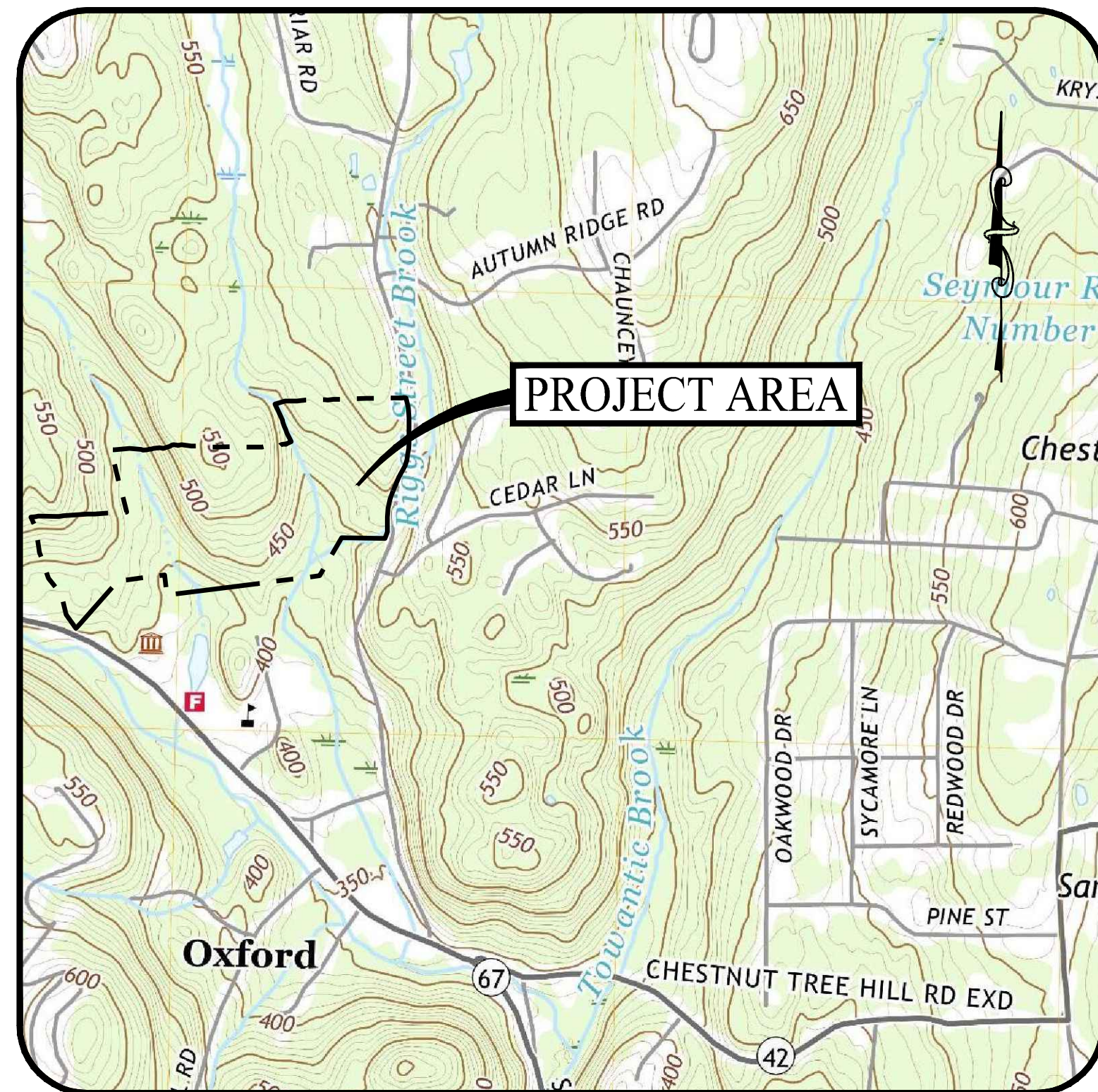


**EXHIBIT B**

Civil Engineering Plan Set



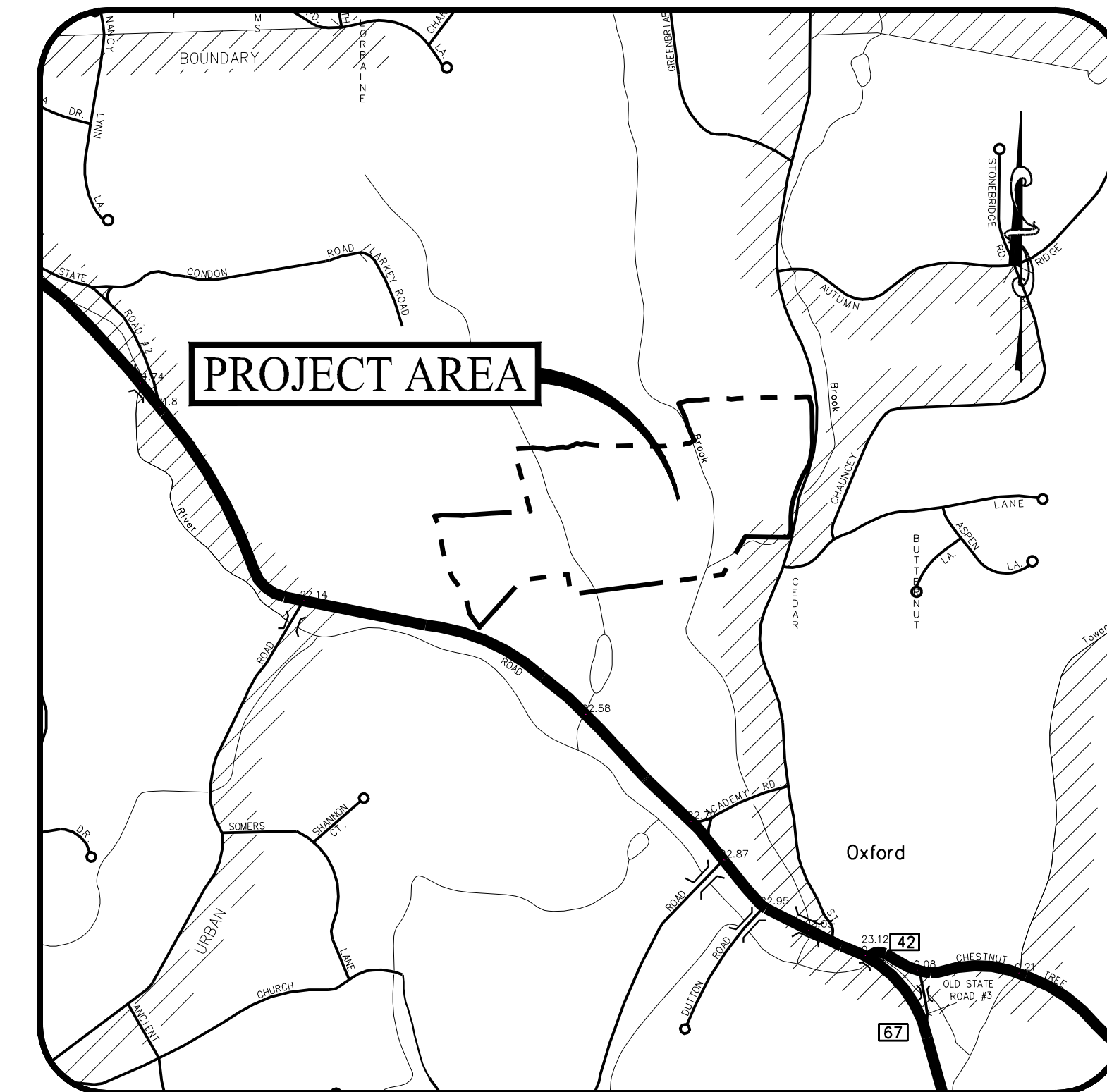


USGS MAP

SCALE: 1" = 1,000'

# PROPOSED SOLAR PHOTOVOLTAIC ARRAY

0 RIGGS STREET  
OXFORD, CONNECTICUT



LOCATION MAP

SCALE: 1" = 1,000'

PREPARED FOR:

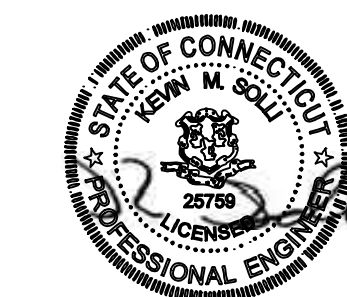


888 PROSPECT STREET, SUITE 200  
LA JOLLA, CALIFORNIA

PREPARED BY:



501 MAIN STREET, MONROE, CONNECTICUT 06468  
11 VANDERBILT AVENUE, NORWOOD, MASSACHUSETTS 02062



**OWNER**

THE WILLIAM L. IVES REVOCABLE TRUST  
12 TURNBERRY CT  
PLANTSVILLE, CONNECTICUT 06479

**APPLICANT**

TRITEC AMERICAS, LLC  
888 PROSPECT STREET, SUITE 200  
LA JOLLA, CALIFORNIA 92307

**PROPERTY INFORMATION**

ADDRESS: 0 RIGGS STREET  
MAP-BLOCK-LOT: 27-15-07  
ZONE: R-A  
AREA: +59,499 AC  
BOOK/PAGE: 0376/1214

**SOIL SCIENTIST**

WILLIAM KENNY  
WILLIAM KENNY ASSOCIATES  
195 TUNXIS HILL, CUTOFF SOUTH  
FAIRFIELD, CT 06825  
(203) 366-0588

**ENGINEER OF RECORD**

KEVIN SOLLI, P.E., CPESC, LEED AP BD+C  
LICENSE NO. 25759  
SOLLI ENGINEERING, LLC  
501 MAIN STREET  
MONROE, CONNECTICUT 06468  
(203) 880-5455

**ELECTRICAL ENGINEER**

PURE POWER ENGINEERING, INC.  
111 RIVER STREET, SUITE 1110  
HOBOKEN, NJ 07030  
(201) 687-9975

**LANDSCAPE ARCHITECT**

MARY BLACKBURN, P.L.A.,  
LICENSE CT NO. 1499  
SOLLI ENGINEERING, LLC  
501 MAIN STREET  
MONROE, CONNECTICUT 06468  
(203) 880-5455

**SURVEYOR OF RECORD**

JASON EDWARDS, LICENSE NO. 70308  
J. EDWARDS & ASSOCIATES, LLC  
227 STEPNEY ROAD  
EASTON, CONNECTICUT 06612  
(203) 268-4205

**DRAWING LIST**

SHEET #	SHEET NAME	PLAN DATE	LATEST REVISION
0.00	COVER SHEET	01/15/24	N/A
-	EXISTING CONDITIONS MAP	XX/XX/24	N/A
2.10	OVERALL SITE LAYOUT PLAN	01/15/24	N/A
2.11 - 2.16	SITE LAYOUT PLANS	01/15/24	N/A
2.20	OVERALL GRADING AND DRAINAGE PLAN	01/15/24	N/A
2.21 - 2.26	GRADING AND DRAINAGE PLANS	01/15/24	N/A
2.31	OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 1	01/15/24	N/A
2.31.1 - 2.31.6	SOIL EROSION & SEDIMENT CONTROL PLANS PHASE 1	01/15/24	N/A
2.32	OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 2	01/15/24	N/A
2.32.1 - 2.32.6	SOIL EROSION & SEDIMENT CONTROL PLANS PHASE 2	01/15/24	N/A
2.41	SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS	01/15/24	N/A
3.01	CONSTRUCTION DETAILS	01/15/24	N/A
3.02	ENVIRONMENTAL NOTES AND CONSTRUCTION DETAILS	01/15/24	N/A

Rev. #:	Date	Description

Project:  
**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
0 RIGGS STREET  
OXFORD, CONNECTICUT

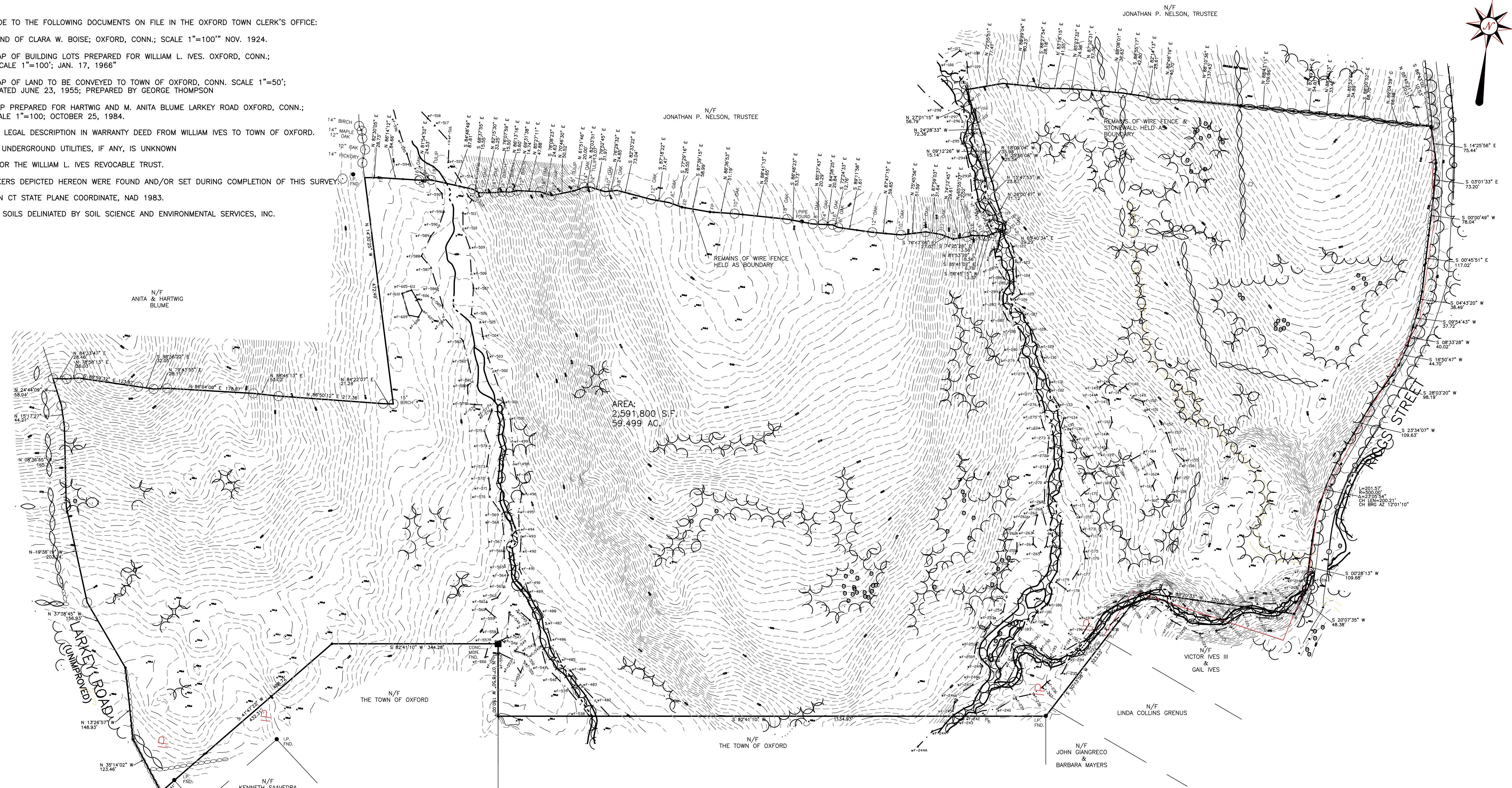
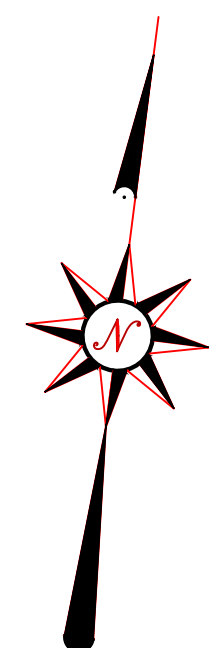
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**FOR PERMITTING ONLY**



NOTES:

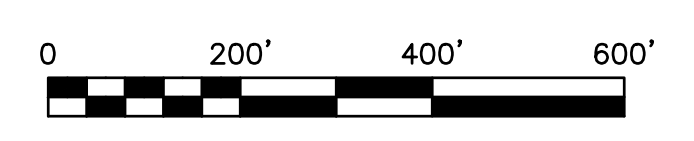
- THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE SECTIONS 20-300B-1 THROUGH 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEY AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A PERIMETER SURVEY BASED UPON A DEPENDENT RESURVEY AND CONFORMS TO HORIZONTAL ACCURACY CLASS A-2.
- REFERENCE IS MADE TO THE FOLLOWING DOCUMENTS ON FILE IN THE OXFORD TOWN CLERK'S OFFICE:
  - 1 - 4 - "LAND OF CLARA W. BOISE; OXFORD, CONN.; SCALE 1"=100" NOV. 1924.
  - 88 "MAP OF BUILDING LOTS PREPARED FOR WILLIAM L. IVES. OXFORD, CONN.; SCALE 1"=100'; JAN. 17, 1966"
  - 30-45 "MAP OF LAND TO BE CONVEYED TO TOWN OF OXFORD, CONN. SCALE 1"=50'; DATED JUNE 23, 1955; PREPARED BY GEORGE THOMPSON
  - 15-6 - "MAP PREPARED FOR HARTWIG AND M. ANITA BLUME LARKEY ROAD OXFORD, CONN.; SCALE 1"=100; OCTOBER 25, 1984.
  - F. V. B3 P. 53 - LEGAL DESCRIPTION IN WARRANTY DEED FROM WILLIAM IVES TO TOWN OF OXFORD.
- THE LOCATION OF UNDERGROUND UTILITIES, IF ANY, IS UNKNOWN
- PLAN PREPARED FOR THE WILLIAM L. IVES REVOCABLE TRUST.
- LOT CORNER MARKERS DEPICTED HEREON WERE FOUND AND/OR SET DURING COMPLETION OF THIS SURVEY.
- BEARING BASED ON CT STATE PLANE COORDINATE, NAD 1983.
- LIMIT OF WETLAND SOILS DELINEATED BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.



- STONEWALL
- WIRE FENCE
- TREE W/ WIRE
- WATERCOURSE
- WETLANDS
- CATCH BASIN
- UTILITY POLE
- IRON PIN
- FOUND
- IRON PIPE
- CONCRETE MONUMENT
- FENCE POST

PERIMETER SURVEY

PREPARED FOR  
THE WILLIAM L. IVES REVOCABLE TRUST  
RIGGS STREET  
OXFORD, CONNECTICUT



SCALE 1"= 200'      AUGUST 28, 2023

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

THIS MAP IS NOT VALID UNLESS EMBOSSED WITH THE SEAL OR AFFIXED WITH THE LIVE STAMP OF THE SIGNATORY.

**JE** J. EDWARDS & ASSOCIATES, LLC  
Engineering and Surveying  
227 Stepney Road  
Easton, CT 06612  
(203)-268-4205  
www.leassoc.com

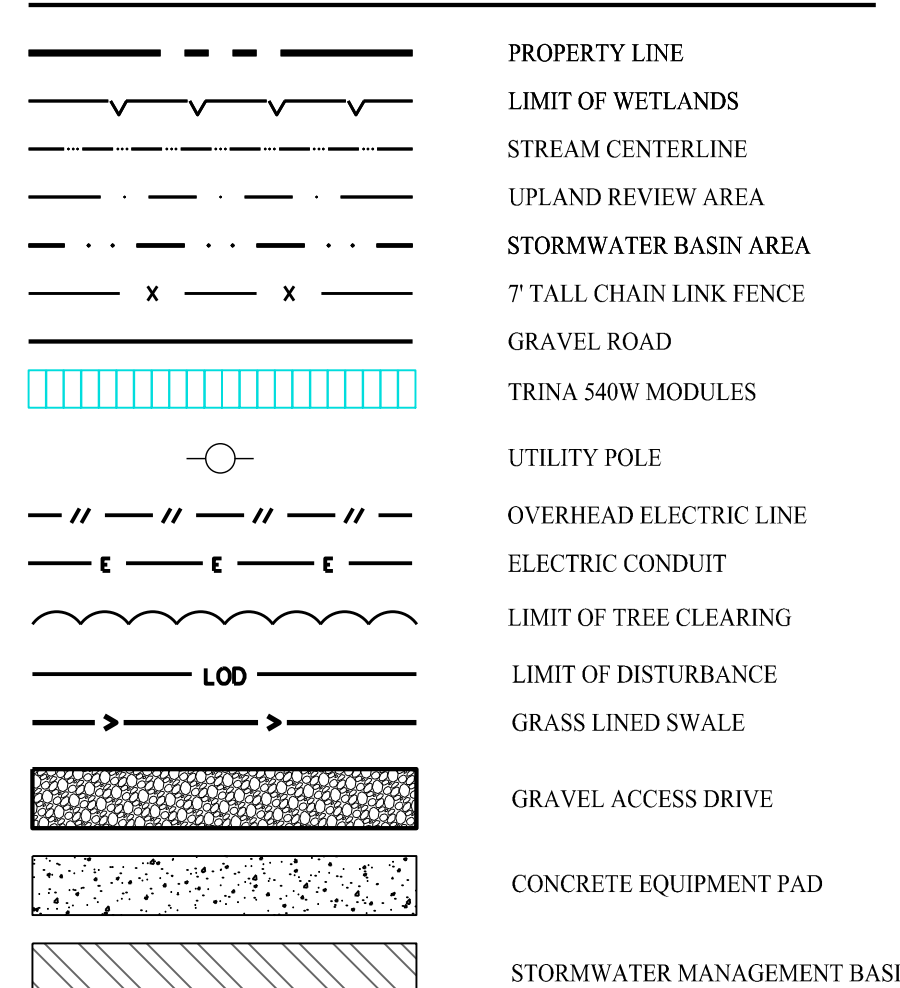
*Jason Edwards*  
JASON EDWARDS, L.S. No. 70308



**SITE PLAN NOTES**

- THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
- EXISTING BOUNDARY, TOPOGRAPHY AND SITE CONDITIONS INFORMATION TAKEN FROM A PLAN ENTITLED "PROPERTY & TOPOGRAPHIC SURVEY OF 0 RIGGS STREET, OXFORD, CONNECTICUT", SCALE 1"=60', DATED: 10/2023, BY "ACCURATE LAND SURVEYING, LLC".
- ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF OXFORD STANDARDS, CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS, CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION STANDARDS, AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL COUNTY AND TOWN CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE ENGINEER OF RECORD 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. ANY CONFLICT BETWEEN THE DRAWINGS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.
- SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER OF RECORD IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE ENGINEER OF RECORD.
- THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER OF RECORD HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE ENGINEER OF RECORD, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
- INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 922-4455 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.

**LEGEND**



**SOLAR ARRAY SYSTEM INFORMATION**

TOTAL OUTPUT	
SIZE DC	6.41 MW
SIZE AC	4.93 MW
INVERTER LOAD RATIO	1.30
MODULE TYPE	TRACKING TRINASOLAR TSM-540-DEG19C.20 (540W)
MODULE QUANTITY	11,865
INVERTER	SUNGROW SG125HV 125KW
UTILITY	EVERSOURCE

SHEET 2.11

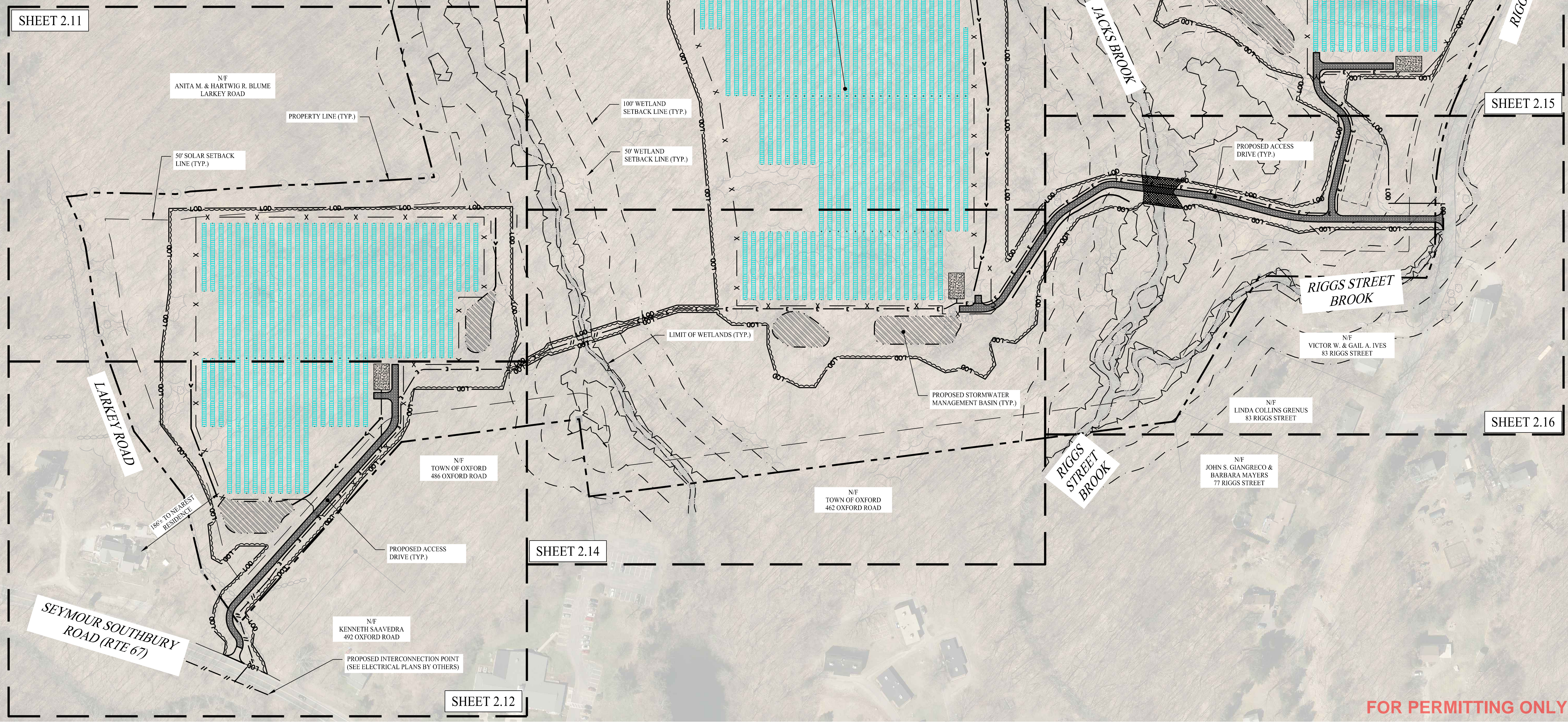
SHEET 2.13

SHEET 2.15

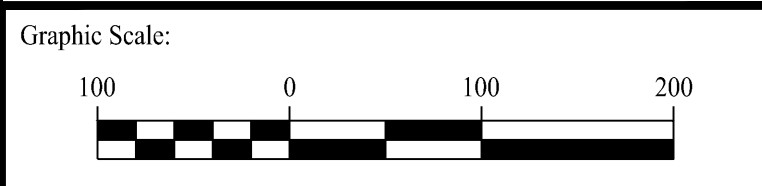
SHEET 2.16

SHEET 2.14

SHEET 2.12



Rev. #:	Date	Description



**SOLLI ENGINEERING**  
 501 Main Street, Monroeville, CT 06468 T: (203) 880-5455 F: (203) 880-9695  
 11 Vanderbilt Ave., Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

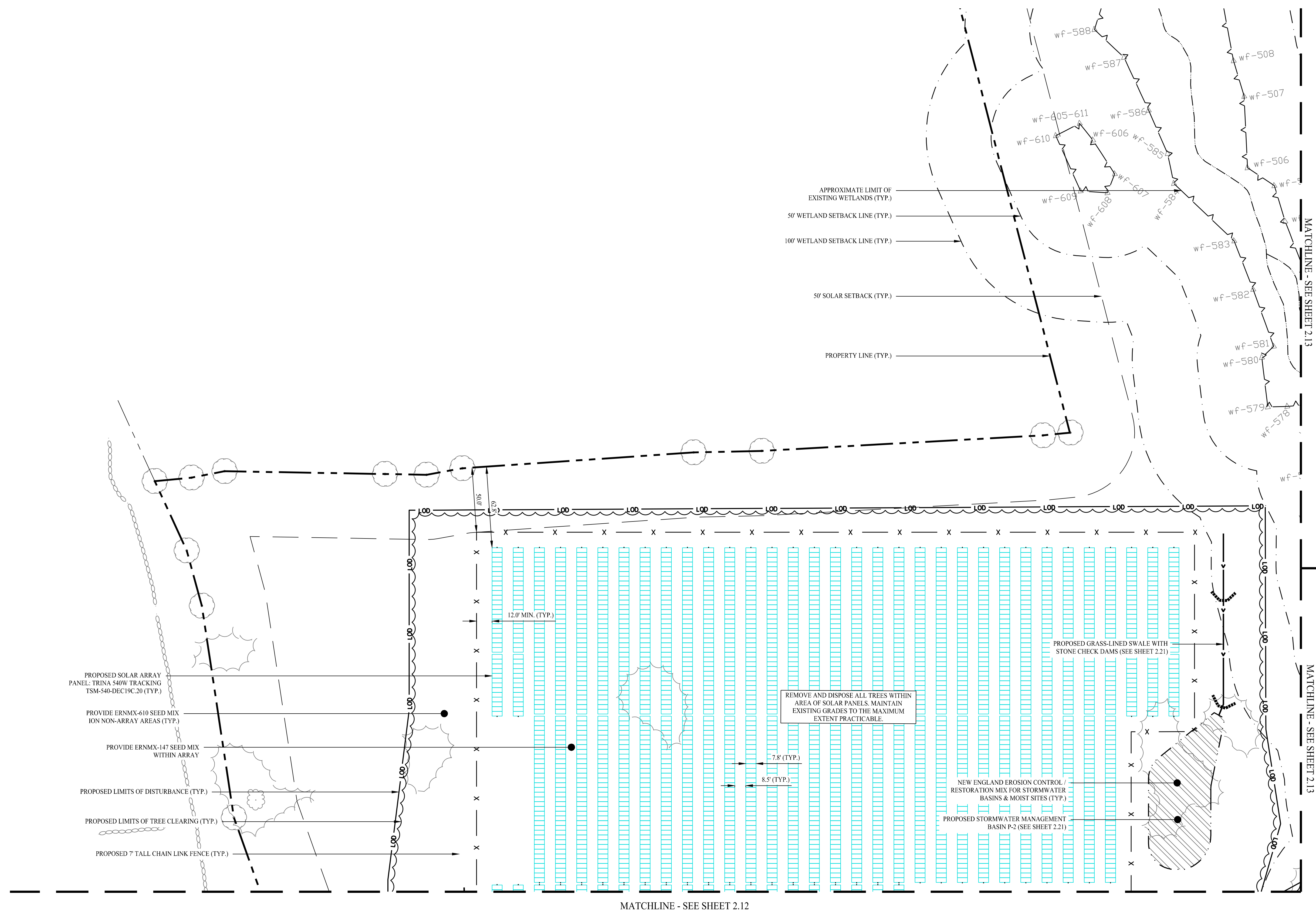
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Checked By:	EEL
Approved By:	KMS
Project #:	22108801
Plan Date:	01/15/24
Scale:	1" = 100'

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title:	Sheet #:
OVERALL SITE LAYOUT PLAN	2.10

**FOR PERMITTING ONLY**





- PROPOSED SOLAR ARRAY  
PANEL: TRINA 540W TRACKING  
TSM-540-DEC19C.20 (TYP.)
- PROVIDE ERNMX-610 SEED MIX  
ION NON-ARRAY AREAS (TYP.)
- PROVIDE ERNMX-147 SEED MIX  
WITHIN ARRAY
- PROPOSED LIMITS OF DISTURBANCE (TYP.)
- PROPOSED LIMITS OF TREE CLEARING (TYP.)
- PROPOSED 7' TALL CHAIN LINK FENCE (TYP.)

- APPROXIMATE LIMIT OF  
EXISTING WETLANDS (TYP.)
- 50' WETLAND SETBACK LINE (TYP.)
- 100' WETLAND SETBACK LINE (TYP.)
- 50' SOLAR SETBACK (TYP.)
- PROPERTY LINE (TYP.)

REMOVE AND DISPOSE ALL TREES WITHIN  
AREA OF SOLAR PANELS. MAINTAIN  
EXISTING GRADES TO THE MAXIMUM  
EXTENT PRACTICABLE.

NEW ENGLAND EROSION CONTROL/  
RESTORATION MIX FOR STORMWATER  
BASINS & MOIST SITES (TYP.)

PROPOSED STORMWATER MANAGEMENT  
BASIN P-2 (SEE SHEET 2.21)

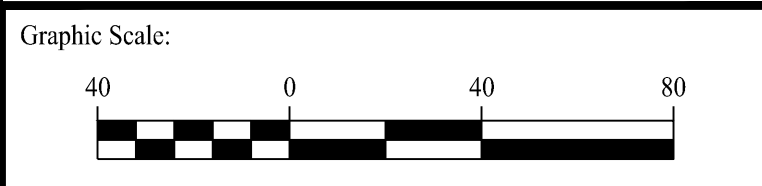
PROPOSED GRASS-LINED SWALE WITH  
STONE CHECK DAMS (SEE SHEET 2.21)

MATCHLINE - SEE SHEET 2.12

MATCHLINE - SEE SHEET 2.13

MATCHLINE - SEE SHEET 2.13

Rev. #:	Date	Description



**SOLLI ENGINEERING**  
 501 Main Street, Meriden, CT 06468 T: (203) 880-5455 F: (203) 880-9695  
 11 Vanderbilt Ave., Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By: CSH  
 Checked By: EEL  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: 1" = 40'



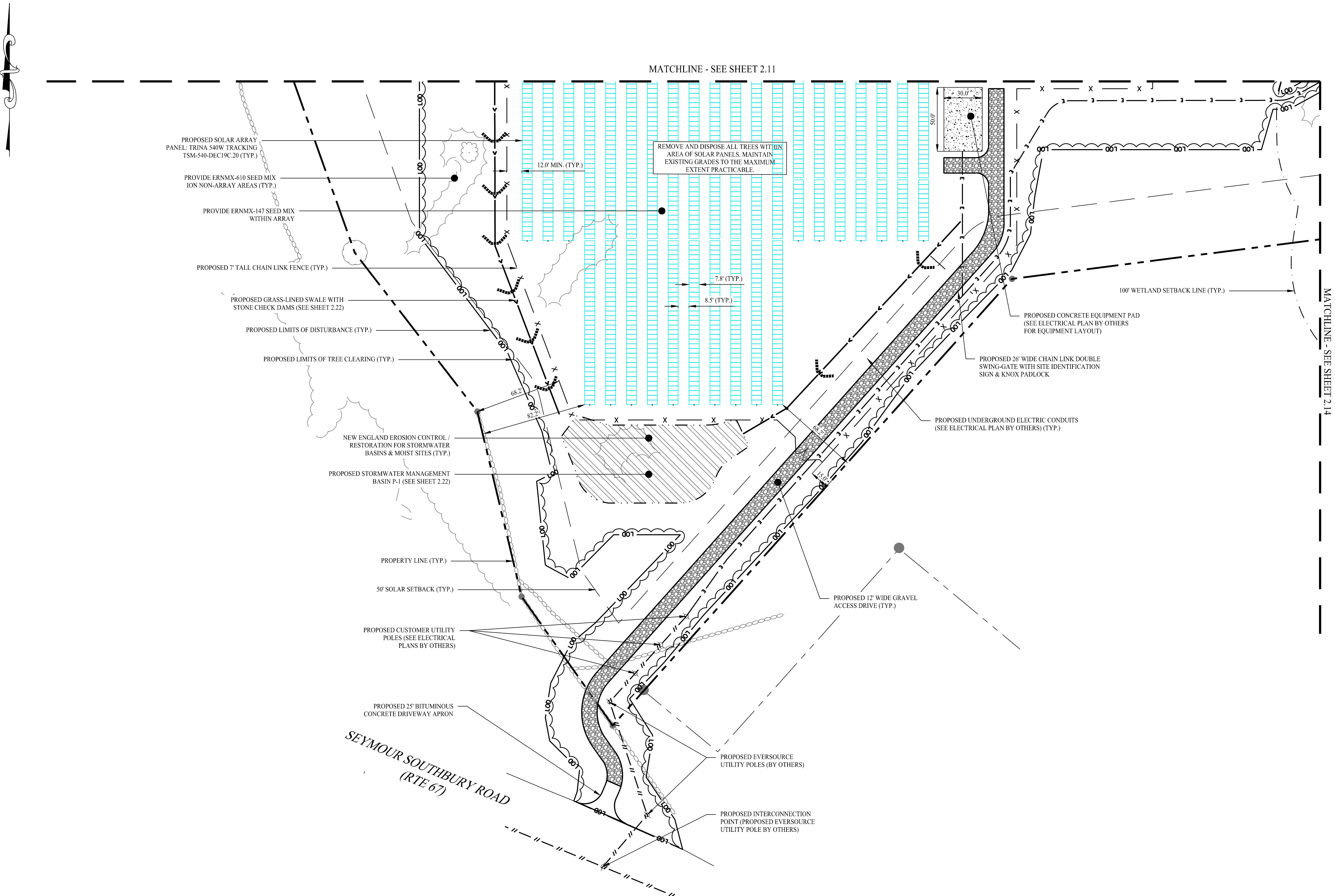
**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: <b>SITE LAYOUT PLAN (1 OF 6)</b>	Sheet #: <b>2.11</b>
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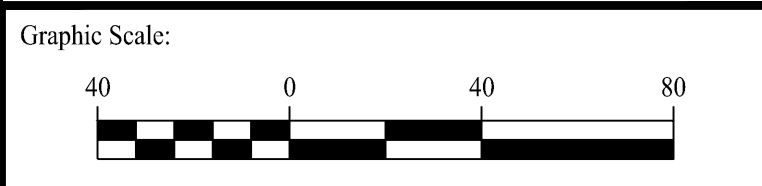
**FOR PERMITTING ONLY**



Jun 19, 2024 - 2:27pm chensdy  
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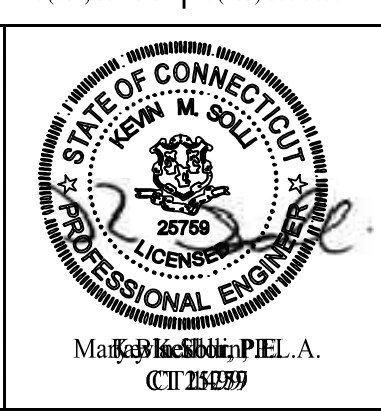
Rev. #:	Date	Description



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11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By: CSH  
Checked By: EEL  
Approved By: KMS  
Project #: 22108801  
Plan Date: 01/15/24  
Scale: 1" = 40'

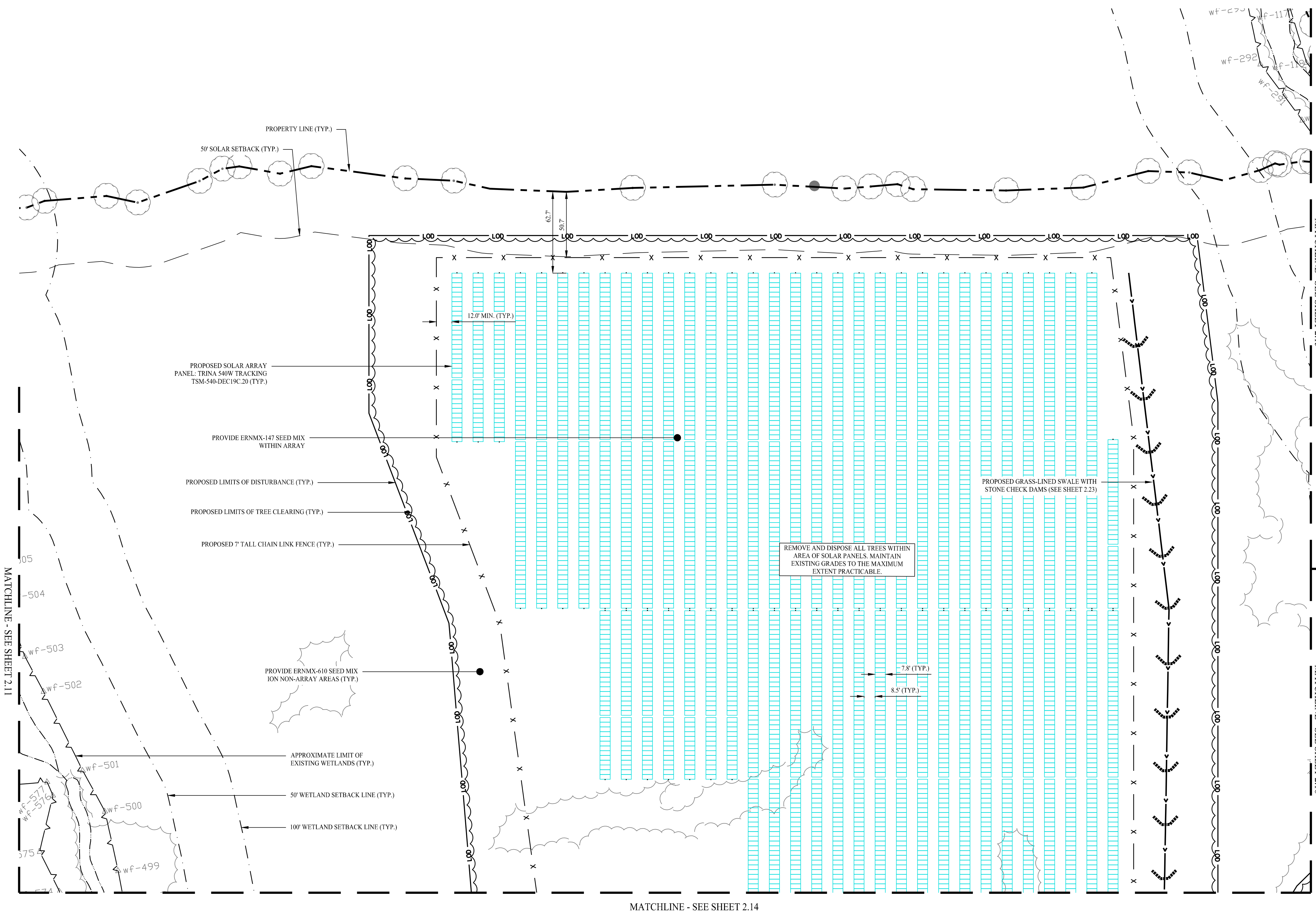


Project:  
**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
RIGGS STREET  
OXFORD, CONNECTICUT

Sheet Title: **SITE LAYOUT PLAN (2 OF 6)** Sheet #: **2.12**

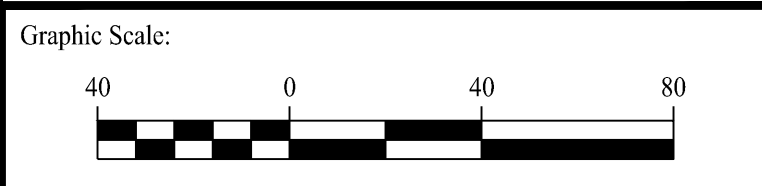
**FOR PERMITTING ONLY**





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Rev. #:	Date	Description



**SOLLI ENGINEERING**  
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 11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By: CSH  
 Checked By: EEL  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: 1" = 40'



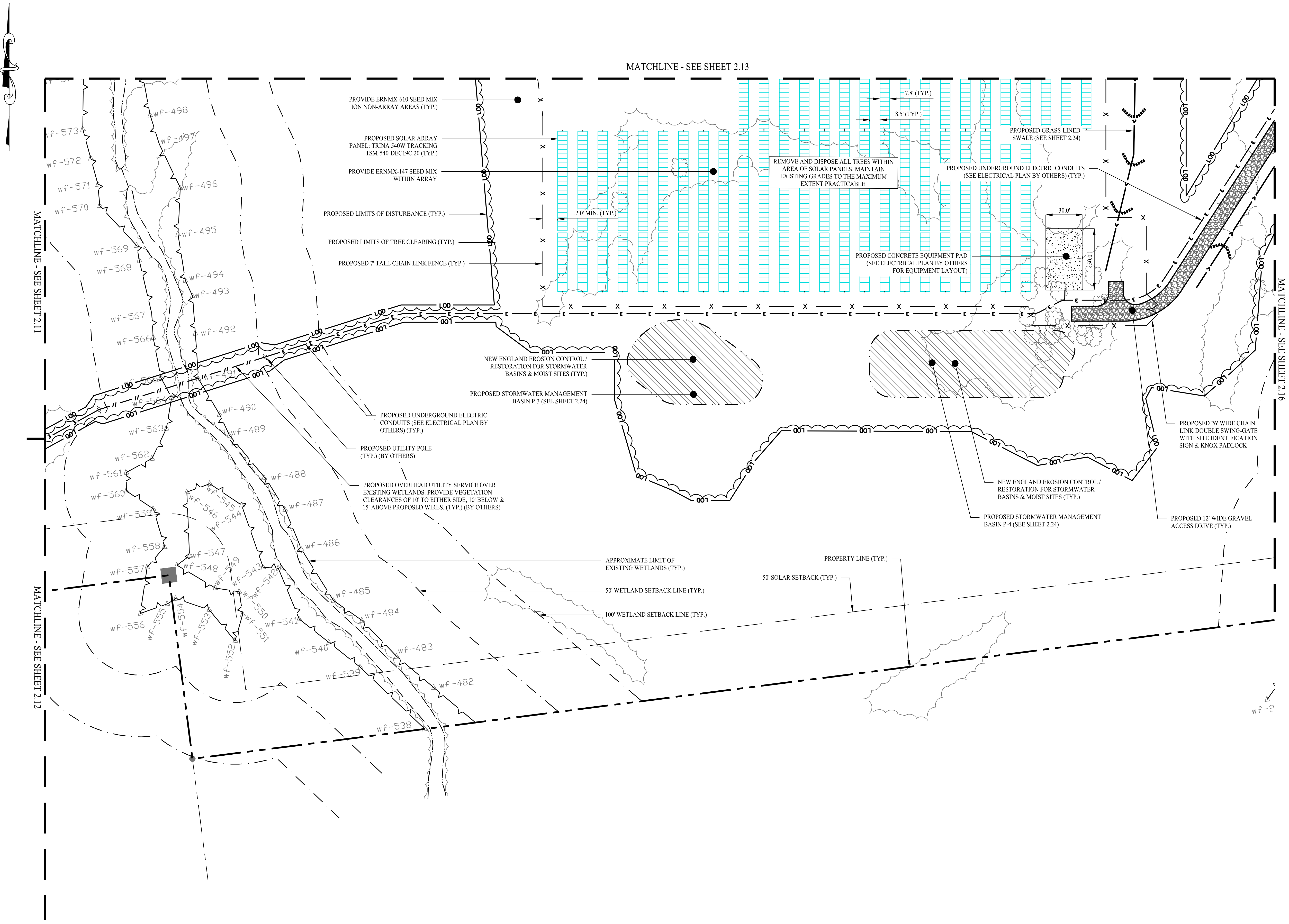
**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: **SITE LAYOUT PLAN (3 OF 6)** Sheet #: **2.13**

**FOR PERMITTING ONLY**



Jun 19, 2024 - 2:27pm chendy  
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MATCHLINE - SEE SHEET 2.13

MATCHLINE - SEE SHEET 2.11

MATCHLINE - SEE SHEET 2.16

MATCHLINE - SEE SHEET 2.12

- PROVIDE ERNMX-610 SEED MIX ION NON-ARRAY AREAS (TYP.)
- PROPOSED SOLAR ARRAY PANEL: TRINA 540W TRACKING TSM-540-DEC19C.20 (TYP.)
- PROVIDE ERNMX-147 SEED MIX WITHIN ARRAY
- PROPOSED LIMITS OF DISTURBANCE (TYP.)
- PROPOSED LIMITS OF TREE CLEARING (TYP.)
- PROPOSED 7 TALL CHAIN LINK FENCE (TYP.)

REMOVE AND DISPOSE ALL TREES WITHIN AREA OF SOLAR PANELS. MAINTAIN EXISTING GRADES TO THE MAXIMUM EXTENT PRACTICABLE.

PROPOSED GRASS-LINED SWALE (SEE SHEET 2.24)

PROPOSED UNDERGROUND ELECTRIC CONDUITS (SEE ELECTRICAL PLAN BY OTHERS) (TYP.)

PROPOSED CONCRETE EQUIPMENT PAD (SEE ELECTRICAL PLAN BY OTHERS FOR EQUIPMENT LAYOUT)

NEW ENGLAND EROSION CONTROL / RESTORATION FOR STORMWATER BASINS & MOIST SITES (TYP.)

PROPOSED STORMWATER MANAGEMENT BASIN P-3 (SEE SHEET 2.24)

PROPOSED UNDERGROUND ELECTRIC CONDUITS (SEE ELECTRICAL PLAN BY OTHERS) (TYP.)

PROPOSED UTILITY POLE (TYP.) (BY OTHERS)

PROPOSED OVERHEAD UTILITY SERVICE OVER EXISTING WETLANDS. PROVIDE VEGETATION CLEARANCES OF 10' TO EITHER SIDE, 10' BELOW & 15' ABOVE PROPOSED WIRES. (TYP.) (BY OTHERS)

NEW ENGLAND EROSION CONTROL / RESTORATION FOR STORMWATER BASINS & MOIST SITES (TYP.)

PROPOSED STORMWATER MANAGEMENT BASIN P-4 (SEE SHEET 2.24)

PROPOSED 12' WIDE GRAVEL ACCESS DRIVE (TYP.)

APPROXIMATE LIMIT OF EXISTING WETLANDS (TYP.)

50' WETLAND SETBACK LINE (TYP.)

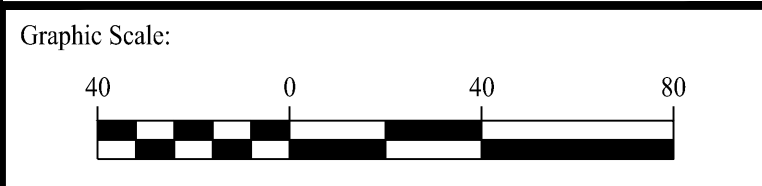
100' WETLAND SETBACK LINE (TYP.)

PROPERTY LINE (TYP.)

50' SOLAR SETBACK (TYP.)

wf-2

Rev. #:	Date	Description



**SOLLI ENGINEERING**  
 501 Main Street, Meriden, CT 06468 T: (203) 880-5455 F: (203) 880-9695  
 11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By: CSH  
 Checked By: EEL  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: 1" = 40'



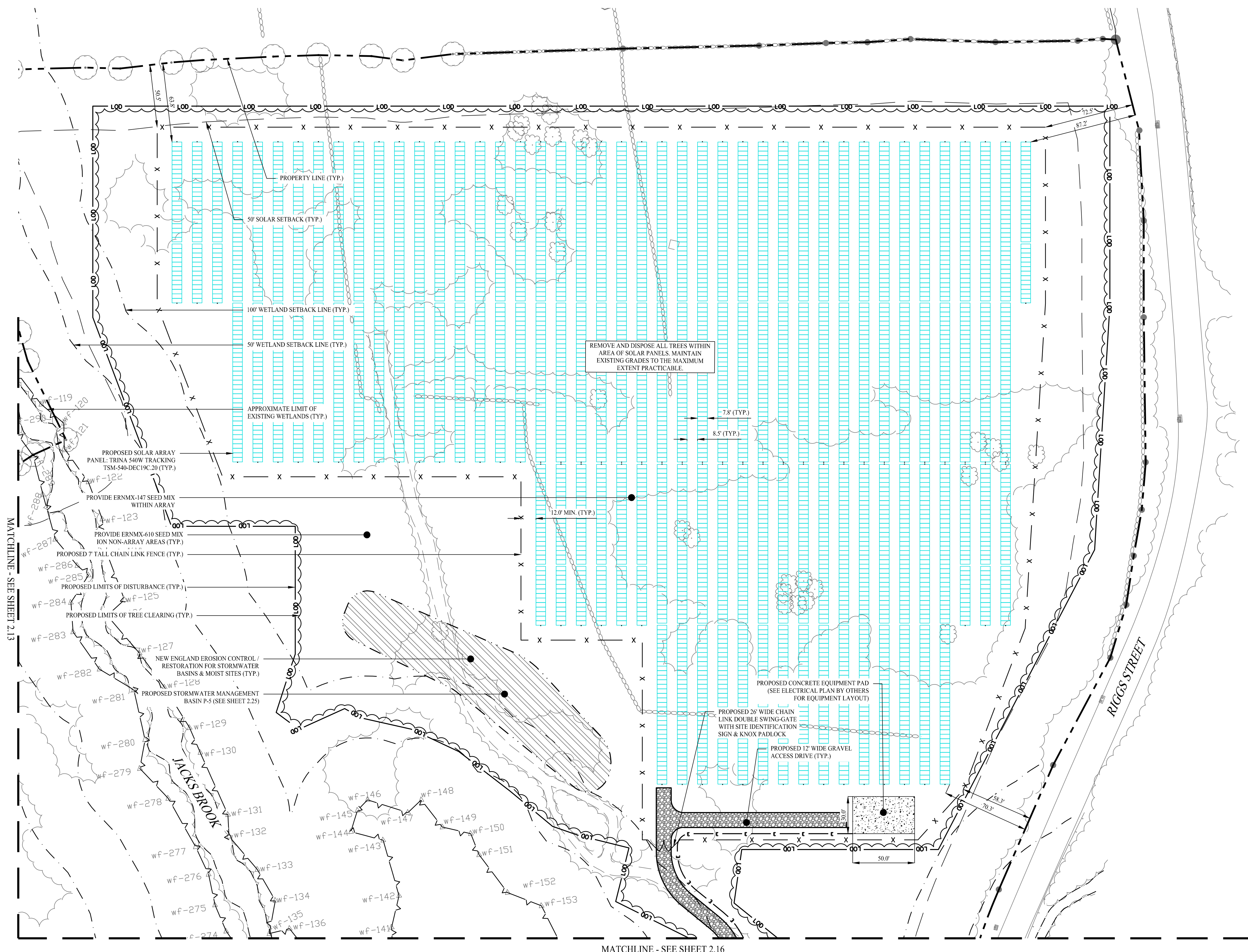
**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: **SITE LAYOUT PLAN (4 OF 6)** Sheet #: **2.14**

**FOR PERMITTING ONLY**



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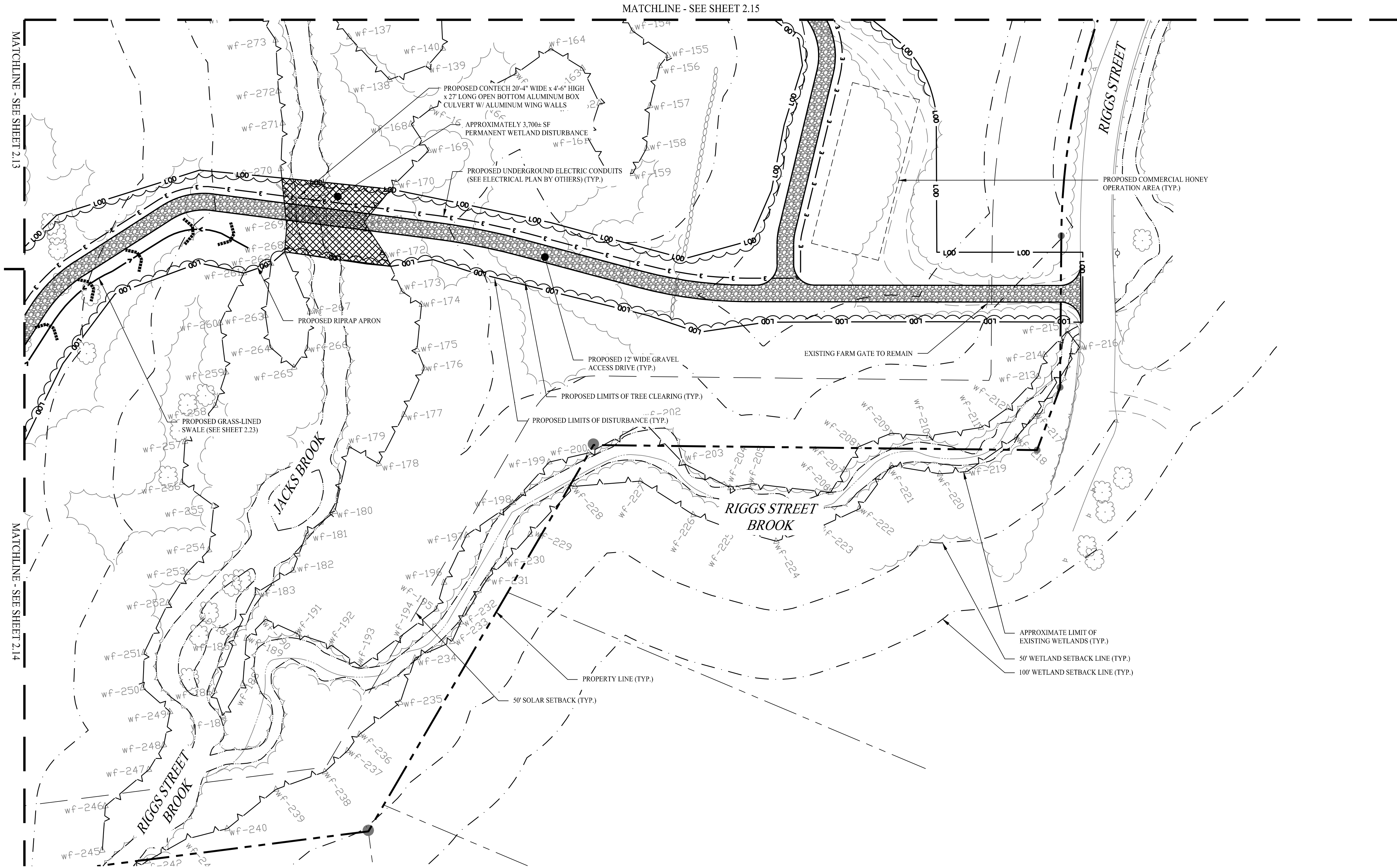


Rev. #:	Date	Description
Graphic Scale: 0 40 80		
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Drawn By:	CSH	
Checked By:	EEL	
Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	<p>Project:</p> <p style="text-align: center;"><b>PROPOSED SOLAR PHOTOVOLTAIC ARRAY</b> RIGGS STREET OXFORD, CONNECTICUT</p>
Sheet Title:	SITE LAYOUT PLAN (5 OF 6)	Sheet #: <b>2.15</b>

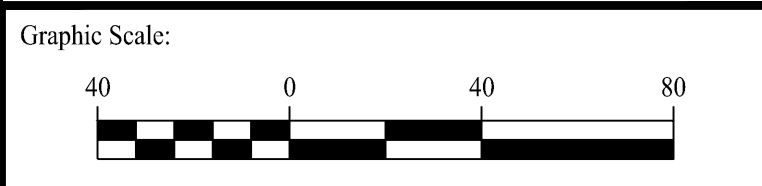
FOR PERMITTING ONLY



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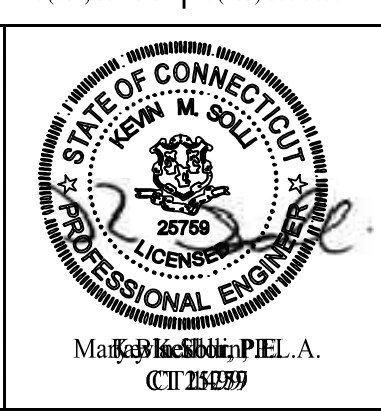


Rev. #:	Date	Description



**SOLLI ENGINEERING**  
 501 Main Street, Meriden, CT 06468 T: (203) 880-5455 F: (203) 880-9695  
 11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By: CSH  
 Checked By: EEL  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: 1" = 40'



**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: **SITE LAYOUT PLAN (6 OF 6)** Sheet #: **2.16**


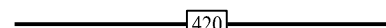
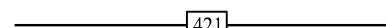


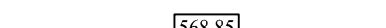






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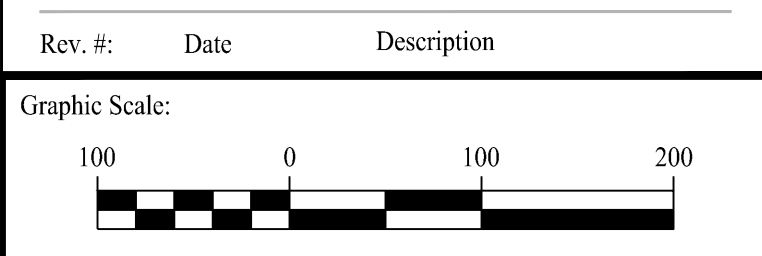
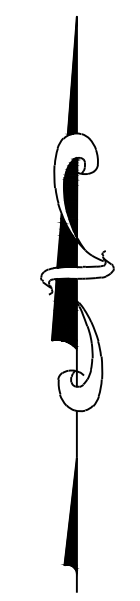


**GENERAL NOTES**

1. THIS DRAWING IS INTENDED TO DESCRIBE GRADING AND DRAINAGE ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, AND DETAIL SHEETS FOR CONSTRUCTION DETAILS.
2. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
4. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY GOVERNMENT AND LOCAL AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS FROM THE TOWN OF FRANKLIN REQUIRED TO PERFORM ALL WORK. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
5. THE CONTRACTOR SHALL COMPACT FILL IN 12" MAXIMUM LIFTS UNDER ALL PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST).
6. UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE ENGINEER OF RECORD, AFTER SUBGRADE IS ROUGH GRADED.
7. ALL DISTURBANCE INCURRED TO TOWN OR STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OF MIDDLETOWN AUTHORITY.
8. IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.
9. ALL DISTURBED AREAS TO BE RESEED WITH ERNMX-147 WITHIN THE ARRAY AREA. ERNMX-610 WILL BE USED OUTSIDE FENCELINE AND IN NON-ARRAY AREAS.

**LEGEND**

	PROPERTY LINE
	MAJOR CONTOURS
	MINOR CONTOURS
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	STORM DRAIN PIPE
	RIP RAP SPILLWAY
	OUTLET CONTROL STRUCTURE
	FLARE END SECTION
	RIPRAP OUTLET PROTECTION



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 11 Vanderbilt Ave., Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By:	CSH
Checked By:	EEL
Approved By:	KMS
Project #:	22108801
Plan Date:	01/15/24
Scale:	1" = 100'



**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title:	OVERALL GRADING & DRAINAGE PLAN	Sheet #:	2.20
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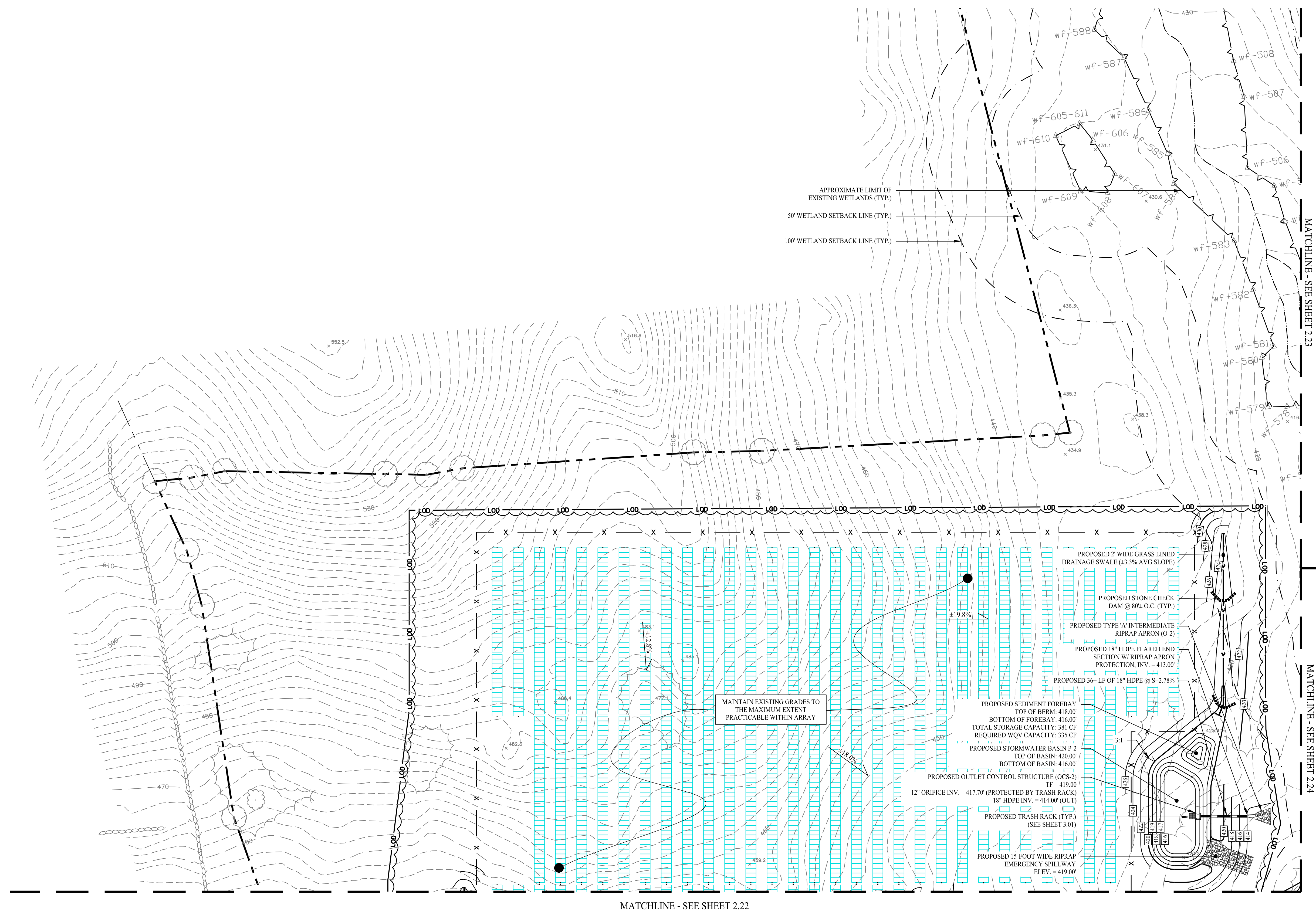
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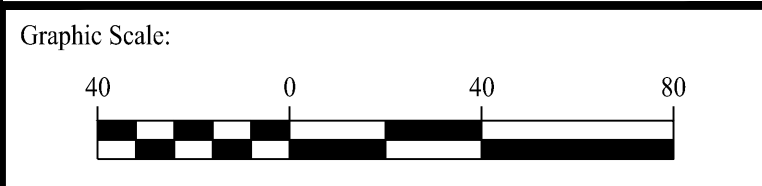


LEGEND

- PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- STORM DRAIN PIPE
- RIP RAP SPILLWAY
- OUTLET CONTROL STRUCTURE
- FLARE END SECTION
- RIPRAP OUTLET PROTECTION



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Checked By:	EEL	
Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	Kevin Solli, P.E. CT 25759

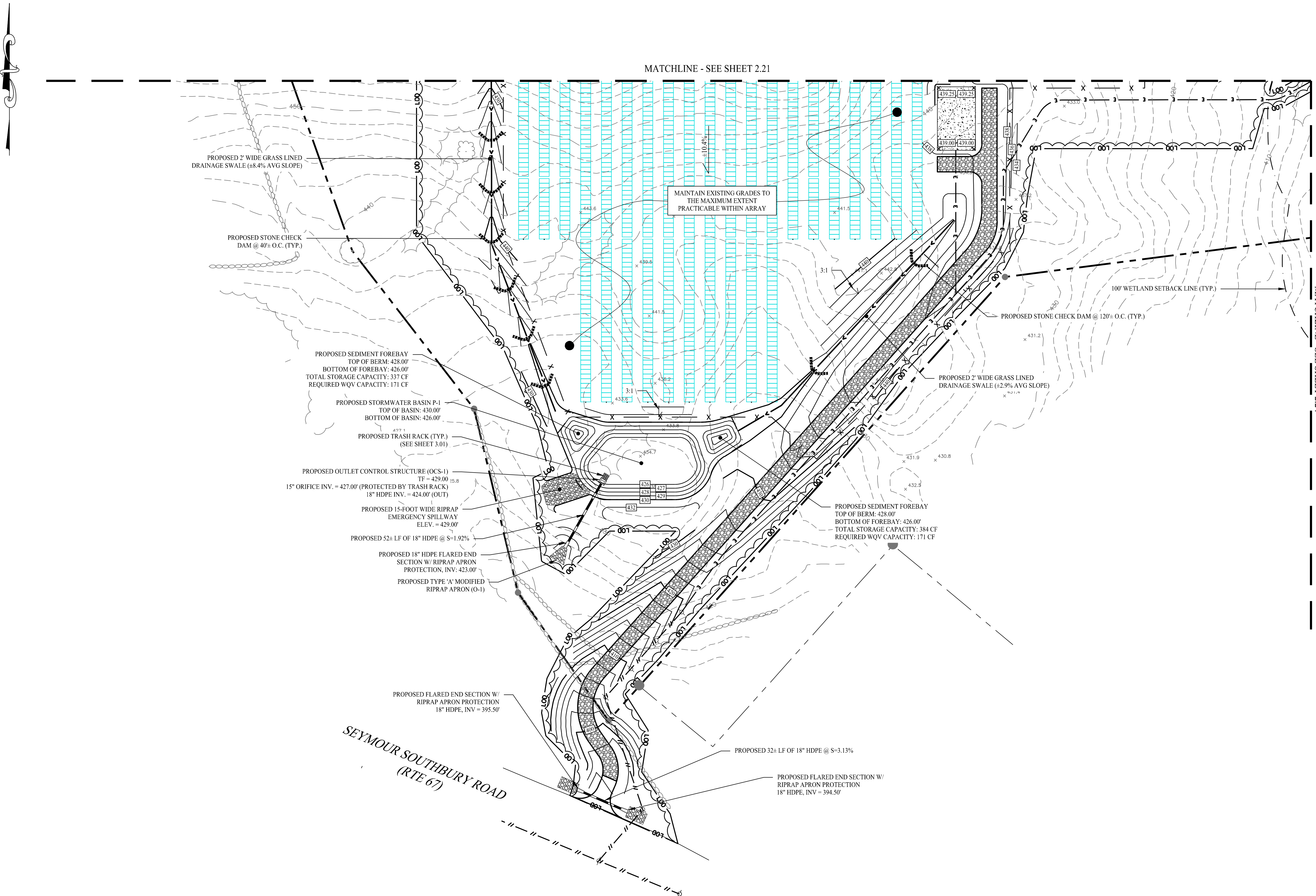
**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title:	Sheet #:
GRADING & DRAINAGE PLAN	2.21

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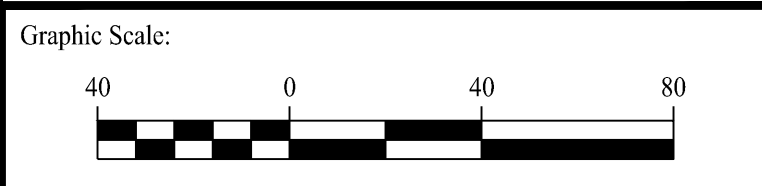
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**LEGEND**

	PROPERTY LINE
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	MINOR CONTOURS
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	STORM DRAIN PIPE
	RIP RAP SPILLWAY
	OUTLET CONTROL STRUCTURE
	FLARE END SECTION
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Rev. #:	Date	Description



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Project #:	22108801
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Scale:	1" = 40'



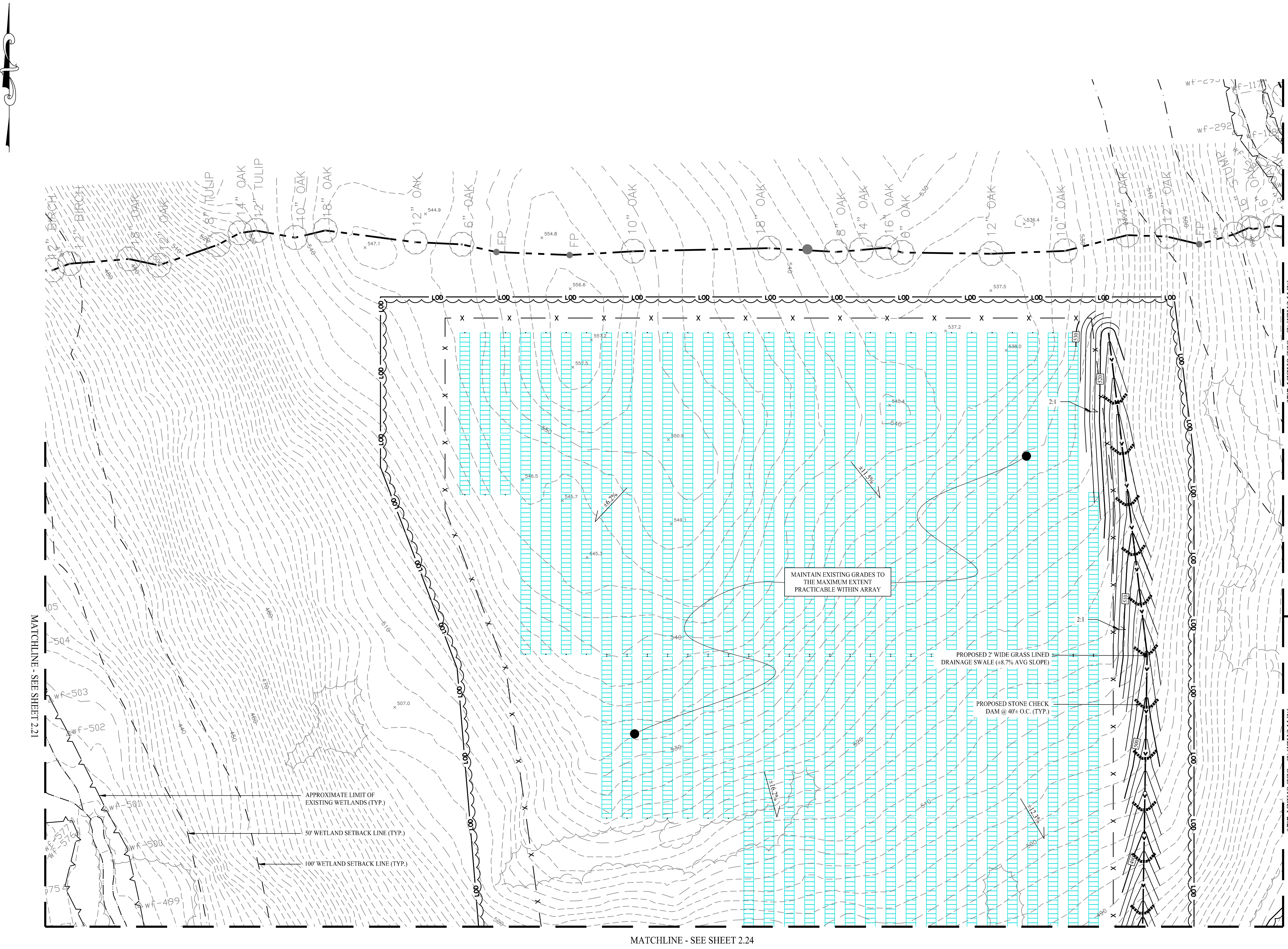
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**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: GRADING & DRAINAGE PLAN	Sheet #: <b>2.22</b>
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**LEGEND**

	PROPERTY LINE
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	MINOR CONTOURS
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	STORM DRAIN PIPE
	RIP RAP SPILLWAY
	OUTLET CONTROL STRUCTURE
	FLARE END SECTION
	RIPRAP OUTLET PROTECTION

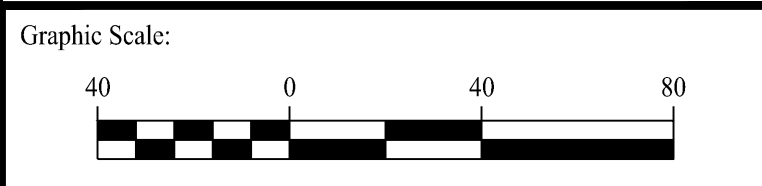
MAINTAIN EXISTING GRADES TO THE MAXIMUM EXTENT PRACTICABLE WITHIN ARRAY

PROPOSED 2' WIDE GRASS LINED DRAINAGE SWALE (±8.7% AVG SLOPE)

PROPOSED STONE CHECK DAM @ 40'± O.C. (TYP.)

APPROXIMATE LIMIT OF EXISTING WETLANDS (TYP.)  
 50' WETLAND SETBACK LINE (TYP.)  
 100' WETLAND SETBACK LINE (TYP.)

Rev. #:	Date	Description



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Plan Date:	01/15/24
Scale:	1" = 40'



**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

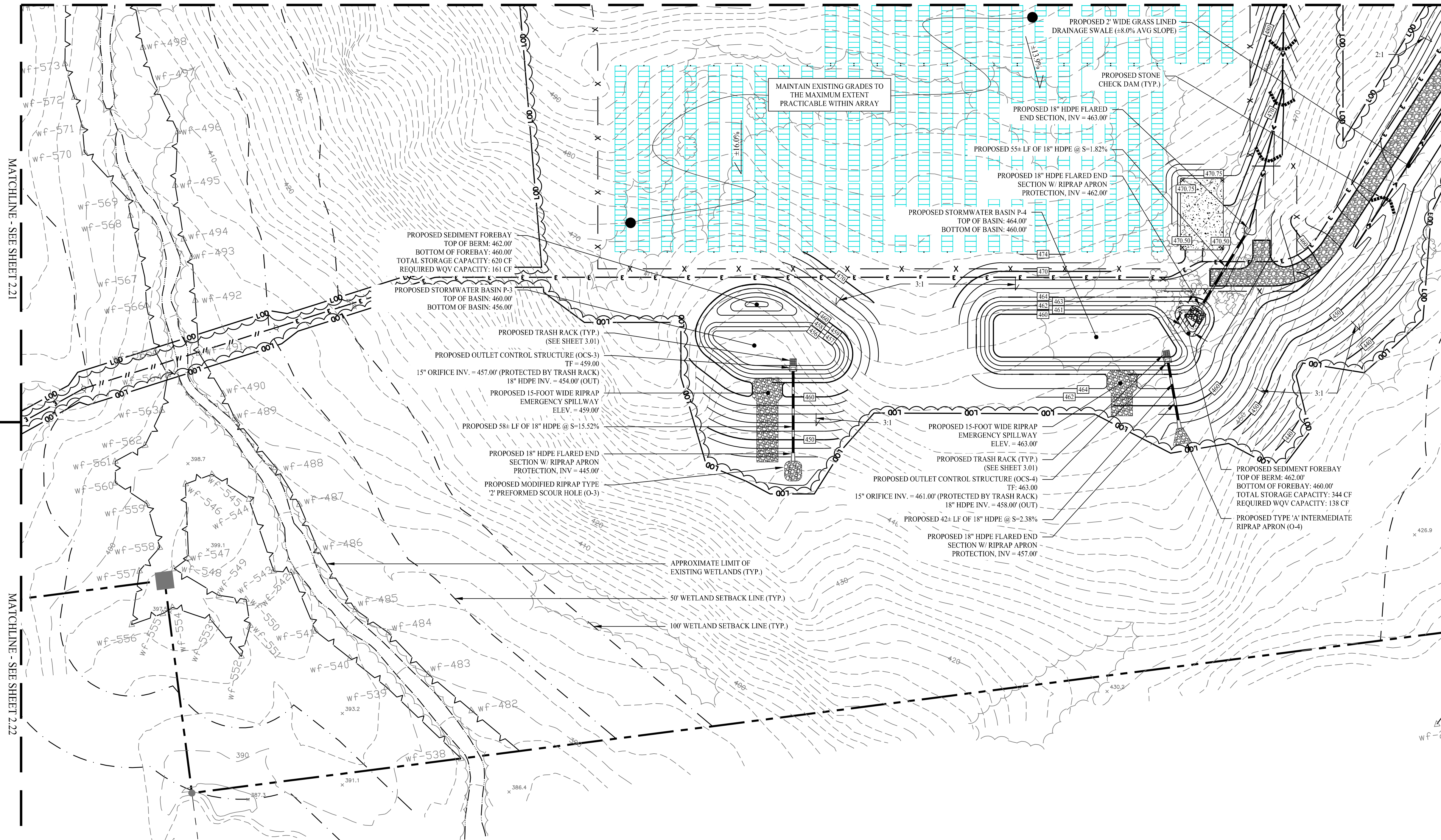
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MATCHLINE - SEE SHEET 2.23



**LEGEND**

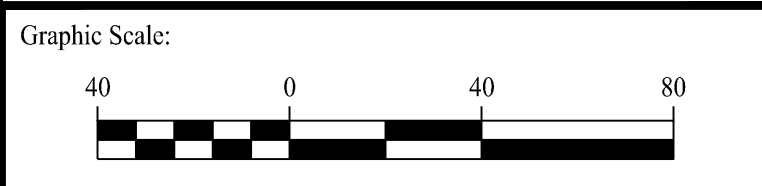
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- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- STORM DRAIN PIPE
- RIP RAP SPILLWAY
- OUTLET CONTROL STRUCTURE
- FLARE END SECTION
- RIPRAP OUTLET PROTECTION

MATCHLINE - SEE SHEET 2.21

MATCHLINE - SEE SHEET 2.26

MATCHLINE - SEE SHEET 2.22

Rev. #:	Date	Description



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 Checked By: EEL  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: 1" = 40'










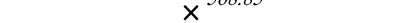


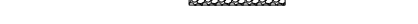

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

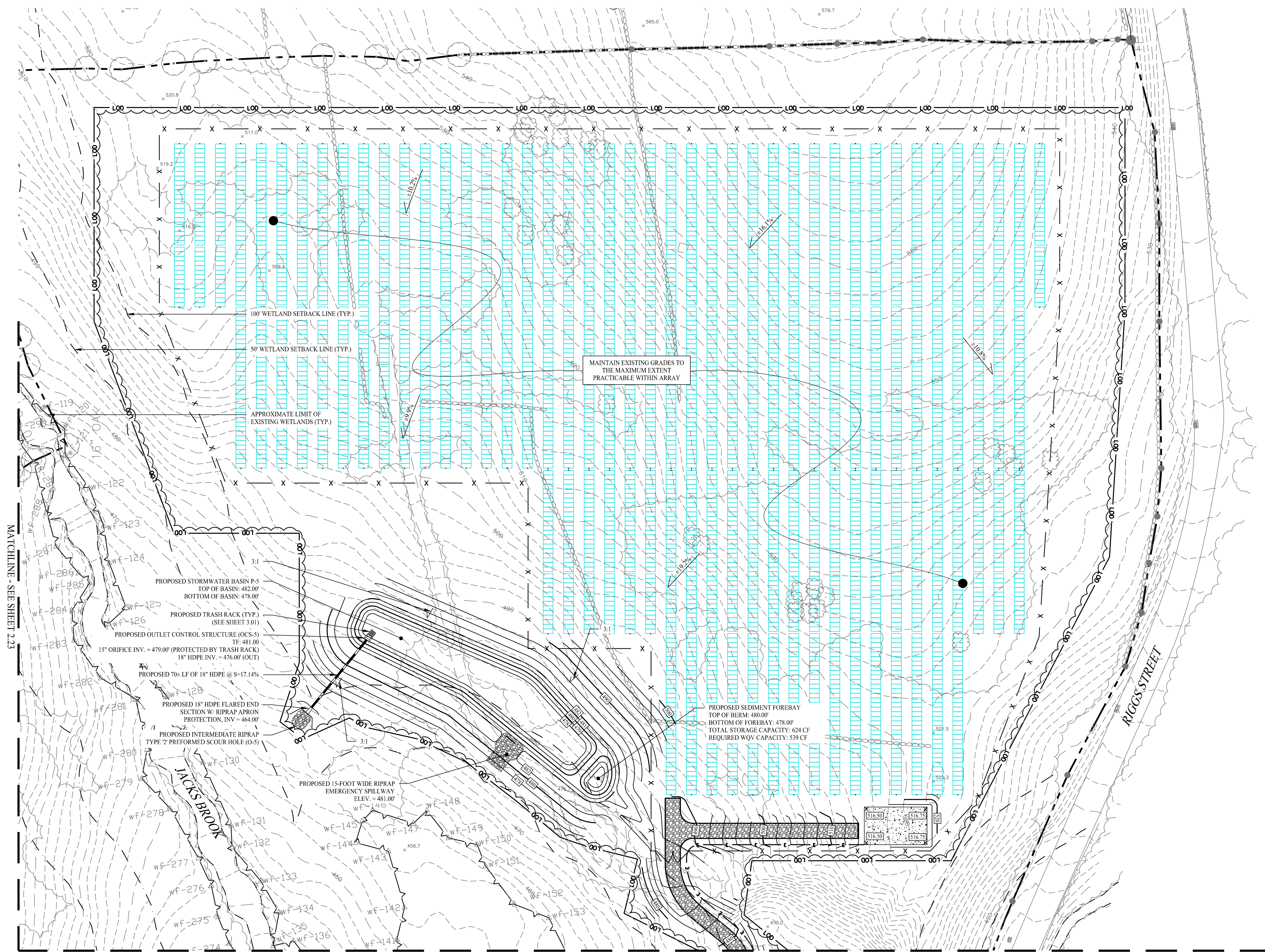
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 Sheet #: 2.24

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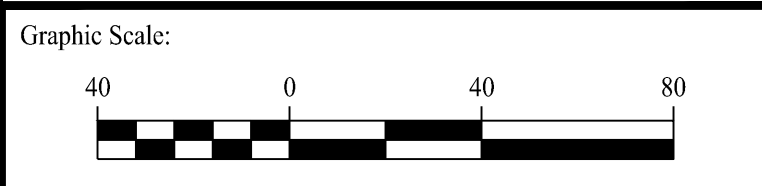
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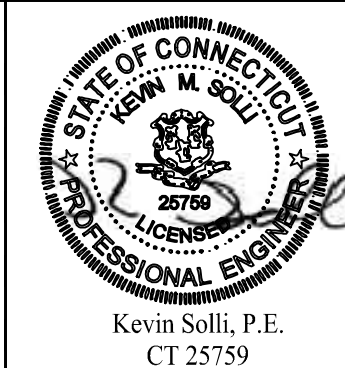
MATCHLINE - SEE SHEET 2.23

MATCHLINE - SEE SHEET 2.26

Rev. #:	Date	Description



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Drawn By:	CSH	
Checked By:	EEL	
Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	Kevin Solli, P.E. CT 25759

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title:	Sheet #:
GRADING & DRAINAGE PLAN	2.25






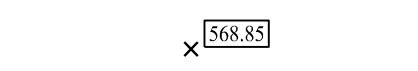
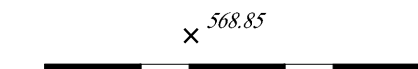


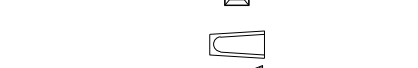
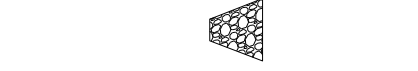

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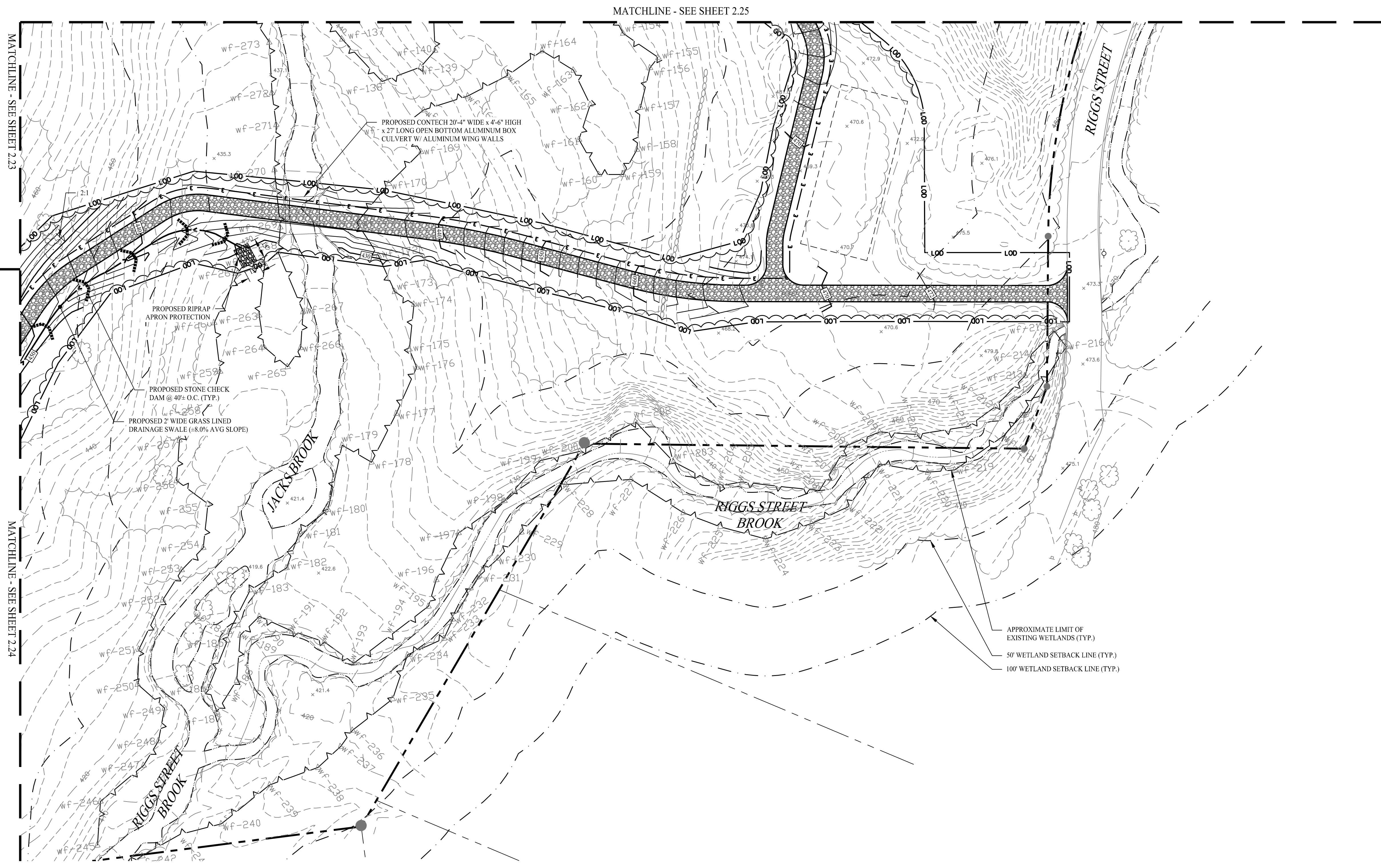
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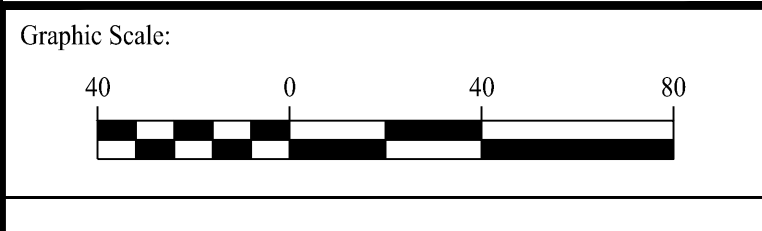


LEGEND

-  PROPERTY LINE
-  MAJOR CONTOURS
-  MINOR CONTOURS
-  EXISTING MAJOR CONTOURS
-  EXISTING MINOR CONTOURS
-  PROPOSED SPOT ELEVATION
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-  STORM DRAIN PIPE
-  RIP RAP SPILLWAY
-  OUTLET CONTROL STRUCTURE
-  FLARE END SECTION
-  RIPRAP OUTLET PROTECTION



Rev. #:	Date	Description



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Drawn By: CSH  
 Checked By: EEL  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: 1" = 40'



Project:

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: **GRADING & DRAINAGE PLAN**

Sheet #: **2.26**

**FOR PERMITTING ONLY**



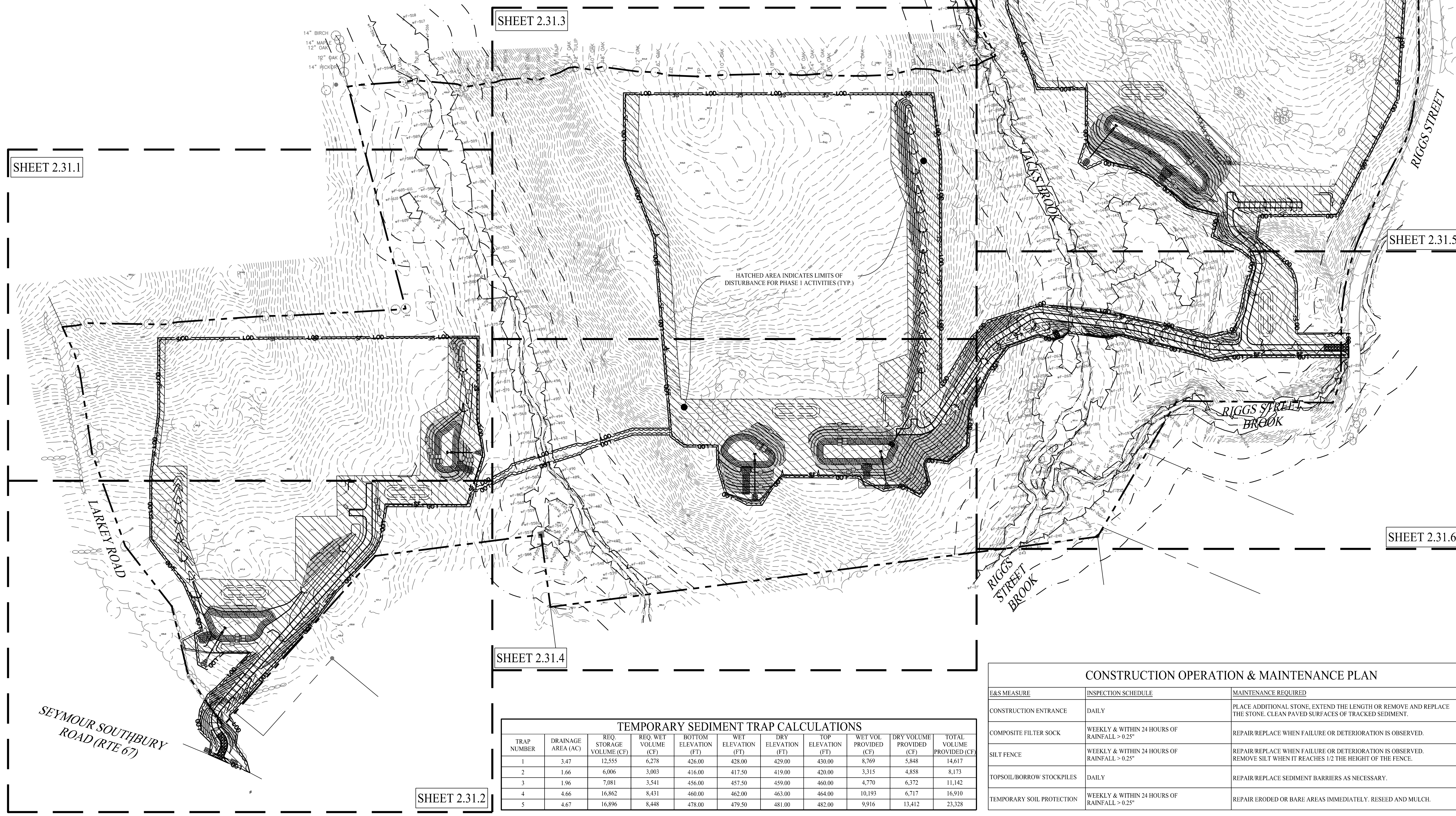
**SEDIMENT & EROSION CONTROL NOTES**

- 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 OXFORD, 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 OF RECORD. 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, ENGINEER OF RECORD, 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, COMPOSITE 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 EXITING.
- 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 ANY DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE CONFORMING TO THE GUIDELINES WITHIN THE APPROVED LIMIT OF DISTURBANCE IF REQUIRED. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE PERMITTEE OR MUNICIPALITY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES AND SECURED APPROPRIATELY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.
- VEGETATIVE ESTABLISHMENT SHALL OCCUR ON ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION. IT IS COVERED IN STONE OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.
- MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP CONCRETE PADS, CLEAN THE STORMWATER MANAGEMENT SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM PERMITTEE OR THE MUNICIPALITY.
- SEEDING MIXTURES SHALL BE FUZZ & BUZZ MIX - PREMIUM - ERNMX-147, OR APPROVED EQUAL. NEW ENGLAND EROSION CONTROL/ RESTORATION MIX FOR STORMWATER BASINS & MOIST SITES, OR APPROVED EQUAL, SHALL BE UTILIZED ON THE BOTTOM OF THE BASIN & FUZZ & BUZZ MIX - PREMIUM - ERNMX-147, OR APPROVED EQUAL, ON THE SIDE SLOPES OF THE BASIN. SEE SHEET DN-2 FOR ALL SEED MIXTURES.
- REFER TO SHEET 2.41 FOR SEDIMENT & EROSION CONTROL NARRATIVE & DETAILS.

**CONSTRUCTION SEQUENCE (PHASE I)**

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.

- PHASE I:**
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE LIMITS OF DISTURBANCE IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
  - CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER'S REPRESENTATIVES, 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.
  - REMOVE EXISTING IMPEDIMENTS AS NECESSARY AND PROVIDE MINIMAL DISTURBANCE TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCE.
  - INSTALL STREAM CROSSING & ACCESS DRIVE.
  - INSTALL SILT FENCE/ PERIMETER SEC MEASURES AS PROPOSED (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SEC MEASURES).
  - PREPARE TEMPORARY PARKING AND STORAGE AREAS. ESTABLISH MATERIAL STOCKPILE AREA AND INSTALL SEC BARRIER SURROUNDING PILE.
  - COMPLETE PHASE I CLEARING & GRUBBING FOR INSTALLATION OF SEDIMENT TRAPS AND GRASS LINED SWALES PER DESIGN PLANS. STABILIZE OPEN SOILS WITH SPECIFIED SEED MIXES.



**TEMPORARY SEDIMENT TRAP CALCULATIONS**

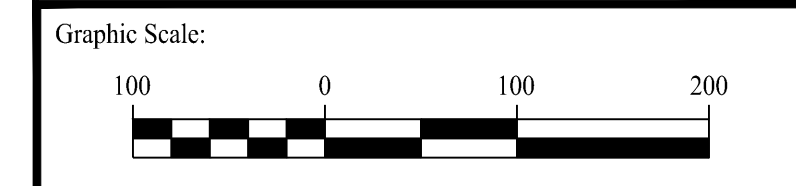
TRAP NUMBER	DRAINAGE AREA (AC)	REQ. STORAGE VOLUME (CF)	REQ. WET VOLUME (CF)	TOP ELEVATION (FT)	BOTTOM ELEVATION (FT)	WET ELEVATION (FT)	DRY ELEVATION (FT)	TOP ELEVATION (FT)	WET VOL PROVIDED (CF)	DRY VOLUME PROVIDED (CF)	TOTAL VOLUME PROVIDED (CF)
1	3.47	12,555	6,278	426.00	428.00	429.00	430.00	430.00	8,769	5,848	14,617
2	1.66	6,096	3,003	416.00	417.50	419.00	420.00	420.00	3,315	4,858	8,173
3	1.96	7,081	3,541	456.00	457.50	459.00	460.00	460.00	4,770	6,372	11,142
4	4.66	16,862	8,431	460.00	462.00	463.00	464.00	464.00	10,193	6,717	16,910
5	4.67	16,896	8,448	478.00	479.50	481.00	482.00	482.00	9,916	13,412	23,328

**CONSTRUCTION OPERATION & MAINTENANCE PLAN**

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.
COMPOSITE 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 SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.

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Drawn By: CSH  
 Checked By: EEL  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: 1" = 100'  
 Kevin Solli, P.E.  
 CT 25759

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT




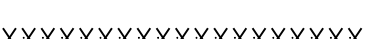





Sheet Title: OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I  
 Sheet #: 2.31





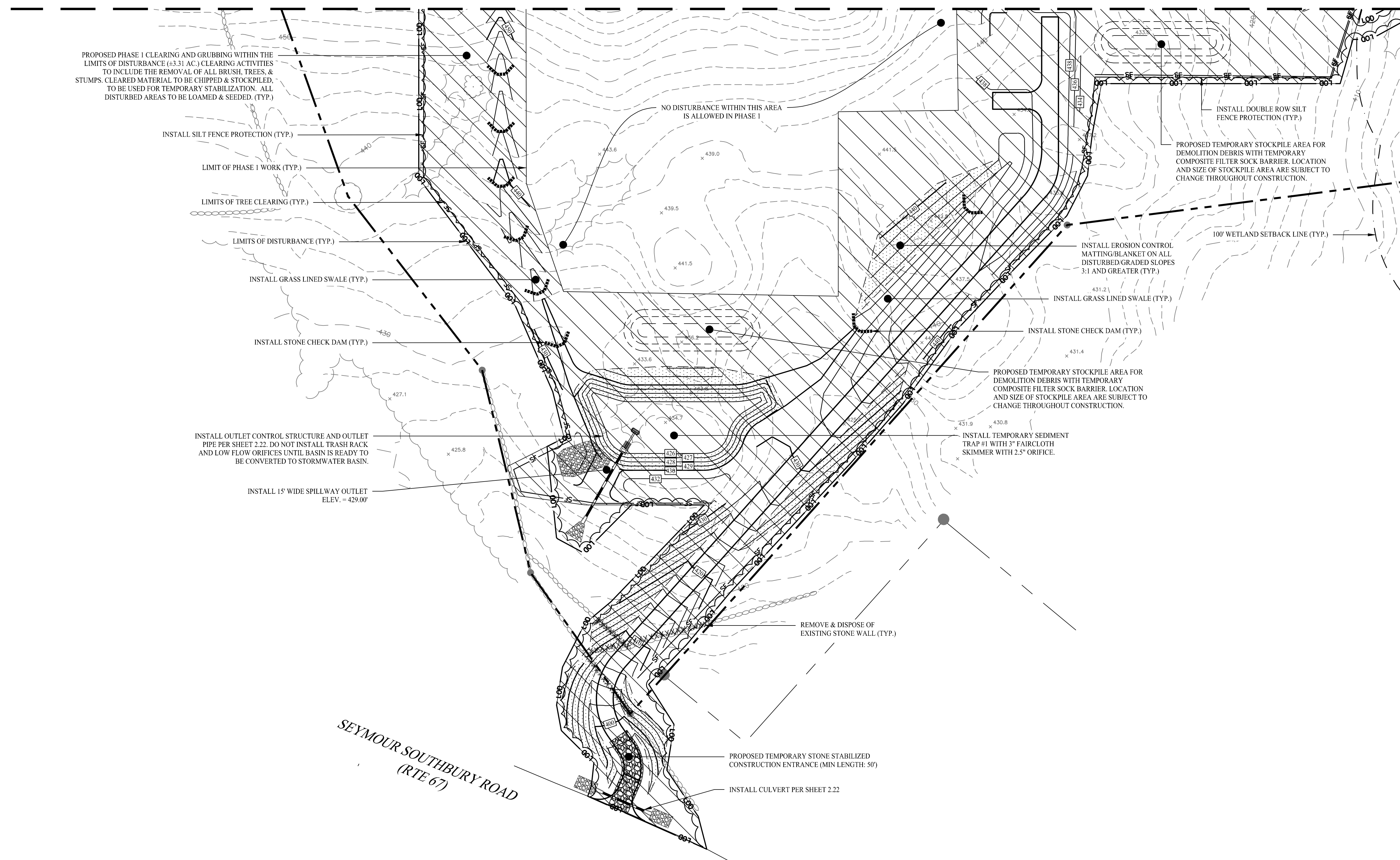


**LEGEND**

-  PROPERTY LINE
-  LIMIT OF DISTURBANCE
-  SILT FENCE PROTECTION
-  FENCE / ROCK WALL REMOVAL
-  STONE CHECK DAM
-  MATERIAL STOCKPILE AREA
-  CONSTRUCTION ENTRANCE
-  EROSION CONTROL MATTING
-  PHASE 1 CLEARING AND GRUBBING

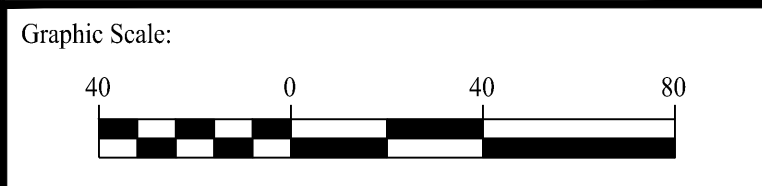
MATCHLINE - SEE SHEET 2.21

MATCHLINE - SEE SHEET 2.24



SEYMOUR SOUTHBURY ROAD  
(RTE 67)

Rev. #:	Date	Description



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Checked By:	EEL	
Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	

Project:

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title:	SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 1 (SHEET 2 OF 6)	Sheet #:	<b>2.31.2</b>
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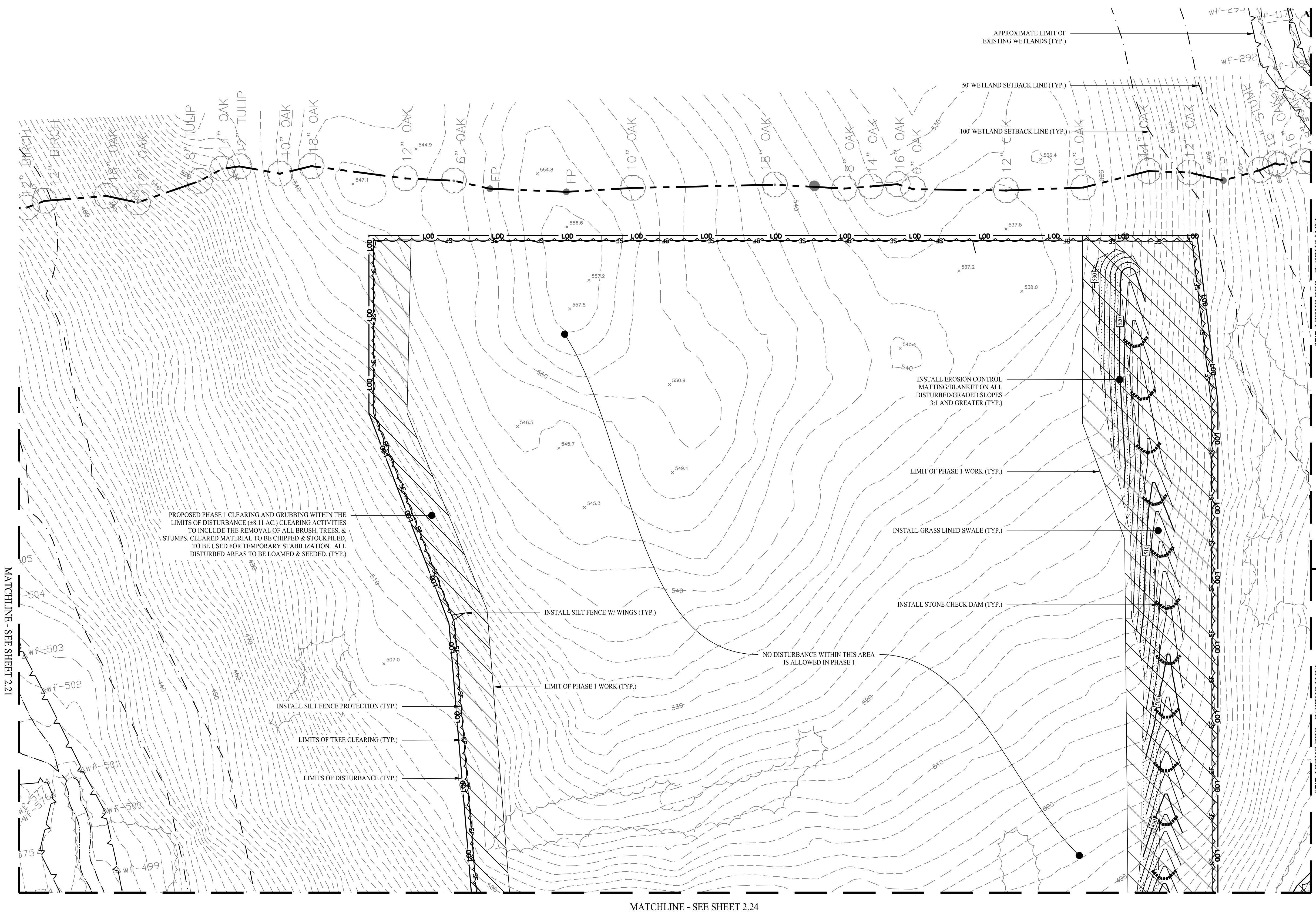
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LEGEND

- PROPERTY LINE
- LIMIT OF DISTURBANCE
- SILT FENCE PROTECTION
- FENCE / ROCK WALL REMOVAL
- STONE CHECK DAM
- MATERIAL STOCKPILE AREA
- CONSTRUCTION ENTRANCE
- EROSION CONTROL MATTING
- PHASE I CLEARING AND GRUBBING



PROPOSED PHASE I CLEARING AND GRUBBING WITHIN THE LIMITS OF DISTURBANCE (±8.11 AC.) CLEARING ACTIVITIES TO INCLUDE THE REMOVAL OF ALL BRUSH, TREES, & STUMPS. CLEARED MATERIAL TO BE CHIPPED & STOCKPILED, TO BE USED FOR TEMPORARY STABILIZATION. ALL DISTURBED AREAS TO BE LOAMED & SEEDED. (TYP.)

INSTALL EROSION CONTROL MATTING/BLANKET ON ALL DISTURBED GRADED SLOPES 3:1 AND GREATER (TYP.)

LIMIT OF PHASE I WORK (TYP.)

INSTALL GRASS LINED SWALE (TYP.)

INSTALL STONE CHECK DAM (TYP.)

NO DISTURBANCE WITHIN THIS AREA IS ALLOWED IN PHASE I

INSTALL SILT FENCE W/ WINGS (TYP.)

LIMIT OF PHASE I WORK (TYP.)

INSTALL SILT FENCE PROTECTION (TYP.)

LIMITS OF TREE CLEARING (TYP.)

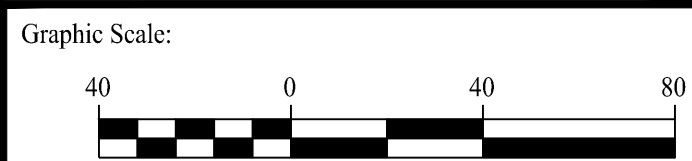
LIMITS OF DISTURBANCE (TYP.)

MATCHLINE - SEE SHEET 2.24

MATCHLINE - SEE SHEET 2.25

MATCHLINE - SEE SHEET 2.26

Rev. #:	Date	Description



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Checked By:	EEL
Approved By:	KMS
Project #:	22108801
Plan Date:	01/15/24
Scale:	1" = 40'

Kevin Solli, P.E.  
CT 25759

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

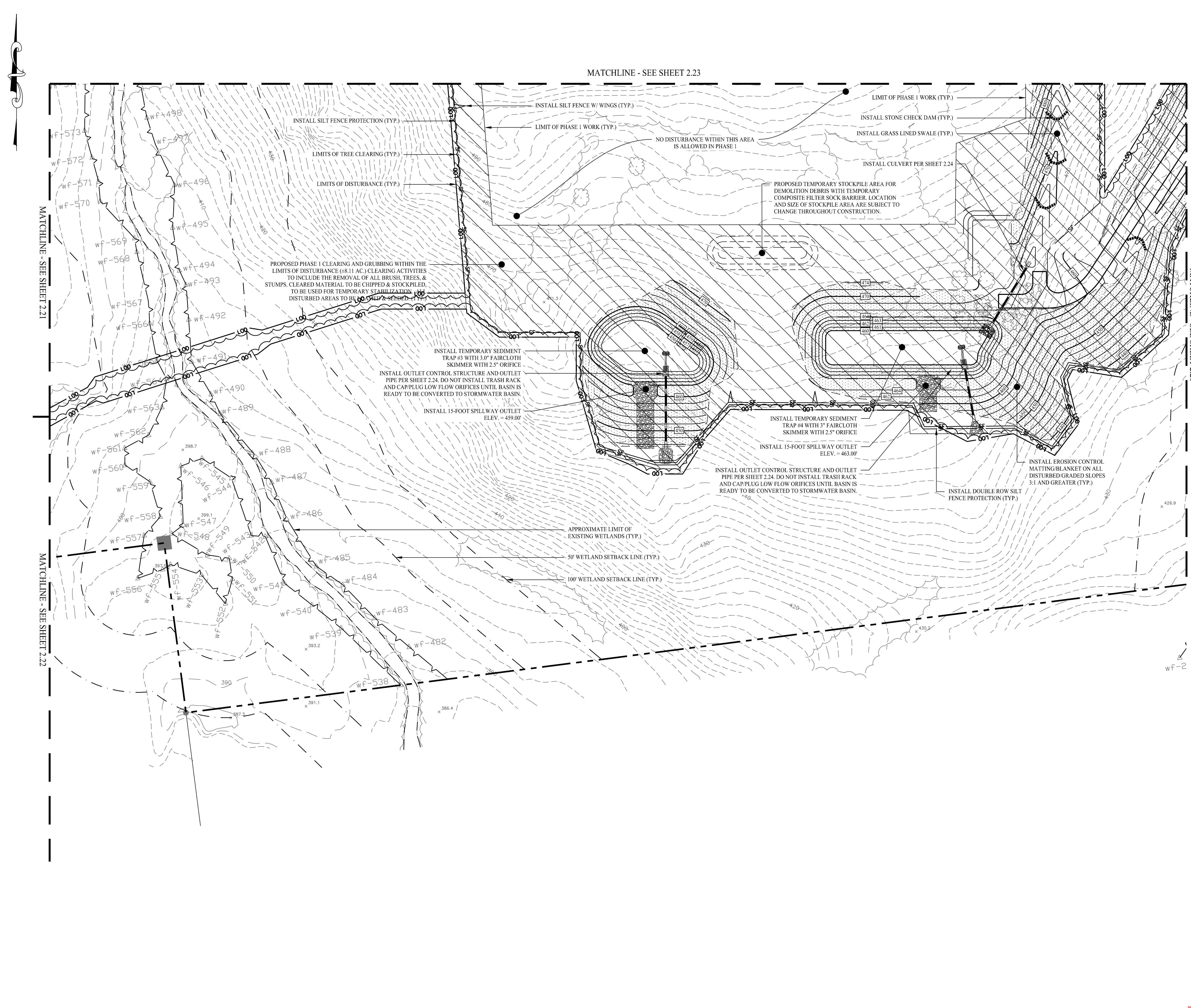
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SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I (SHEET 3 OF 6)

Sheet #:  
**2.31.3**

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**LEGEND**

	PROPERTY LINE
	LIMIT OF DISTURBANCE
	SILT FENCE PROTECTION
	FENCE / ROCK WALL REMOVAL
	STONE CHECK DAM
	MATERIAL STOCKPILE AREA
	CONSTRUCTION ENTRANCE
	EROSION CONTROL MATTING
	PHASE 1 CLEARING AND GRUBBING

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Checked By:	EEL	
Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

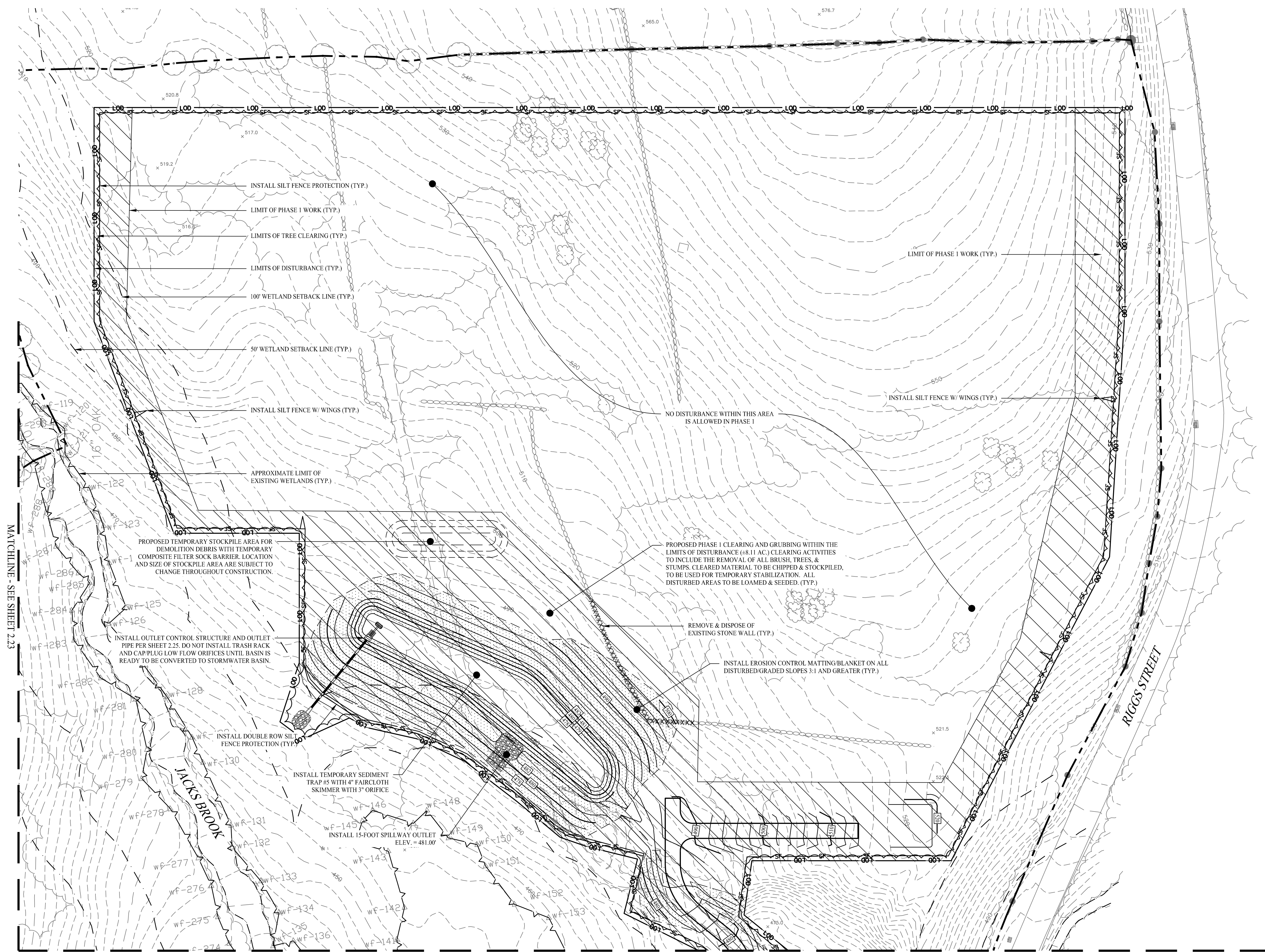
Sheet Title:	SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I (SHEET 4 OF 6)	Sheet #:	2.31.4
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LEGEND	
	PROPERTY LINE
	LIMIT OF DISTURBANCE
	SILT FENCE PROTECTION
	FENCE / ROCK WALL REMOVAL
	STONE CHECK DAM
	MATERIAL STOCKPILE AREA
	CONSTRUCTION ENTRANCE
	EROSION CONTROL MATTING
	PHASE 1 CLEARING AND GRUBBING



MATCHLINE - SEE SHEET 2.23

MATCHLINE - SEE SHEET 2.26

Rev. #: _____ Date _____ Description _____		
Graphic Scale: 		
<b>SOLLI ENGINEERING</b>		
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Drawn By: CSH	Checked By: EEL	
Approved By: KMS	Project #: 22108801	
Plan Date: 01/15/24	Scale: 1" = 40'	
Project:		Kevin Solli, P.E. CT 25759
<b>PROPOSED SOLAR PHOTOVOLTAIC ARRAY</b> RIGGS STREET OXFORD, CONNECTICUT		
Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I (SHEET 5 OF 6)	2.31.5	




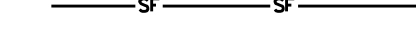
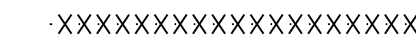


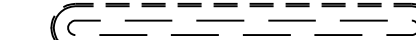
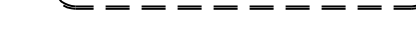
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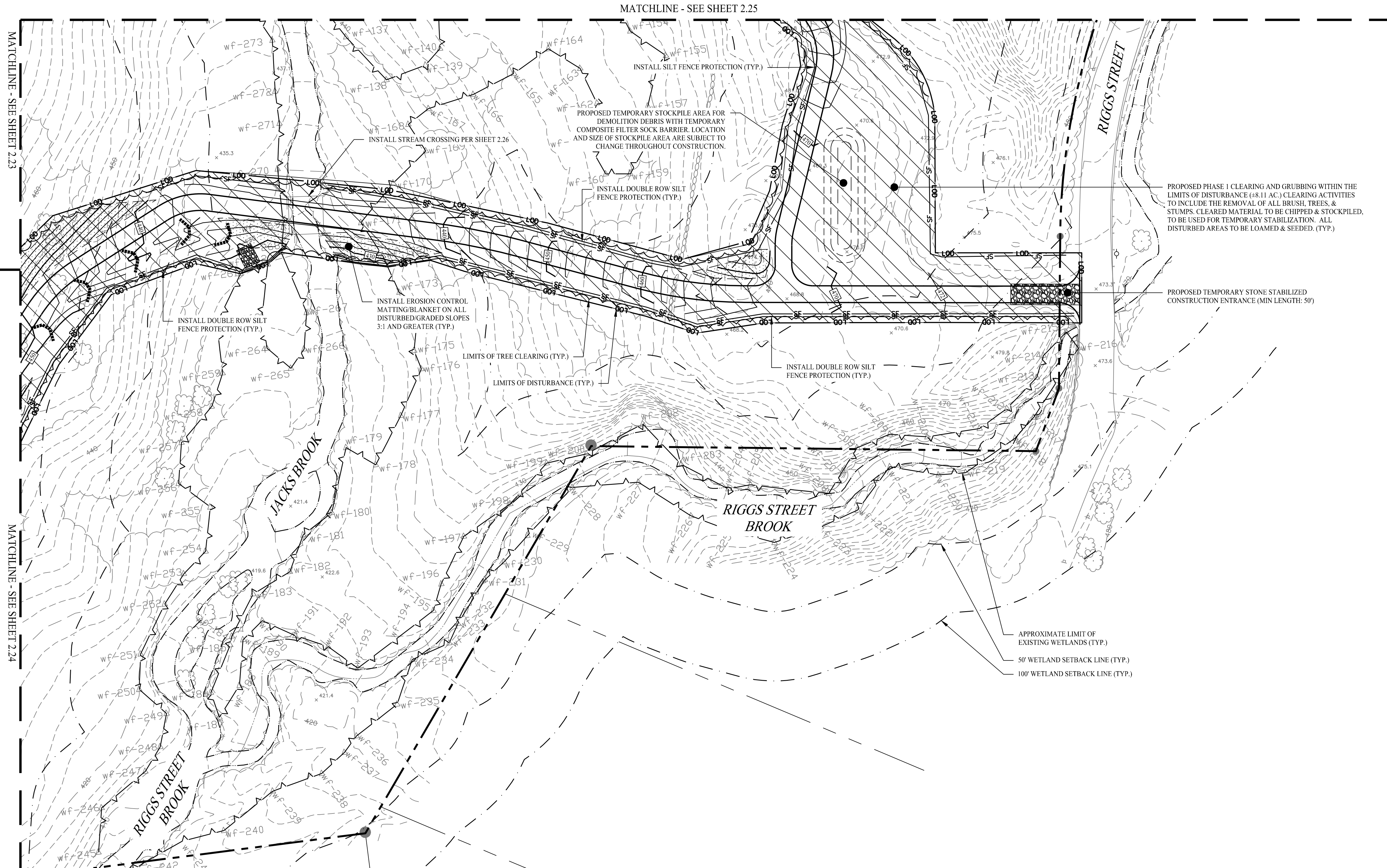
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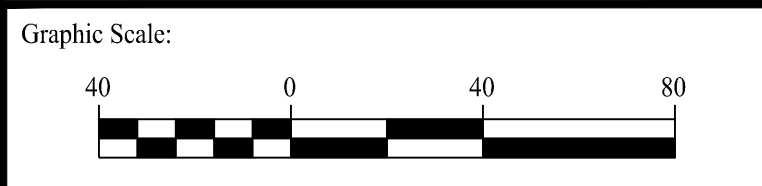


LEGEND

-  PROPERTY LINE
-  LIMIT OF DISTURBANCE
-  SILT FENCE PROTECTION
-  FENCE / ROCK WALL REMOVAL
-  STONE CHECK DAM
-  MATERIAL STOCKPILE AREA
-  CONSTRUCTION ENTRANCE
-  EROSION CONTROL MATTING
-  PHASE 1 CLEARING AND GRUBBING



Rev. #:	Date	Description



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Approved By:	KMS	
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Plan Date:	01/15/24	
Scale:	1" = 40'	

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title:	SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I (SHEET 6 OF 6)	Sheet #:	<b>2.31.6</b>
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**SEDIMENT & EROSION CONTROL NARRATIVE**

1. THE PROJECT INVOLVES THE CONSTRUCTION OF A GROUND MOUNTED SOLAR PANEL FACILITY WITH ASSOCIATED EQUIPMENT, INCLUDING GRADING OF APPROXIMATELY 30.3+ ACRES OF EXISTING LOT.

THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:

- A. CLEARING, GRUBBING, AND GRADING OF EXISTING LOT.
- B. CONSTRUCTION OF 11,970 GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT.
- C. THE STABILIZATION OF DISTURBED AREAS WITH PERMANENT VEGETATIVE TREATMENTS.

2. FOR THIS PROJECT, THERE ARE APPROXIMATELY 30.3+ ACRES OF THE SITE BEING DISTURBED WITH NEGLIGIBLE INCREASE IN THE IMPERVIOUS AREA OF THE SITE. IMPERVIOUS AREAS ARE LIMITED TO THE CONCRETE PADS FOR ELECTRICAL EQUIPMENT & GRAVEL ACCESS DRIVE.

3. THE PROJECT AREA, AS MAPPED IN THE SOIL SURVEY OF STATE OF CONNECTICUT (NRCS, VERSION 18, DEC 6, 2018), CONTAINS TYPE 62C, 73C, 73E, 102 (HYDROLOGIC SOIL GROUP B), 84B, 84C, 84D, 86C (HYDROLOGIC SOIL GROUP C) 3, & 75E (HYDROLOGIC SOIL GROUP D). A GEOTECHNICAL ENGINEERING REPORT IS SCHEDULED AND WILL BE PROVIDED UNDER SEPARATE COVER.

4. IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 4-6 MONTHS.

5. REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.

6. STORMWATER MANAGEMENT DESIGN CRITERIA UTILIZES THE APPLICABLE SECTIONS OF THE 2024 CONNECTICUT STORMWATER QUALITY MANUAL AND THE TOWN OF OXFORD 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.

7. 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.

8. 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.

9. THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN:

- A. STORMWATER MANAGEMENT REPORT.
- B. SWPCP, TO BE ISSUED AT A LATER DATE.

**CONSTRUCTION SEQUENCE (PHASE II)**

**PHASE II:**

1. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
2. INSTALL SOLAR PANELS AND COMPLETE ELECTRIC INSTALLATION.
3. COMPLETE REMAINING SITE WORK, INCLUDING CHAIN LINK FENCE, EQUIPMENTS PADS, AND INTERCONNECTION ROUTE. STABILIZE ALL DISTURBED AREAS THROUGHOUT CONSTRUCTION.
4. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
5. PER APPENDIX I (X) (X) (X) (X) 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.
6. CONVERT SEDIMENT TRAPS TO PERMANENT STORMWATER BASINS. REPAIR ALL BASIN BANKS AS REQUIRED. INSTALL FOREBAYS & LOW FLOW ORIFICES IN OUTLET CONTROL STRUCTURES.
7. REPAIR AND STABILIZE GRASS LINED SWALE AS REQUIRED.
8. PREPARE SITE FOR FINAL GRADING.
9. FINE GRADE, RAKE, SEED, AND MULCH ALL REMAINING DISTURBED AREAS.
10. CONTRACTOR / CONSTRUCTION MANAGER TO COORDINATE WITH ENGINEER OF RECORD AND SOIL CONSERVATION DISTRICT AGENT TO OBTAIN STABILIZED SITE STATUS.
11. CONTINUE DAILY INSPECTION REPORTS UNTIL THE FINAL DAILY INSPECTION REPORT IS SIGNED BY THE CONSTRUCTION MANAGER AND SUBMITTED.

SHEET 2.32.1

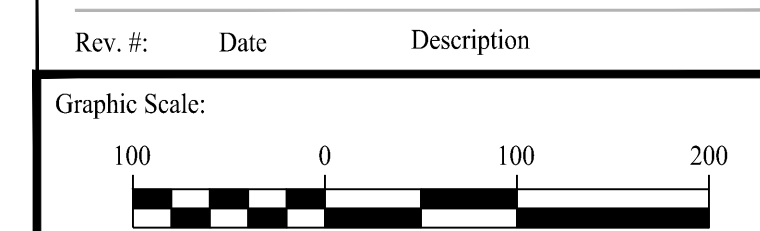
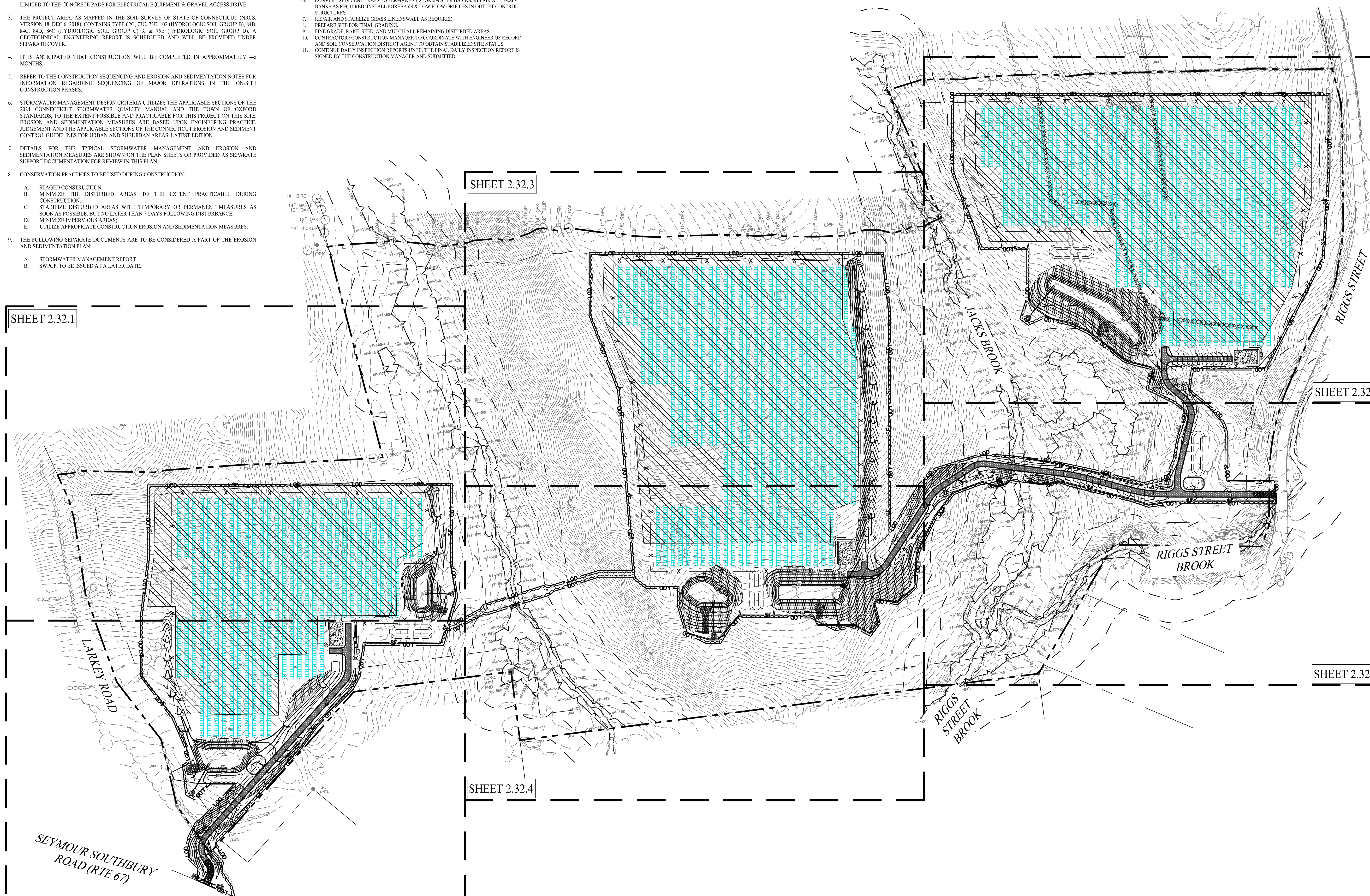
SHEET 2.32.3

SHEET 2.32.5

SHEET 2.32.6

SHEET 2.32.4

SHEET 2.32.2



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Checked By:	EEL
Approved By:	KMS
Project #:	22108801
Plan Date:	01/15/24
Scale:	1" = 100'
Kevin Solli, P.E. CT 25759	

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title:	Sheet #:
OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 2	2.32







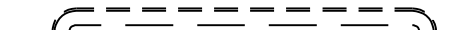


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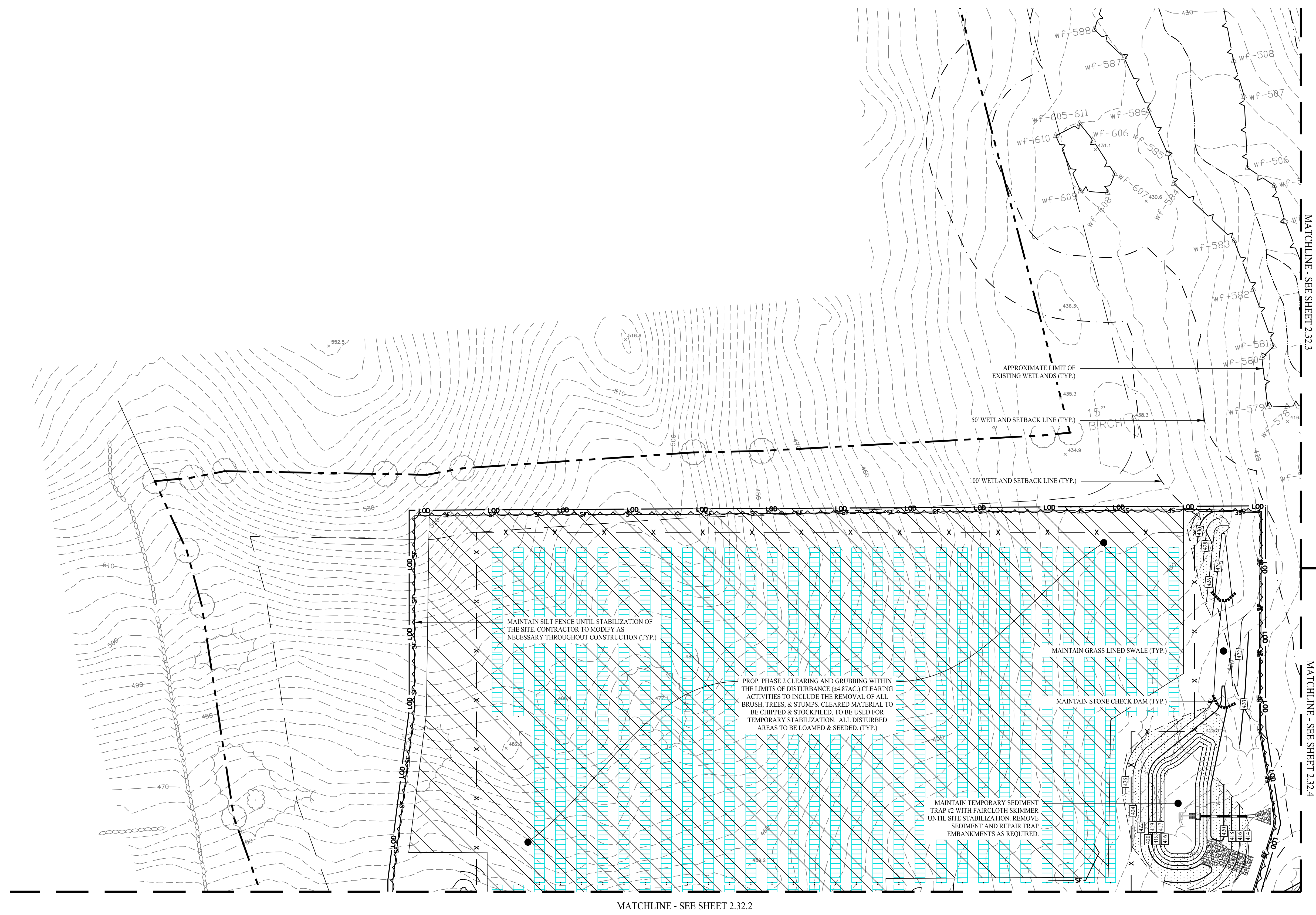
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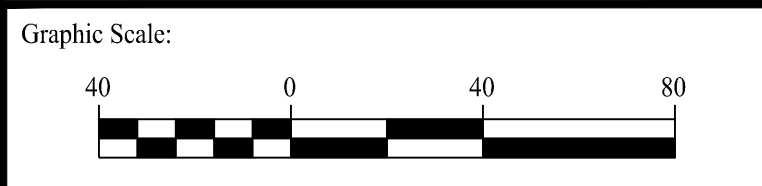


LEGEND

-  PROPERTY LINE
-  LIMIT OF DISTURBANCE
-  SILT FENCE PROTECTION
-  FENCE / ROCK WALL REMOVAL
-  STONE CHECK DAM
-  MATERIAL STOCKPILE AREA
-  CONSTRUCTION ENTRANCE
-  CONCRETE WASHPIT
-  PHASE 2 CLEARING AND GRUBBING



Rev. #:	Date	Description



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Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

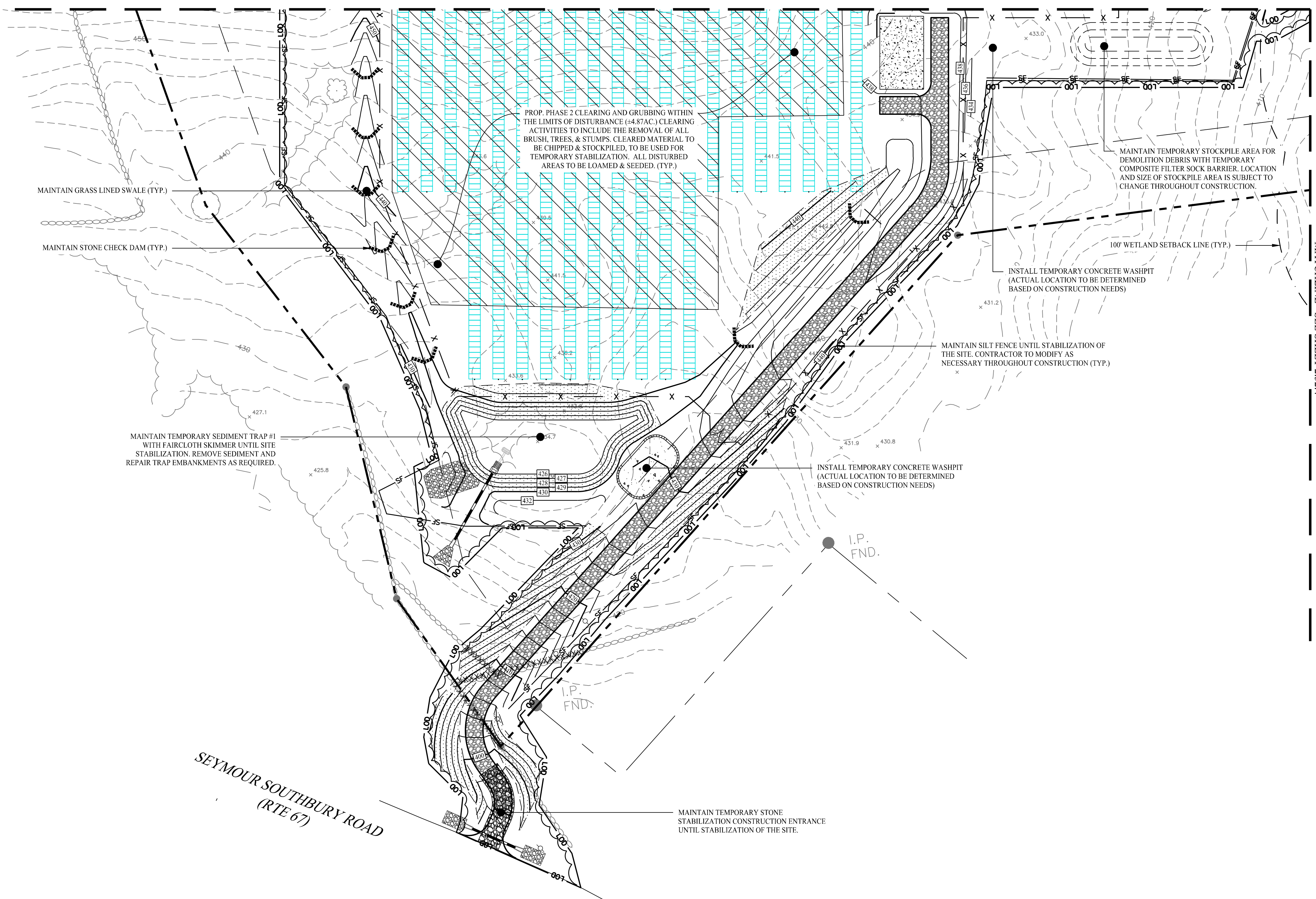
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MATCHLINE - SEE SHEET 2.32.1



LEGEND

- PROPERTY LINE
- LIMIT OF DISTURBANCE
- SILT FENCE PROTECTION
- FENCE / ROCK WALL REMOVAL
- STONE CHECK DAM
- MATERIAL STOCKPILE AREA
- CONSTRUCTION ENTRANCE
- CONCRETE WASHPIT
- PHASE 2 CLEARING AND GRUBBING

MAINTAIN GRASS LINED SWALE (TYP.)  
MAINTAIN STONE CHECK DAM (TYP.)

PROP. PHASE 2 CLEARING AND GRUBBING WITHIN THE LIMITS OF DISTURBANCE (44.57AC). CLEARING ACTIVITIES TO INCLUDE THE REMOVAL OF ALL BRUSH, TREES, & STUMPS. CLEARED MATERIAL TO BE CHIPPED & STOCKPILED, TO BE USED FOR TEMPORARY STABILIZATION. ALL DISTURBED AREAS TO BE LOAMED & SEEDED. (TYP.)

MAINTAIN TEMPORARY STOCKPILE AREA FOR DEMOLITION DEBRIS WITH TEMPORARY COMPOSITE FILTER SOCK BARRIER. LOCATION AND SIZE OF STOCKPILE AREA IS SUBJECT TO CHANGE THROUGHOUT CONSTRUCTION.

INSTALL TEMPORARY CONCRETE WASHPIT (ACTUAL LOCATION TO BE DETERMINED BASED ON CONSTRUCTION NEEDS)

100' WETLAND SETBACK LINE (TYP.)

MAINTAIN SILT FENCE UNTIL STABILIZATION OF THE SITE. CONTRACTOR TO MODIFY AS NECESSARY THROUGHOUT CONSTRUCTION (TYP.)

MAINTAIN TEMPORARY SEDIMENT TRAP #1 WITH FAIRCLOTH SKIMMER UNTIL SITE STABILIZATION. REMOVE SEDIMENT AND REPAIR TRAP EMBANKMENTS AS REQUIRED.

INSTALL TEMPORARY CONCRETE WASHPIT (ACTUAL LOCATION TO BE DETERMINED BASED ON CONSTRUCTION NEEDS)

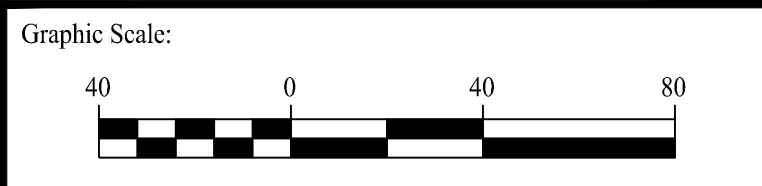
I.P. FND.

MAINTAIN TEMPORARY STONE STABILIZATION CONSTRUCTION ENTRANCE UNTIL STABILIZATION OF THE SITE.

SEYMOUR SOUTHBURY ROAD  
(RTE 67)

MATCHLINE - SEE SHEET 2.32.4

Rev. #:	Date	Description



**SOLLI ENGINEERING**  
 501 Main Street, Monroe, CT 06468 T: (203) 880-5455 F: (203) 880-9695  
 11 Vanderbilt Ave., Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By:	CSH	Kevin Solli, P.E. CT 25759
Checked By:	EEL	
Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	

Project:  
**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
RIGGS STREET  
OXFORD, CONNECTICUT

Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 2 (SHEET 2 OF 6)	Sheet #: <b>2.32.2</b>
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FOR PERMITTING ONLY

Jun 19, 2024 - 2:24pm chandy  
X:\SE Final\Project Data\2024\22108801 - Riggs Street - Oxford, CT\Cadd Data\22108801 - 2.32.dwg

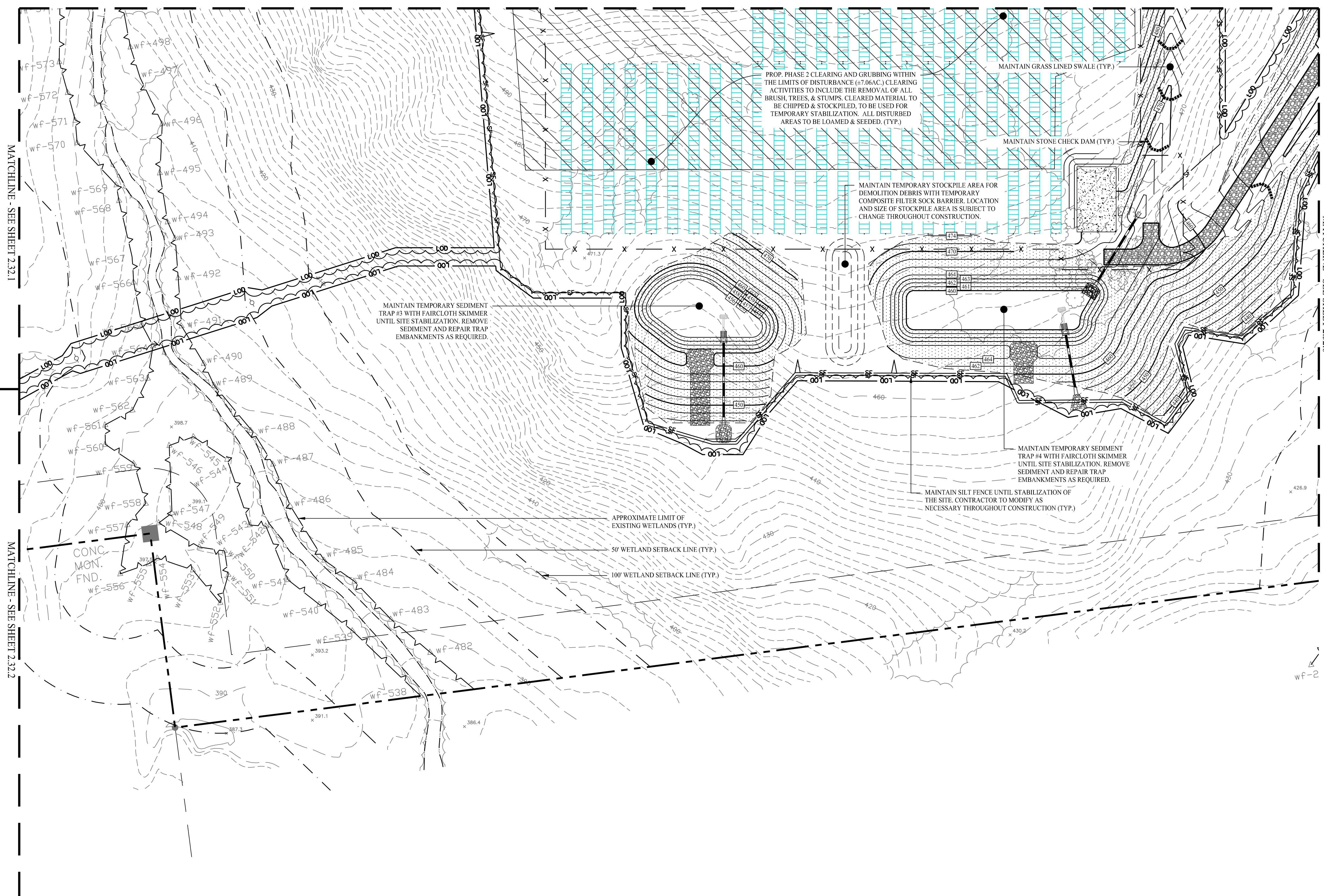








MATCHLINE - SEE SHEET 2.32.3



LEGEND

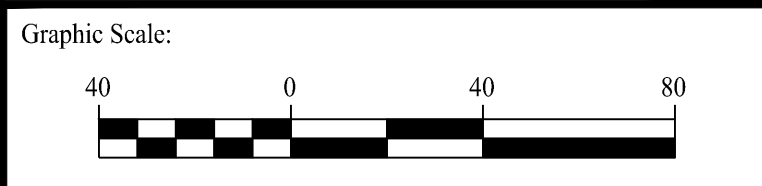
- PROPERTY LINE
- LIMIT OF DISTURBANCE
- SILT FENCE PROTECTION
- FENCE / ROCK WALL REMOVAL
- STONE CHECK DAM
- MATERIAL STOCKPILE AREA
- CONSTRUCTION ENTRANCE
- CONCRETE WASHPIT
- PHASE 2 CLEARING AND GRUBBING

MATCHLINE - SEE SHEET 2.32.1

MATCHLINE - SEE SHEET 2.32.2

MATCHLINE - SEE SHEET 2.32.6

Rev. #:	Date	Description



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 11 Vanderbilt Ave., Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By:	CSH	Kevin Solli, P.E. CT 25759
Checked By:	EEL	
Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 2 (SHEET 4 OF 6)	Sheet #: <b>2.32.4</b>
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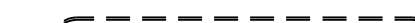
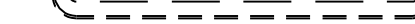

FOR PERMITTING ONLY

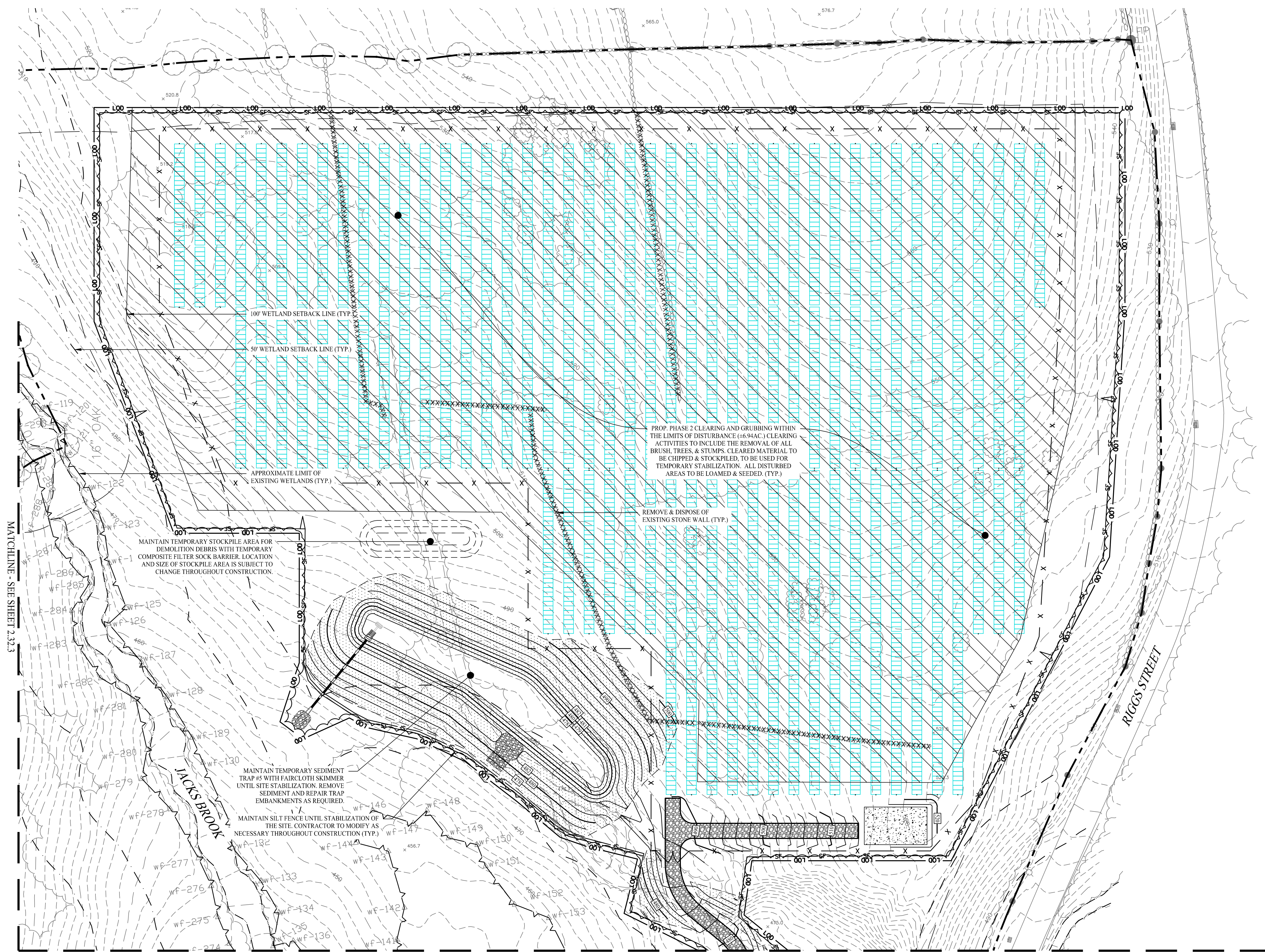
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LEGEND

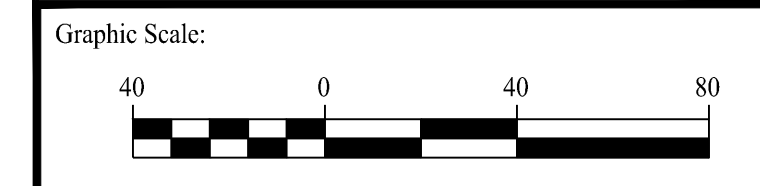
-  PROPERTY LINE
-  LIMIT OF DISTURBANCE
-  SILT FENCE PROTECTION
-  FENCE / ROCK WALL REMOVAL
-  STONE CHECK DAM
-  MATERIAL STOCKPILE AREA
-  CONSTRUCTION ENTRANCE
-  CONCRETE WASHPIT
-  PHASE 2 CLEARING AND GRUBBING



MATCHLINE - SEE SHEET 2.32.3

MATCHLINE - SEE SHEET 2.32.6

Rev. #:	Date	Description



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Drawn By:	CSH
Checked By:	EEL
Approved By:	KMS
Project #:	22108801
Plan Date:	01/15/24
Scale:	1" = 40'
Project:	Kevin Solli, P.E. CT 25759

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT





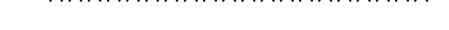

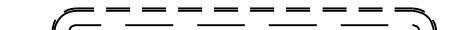


Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 2 (SHEET 5 OF 6)	Sheet #: <b>2.32.5</b>
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FOR PERMITTING ONLY

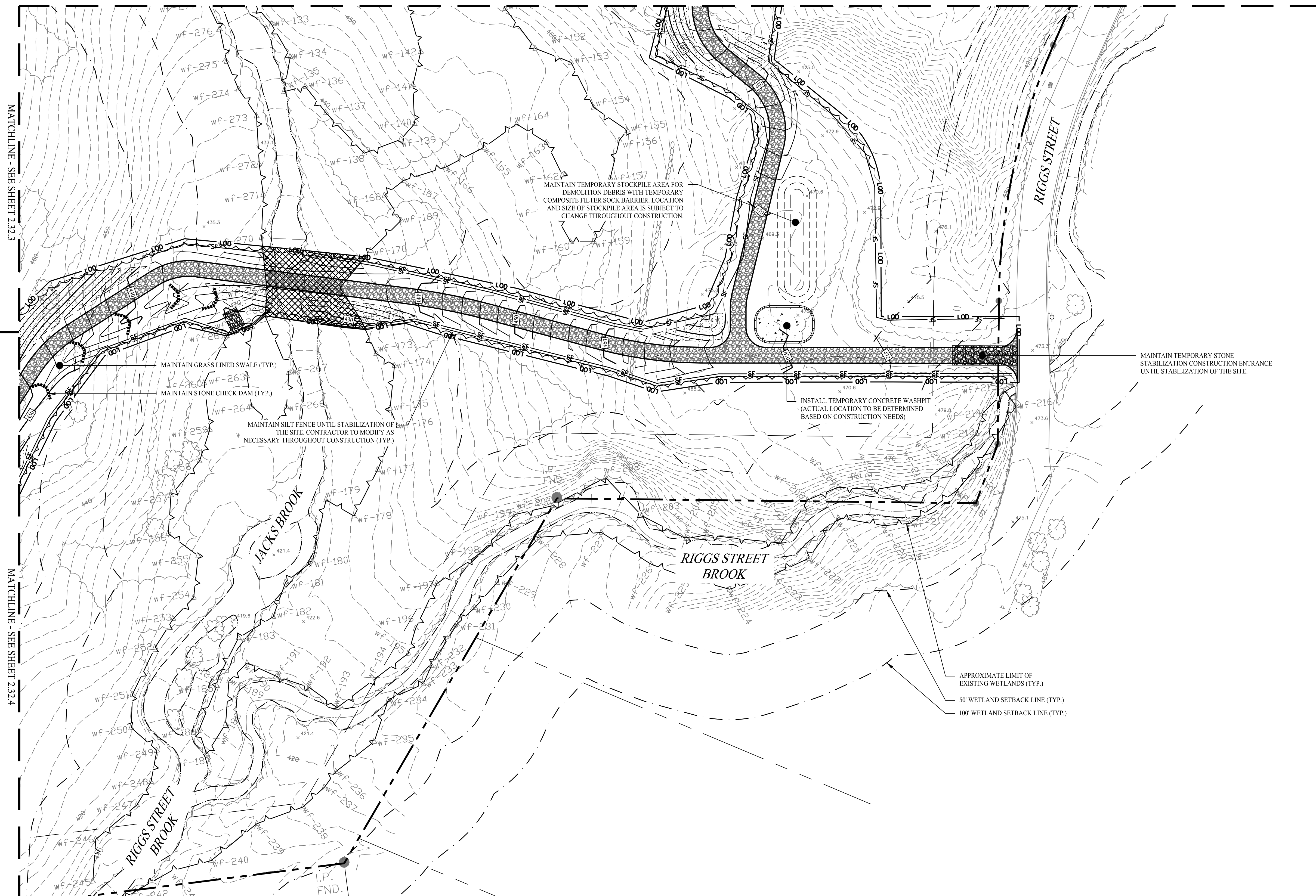
Jun 19, 2024 - 2:24pm chandy X:\SE Firm\Project Data\2024\22108801 - Riggs Street - Oxford, CT\Coord Data\22108801 - 2.32.dwg



LEGEND

-  PROPERTY LINE
-  LIMIT OF DISTURBANCE
-  SILT FENCE PROTECTION
-  FENCE / ROCK WALL REMOVAL
-  STONE CHECK DAM
-  MATERIAL STOCKPILE AREA
-  CONSTRUCTION ENTRANCE
-  CONCRETE WASHPIT
-  PHASE 2 CLEARING AND GRUBBING

MATCHLINE - SEE SHEET 2.32.5



MATCHLINE - SEE SHEET 2.32.3

MATCHLINE - SEE SHEET 2.32.4

MAINTAIN GRASS LINED SWALE (TYP.)  
MAINTAIN STONE CHECK DAM (TYP.)

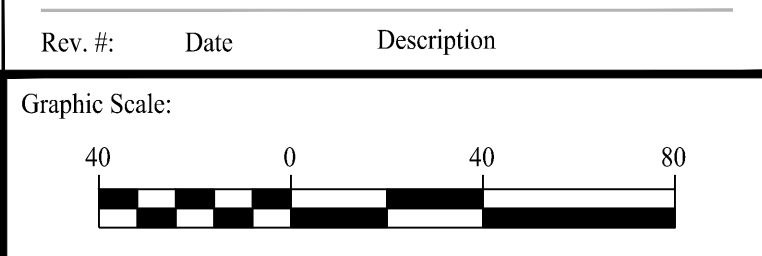
MAINTAIN SILT FENCE UNTIL STABILIZATION OF THE SITE. CONTRACTOR TO MODIFY AS NECESSARY THROUGHOUT CONSTRUCTION (TYP.)

MAINTAIN TEMPORARY STOCKPILE AREA FOR DEMOLITION DEBRIS WITH TEMPORARY COMPOSITE FILTER SOCK BARRIER. LOCATION AND SIZE OF STOCKPILE AREA IS SUBJECT TO CHANGE THROUGHOUT CONSTRUCTION.

INSTALL TEMPORARY CONCRETE WASHPIT (ACTUAL LOCATION TO BE DETERMINED BASED ON CONSTRUCTION NEEDS)

MAINTAIN TEMPORARY STONE STABILIZATION CONSTRUCTION ENTRANCE UNTIL STABILIZATION OF THE SITE.

APPROXIMATE LIMIT OF EXISTING WETLANDS (TYP.)  
50' WETLAND SETBACK LINE (TYP.)  
100' WETLAND SETBACK LINE (TYP.)



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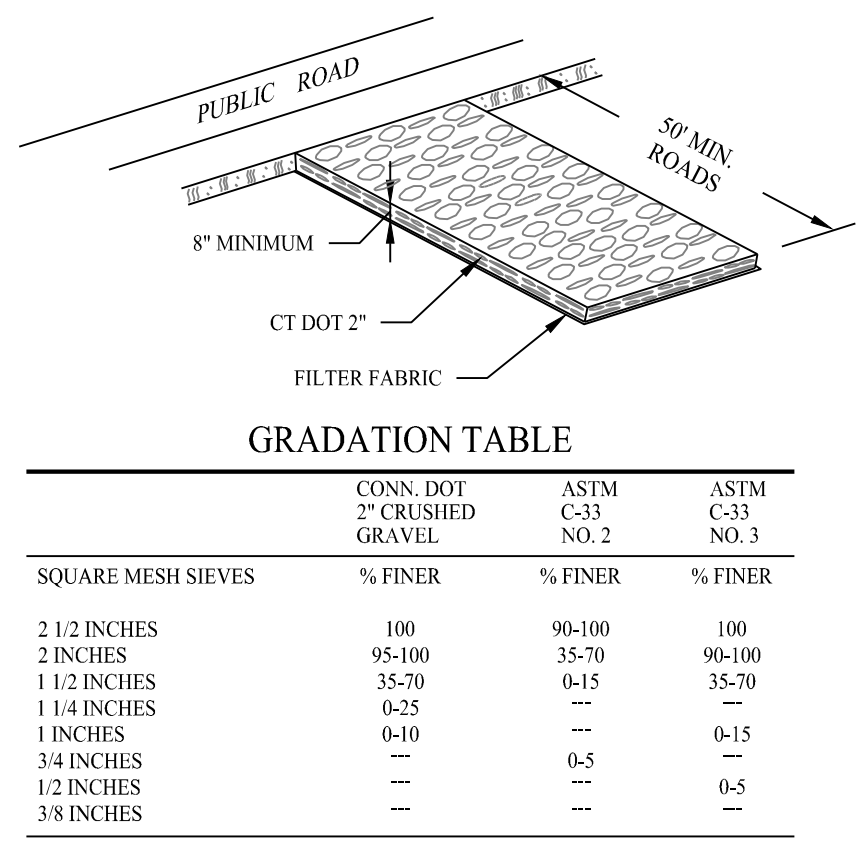
Drawn By:	CSH	Kevin Solli, P.E. CT 25759
Checked By:	EEL	
Approved By:	KMS	
Project #:	22108801	
Plan Date:	01/15/24	
Scale:	1" = 40'	

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN PHASE 2 (SHEET 6 OF 6)	Sheet #: <b>2.32.6</b>
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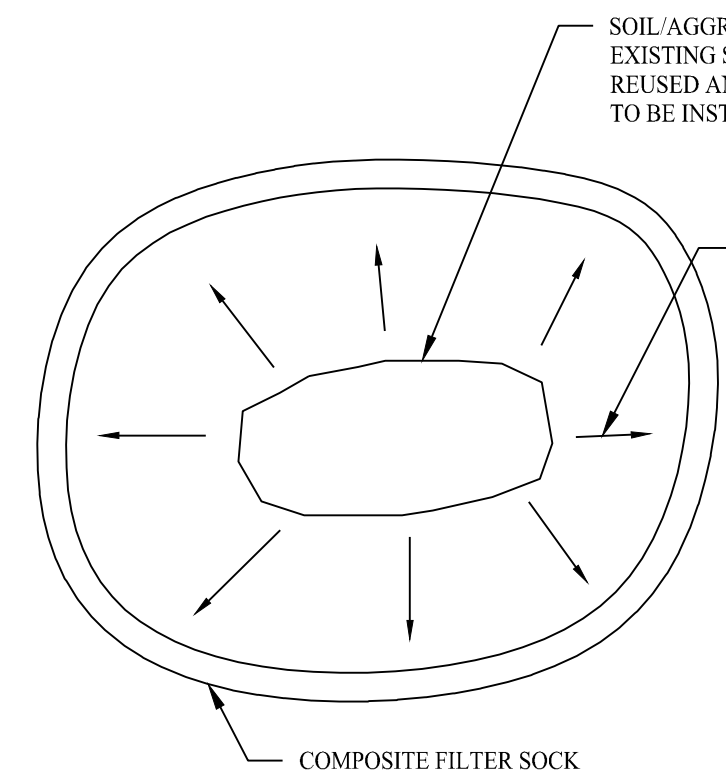
**GRADATION TABLE**

SQUARE MESH SIEVES	% FINER	ASTM C-33 NO. 2	ASTM C-33 NO. 3
2 1/2 INCHES	100	96-100	100
2 INCHES	95-100	35-70	90-100
1 1/2 INCHES	35-70	6-15	35-70
1 1/4 INCHES	0-25	---	---
1 INCHES	0-10	---	0-15
3/4 INCHES	---	0-5	---
1/2 INCHES	---	---	0-5
3/8 INCHES	---	---	---

SOURCE: U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT

**CONSTRUCTION ENTRANCE**

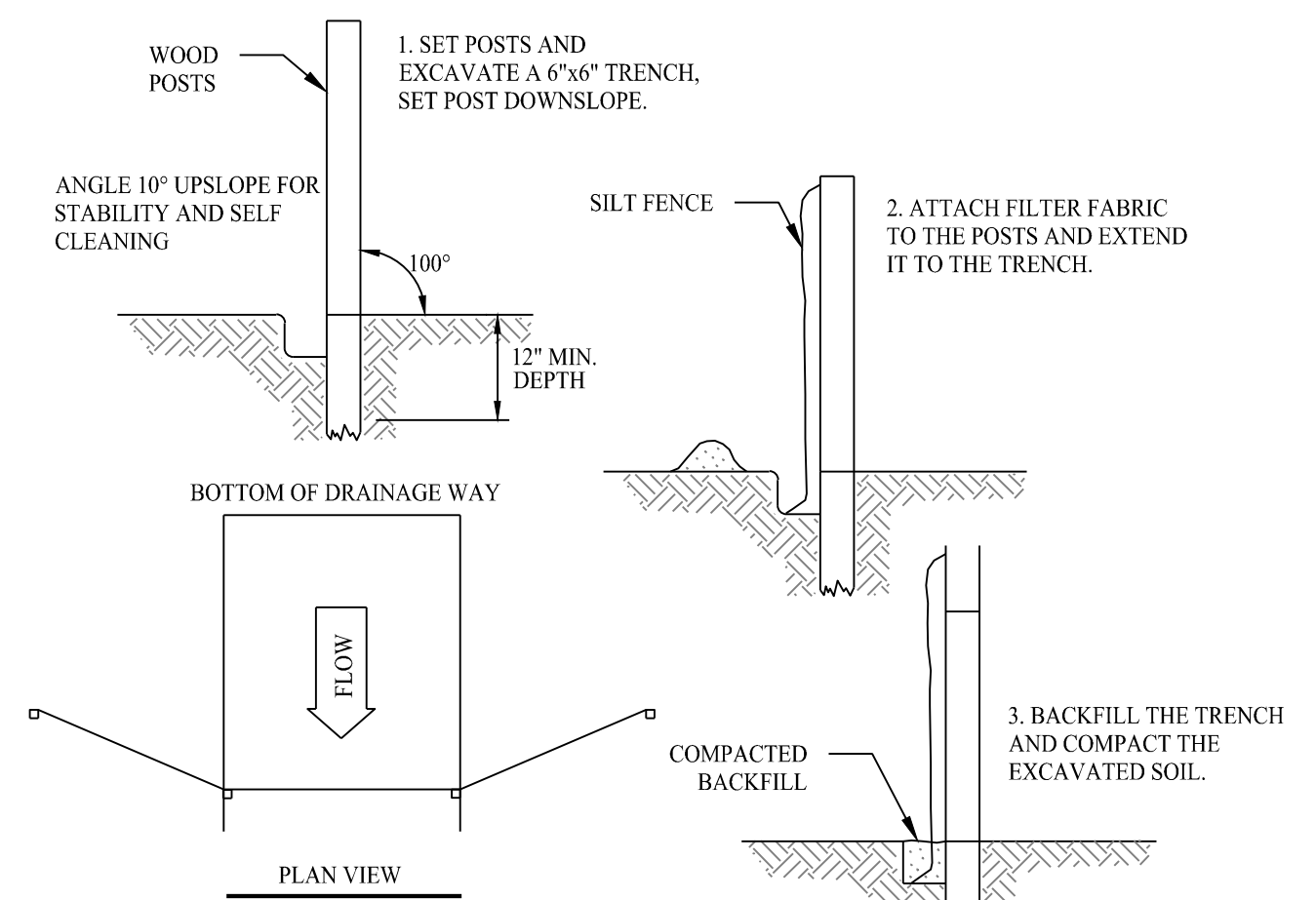
SCALE: NTS



- 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 OR WHERE APPROVED BY CIVIL ENGINEER.
  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.

**MATERIALS STOCKPILE DETAIL**

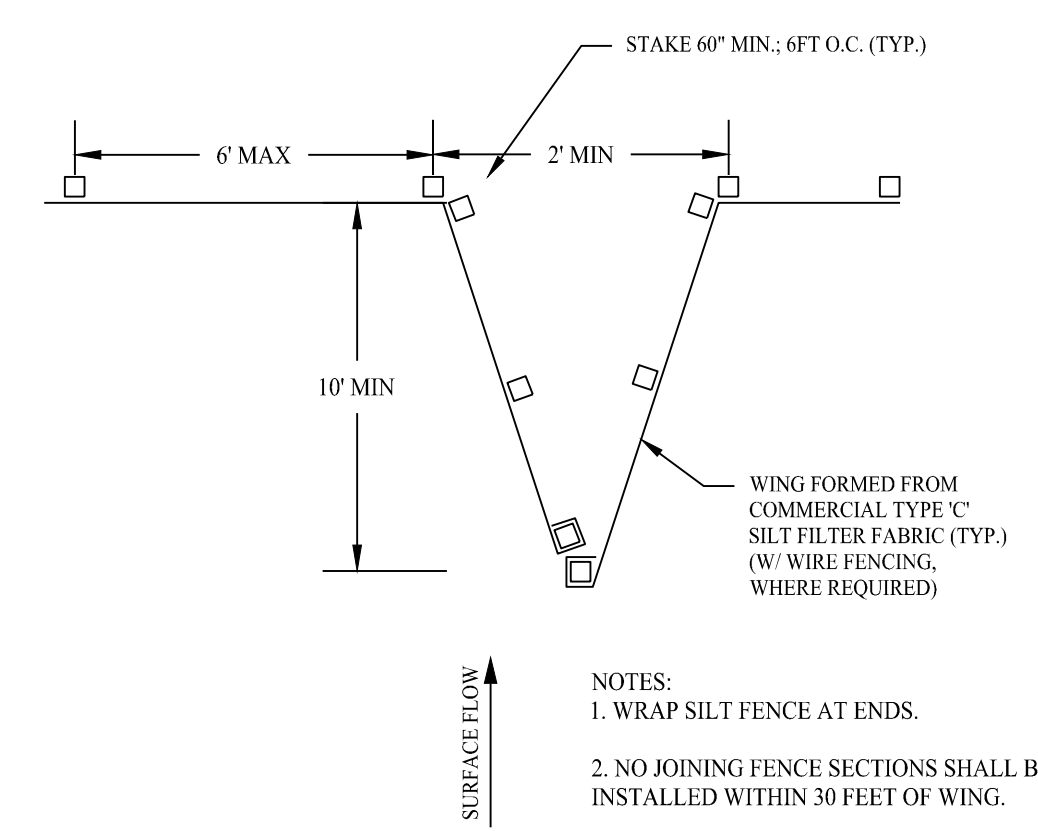
SCALE: NTS



WHEREVER SILT FENCE RUNS ACROSS OR PERPENDICULAR TO SURFACE CONTOURS, 10-FOOT LONG WINGS OF SILT FENCE PLACED PERPENDICULAR TO THE MAIN RUN OF SILT FENCE SHOULD BE PROVIDED AT APPROXIMATE INTERVALS OF 50-FEET.

**SILT FENCE PROTECTION DETAIL**

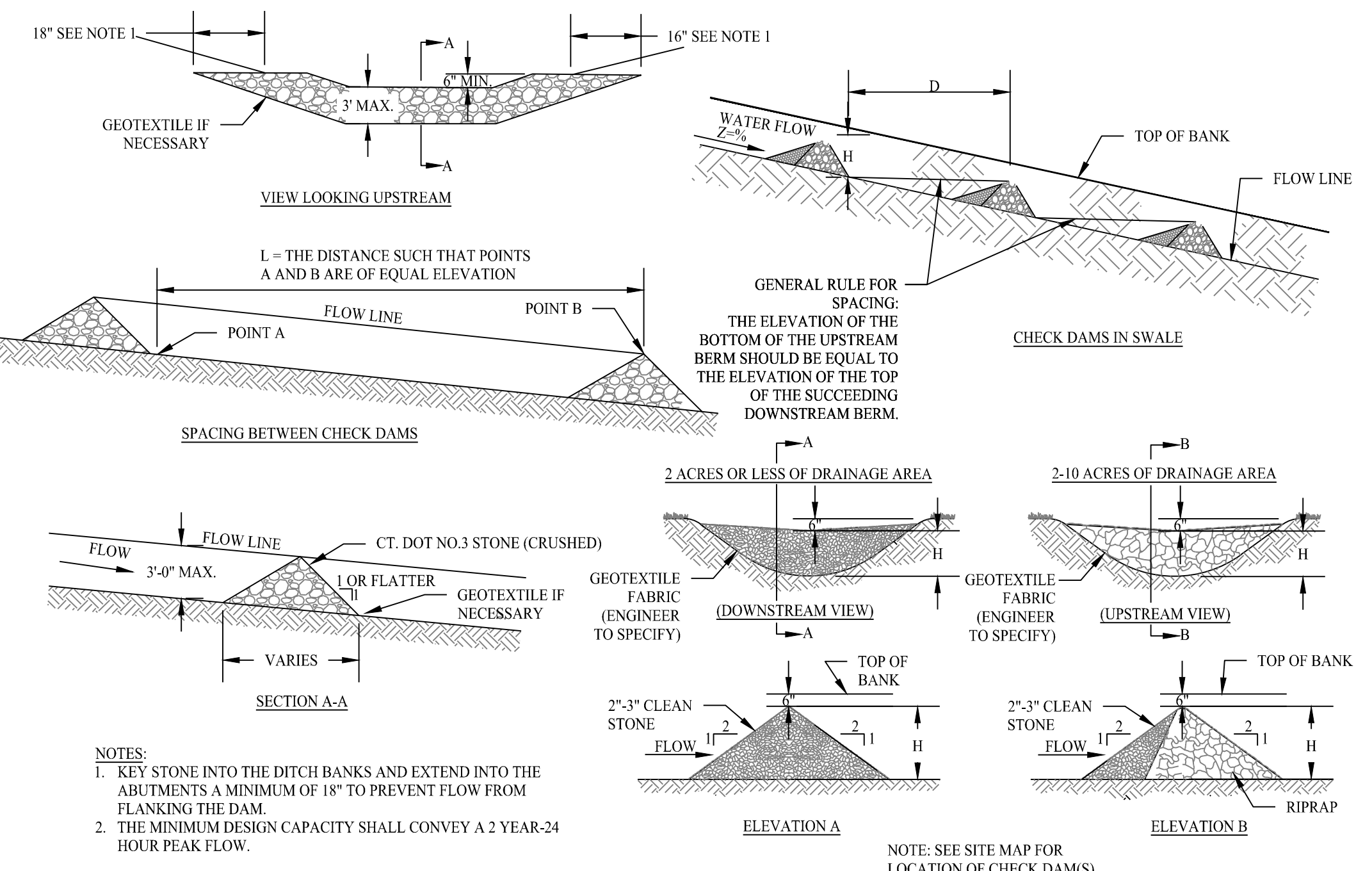
SCALE: NTS



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

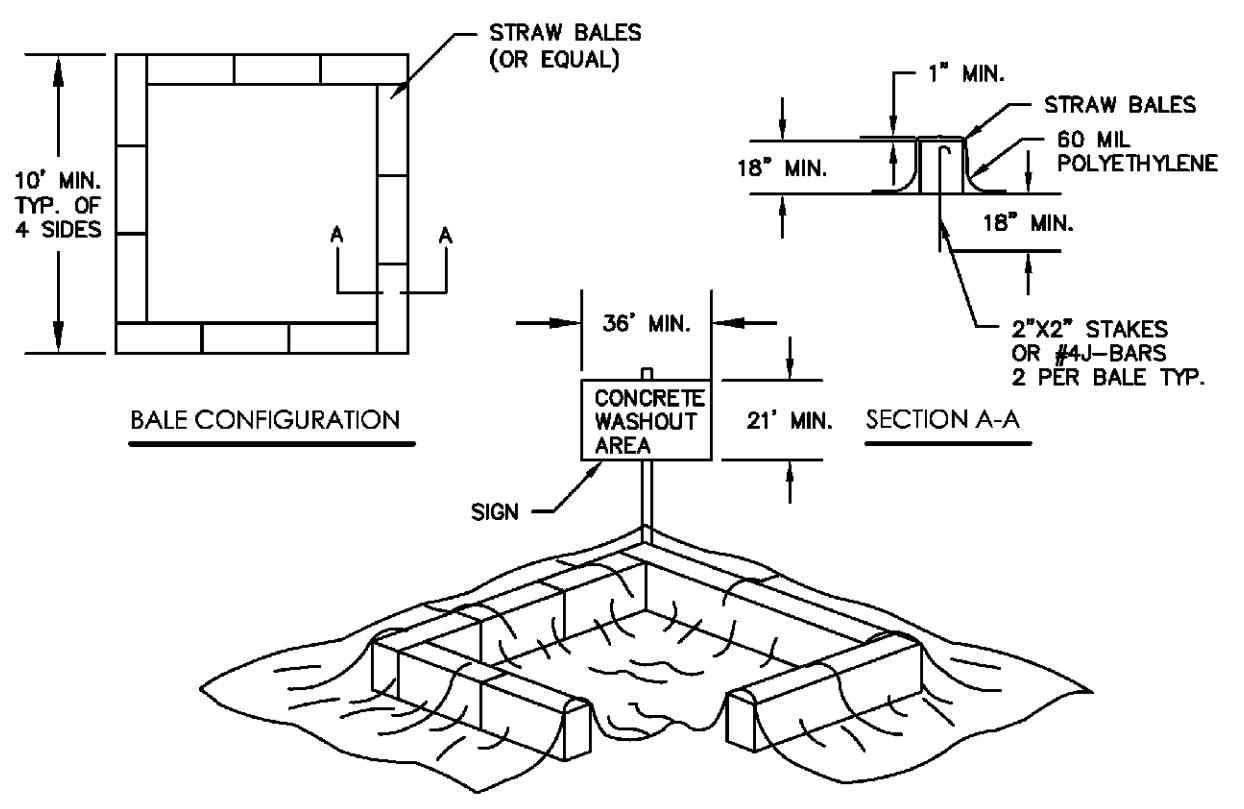
**SILT FENCE WING DETAIL**

SCALE: NTS



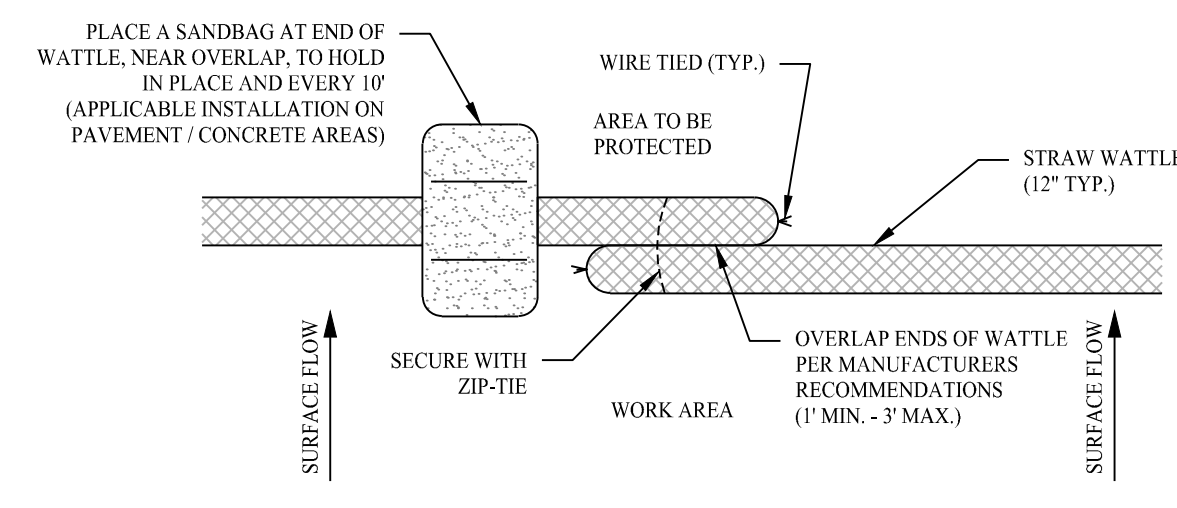
**STONE CHECK DAM DETAIL**

SCALE: NTS



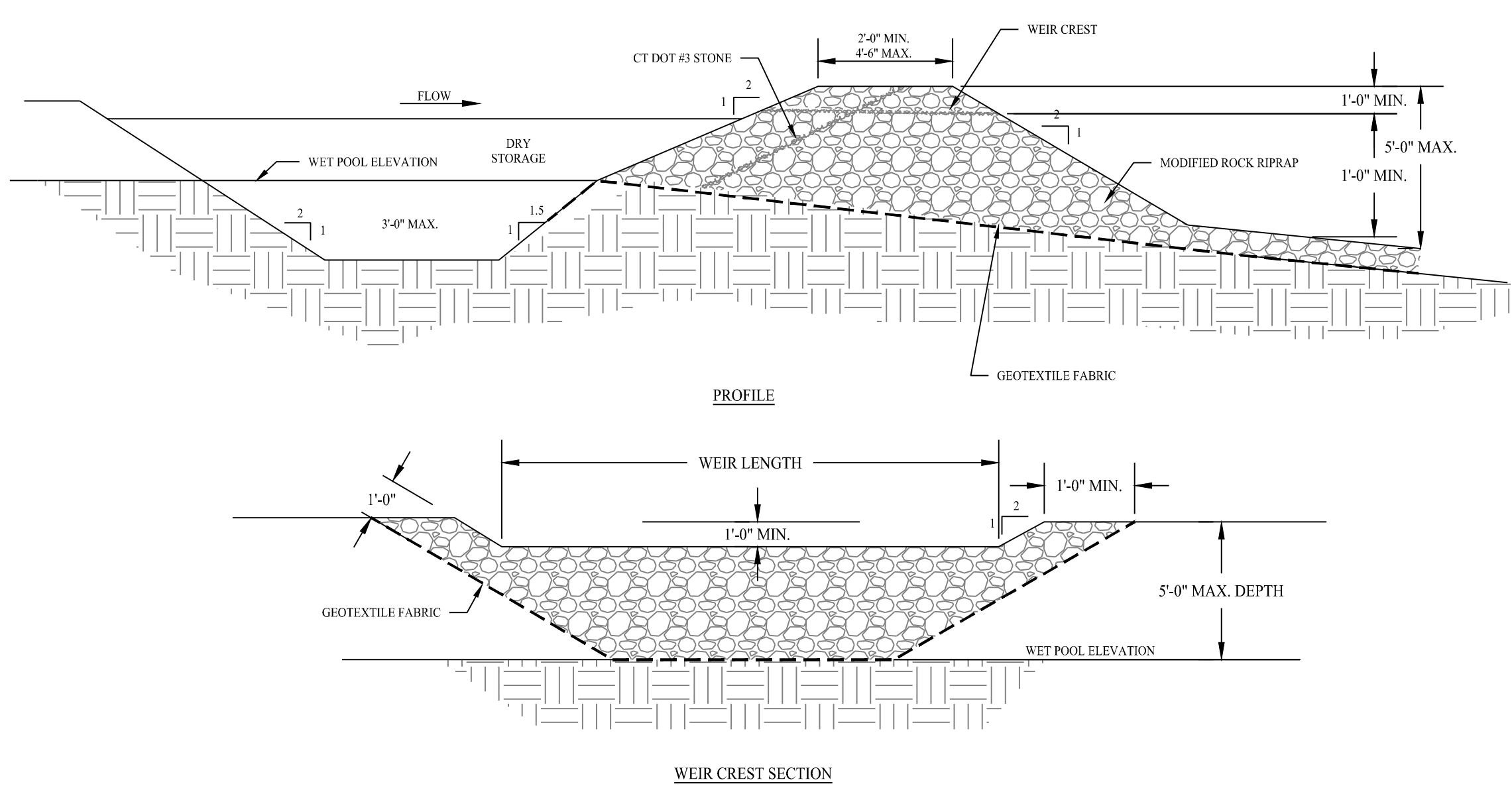
**CONCRETE WASHOUT PIT**

SCALE: NTS



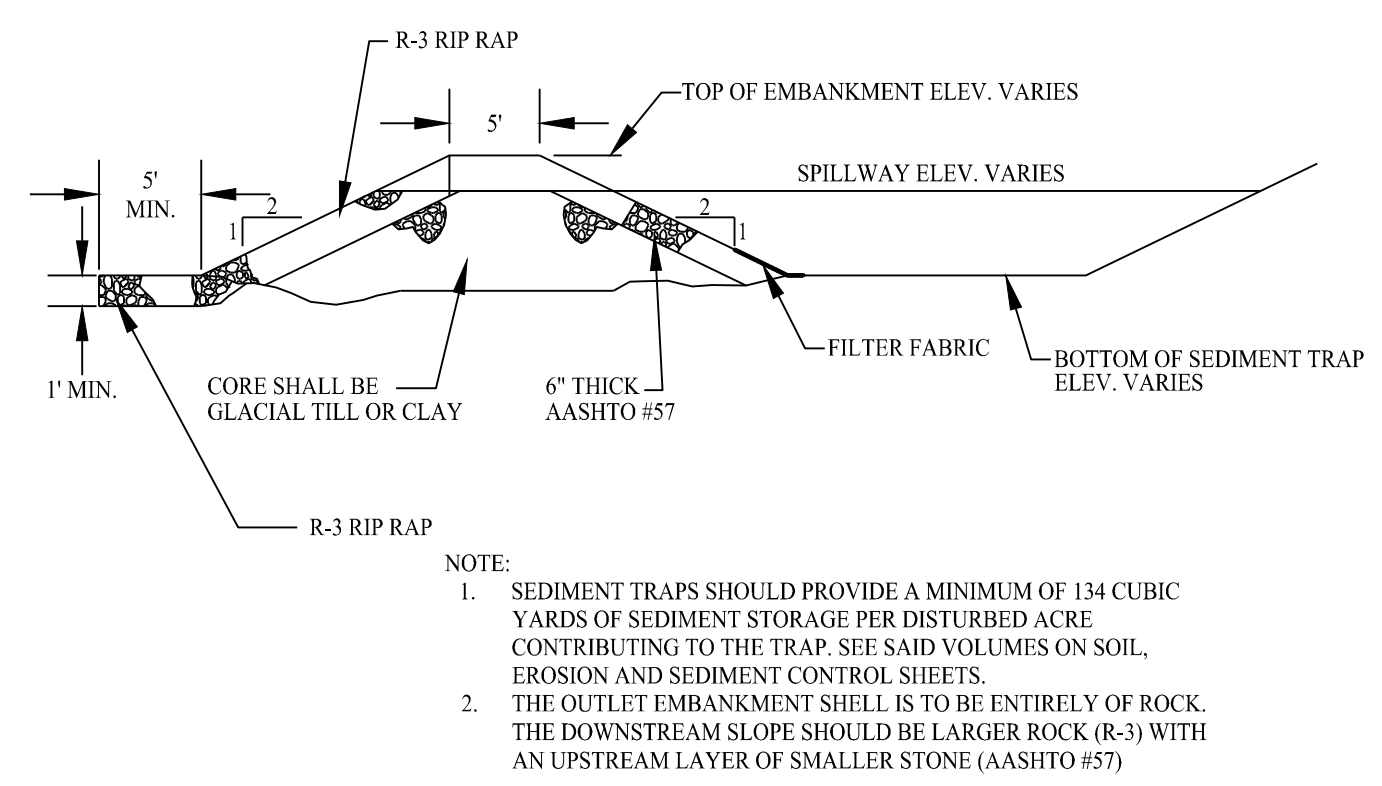
**COMPOSITE FILTER SOCK**

SCALE: NTS



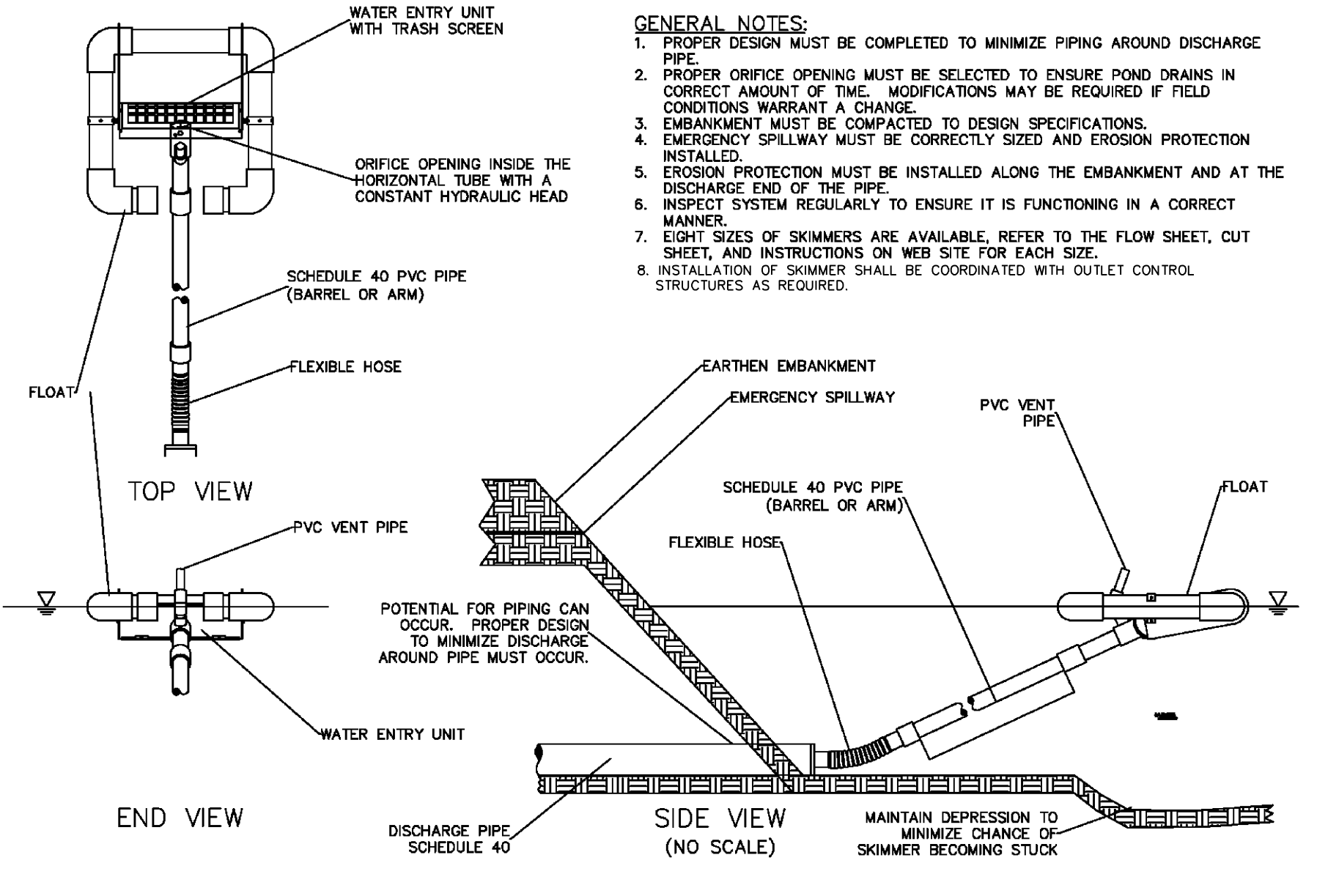
**EMERGENCY SPILLWAY DETAIL**

SCALE: NTS



**TYPICAL SEDIMENT TRAP DETAIL**

SCALE: NTS



**FAIRCLOTH SKIMMER DISCHARGE SYSTEM**

SCALE: NTS

PROVIDED BY: J. W. FAIRCLOTH & SON INC.

- GENERAL NOTES:**
1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
  2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
  3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
  4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
  5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
  6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
  7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.
  8. INSTALLATION OF SKIMMER SHALL BE COORDINATED WITH OUTLET CONTROL STRUCTURES AS REQUIRED.

Rev. #:	Date	Description



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Drawn By: AWC  
 Checked By: CJB  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: NTS

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS  
 Sheet #: 2.41

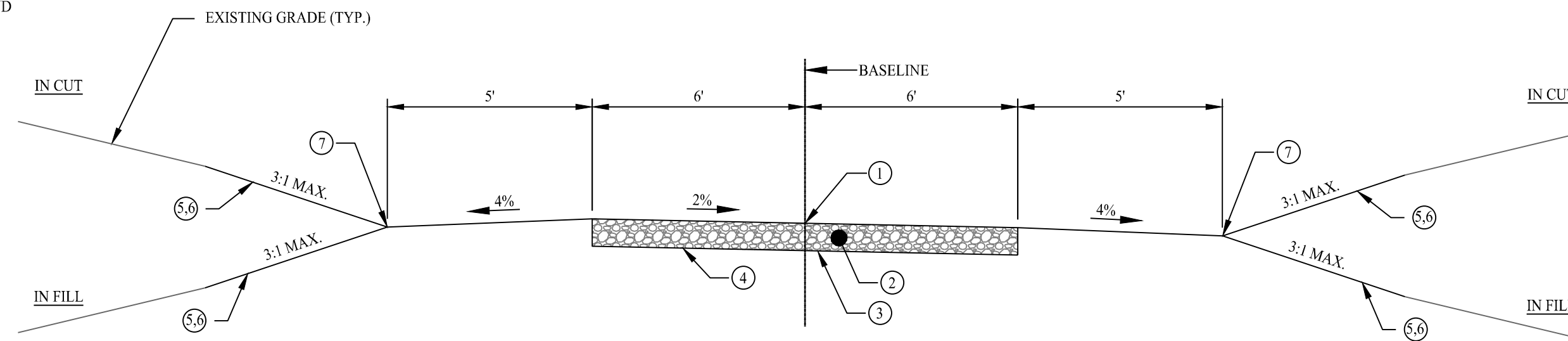
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Jan 19, 2024 - 2:25pm chmndy X:\SE Final\Project Data\2024\22108801 - Riggs Street - Oxford, CT\Coord Data\22108801 - 2.41.dwg

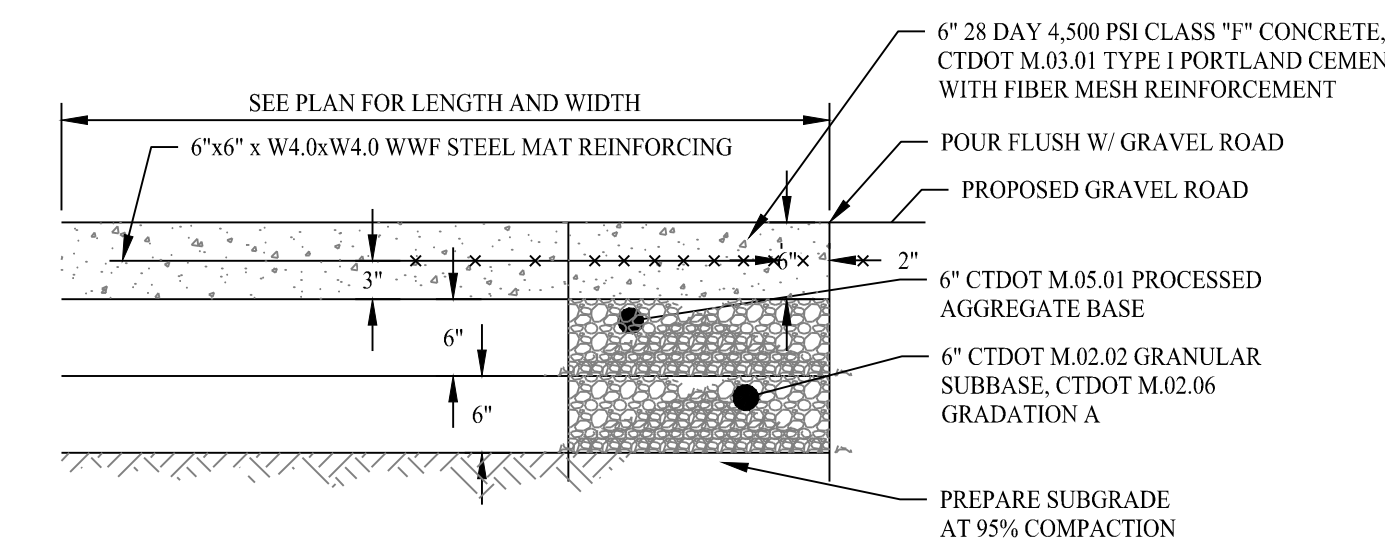


- 1 POINT OF APPLICATION OF GRADE OR MATCH EXISTING GROUND
- 2 8" LAYER CRUSHER RUN GRAVEL
- 3 NONWOVEN GEOTEXTILE (MIRAFI 140N OR EQUAL)
- 4 LIMIT OF EXCAVATION OR LIMIT OF COMPACTION
- 5 EROSION CONTROL BLANKET ON SLOPES 3:1 OR GREATER
- 6 6" TOPSOIL AND SEED
- 7 VEGETATED CHANNEL

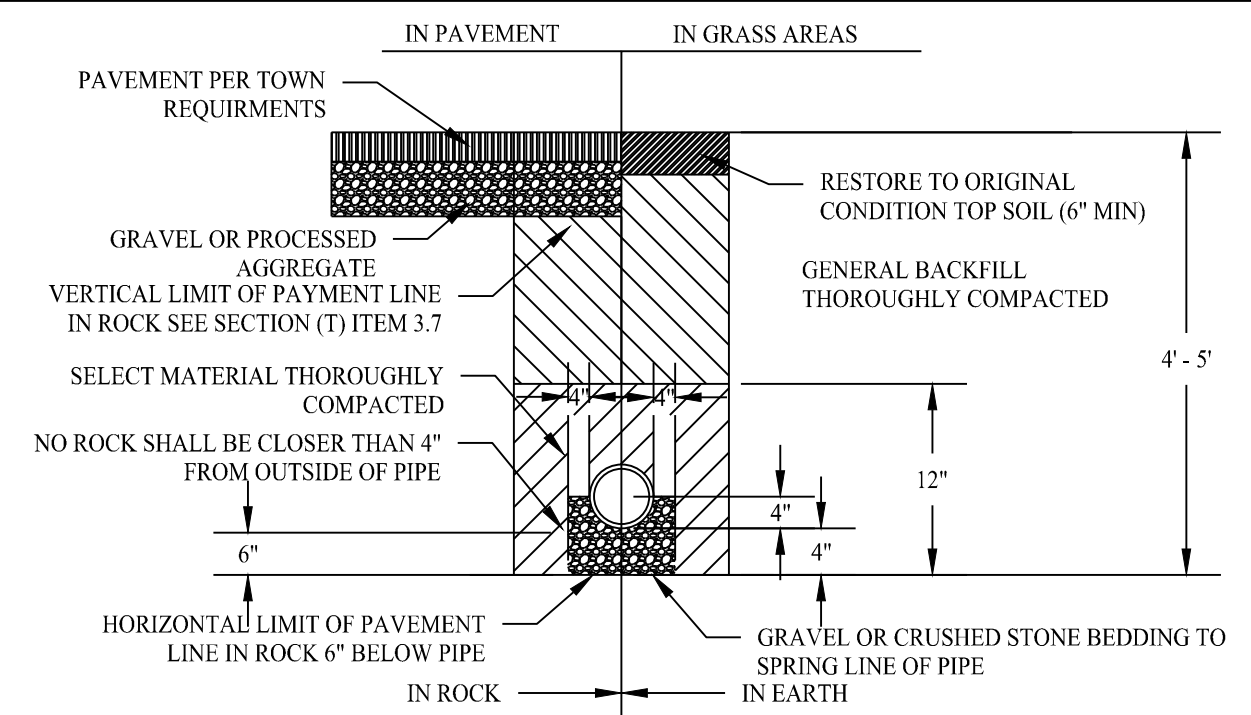
NOTES:  
 1. THE CONTRACTOR SHALL CONTACT CT CALL BEFORE YOU DIG (CRYD) A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.  
 2. TRANSITIONS BETWEEN TYPICAL ACCESS ROAD SECTIONS SHALL OCCUR OVER 50 FEET. (TYPICAL)



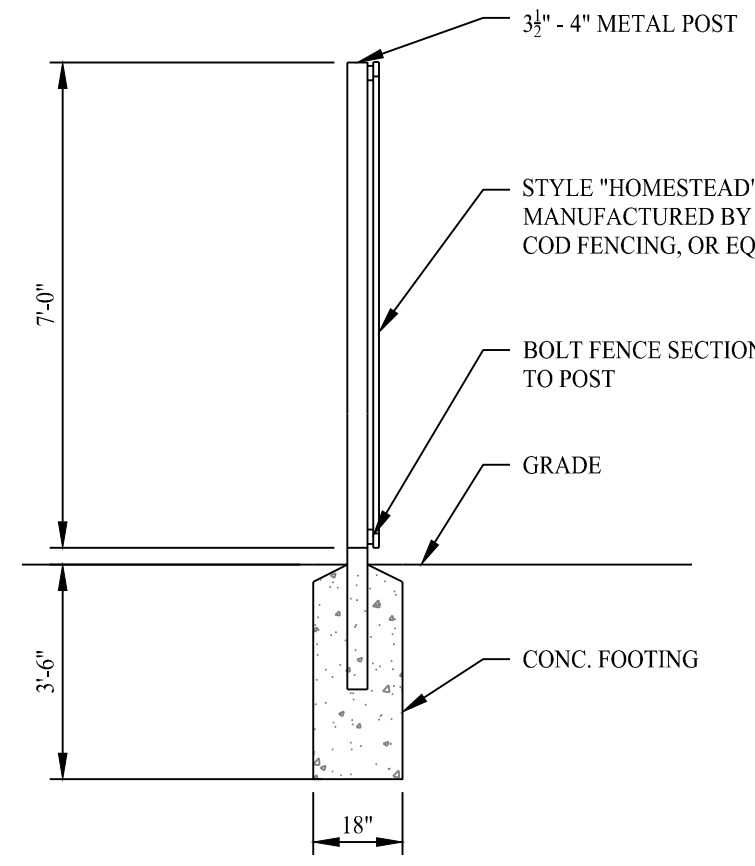
TYPICAL GRAVEL ROADWAY SECTION  
SCALE: NTS



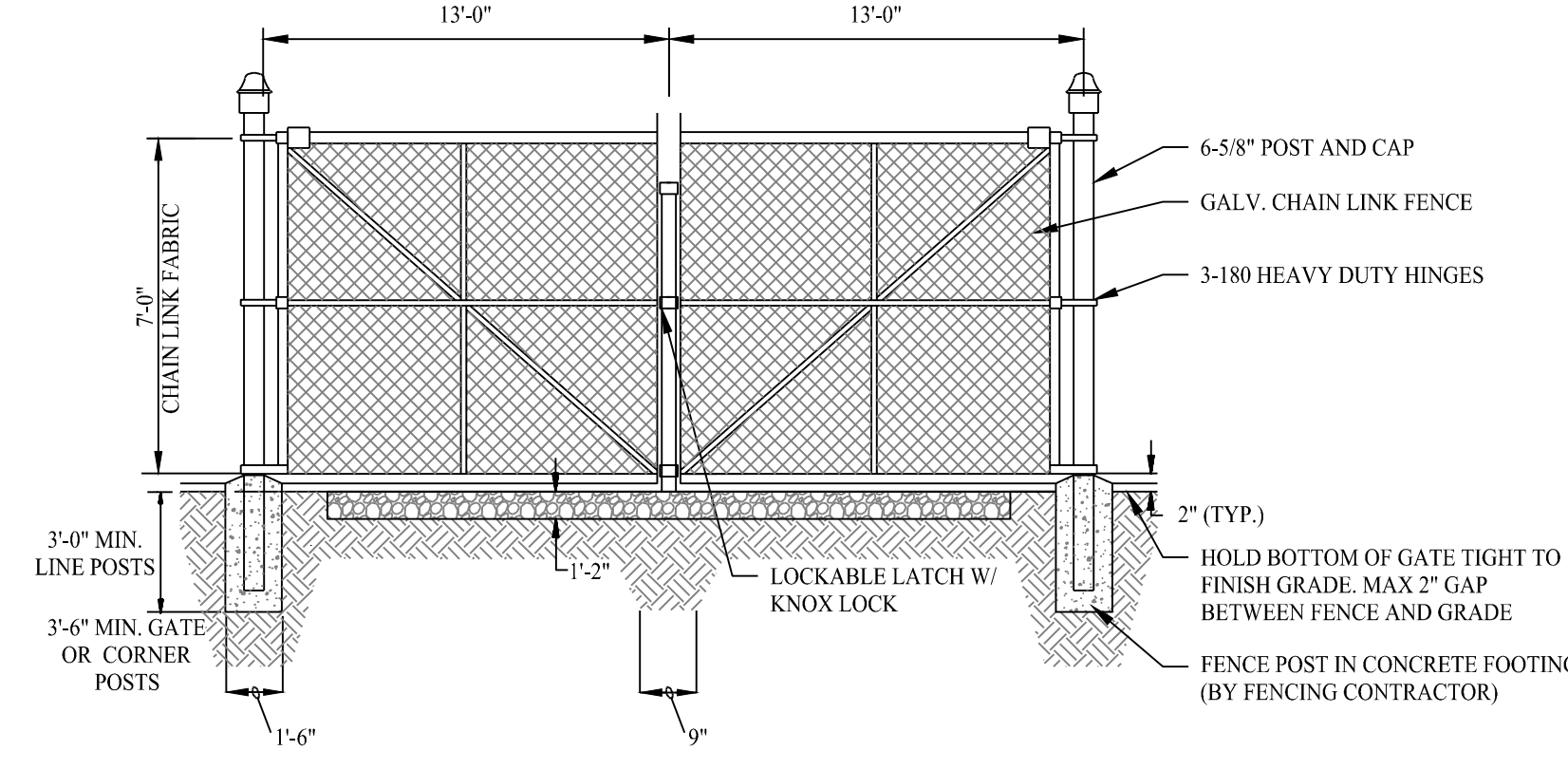
CONCRETE UTILITY PAD  
SCALE: NTS



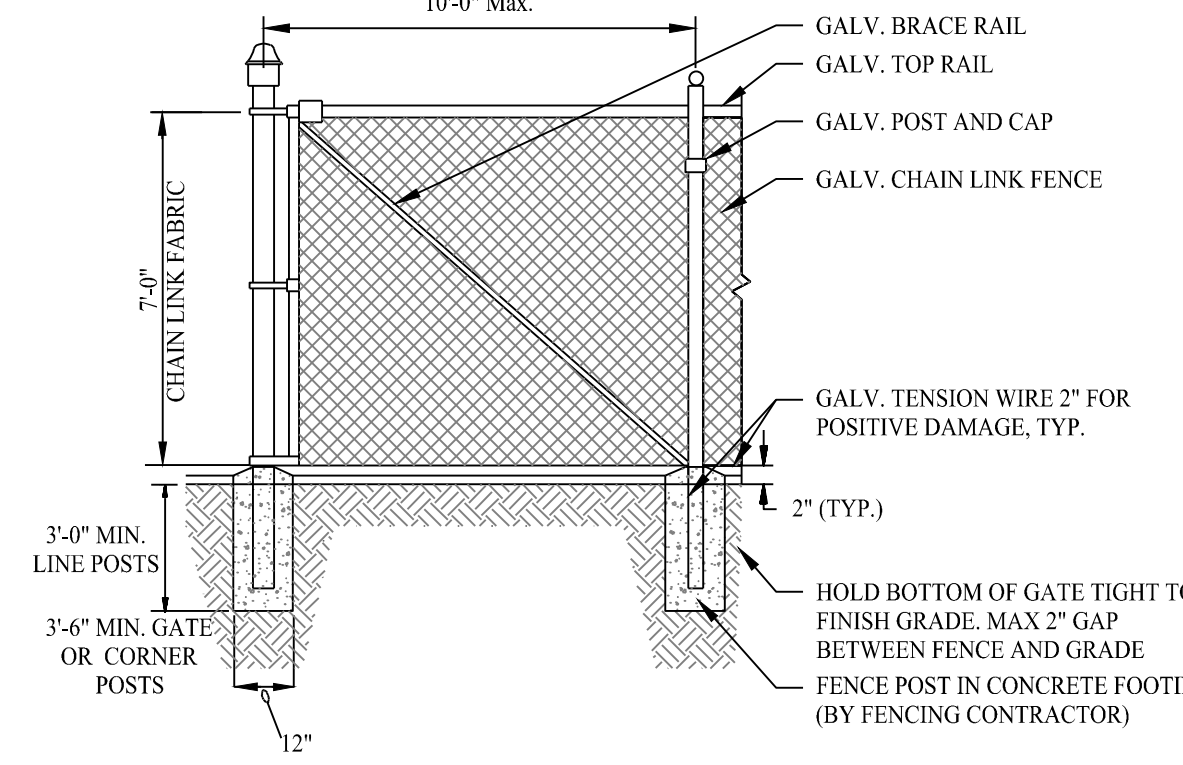
STORM TRENCH DETAIL  
SCALE: NTS



FENCE POST INSTALLATION  
SCALE: NTS

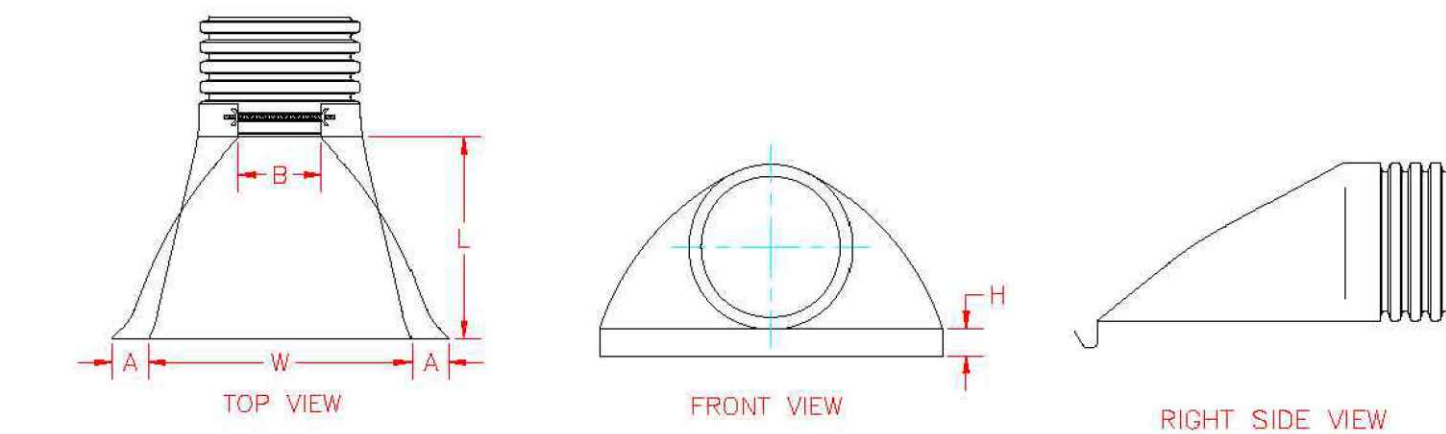


DOUBLE SWING GATE DETAIL  
SCALE: NTS

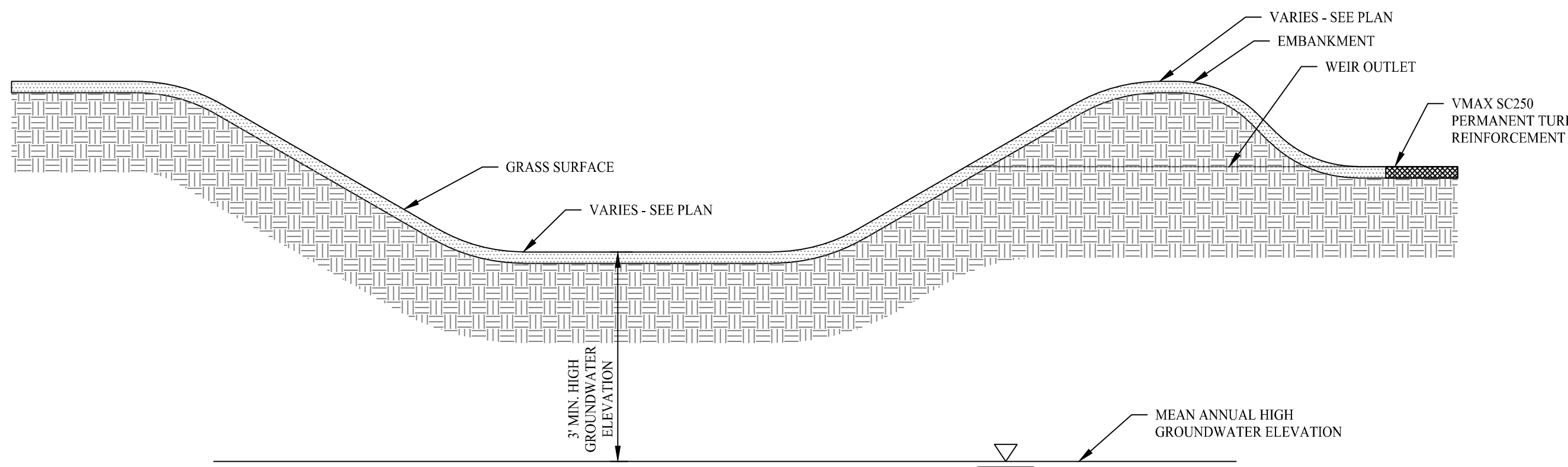


7' HIGH CHAIN LINK FENCE DETAIL  
SCALE: NTS

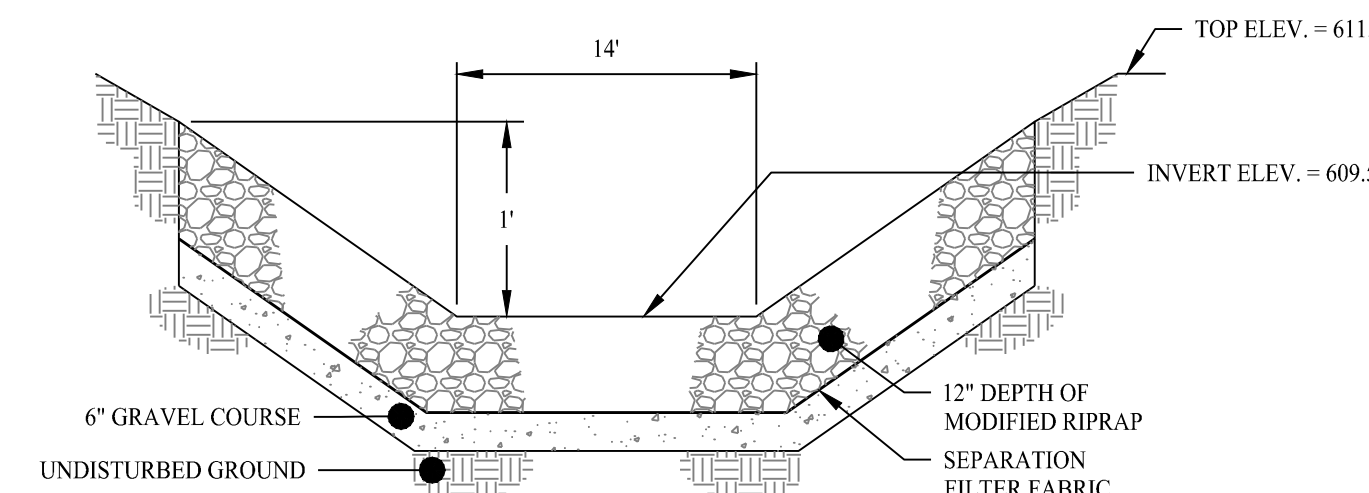
PIPE DIAMETER, in (mm)						
Diameter in (mm)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)
A	6.5 (165)	6.5 (165)	7.5 (191)	7.5 (191)	7.5 (191)	7.5 (191)
B (max)	10.0 (254)	10.0 (254)	15.0 (381)	18.0 (475)	22.0 (559)	25.0 (635)
H	6.5 (165)	6.5 (165)	6.5 (165)	6.5 (165)	8.6 (218)	8.6 (218)
L	25.0 (635)	25.0 (635)	32.0 (813)	36.0 (914)	58.0 (1473)	58.0 (1473)
W	29.0 (737)	29.0 (737)	35.0 (889)	45.0 (1143)	63.0 (1600)	63.0 (1600)



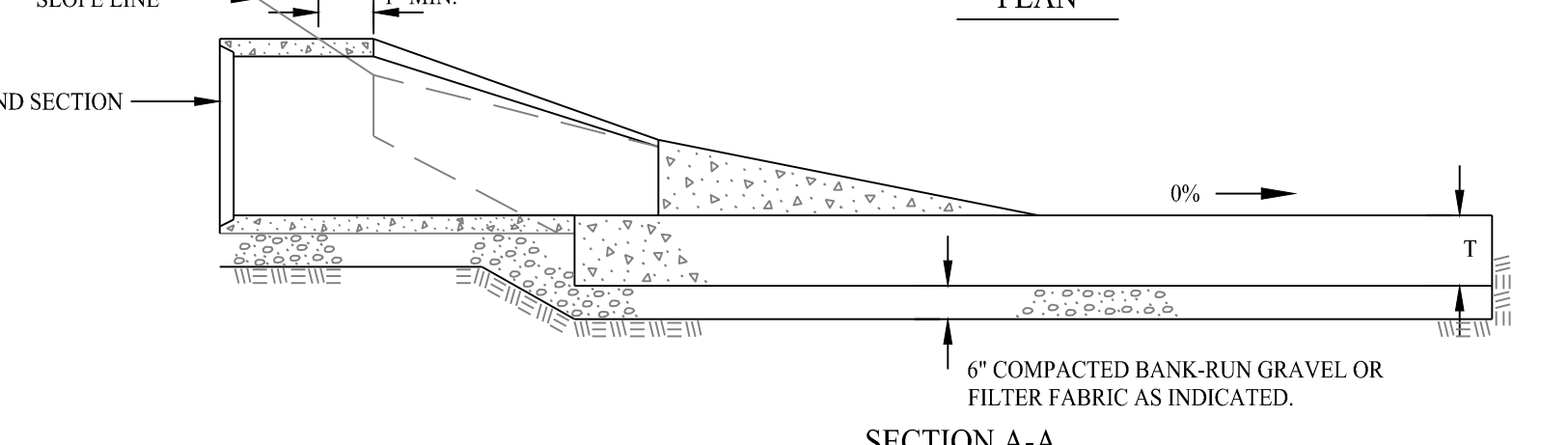
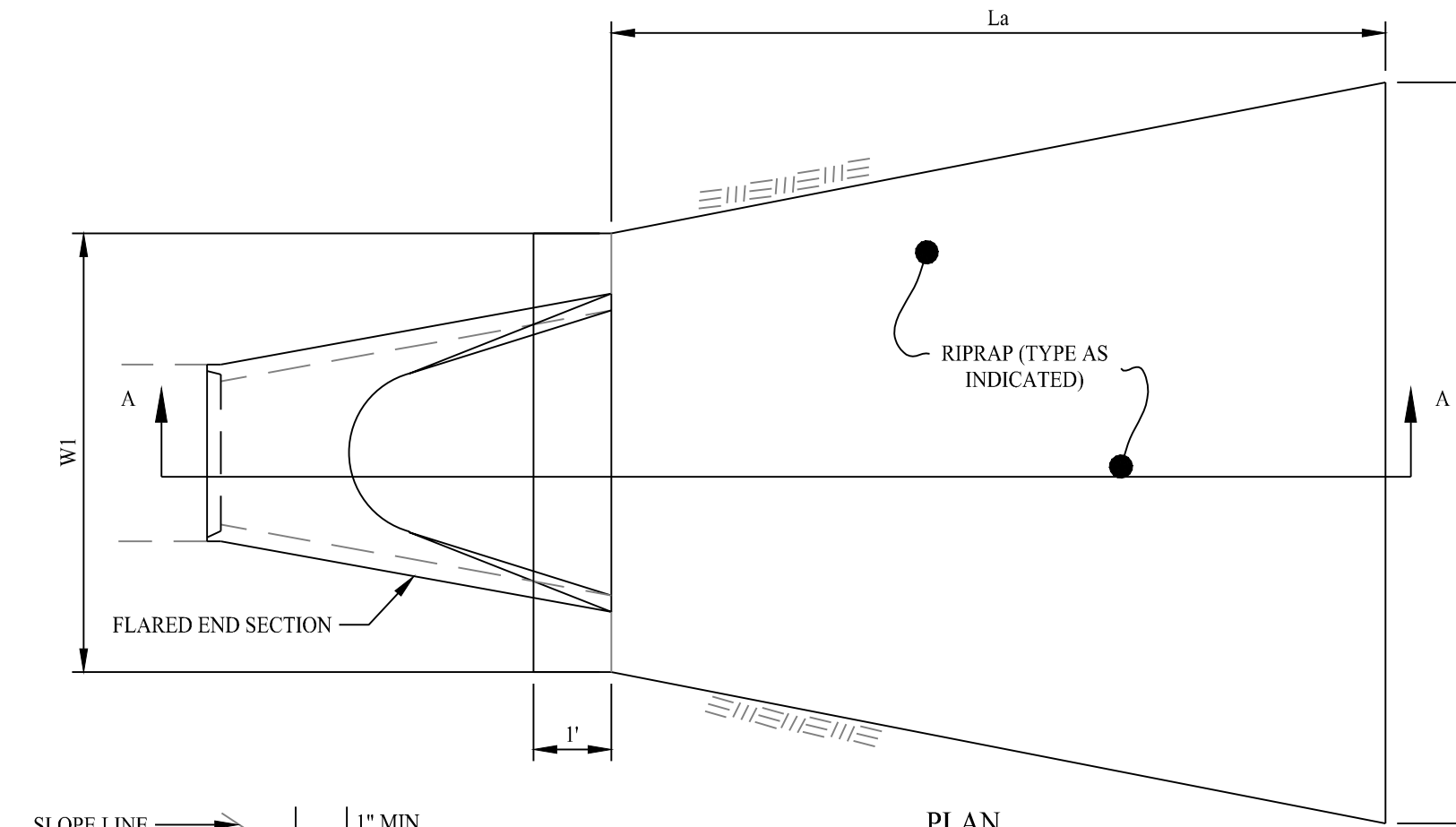
FLARED END SECTION DETAILS  
SCALE: NTS



STORMWATER BASIN CROSS-SECTION  
SCALE: NTS



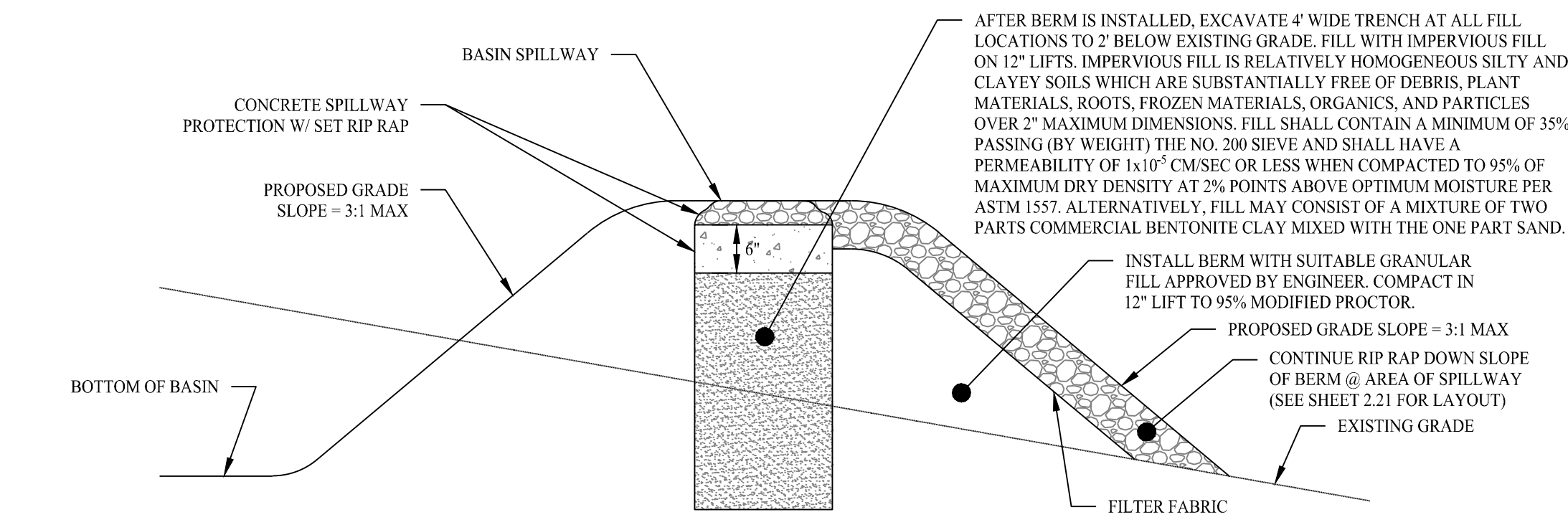
BROADCRESTED WEIR SPILLWAY  
SCALE: NTS



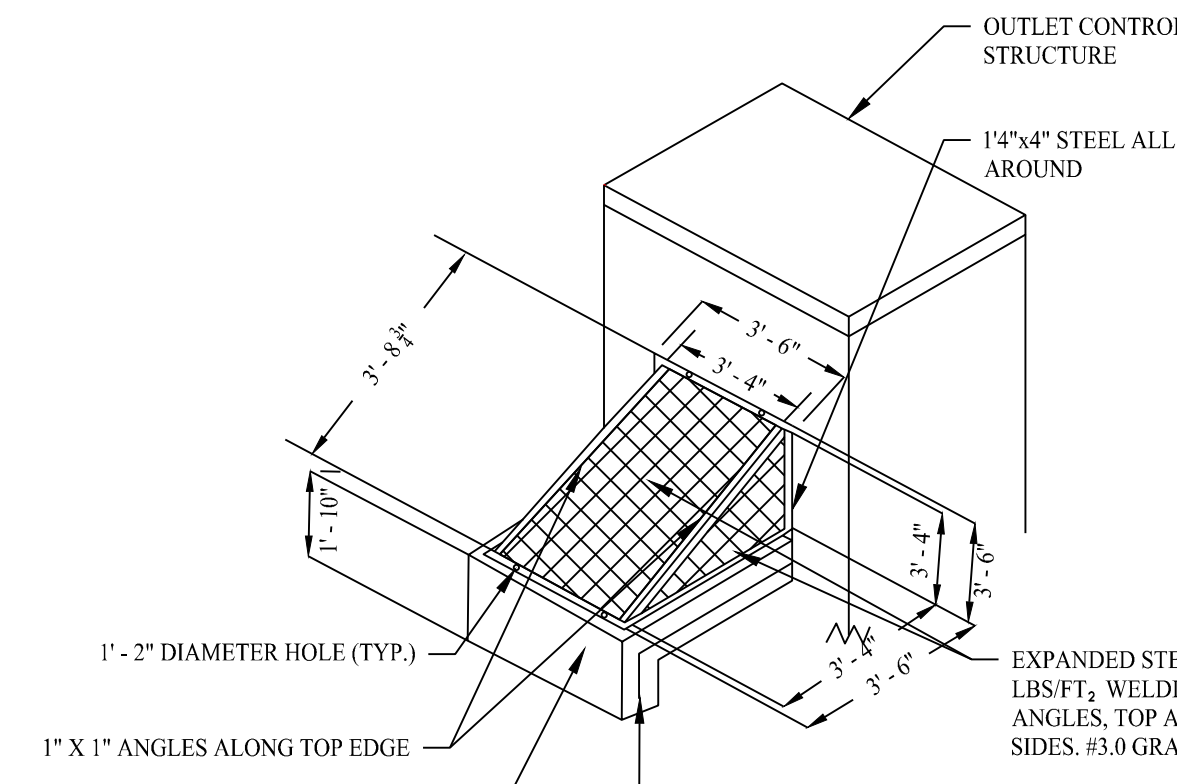
OUTLET	La	W1	W2	RIPRAP
O-1	12'	4.5'	13'	INTERMEDIATE
O-2	12'	4.5'	13'	MODIFIED
O-4	13'	4.5'	14'	INTERMEDIATE

RIPRAP TYPE	"T" (INCHES)
MODIFIED	12
INTERMEDIATE	18
STANDARD	36

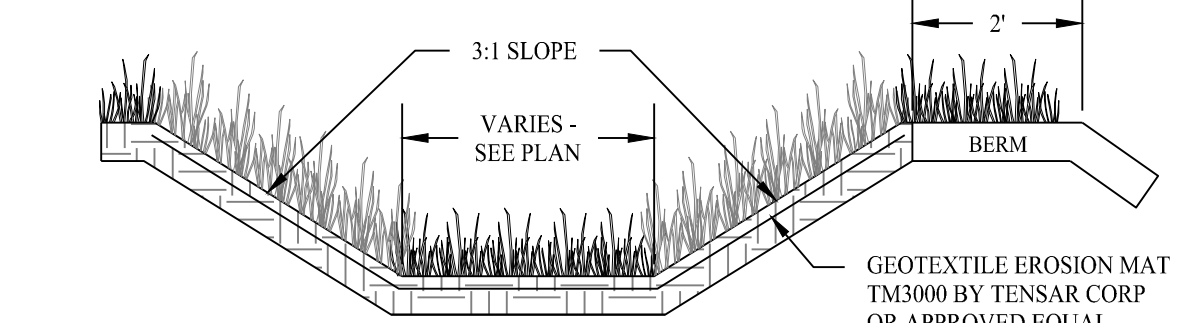
TYPE 'A' RIPRAP APRON  
SCALE: NTS



TYPICAL SPILLWAY IN FILL SECTION DETAIL  
SCALE: NTS



PRIMARY OUTLET TRASH RACK DETAIL  
SCALE: NTS

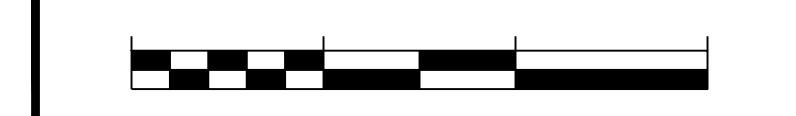


TYPICAL GRASS LINED SWALE  
SCALE: NTS

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Graphic Scale: \_\_\_\_\_



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Drawn By: CJS  
 Checked By: CJB  
 Approved By: KMS  
 Project #: 22108801  
 Plan Date: 01/15/24  
 Scale: NTS



**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 RIGGS STREET  
 OXFORD, CONNECTICUT

Sheet Title: CONSTRUCTION DETAILS Sheet #: 3.01

Jan 19, 2024 - 2:26pm chenody  
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**ENVIRONMENTAL NOTES - RESOURCE PROTECTION MEASURES**

**EASTERN BOX TURTLE AND SPOTTED TURTLES PROTECTION PROGRAM**

EASTERN BOX TURTLES ARE LISTED AS STATE "SPECIES OF SPECIAL CONCERN" BY THE CT DEEP. SPECIES CLASSIFIED AS "THREATENED" BY THE CT DEEP ARE NATIVE SPECIES THAT HAVE A NATURALLY RESTRICTED RANGE IN HABITAT IN THE STATE, ARE AT A LOW POPULATION LEVEL, ARE IN SUCH HIGH DEMAND BY HUMANS THAT ITS UNREGULATED TAKING WOULD BE DETRIMENTAL TO THE CONSERVATION OF ITS POPULATION, OR HAVE BEEN EXTIRPATED FROM THE STATE. EASTERN BOX TURTLES TYPICALLY INHABIT WELL-DRAINED FOREST BOTTOMLANDS AND OPEN DECIDUOUS FORESTS AND WILL UTILIZE A VARIETY OF OTHER EARLY SUCCESSION HABITATS SUCH AS FIELD EDGES (AND OTHER EDGE HABITAT SUCH AS UTILITY CORRIDORS AND THICKETS). THEY ALSO WILL UTILIZE WETLAND HABITATS SUCH AS MARSHES, BOGS, AND STREAMS AT VARIOUS TIMES DURING THEIR ACTIVE SEASON. EASTERN BOX TURTLES ARE ACTIVE BETWEEN APRIL 1 AND NOVEMBER 1; IN THE REMAINING MONTHS, THEY ARE DORMANT, IN A STATE OF BRUMATION A FEW INCHES UNDER THE GROUND SURFACE.

SPOTTED TURTLES ARE LISTED AS STATE "SPECIES OF SPECIAL CONCERN" BY THE CT DEEP. SPOTTED TURTLES TYPICALLY INHABIT WETLANDS SUCH AS VERNAL POOLS BUT TRAVEL UP TO A KILOMETER IN DISTANCE OVER FOREST AND FIELD HABITAT TO REACH OTHER WETLANDS. SPOTTED TURTLES OVERWINTER WITHIN THE MUD OF WETLANDS BETWEEN NOVEMBER 1 AND MARCH 15.

THE FOLLOWING IS A SUMMARY OF MEASURES REQUIRED BY THE CT DEEP AND TO BE USED BEFORE, DURING AND FOLLOWING CONSTRUCTION TO PROTECT EASTERN BOX TURTLES AND SPOTTED TURTLES THAT MAY POTENTIALLY BE ENCOUNTERED AT THE SITE. ALL GROUND DISTURBANCE WORK ASSOCIATED WITH THE PROJECT MUST BE CONDUCTED BETWEEN APRIL 1 AND NOVEMBER 1, THE TURTLES' ACTIVE SEASON. IT IS RECOMMENDED MOWING NOT OCCUR DURING MAY 15 TO SEPTEMBER 15. IF MOWING IS TO OCCUR DURING THIS TIME FRAME, WHETHER PRE- OR POST-CONSTRUCTION, THE CT DEEP RECOMMENDS THE FOLLOWING:

- PRE-CONSTRUCTION:**
- IN PREPARING THE SITE FOR DEVELOPMENT, EXCLUSIONARY FENCING THAT IS AT LEAST 20 INCHES TALL AND THAT IS SECURED AND KEYED INTO THE GROUND, MUST BE INSTALLED AROUND THE PERIMETER OF THE WORK AREA TO PREVENT TURTLE ACCESS TO THE SITE. THE WORK AREA INCLUDES ALL AREAS USED FOR SITE ACCESS, EQUIPMENT PARKING, MATERIAL STAGING, MATERIAL STORAGE, AND CONSTRUCTION PURPOSES. THE ENTRANCE TO THE SITE ALSO MUST BE CORDONED OFF WITH AN EXCLUSIONARY METHOD WHEN THE SITE IS NOT IN USE. THIS CAN BE ACCOMPLISHED WITH A ROW OF HAY BALES THAT CAN BE MOVED WHEN ACCESS TO THE SITE IS NEEDED.
  - IF MOWING NEEDS TO OCCUR BEFORE EXCLUSIONARY FENCE INSTALLATION WITHIN THE ACTIVE TURTLE TIMEFRAME, THE MOWING STYLE, MOWING HEIGHT, MOWING DIRECTIONALITY, MOWING SPEED, AND THE LOCATION OF NON-MOWING AREAS SHOULD BE AS FOLLOWS:
    - MOWING STYLE: AVOID FLAIL MOWER HEADS WITH GUIDE BARS THAT RIDE ALONG THE GROUND. SICKLE BAR MOWERS WILL HAVE THE LEAST IMPACT IF MOWING EVERY ONE TO FIVE YEARS. IN AREAS WITH MORE WOODY VEGETATION, A LESS THAN ONE TO TWO-INCH DIAMETER BRONTOSAURUS-STYLE MOWER WILL HAVE THE LEAST IMPACT ON TURTLES.
    - MOWING HEIGHT: THE RETENTION OF MOWING STUBBLE SEVEN TO TWELVE INCHES IN HEIGHT WILL REDUCE MORTALITY, REDUCE BLADE WEAR, AND WILL LEAVE IMPORTANT COVER FOR ANIMALS.
    - MOWING DIRECTIONALITY: START MOWING FROM THE CENTER OF THE FIELD AND USE A BACK-AND-FORTH APPROACH OR LARGE CIRCULAR PATTERN TO AVOID CONCENTRATING FLEEING ANIMALS WHERE THEY MAY BE KILLED OR STRANDED. IN ADDITION, LEAVE AN UNMOWED 30-FOOT STRIP AROUND THE PERIMETER OF THE FIELD AND MOW THIS AREA LAST. MOST TURTLES ARE FOUND WITHIN THESE AREAS, AND THIS PROVIDES TIME FOR THEM TO REACT TO THE MOWING ACTIVITY AND MOVE OUT OF THE AREA. IF THE FIELD IS NEAR A STREAM, START MOWING THE SIDE FURTHEST FROM THE STREAM AND WORK TOWARDS THE STREAM. IF THE FIELD IS BORDERED BY WOODLAND, START MOWING THE SIDE FURTHEST FROM WOODLAND AND WORK TOWARDS WOODLAND. IF FIELD IS BORDERED BY ROAD, START MOWING NEXT TO THE ROAD AND WORK YOUR WAY ACROSS THE FIELD.
    - MOWING SPEED: MOWING IN LOW GEAR OR AT SLOW SPEEDS WILL ALLOW TURTLES TO REACT AND MOVE OUT OF THE FIELD.
    - NON-MOWING AREAS: LEAVE AN UNMOWED FIELD EDGE IN HIGH TURTLE-USE AREAS UNTIL AFTER SEPTEMBER 15.
  - ONCE EXCLUSIONARY FENCING HAS BEEN INSTALLED SURROUNDING THE WORK AREA, A QUALIFIED INDIVIDUAL MUST SURVEY THE AREA FOR ANY TURTLES WITHIN THE WORK AREA. IF TURTLES ARE IDENTIFIED, THEY ARE TO BE CAREFULLY MOVED TO AN AREA OUTSIDE OF THE WORK AREA IN A SAFE MANNER THAT WILL NOT HARM THEM. IF LISTED SPECIES OF TURTLES ARE IDENTIFIED, THE QUALIFIED INDIVIDUAL WILL DOCUMENT AND REPORT THESE FINDINGS TO THE CT DEEP IN THE MANNER IDENTIFIED WITHIN THE NDDB DETERMINATION LETTER. ONLY WHEN THE QUALIFIED INDIVIDUAL DETERMINES THAT NO TURTLES ARE WITHIN THE WORK AREA AND THAT THE SITE IS SECURE FROM TURTLES RE-ENTERING CAN CONSTRUCTION BEGIN.
  - PRIOR TO COMMENCING ACTIVITY, A MEETING IS TO BE HELD WITH ALL CONSTRUCTION PERSONNEL WORKING WITHIN THE EXCLUSION AREA BY THE QUALIFIED INDIVIDUAL TO APPRAISE THEM OF THE SPECIES DESCRIPTION AND THEIR DUTIES IN REGARD TO MAINTAINING THE SECURITY OF THE SITE. SHOULD CONSTRUCTION PERSONNEL ENCOUNTER A TURTLE, THE QUALIFIED INDIVIDUAL WILL INSTRUCT PERSONNEL DURING THIS MEETING ON HOW TO CAREFULLY REMOVE THE TURTLE FROM THE SITE, HOW TO DOCUMENT THEIR FINDINGS AND TO REPORT IT TO THE QUALIFIED INDIVIDUAL FOR REPORTING TO THE CT DEEP.
- MID-CONSTRUCTION:**
- PRIOR TO THE START OF WORK ACTIVITY EACH DAY, THE EXCLUSIONARY FENCING IS TO BE INSPECTED BY CONSTRUCTION PERSONNEL AND ALL GAPS OR OPENINGS AT THE GROUND-LEVEL IDENTIFIED SHOULD BE FIXED OR REPAIRED IMMEDIATELY TO PREVENT TURTLES ACCESS TO THE SITE. IF A BREACH IS IDENTIFIED, WORK SHALL HALT UNTIL THE QUALIFIED INDIVIDUAL SURVEYS THE SITE AND DETERMINES NO TURTLES ARE WITHIN THE WORK AREA.
  - ALL HEAVY MACHINERY (ACTIVE OR PARKED) MUST BE WITHIN THE LIMITS OF THE EXCLUSIONARY ZONE OR ON PAVED SURFACES. NO MACHINERY IS TO BE PARKED IN ANY TURTLE HABITAT (I.E., THE AREA OUTSIDE OF THE EXCLUSIONARY ZONE).
  - AT THE END OF EACH WORKDAY, THE EXCLUSIONARY MEASURES AT THE ENTRANCE TO THE WORK SITE MUST BE REIMPLEMENTED TO PREVENT TURTLES FROM ACCESSING THE SITE. IF THIS IS NOT DONE, THE EXCLUSIONARY ZONE IS CONSIDERED VOID, AND A QUALIFIED INDIVIDUAL MUST RE-SURVEY THE SITE AND CONCLUDE THAT NO TURTLES ARE PRESENT WITHIN THE WORK AREA BEFORE CONSTRUCTION ACTIVITY CAN BEGIN AGAIN.
- POST-CONSTRUCTION:**
- AFTER COMPLETION OF THE PROJECT, EXCLUSIONARY FENCING SHALL BE REMOVED ONCE THE AREA IS STABILIZED TO ALLOW FOR REPTILE AND AMPHIBIAN PASSAGE TO RESUME. IF THE PROJECT INCLUDES FENCING MEASURES THAT CORDON OFF SEPARATE SEGMENTS OF THE WORKSITE, ALL ACTIVE AREAS MUST REMAIN EXCLUSIONARY TO TURTLES. EXCLUSIONARY FENCING CAN BE REMOVED FROM INDIVIDUAL AREAS WHEN ALL WORK HAS BEEN COMPLETED IN THAT AREA.
  - AS THE PROJECT SITE IS PROPOSED TO BE CONTINUOUSLY MAINTAINED AS GRASSLAND HABITAT, THE GRASSLAND AREAS SHOULD ONLY BE MOWED DURING THE TURTLES' DORMANT SEASON FROM SEPTEMBER 15 TO MAY 15. MOWING RECOMMENDATIONS OUTLINED IN THE PRE-CONSTRUCTION SECTION SHOULD BE USED IF MOWING HAS TO OCCUR DURING THE TURTLES' ACTIVE SEASON.

IN ADDITION TO THESE MEASURES, THE CT DEEP RECOMMENDS THE FOLLOWING BE IMPLEMENTED INTO THE GENERAL SITE DESIGN FOR THE DEVELOPMENT TO PROTECT THE VALUE OF HABITAT FOR WILDLIFE AND STATE-LISTED SPECIES:

- A SITE MANAGEMENT PLAN TO PROMOTE NATIVE VEGETATION GROWTH IN THE AREA UNDER THE SOLAR PANELS SHOULD BE CREATED.
- USE WILDLIFE-FRIENDLY FENCING TO ALLOW WILDLIFE MOVEMENT TO AND FROM THE DEVELOPMENT.
- DEVELOP A MANAGEMENT PLAN FOR AREAS OF THE PROPERTY WHERE DEVELOPMENT IS NOT OCCURRING AND/OR FOR WHEN SOLAR PANELS ARE DECOMMISSIONED THAT WILL SUPPORT STATE-LISTED SPECIES.

**LEGEND**

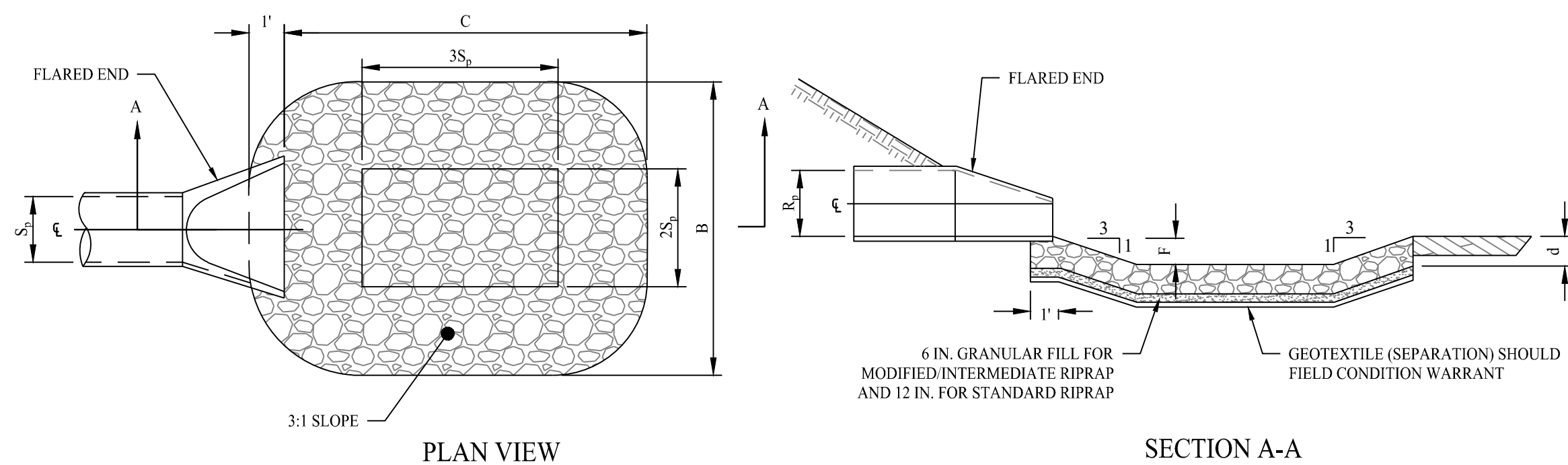
$S_p$  = MAX INSIDE PIPE SPAN (NON-CIRCULAR SECTIONS)  
INSIDE PIPE DIAMETER

$R_p$  = MAX INSIDE PIPE RISE (NON-CIRCULAR SECTIONS)  
INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)

d = 300 MM (12 IN.) MODIFIED RIPRAP  
450 MM (18 IN.) INTERMEDIATE RIPRAP  
900 MM (36 IN.) STANDARD RIPRAP

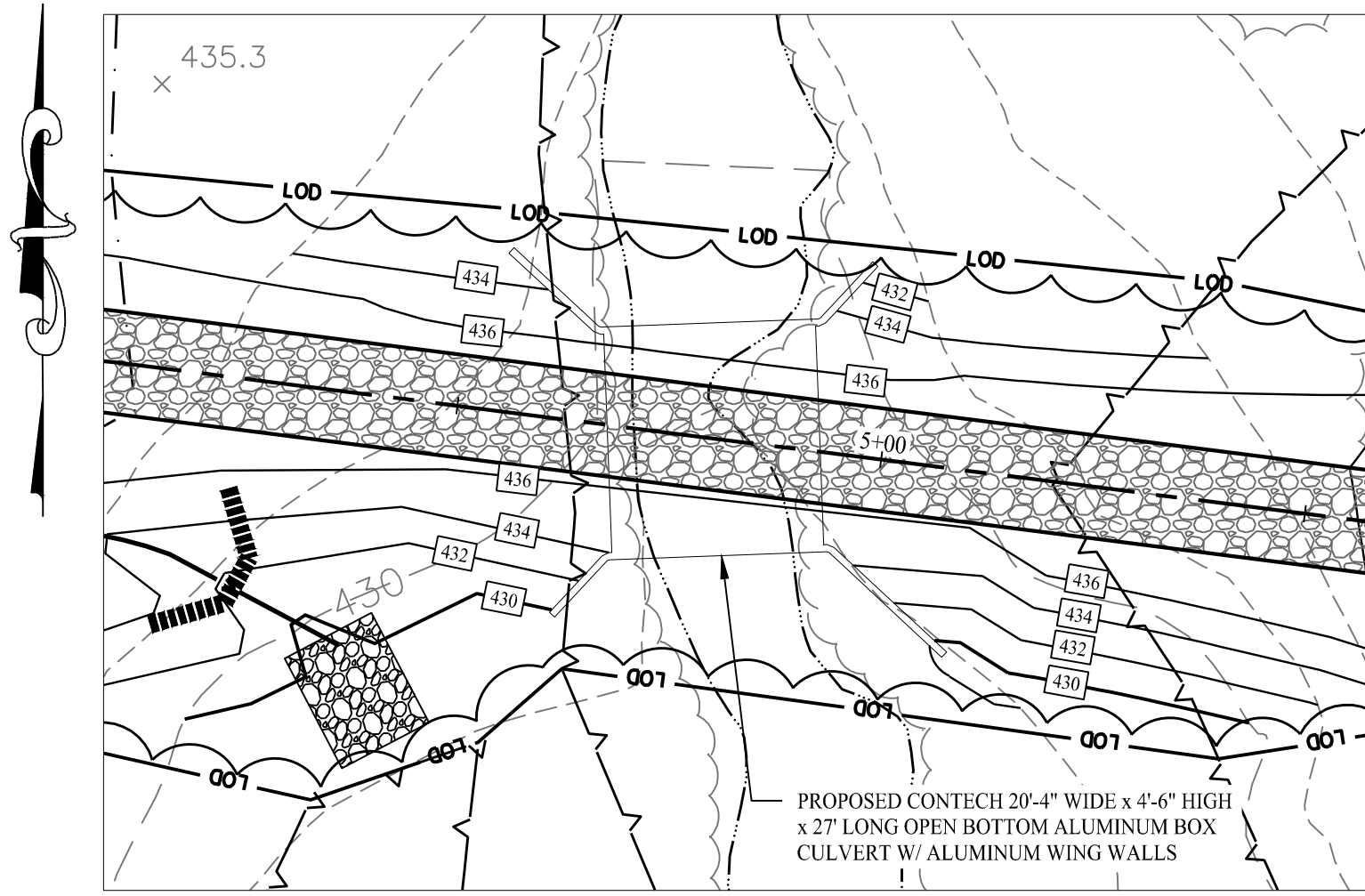
Type 1  $F = 0.5 R_p$   
Type 2  $F = R_p$   
 $C = 3S_p + 6F$   
 $B = 2S_p + 6F$

OUTLET I.D.	APRON TYPE	Sp, Rp [IN]	B [FT]	C [FT]	F [FT]	d [FT]	RIPRAP
O-3	2	18	12	14	1.5	12	MODIFIED
O-5	2	18	12	14	1.5	18	INTERMEDIATE



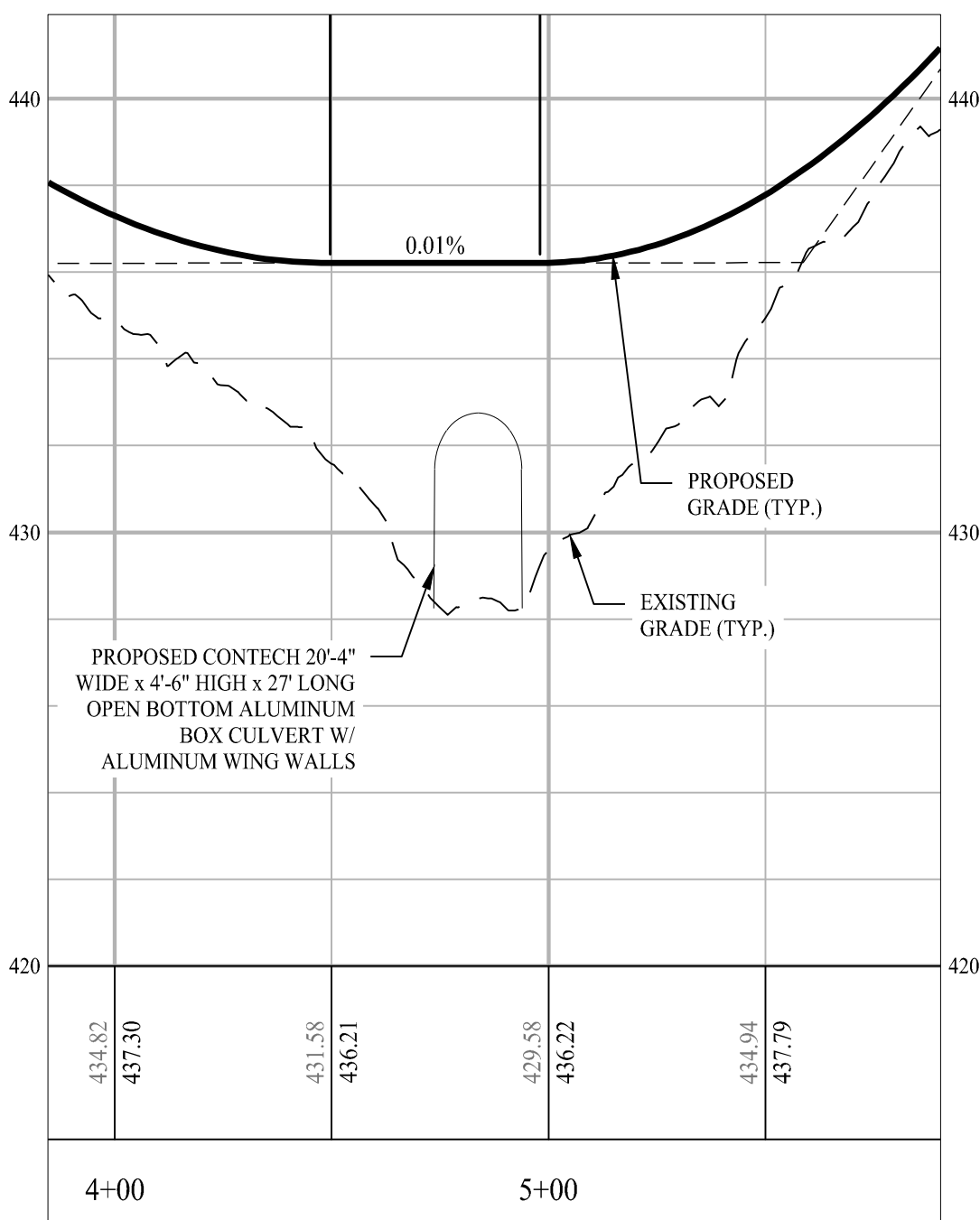
**PERFORMED SCOUR HOLE**

SCALE: NTS



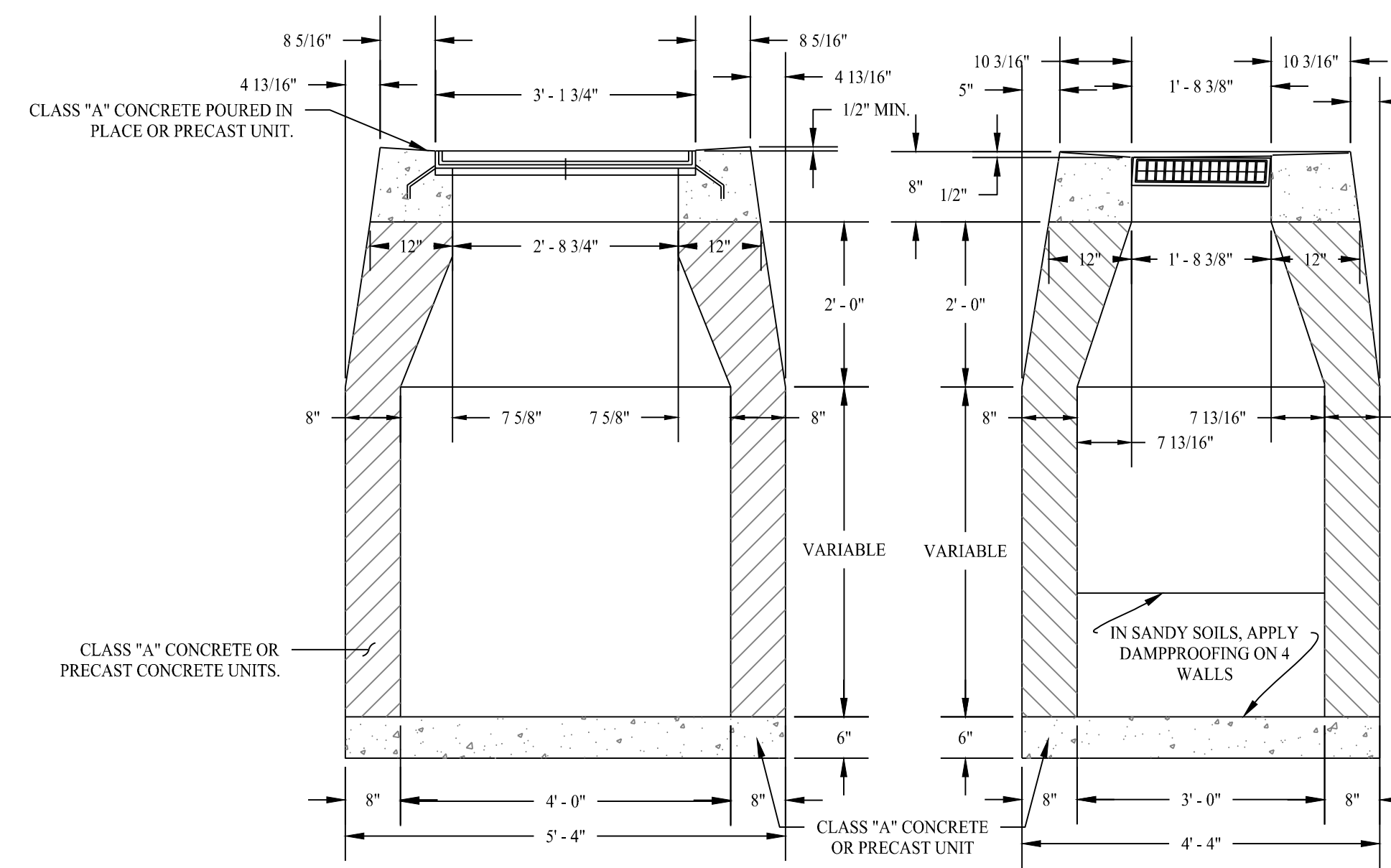
**STREAM CROSSING**

SCALE: 1" = 20'



**PARTIAL PROFILE AT STREAM CROSSING**

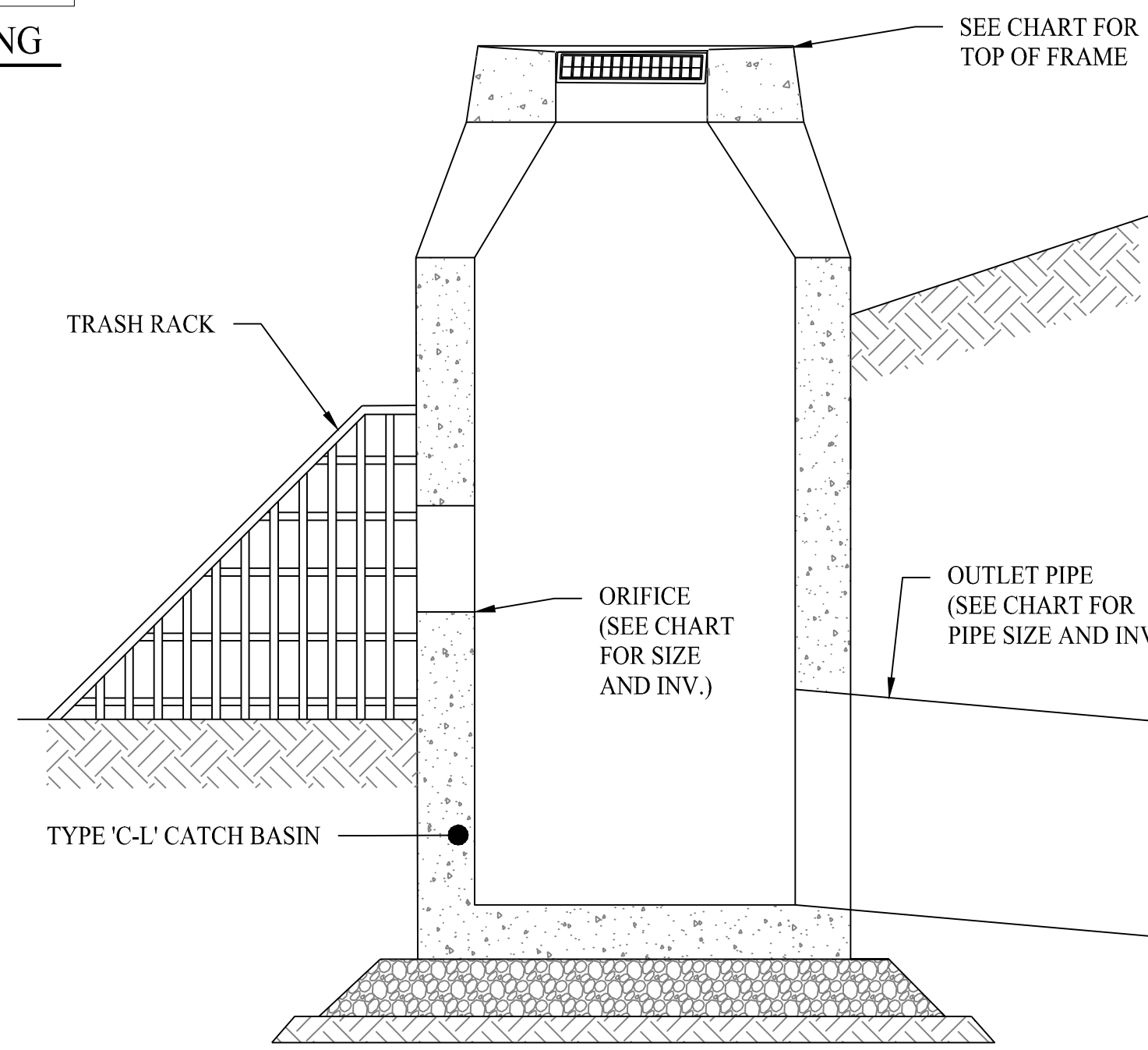
HORIZONTAL SCALE: 1" = 40'  
VERTICAL SCALE: 1" = 4'



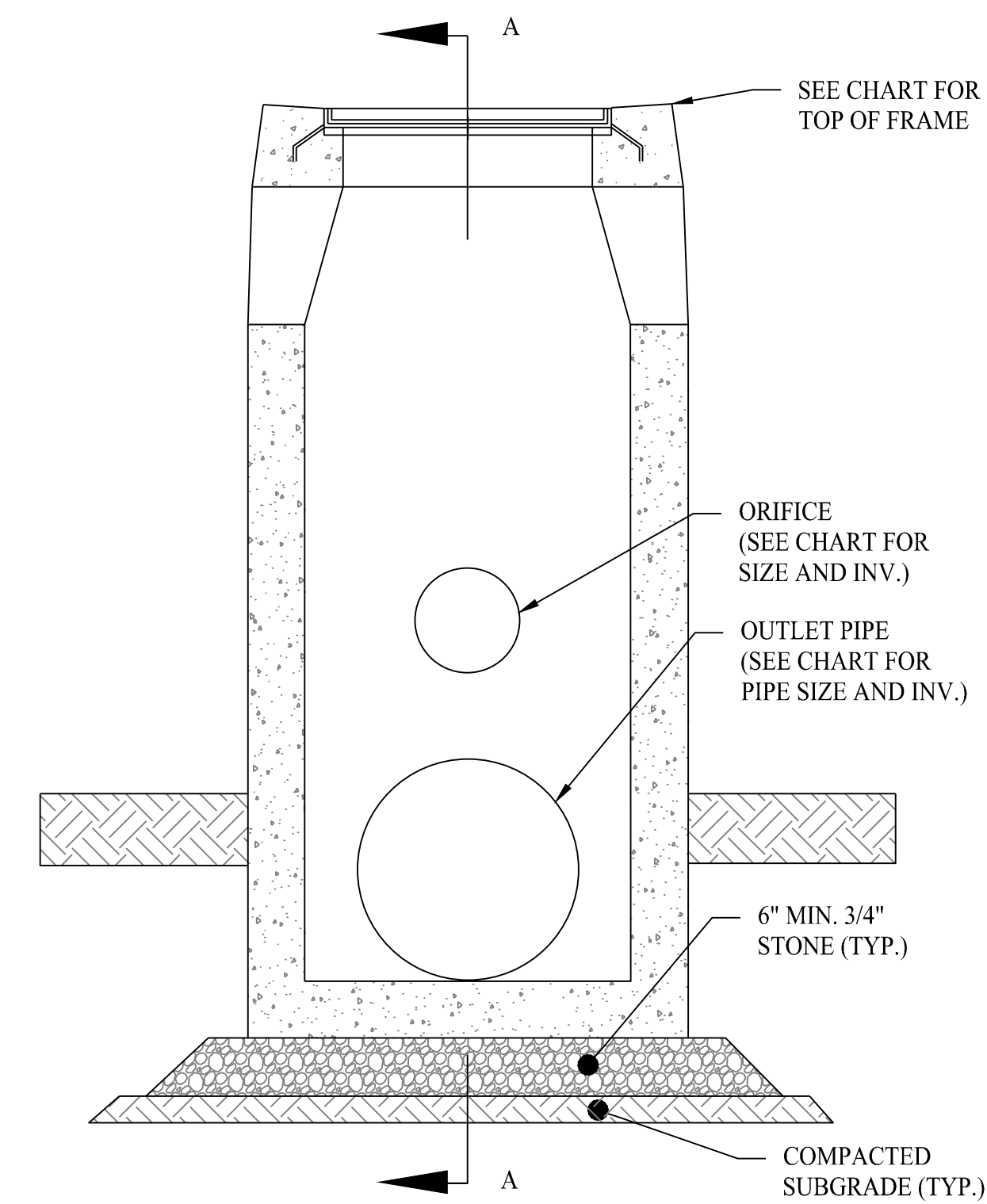
**TYPE "C-L" CATCH BASIN**

SCALE: NTS

OUTLET I.D.	ORIFICE SIZE (IN.)	ORIFICE ELEV. (FT.)	TOP OF FRAME ELEV. (FT.)	OUTLET SIZE (IN.)	OUTLET ELEV. (FT.)
OCS-1	15	427.00	429.00	18	424.00
OCS-2	12	417.70	419.00	18	414.00
OCS-3	15	457.00	459.00	18	454.00
OCS-4	15	461.00	463.00	18	458.00
OCS-5	15	479.00	481.00	18	476.00



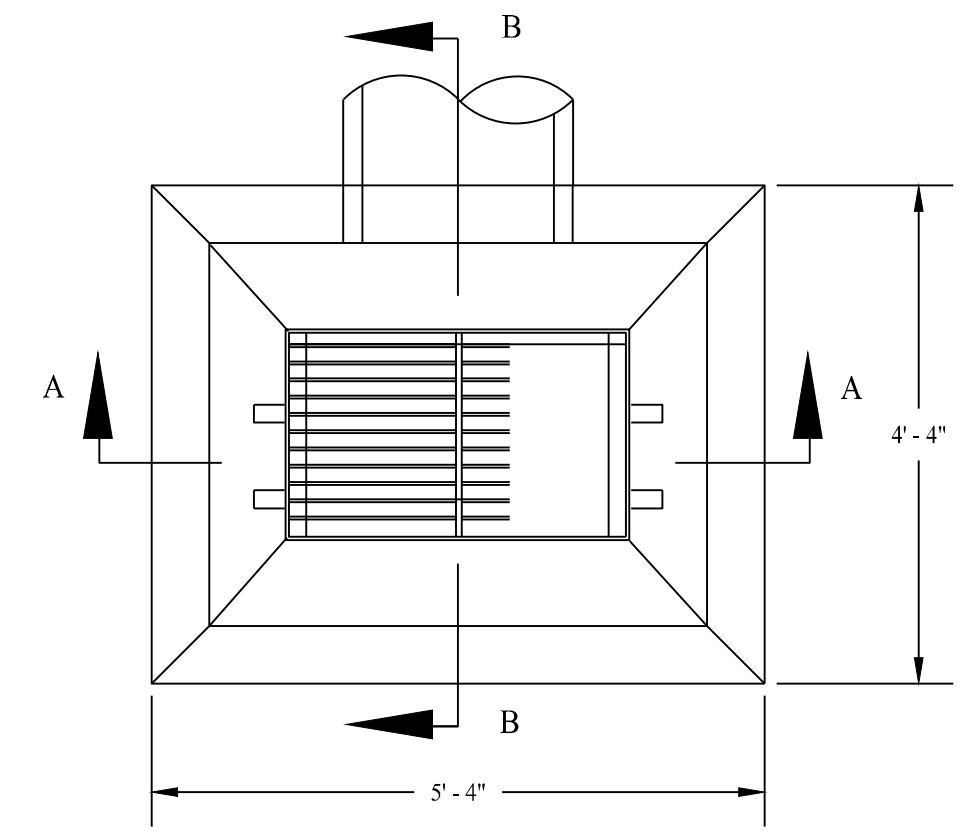
**SECTION A - A**



**ELEVATION**

**OUTLET CONTROL STRUCTURE**

SCALE: NTS



**FOR PERMITTING ONLY**

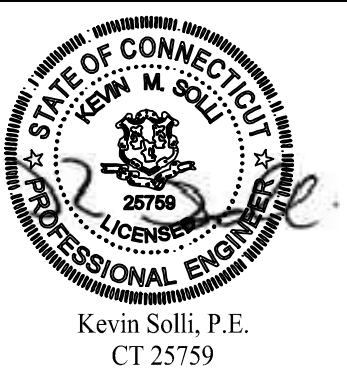
Rev. #: \_\_\_\_\_ Date \_\_\_\_\_ Description \_\_\_\_\_

Graphic Scale:



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Drawn By: CJS  
Checked By: CJB  
Approved By: KMS  
Project #: 22108801  
Plan Date: 01/15/24  
Scale: NTS



**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
RIGGS STREET  
OXFORD, CONNECTICUT

Sheet Title:  
**ENVIRONMENTAL NOTES AND CONSTRUCTION DETAILS**

Sheet #:  
**3.02**