALL NOT EXCEED A 5:1 (H:V) SLOPE IN AREAS WHERE VEHICLES MUST CROSS; 3:1 SLOPE (MAX.) IN ALL OTHER AREAS.

**DIVERSION DITCH DETAIL**  
NOT TO SCALE



- NOTES:**
1. SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE. OR IF STOCKPILE AREA IS LOCATED ON NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
  2. IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
  3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
  4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
  5. WATER TO BE APPLIED BY SPRAYER TO STOCKPILE TO KEEP DUST DOWN. AVOID EXCESS WATER THAT CAN CAUSE EROSION PROBLEMS.

**TEMPORARY STOCKPILE DETAIL**  
NOT TO SCALE



**NOT FOR  
CONSTRUCTION**

**NORTH  
STONINGTON  
SOLAR**

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA  
LAT: 41.431830°N  
LON: 71.821514°W



NORTH STONINGTON, CT

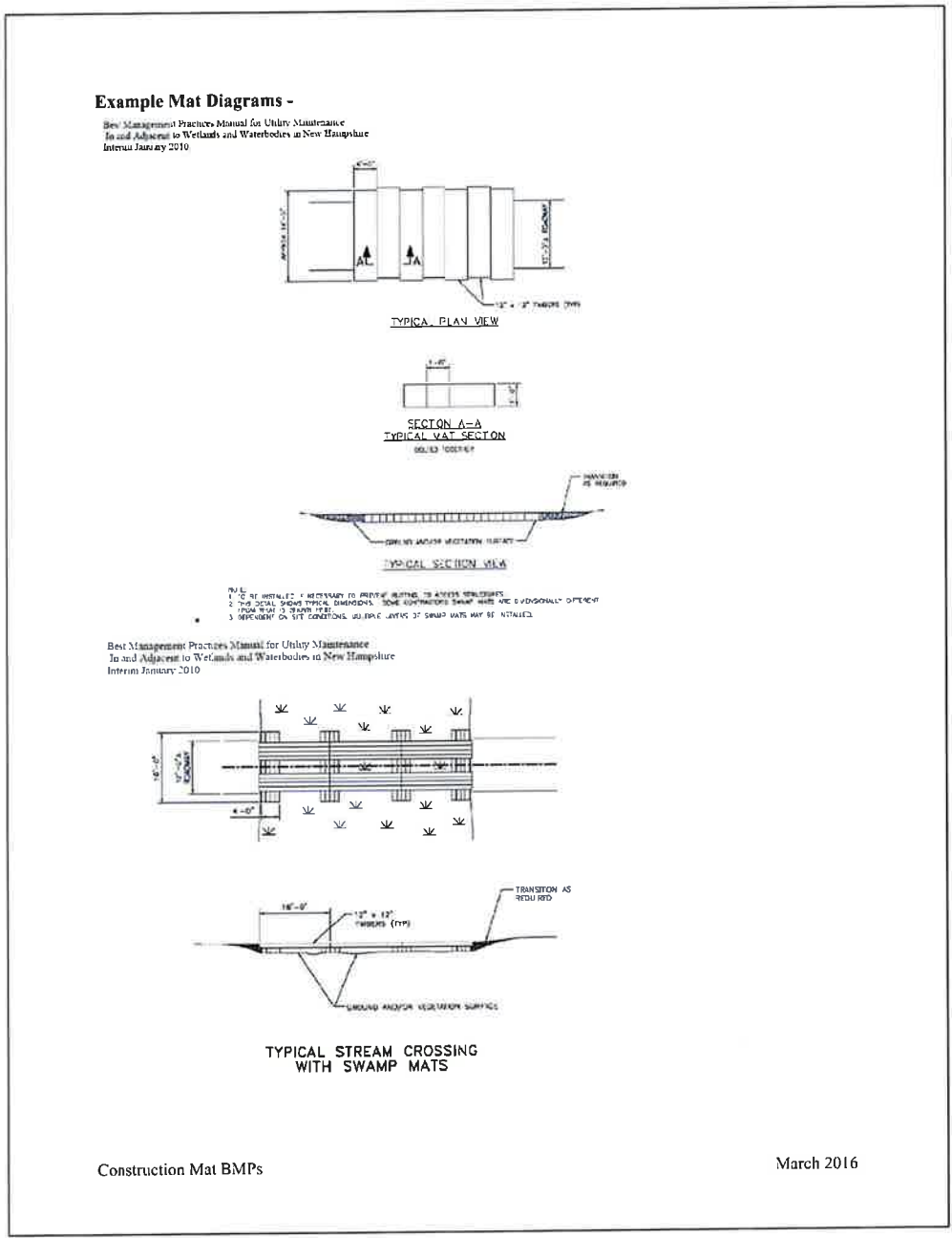
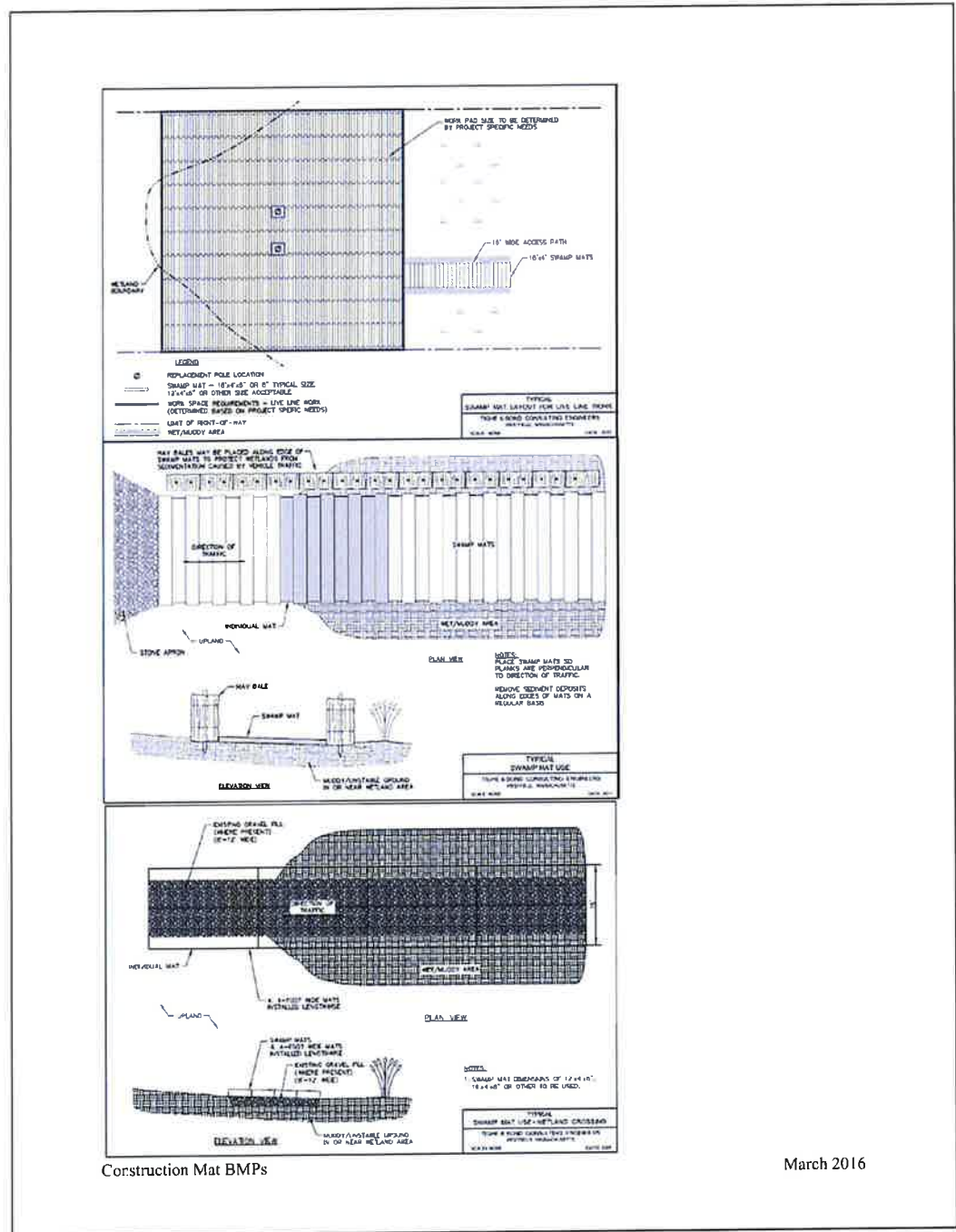
REV. NO.	DESCRIPTION	DATE
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4	RE-ISSUED FOR PERMIT	11/19/21
3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:  
**EROSION AND SEDIMENT  
CONTROL DETAILS 4**

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	10/18/2022
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	AS NOTED

DRAWING NO.

**C506**



**CONSTRUCTION MATTING** 1  
 NOT TO SCALE



**NOT FOR CONSTRUCTION**

**NORTH STONINGTON SOLAR**  
 428, PROVIDENCE-NEW LONDON TURNPIKE  
 NORTH STONINGTON, CT 06359, USA  
 LAT: 41.431830°N  
 LON: 71.821514°W

**NORTH STONINGTON, CT**

REV. NO	DESCRIPTION	DATE
8	RE-ISSUED FOR PERMIT	10/18/22
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4	RE-ISSUED FOR PERMIT	11/19/21
3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL DETAILS 5**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/18/2022
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED

DRAWING NO.  
**C507**

- EARTHEN STOCKPILE MANAGEMENT**
1. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
  2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
  3. Provide stable stone access point when feasible.
  4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

- HERBICIDES, PESTICIDES AND RODENTICIDES**
1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
  2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
  3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
  4. Do not stockpile these materials onsite.

- HAZARDOUS AND TOXIC WASTE**
1. Create designated hazardous waste collection areas on-site.
  2. Place hazardous waste containers under cover or in secondary containment.
  3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

- EQUIPMENT AND VEHICLE MAINTENANCE**
1. Maintain vehicles and equipment to prevent discharge of fluids.
  2. Provide drip pans under any stored equipment.
  3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
  4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
  5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
  6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

- LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**
1. Never bury or burn waste. Place litter and debris in approved waste containers.
  2. Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
  3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
  4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
  5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
  6. Anchor all lightweight items in waste containers during times of high winds.
  7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
  8. Dispose waste off-site at an approved disposal facility.
  9. On business days, clean up and dispose of waste in designated waste containers.

- CONCRETE WASHOUTS**
1. Do not discharge concrete or cement slurry from the site.
  2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
  3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
  4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
  5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
  6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
  7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
  8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
  9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
  10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

- EROSION CONTROL NOTES:**
1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
  2. Where construction activities have permanently ceased or when final grades are reached in any portion of the site, stabilization and protection practices as specified in Chapter 5 of the Guidelines or as approved by the commissioner or his/her designated agent shall be implemented within seven days. Areas that will remain disturbed but inactive for at least thirty days will receive temporary seeding or soil protection within seven days in accordance with the Guidelines.
  3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately, or incorrectly, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification. Inspections shall be done in accordance with the SWPCP.
  4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the State.
  5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
  6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
  7. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
  8. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 25-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
  9. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.
  10. A copy of the SWPCP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
  11. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
  12. Minimize soil compaction and, unless infeasible, preserve topsoil.
  13. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
  14. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).
  15. The following discharges from sites are prohibited and shall be in compliance with the SWPCP:
    - Wastewater from washout of concrete, unless managed by an appropriate control;
    - Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
    - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
    - Soaps or solvents used in vehicle and equipment washing.
  16. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site. Inspections shall be done in accordance with the SWPCP.
  17. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or

- GROUND STABILIZATION SPECIFICATION**
- Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:
- | Temporary Stabilization   | Permanent Stabilization  |
|---|--|
| <ul style="list-style-type: none"> <li>• Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>• Hydroseeding</li> <li>• Rolled erosion control products with or without temporary grass seed</li> <li>• Appropriately applied straw or other mulch</li> <li>• Plastic sheeting</li> </ul> | <ul style="list-style-type: none"> <li>• Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>• Geotextile fabrics such as permanent soil reinforcement matting</li> <li>• Hydroseeding</li> <li>• Shrubs or other permanent plantings covered with mulch</li> <li>• Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>• Structural methods such as concrete, asphalt or retaining walls</li> <li>• Rolled erosion control products with grass seed</li> </ul> |

- CT's Water Quality Standards. Implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPCP inspection report and alternative BMPs must be implemented as soon as reasonably possible.**
18. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPCP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.
  19. For slopes greater than or equal to 8% erosion control blankets or stump grindings or erosion control mix mulch or hydroseed with tackifier shall be applied within 72 hours of final grading, or when a rainfall of 0.5 inches or greater is predicted within 24 hours of final grading, whichever time period is less.

**PHASE 1 CONSTRUCTION SEQUENCE**

1. CONTACT THE CT DEEP INSPECTOR TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE TO DISCUSS EROSION CONTROL MEASURES.
2. INSTALL THE CONSTRUCTION ENTRANCE, 11-EE PROTECTION FENCE, SILT FENCE AND SILT FENCE STONE OR TILES AS SHOWN ON PLANS. PRIOR TO ANY SITE DISTURBANCE ACTIVITIES (E.G. EXCAVATION, GRUBBING, GRADING, OR EXCAVATION INCLUDING SKIMMER/SEDIMENT BASINS).
3. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY CT DEEP. CONTACT THE INSPECTOR FOR AN ON-SITE INSPECTION OF THE INSTALLED TREE PROTECTION FENCE.
4. ALL FIELD NON-WOODED AREAS THAT ARE NOT TO BE GRADED (IE. FIELDS) SHALL BE MOWED TO FACILITATE PANEL INSTALLATION BUT SHALL BE OTHERWISE LEFT UNDISTURBED TO MAINTAIN EXISTING DRAINAGE PATTERNS WHERE STABLE. ANY SEVERELY ERODED DRAINAGEWAYS SHALL BE GRADED BACK, ROUGHENED, MATTED AND SEEDED.
5. INSTALL BASINS. UPON INSTALLATION OF THE BASINS, INSTALL DIVERSION SWALES TO THE BASINS AS NEEDED. STABILIZE IMMEDIATELY UPON REACHING FINAL GRADE. PROVIDE TEMPORARY CULVERT FOR CROSSING EXISTING DRAINAGE AREAS.
6. INSTALL REMAINING EROSION CONTROL MEASURES AS INDICATED ON CONSTRUCTION DOCUMENTS TO FACILITATE SEDIMENT CONTROL PRIOR TO GRADING. CLEARING ONLY AS NECESSARY TO INSTALL THESE BEST MANAGEMENT PRACTICES (BMP).
7. INSPECT ALL EROSION CONTROL DEVICES ONCE EVERY CALENDAR WEEK AND AFTER EVERY RAINFALL EXCEEDING .25" TO VERIFY THAT THEY ARE FUNCTIONING PROPERLY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND PLACED IN A DESIGNATED SPILL DISPOSAL AREA APPROVED BY THE INSPECTOR.
8. CONDUCT PERIODIC INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AND MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
9. STABILIZE ALL GRADED AREAS WITH TEMPORARY SEEDING PER THE REQUIRED CT DEEP REGULATIONS. PROVIDE PERMANENT SEEDING AS GRADED AREAS ARE FINAL. PROVIDE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL MATTING ON ALL FILL SLOPES.
10. BEGIN CLEARING, GRUBBING, DEMOLITION, AND GRADING OF SITE. STABILIZE SITE PER EROSION CONTROL NOTES AS AREAS ARE BROUGHT TO ROUGH GRADE.

**PHASE 2 CONSTRUCTION SEQUENCE**

1. CLEAR AND GRUB REMAINDER OF AREA AS REQUIRED.
2. GRADE THE CONTRACTOR LAYDOWN AREA AND AREAS INDICATED TO ACHIEVE REQUIRED PANEL AREA SLOPES.
3. AS GRADED AREAS ARE BROUGHT TO GRADE, ROUGHEN AND IMMEDIATELY SEED WITH PERMANENT SEEDING TO ESTABLISH COVER. APPLY EROSION CONTROL MATTING AS DETAIL D WITHIN THE PLANS CONSISTING OF NORTH AMERICAN GREEN (OR APPROVED EQUAL) ON ALL FILL SLOPES.
4. INSTALL CULVERTS AS ACCESS ROADS ARE CONSTRUCTED. TO FACILITATE DRAINAGE ACROSS DRIVE'S. NOTE THAT SOME CULVERTS MAY NEED TO BE GRADED TO MAINTAIN DIVERSION OF STORMWATER TO BASINS. COORDINATE WITH INSPECTOR WHEN AREAS OF THE SITE ARE STABILIZED AND BASINS CAN BE TRANSFERRED TO PERMANENT PONDS TO FACILITATE SITE STABILIZATION AND INSTALLATION OF FINAL PANELS IN PROXIMITY TO BASINS (SEE PHASE 3 BELOW).
5. PROVIDE INLET & OUTLET PROTECTION FOR EACH CULVERT AND BASIN OUTFALLS AS THEY ARE INSTALLED.
6. MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION ACCORDING TO CT DEEP REQUIREMENTS.
7. COMPLETE ANY FINAL, FINE GRADING.
8. SEEDING IS TO BE PERFORMED IMMEDIATELY FOLLOWING THE COMPLETION OF MASS EARTHWORK. NO ELECTRICAL INSTALLATION IS TO BEGIN UNTIL THE CONSERVATION DISTRICT AND/OR SWPCP INSPECTORS AGREE THAT VEGETATION GROWTH IS SUFFICIENT.

**PHASE 3 CONSTRUCTION SEQUENCE**

1. AT PROJECT END, CONTACT CT DEEP COUNTY FOR REVIEW AND WITH APPROVAL, REMOVE THE SKIMMER AND CONVERT TEMP. SEDIMENT BASINS TO PERMANENT STORMWATER PONDS AS SHOWN IN THE PLANS.
2. TEMPORARY DIVERSION DITCHES AND TEMPORARY SEDIMENT PONDS MAY BE REMOVED ONCE THE SITE HAS ACHIEVED 80% STABILIZATION.
3. FORMER BASIN AREAS TO BE SEEDED AND STABILIZED. SILT FENCE TO REMAIN AROUND THE LOWER SIDE OF THE FORMER BASIN AREAS UNTIL VEGETATIVE STABILIZATION IS IN PLACE.

**US ARMY CORPS OF ENGINEERS CONSTRUCTION MAT (BMPs) NOTES:**



US Army Corps of Engineers  
New England District

Construction Mat  
Best Management Practices (BMPs)

**Installation**

- Mats should be in good condition to ensure proper installation, use and removal.
- Operating heavy equipment in wetlands shall be minimized, and such equipment other than fixed equipment (drill rigs, fixed cranes, etc.) shall not be stored, maintained, fueled or repaired in wetlands unless the equipment is broken down and cannot be easily removed.
- An adequate supply of spill containment equipment shall be maintained on site.
- General Permits in New England do not authorize dragging construction mats into position in waters of the U.S.
- Woody vegetation (trees, shrubs, etc.) shall be cut at or above ground level and not uprooted in order to prevent disruption to the wetland soil structure and to allow stump sprouts to revegetate the work area.
- Where feasible, place mats in a location that would minimize the amount needed for the wetlands crossing.
- Minimize impacts to wetland areas during installation, use, and removal.
- Install adequate erosion and sediment controls at approaches to mats to promote a smooth transition to, and minimize sediment tracking onto, swamp mats.
- In most cases, construction mats should be placed along the travel area so that the individual boards are resting perpendicular to the direction of traffic. No gaps should exist between mats. Place mats far enough on either side of the resource area to rest on firm ground.
- Provide standard construction mat BMP details to work crews (examples provided below).

**Wetland Stream Channel Crossing**

- At "dry" crossings where no flow is present or anticipated during project construction, the mats may be placed directly onto the ground in order to prevent excessive rutting, provided stream banks and bottoms are not adversely altered.
- Construction mats may be used as a temporary bridge over a stream to allow vehicles access to the work site. Small sections of mat are placed within and along the stream parallel to the flow of water. Mats may then be placed perpendicular to the stream, resting on top of the initial construction mat supports. It may be necessary to place additional reinforcement for extra stability and to minimize the amount of sediment that could fall between the spaces of each timber.
- In areas where wildlife passage or migration is a consideration, mats may be installed in accordance with the diagram "Typical Stream Crossing with Swamp Mats."
- Mats should not be placed so that they restrict the natural flow of the stream.
- Minimize number of stream/wetland crossings. Where feasible, locate crossing site where stream channel is narrow for the shortest possible clear span and where stream banks are stable and well defined. For large wetland complexes, consider accessing structures from opposite sides where possible to avoid crossing the entire wetland.
- More than one layer of mats may be necessary in areas which are inundated or have deep organic wetland soils.

Construction Mat BMPs

March 2016

**Maintenance**

- Matted wetland crossings should be monitored to assure correct functioning of the mats. Inspect mats after use. Look for any defects or structural problems. Mats which become covered with soils or construction debris should be cleaned and the materials removed and disposed of in an upland location. The material should not be scraped and shoveled into the resource area. Mats which become imbedded must be reset or layered to prevent mud from covering them or water passing over them.

**Removal**

- Matting should be removed by "backing" out of the site, removing mats one at a time. Any rutting or significant indentations identified during mat removal should be regraded immediately, taking care not to compact soils.
- Mats should be cleaned before transport to another wetland location to remove soil and any invasive plant species seed stock or plant material.
- Mats shall be cleaned of soil and any invasive plant species seed stock or plant material from before installation.
- Cleaning methods may include but are not limited to shaking or dropping mats in a controlled manner with a piece of machinery to knock off attached soil and debris, spraying with water or air, and sweeping.
- Crossings should be inspected following mat removal to determine the level of restoration required.

**Restoration**

- Special precautions should be taken to promptly stabilize areas of disturbed soil located near wetlands and streams. Matted areas within wetlands shall be restored to their original condition and elevation. This may involve natural revegetation from existing root and seed stock of native plant species. Conditions may warrant planting and the broadcast of a wetland seed mix over the matted area to supplement the existing seed and rootstock. Seed mixes and vegetation shall contain only plant species native to New England. The use of mulch in wetlands shall consist of weed-free mulch to mitigate the risk of the spread of invasive plant species.



**NOT FOR CONSTRUCTION**

**NORTH STONINGTON SOLAR**  
428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA  
LAT: 41.431830°N  
LON: 71.821514°W



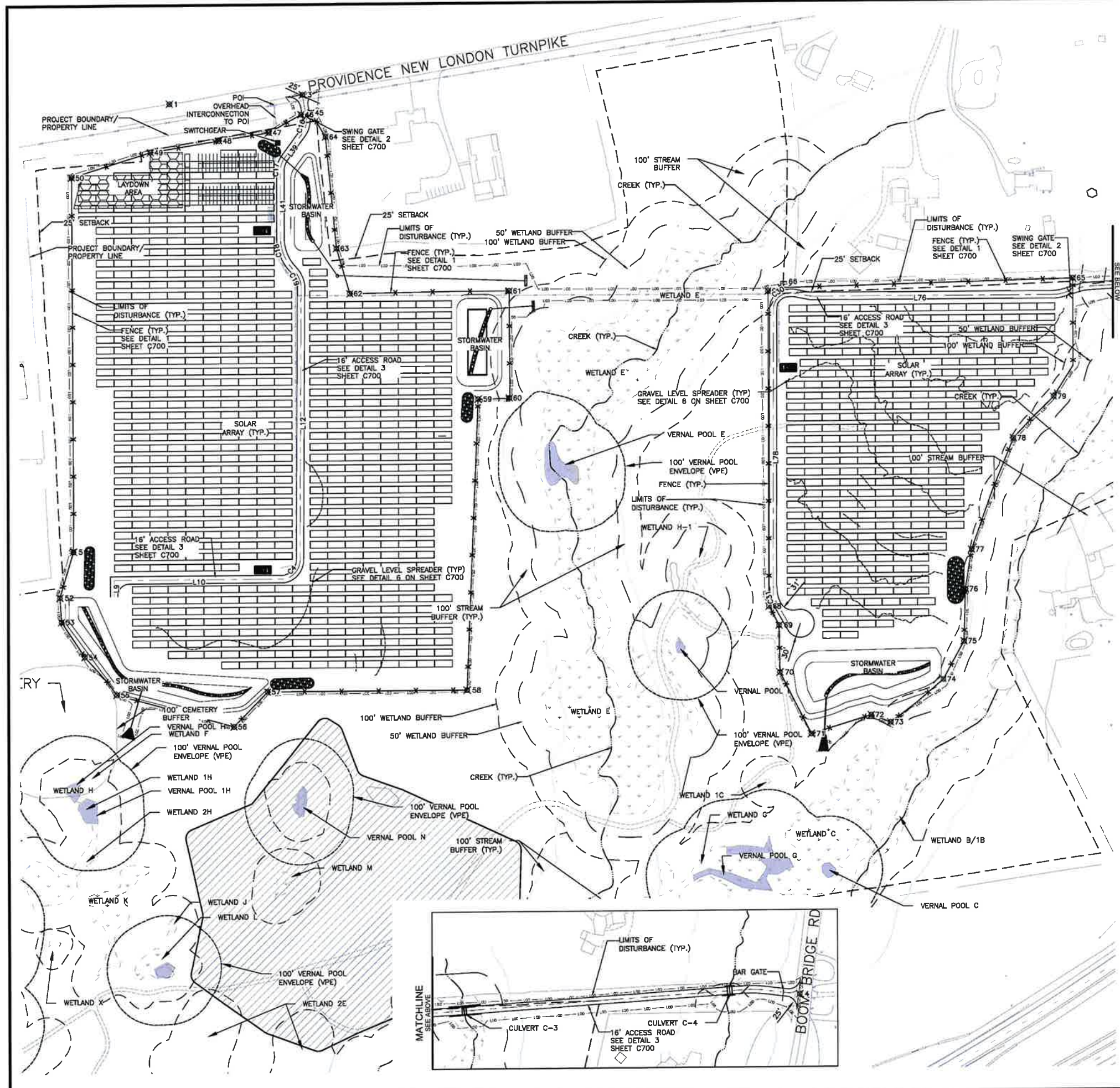
**NORTH STONINGTON, CT**

REV. NO	DESCRIPTION	DATE
8	RE-ISSUED FOR PERMIT	10/18/22
7	RE-ISSUED FOR PERMIT	10/05/22
6	RE-ISSUED FOR PERMIT	09/02/22
5	RE-ISSUED FOR PERMIT	04/22/22
4	RE-ISSUED FOR PERMIT	11/19/21
3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

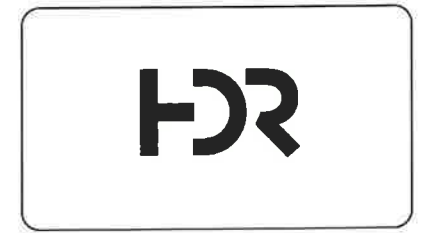
SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL NOTES**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/16/2022
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED

DRAWING NO.  
**C508**



GENERAL NOTES :  
 1. SEE SHEET C101 FOR OVERALL PLAN.



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**NORTH STONINGTON SOLAR**  
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**NORTH STONINGTON, CT**

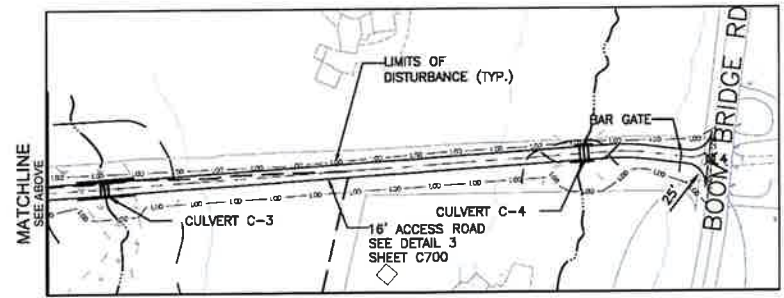
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3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:  
**SITE PLAN 1**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/18/2022
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100

DRAWING NO.  
**C601**

- EXISTING ROAD
- EXISTING WATER
- EXISTING SANITARY SEWER
- EXISTING ELECTRICAL
- EXISTING GAS LINE
- PIPELINE
- LARGE PIPELINE
- UTILITY OVERHEAD LINE
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- 25' SETBACK
- RIGHT OF WAY
- EXISTING CONTOUR (MINOR)
- PROPOSED CONTOUR (MINOR)
- EXISTING CONTOUR (MAJOR)
- PROPOSED CONTOUR (MAJOR)
- EXISTING TREE LINE
- EXISTING FENCE
- PROPOSED SECURITY FENCE
- FLOOD LIMIT (100 YEAR)
- STREAM/CREEK
- WETLAND
- LIMITS OF DISTURBANCE
- 100' VERNAL POOL ENVELOPE
- 50' WETLAND BUFFER
- 100' WETLAND BUFFER
- OUTLET PROTECTION
- PIPE CULVERT
- SILT FENCE
- COMPOST FILTER SOCK
- PERMANENT DRAINAGE DITCH
- TREE CLEARING
- ALIGNMENT
- VERNAL POOL
- WETLAND





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CONSTRUCTION

### NORTH STONINGTON SOLAR

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA

LAT: 41.431830°N  
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NORTH STONINGTON, CT

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2	RE-ISSUED FOR PERMIT	05/28/21
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

### SITE PLAN DETAILS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/18/2022
DRAWN BY: JP	CHECKED BY: CP	SCALE: NTS

DRAWING NO.

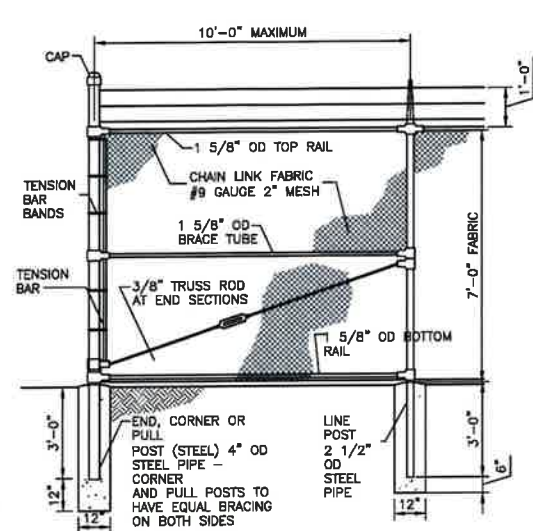
C602

Line Table		
Line #	Length	Direction
L9	35.000	N0° 00' 43.20"W
L10	363.832	N88° 59' 16.80"E
L12	588.305	N0° 20' 38.53"E
L39	61.997	N36° 38' 46.98"E
L41	141.378	N0° 00' 43.20"W
L76	524.485	S89° 54' 11.51"E
L78	608.163	N0° 13' 13.54"E

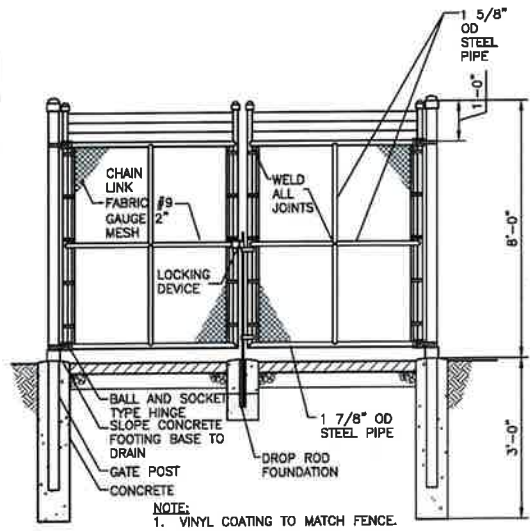
Curve Table			
Curve #	Length	Radius	Delta
C4	56.832	57	78.0752
C16	40.515	41	46.4289
C17	31.961	32	38.8250
C18	76.497	76	44.7300
C19	34.285	34	32.4316
C30	50.988	51	87.8320
C31	17.406	17	30.2204

POINT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
1	720802.21	1254261.22	ACCESS ROAD ENTRANCE
2	720895.62	1255412.07	ACCESS ROAD ENTRANCE
3	720820.09	1254546.24	ACCESS ROAD ENTRANCE
4	720433.20	1257078.42	ACCESS ROAD ENTRANCE
45	720780.98	1254564.70	FENCE
46	720777.29	1254543.36	FENCE
47	720739.04	1254473.52	FENCE
48	720722.34	1254387.28	FENCE
49	720898.33	1254220.32	FENCE
50	720845.24	1254050.82	FENCE
51	719843.75	1254053.26	FENCE
52	719745.54	1254023.81	FENCE
53	719693.41	1254027.31	FENCE
54	719618.24	1254077.13	FENCE
55	719536.57	1254146.06	FENCE
56	719486.74	1254396.97	FENCE
57	719540.72	1254488.89	FENCE
58	719540.95	1254897.25	FENCE
59	720164.29	1254922.17	FENCE
60	720186.23	1254989.65	FENCE

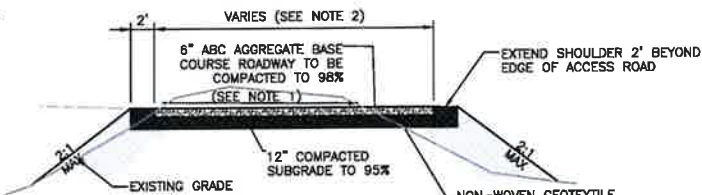
POINT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
61	720395.42	1254989.65	FENCE
62	720382.26	1254647.88	FENCE
63	720489.52	1254619.22	FENCE
64	720728.98	1254595.88	FENCE
65	720413.23	1256202.91	FENCE
66	720397.76	1255575.32	FENCE
67	720390.88	1255546.91	FENCE
68	719715.51	1255547.33	FENCE
69	719674.81	1255569.17	FENCE
70	719574.21	1255570.69	FENCE
71	719442.02	1255637.55	FENCE
72	719481.39	1255788.61	FENCE
73	719465.46	1255808.16	FENCE
74	719556.34	1255921.78	FENCE
75	719637.74	1255986.82	FENCE
76	719749.22	1255969.97	FENCE
77	719833.94	1255983.56	FENCE
78	720071.91	1256074.51	FENCE
79	720160.05	1256161.27	FENCE



**SECURITY FENCE DETAIL**  
NOT TO SCALE

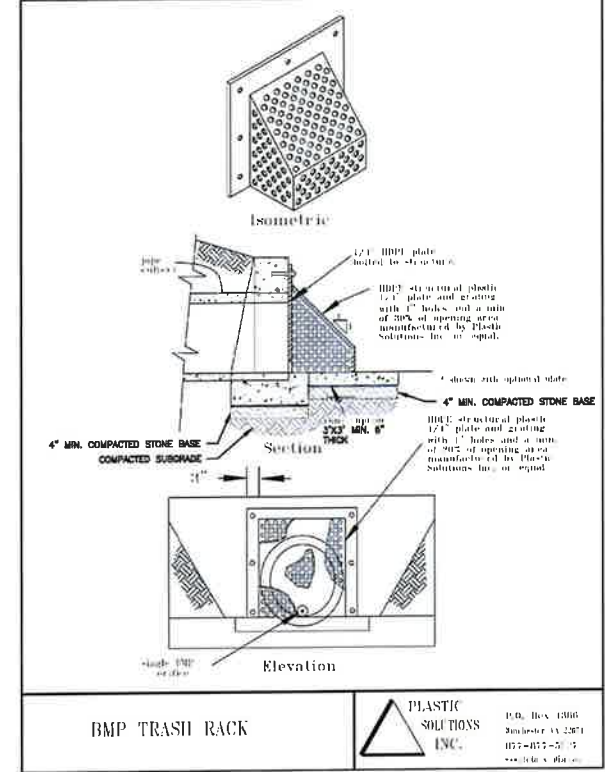


**SWING GATE DETAIL**  
NOT TO SCALE

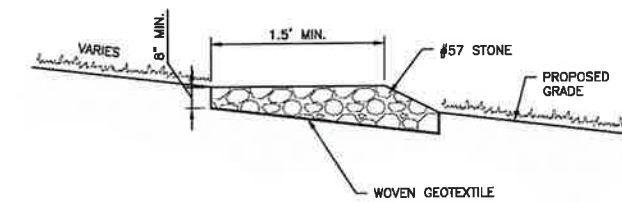


**NOTES:**  
 1. ACCESS ROAD SHALL BE INSTALLED PER THE DETAIL. MODIFY EXISTING GRADE AS NEEDED TO ESTABLISH ROAD WITH A CROSS-SLOPE BETWEEN 1% AND 5% TO ENSURE PROPER DRAINAGE.  
 2. STRAIGHT SECTION ROADS SHALL BE 16' WIDE AND ROAD SECTIONS IN CURVES AND TURNAROUNDS SHALL BE 20' WIDE. SEE SITE LAYOUT PLANS FOR SPECIFIC ROAD WIDTHS.

**TYPICAL ROAD SECTION (RIGID LINE CONSTRUCTION)**  
NOT TO SCALE



**BMP TRASH RACK**  
NOT TO SCALE



**NOTES:**  
 1. LEVEL SPREADERS SHALL BE INSTALLED WHERE GRADE EXCEEDS 8%.  
 2. INSTALL LEVEL SPREADERS PERPENDICULAR TO THE SLOPE EVERY 100 LINEAR FEET.

**ORIFICE TRASH RACK**  
NOT TO SCALE



**GRAVEL LEVEL SPREADER**  
NOT TO SCALE



**NOT FOR CONSTRUCTION**

**NORTH STONINGTON SOLAR**

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA

LAT: 41.431830°N  
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NORTH STONINGTON, CT

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3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21

SHEET TITLE:  
**SITE ACCESS PLAN & CIVIL DETAILS**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 10/18/2022
DRAWN BY: .JP	CHECKED BY: CP	SCALE: #####

DRAWING NO.  
**C700**

# **ATTACHMENT 3**



**NOT FOR  
CONSTRUCTION**

**STONINGTON  
SOLAR**

428, PROVIDENCE-NEW LONDON TURNPIKE  
NORTH STONINGTON, CT 06359, USA  
LAT: 41.431830°N  
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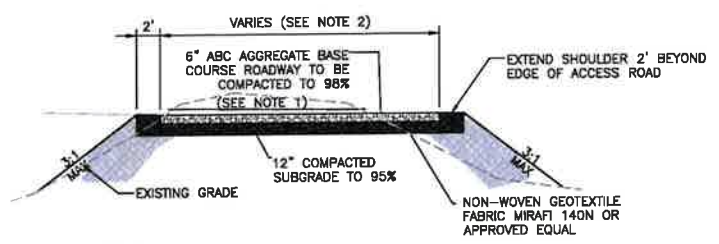
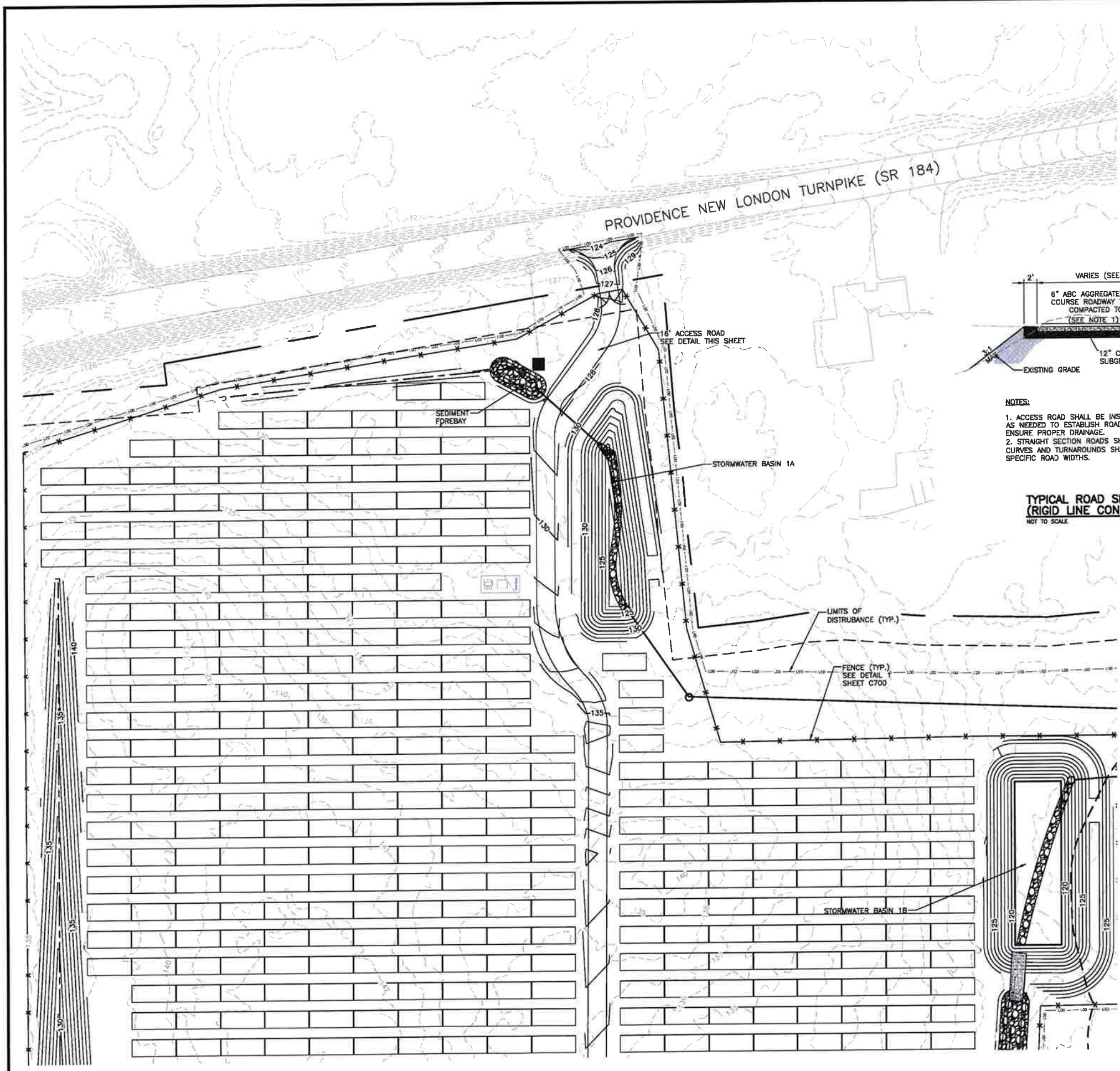
STONINGTON, CT

REV. NO	DESCRIPTION	DATE
5	RE-ISSUED FOR PERMIT	04/22/22
4	RE-ISSUED FOR PERMIT	11/19/21
3	RE-ISSUED FOR PERMIT	06/23/21
2	RE-ISSUED FOR PERMIT	05/28/21
1	RE-ISSUED FOR PERMIT	02/19/21
0	ISSUED FOR PERMIT	09/30/20

SHEET TITLE:  
**CTDOT ENCROACHMENT  
PERMIT EXHIBIT**

PROJ. MGR.	PROJ. ENGR.	DATE:
CM	MB	04/22/2022
DRAWN BY:	CHECKED BY:	SCALE:
JP	CP	1:40

DRAWING NO.  
**EXHIBIT**



- NOTES:**
1. ACCESS ROAD SHALL BE INSTALLED PER THE DETAIL. MODIFY EXISTING GRADE AS NEEDED TO ESTABLISH ROAD WITH A CROSS-SLOPE BETWEEN 1% AND 5% TO ENSURE PROPER DRAINAGE.
  2. STRAIGHT SECTION ROADS SHALL BE 16' WIDE AND ROAD SECTIONS IN CURVES AND TURNAROUNDS SHALL BE 20' WIDE. SEE SITE LAYOUT PLANS FOR SPECIFIC ROAD WIDTHS.

**TYPICAL ROAD SECTION  
(RIGID LINE CONSTRUCTION)**  
NOT TO SCALE

	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING ELECTRICAL
	EXISTING GAS LINE
	PIPELINE
	LARGE PIPELINE
	UTILITY OVERHEAD LINE
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENT
	RIGHT OF WAY
	EXISTING CONTOUR (MINOR)
	PROPOSED CONTOUR (MINOR)
	EXISTING CONTOUR (MAJOR)
	PROPOSED CONTOUR (MAJOR)
	EXISTING TREE LINE
	EXISTING FENCE
	PROPOSED SECURITY FENCE
	FLOOD LIMIT (100 YEAR)
	STREAM/CREEK
	WETLAND
	WETLAND/CREEK
	LIMITS OF DISTURBANCE
	100' VERNAL POOL ENVELOPE
	50' WETLAND BUFFER
	100' WETLAND BUFFER
	OUTLET PROTECTION
	PIPE CULVERT
	SILT FENCE
	COMPOST FILTER SOCK
	PERMANENT DRAINAGE DITCH
	TREE CLEARING
	ALIGNMENT
	VERNAL POOL
	WETLAND