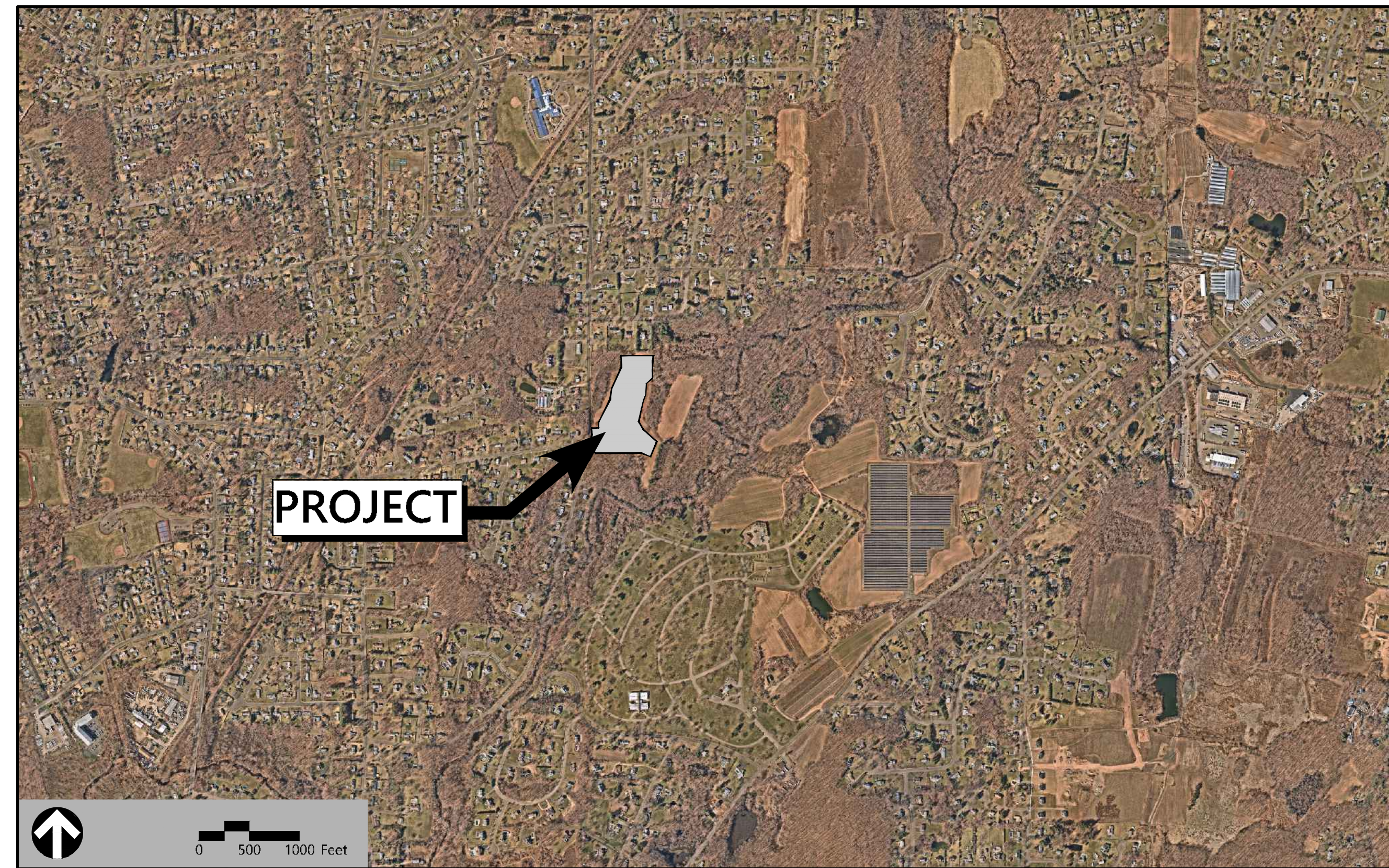


Site Plans

Issued for	Application
Date Issued	September 22, 2022
Latest Issue	September 22, 2022

North Haven Solar One

122 Mill Rd
North Haven, Connecticut



100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300

Licensed Land Surveyor
Northeast Survey Consultants
3 Ferry Street, Studio 1
Easthampton, MA 01027
413-203-5144

Applicant/Developer

North Haven Solar One, LLC
150 Trumbull Street, 4th Floor
Hartford, CT 06103

Parcel ID:
039 / 009

Property Owner

Catholic Cemetery Association
700 Middletown Avenue
North Haven, CT 06473

Sheet Index

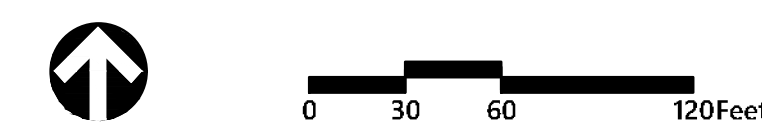
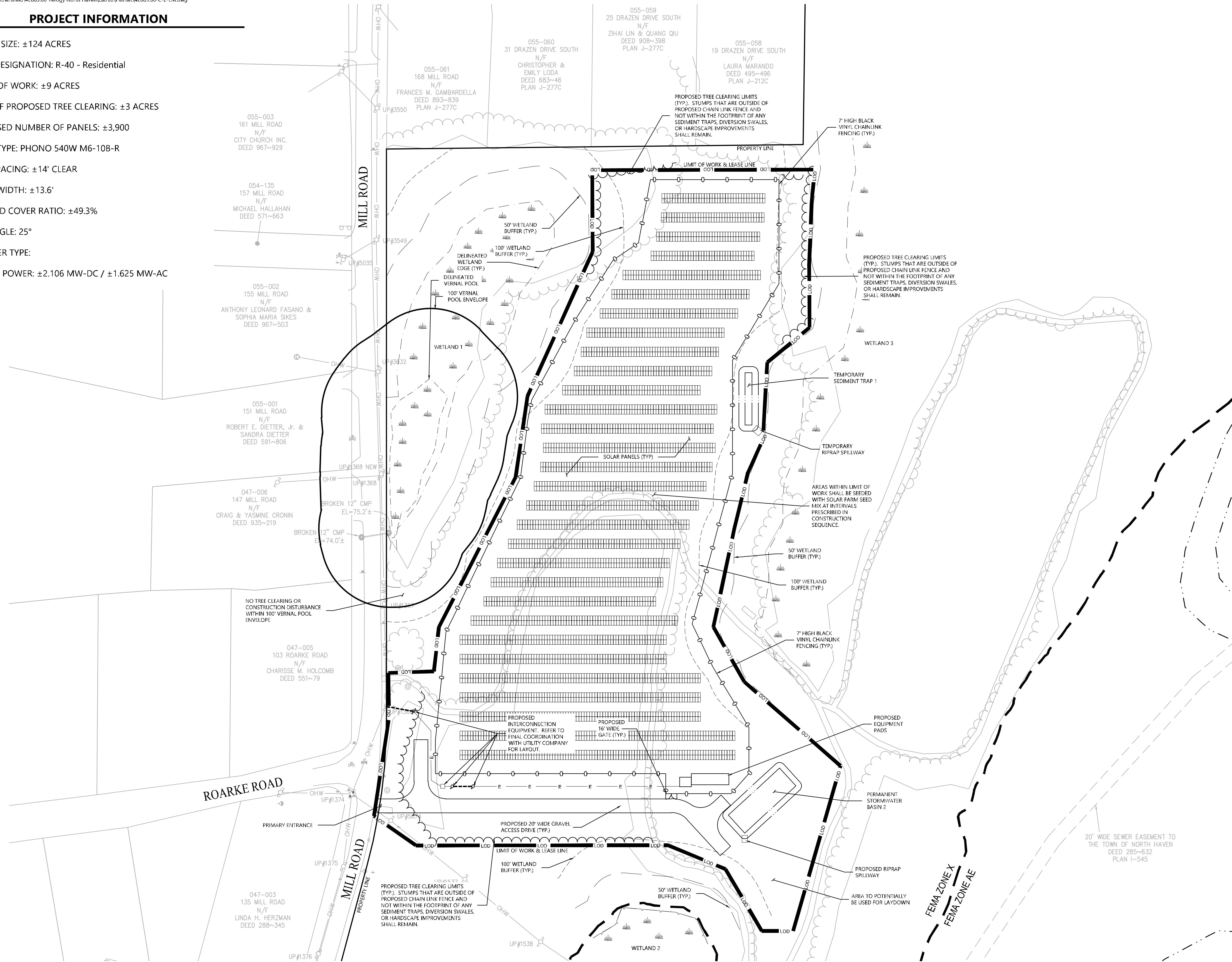
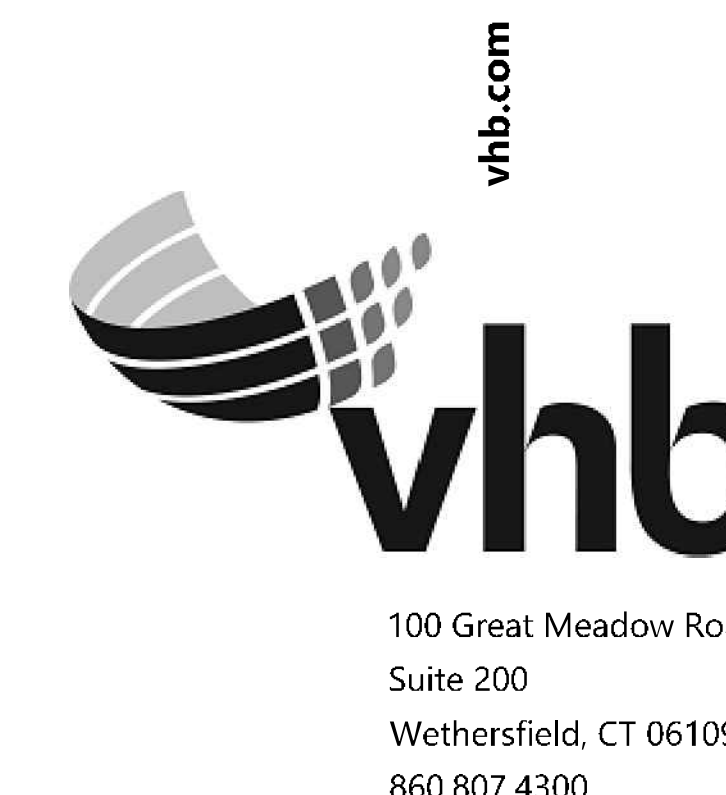
No.	Drawing Title	Latest Issue
C-1.0	Legend and General Notes	September 22, 2022
C-2.0	Layout and Materials Plan	September 22, 2022
C-3.0	Grading and Drainage Plan	September 22, 2022
C-4.0	Erosion and Sediment Control Plan	September 22, 2022
C-5.1-5.2	Site Details	September 22, 2022

Reference Drawings

No.	Drawing Title	Latest Issue
21-264	Plan of Land in North Haven, CT	March 21, 2022

PROJECT INFORMATION

- PARCEL SIZE: ±124 ACRES
- ZONE DESIGNATION: R-40 - Residential
- LIMITS OF WORK: ±9 ACRES
- AREA OF PROPOSED TREE CLEARING: ±3 ACRES
- PROPOSED NUMBER OF PANELS: ±3,900
- PANEL TYPE: PHONO 540W M6-10B-R
- ROW SPACING: ±14' CLEAR
- PANEL WIDTH: ±13.6'
- GROUND COVER RATIO: ±49.3%
- TILT ANGLE: 25°
- INVERTER TYPE:
- SYSTEM POWER: ±2.106 MW-DC / ±1.625 MW-AC



North Haven Solar One
 122 Mill Rd
 North Haven, Connecticut

No.	Revision	Date	App'd

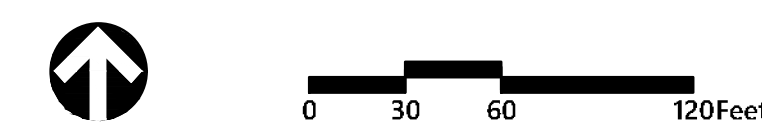
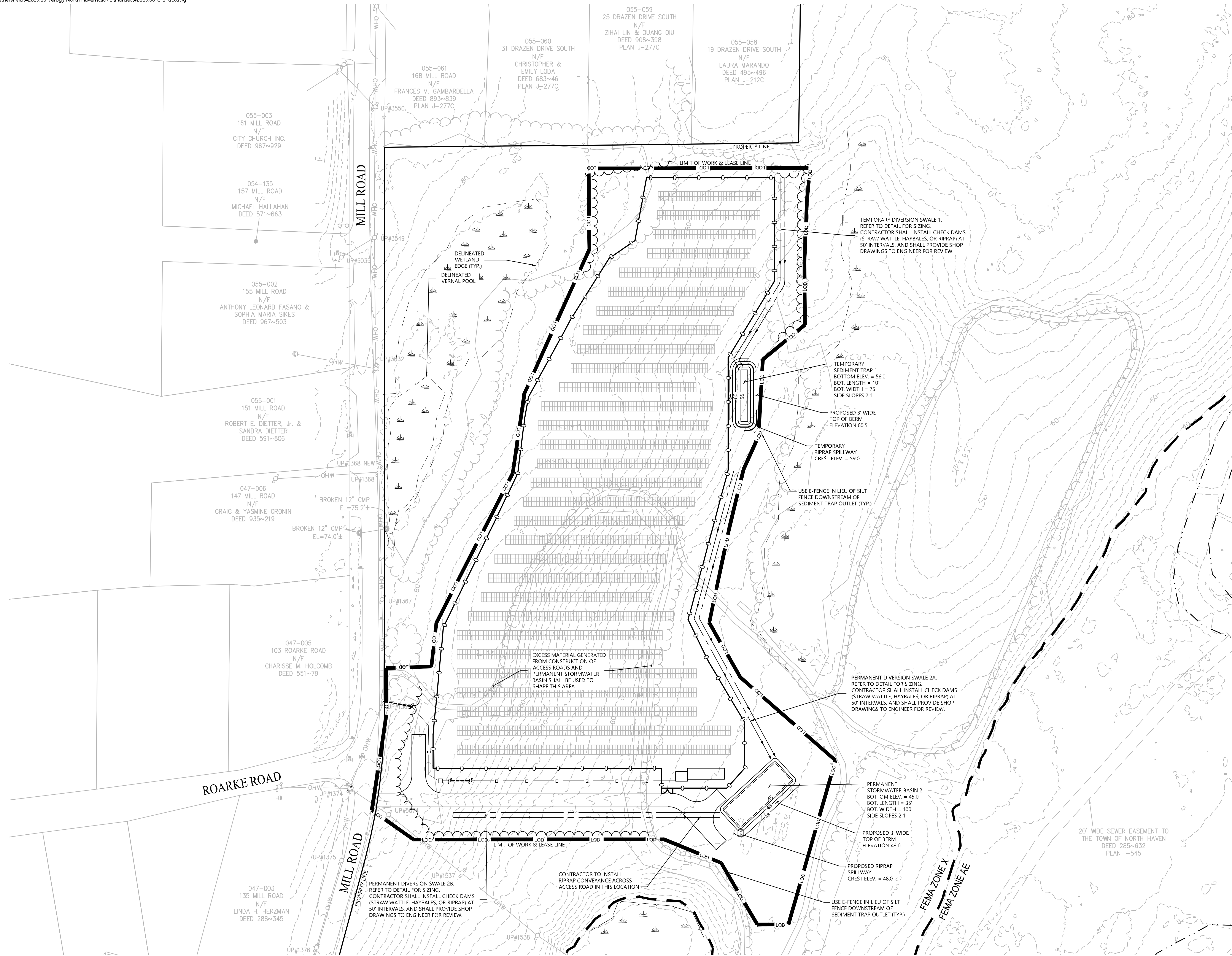
Designed by: DRB Checked by: SJK
 Issued for: Application Date: September 22, 2022

Not Approved for Construction
Layout and Materials Plan

Drawing Number: **C-2.0**
 Sheet 2 of 6
 Project Number: 42889.00



100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300



North Haven Solar One

122 Mill Rd
North Haven, Connecticut

No.	Revision	Date	App'd.

Designed by: DRB Checked by: SJK
Issued for: Date: Application September 22, 2022

Not Approved for Construction

Grading and Drainage Plan

Drawing Number

C-3.0

Sheet 3 of 6

Project Number
42889.00

CONSTRUCTION SEQUENCING

ALL CONSTRUCTION ACTIVITIES ARE EXPECTED TO BEGIN IN THE SPRING/SUMMER OF 2023 AND BE COMPLETED BY THE END OF 2023. THE GENERAL CONSTRUCTION NOTES ARE AS FOLLOWS:

1. THE SITE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT ROADS/HIGHWAYS AND THEIR DRAINAGE SYSTEM, NEIGHBORING PROPERTIES, WETLANDS AND REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. DESIGNATED ACCESS DRIVES MUST BE USED TO THE MAXIMUM EXTENTS POSSIBLE. IT IS REQUIRED THAT THE SITE CONTRACTOR PERFORM A DAILY INSPECTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES EMPLOYED AT THE SITE.
2. A CTDEEP-APPROVED QUALIFIED INSPECTOR SHALL BE ASSIGNED TO BE RESPONSIBLE FOR PERFORMING INSPECTIONS AND PREPARING REPORTS IN ACCORDANCE WITH SECTION 5(B)(4)(B) OF THE CONSTRUCTION GENERAL PERMIT. THESE INSPECTIONS SHALL TAKE PLACE WEEKLY, AT A MINIMUM, AND SHALL BE REQUIRED WITHIN 24 HOURS OF A RAINFALL EVENT EXCEEDING 0.5 INCHES. THE ENGINEER OF RECORD SHALL BE REQUIRED TO REVIEW AND COUNTER-SIGN THE PREPARED WEEKLY REPORTS. IT IS ALSO ANTICIPATED THAT REPRESENTATIVES FROM CTDEEP AND/OR THE STATE CONSERVATION DISTRICT WILL PERFORM PERIODIC INSPECTIONS.
3. ENGINEER OF RECORD WILL PERFORM MONTHLY PLAN IMPLEMENTATION INSPECTIONS AND PREPARE REPORTS OF THE FINDINGS. THESE INSPECTIONS SHALL LAST A MINIMUM OF THREE (3) MONTHS OR UNTIL THE COMPLETION AND STABILIZATION OF ALL EROSION CONTROL MEASURES AT THE SITE.
4. THROUGHOUT THE COURSE OF THE CONSTRUCTION PROJECT, ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE WARRANTED AT THE DISCRETION OF THE QUALIFIED INSPECTOR AND/OR DESIGN ENGINEER. THESE IMPROVEMENTS MUST BE IMPLEMENTED IN A TIMELY FASHION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT. ADDITIONALLY, AREAS OF PROPOSED COMPACTED NATIVE SOIL ROADS SHALL BE CONVERTED TO STABLE GRAVEL ROADS IF/AS DETERMINED BY THE QUALIFIED INSPECTOR OR ENGINEER OF RECORD.
5. PRIOR TO CONSTRUCTION, THE APPLICANT SHALL PROVIDE THE TOWN OF NORTH HAVEN WITH THE NAME OF CONTACT AND 24-HOUR CONTACT INFORMATION.
6. CONTRACTOR SHALL ADHERE TO 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AS AMENDED.
7. THE CONTRACTOR SHALL HOLD PRE-CONSTRUCTION MEETING(S). ATTENDEES SHALL INCLUDE, BUT NOT BE LIMITED TO, DEVELOPER, REPRESENTATIVES OF THE GENERAL CONTRACTOR, SITE CONTRACTOR, CTDEEP, TOWN OF NORTH HAVEN, ENGINEER OF RECORD, AND QUALIFIED SWPPP INSPECTOR.
8. THE CONTRACTOR SHALL CONTACT CALL-BEFORE-YOU-DIG (1-800-922-4455) PRIOR TO ENGAGING IN ANY EXCAVATION ACTIVITIES AT THE SITE.
9. THE CONTRACTOR SHALL NOTIFY THE TOWN OF NORTH HAVEN AGENT, ZONING ENFORCEMENT OFFICER, AND ENGINEERING DEPARTMENT, 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
10. NO CONSTRUCTION OF SITE IMPROVEMENTS MAY BEGIN UNTIL THE PROPER EROSION CONTROL MEASURES SERVING THE AREA TO BE DISTURBED ARE IN PLACE.
11. ANTICIPATED WORK HOURS WILL BE BETWEEN 7:00 AM AND 5:00 PM.
12. ANY Dewatering by pump shall include an intake and/or discharge filtration system (i.e. dirtbag system) and be pumped to stable ground. CONTRACTOR TO ENSURE DISCHARGED WATER IS RUNNING CLEAN OR ALTERIOR METHODS MUST BE EMPLOYED.

PRE-CONSTRUCTION SITE PROTECTION SEQUENCE

1. ACCESS ROADS SHALL BE DESIGNATED AS EARLY AS FEASIBLE AND USED PRIMARILY FOR CONSTRUCTION TRAFFIC.
2. INSTALL EROSION AND SEDIMENT CONTROLS FOLLOWING THE CT GUIDELINES AND MANUFACTURER'S DIRECTIONS. DURING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL MEASURES AS REQUIRED BY THE ENGINEER OF RECORD OR QUALIFIED INSPECTOR, TO PREVENT SEDIMENT-LADEN RUNOFF FROM REACHING WETLANDS OR DISCHARGING OFFSITE.
3. INSTALL TEMPORARY SEDIMENT TRAPS AND CONVEYANCE SWALES IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC SWPPP AND CT GUIDELINES. THE ENGINEER OF RECORD SHALL INSPECT FEATURES TO CONFIRM REQUIRED STORAGE CAPACITIES ARE PROVIDED AND THAT OUTLETS AND/OR SPILLWAYS ARE CONSTRUCTED CORRECTLY. DISCHARGE AREAS BELOW OUTFALLS MUST BE INSPECTED TO CONFIRM FLOW WILL BE OVER STABLE GROUND AND SHEET FLOW IS ENCOURAGED. IF DISTURBED SOILS ARE PRESENT, THE ENGINEER OF RECORD TO PROVIDE CORRECT MEASURES TO ADDRESS CONDITION.
4. SEED AND PROTECT DISTURBED SOILS AROUND SEDIMENT TRAPS WITHIN 14 DAYS OF COMPLETION. SECURE SEED WITH BIODEGRADABLE EROSION CONTROL MATTING.

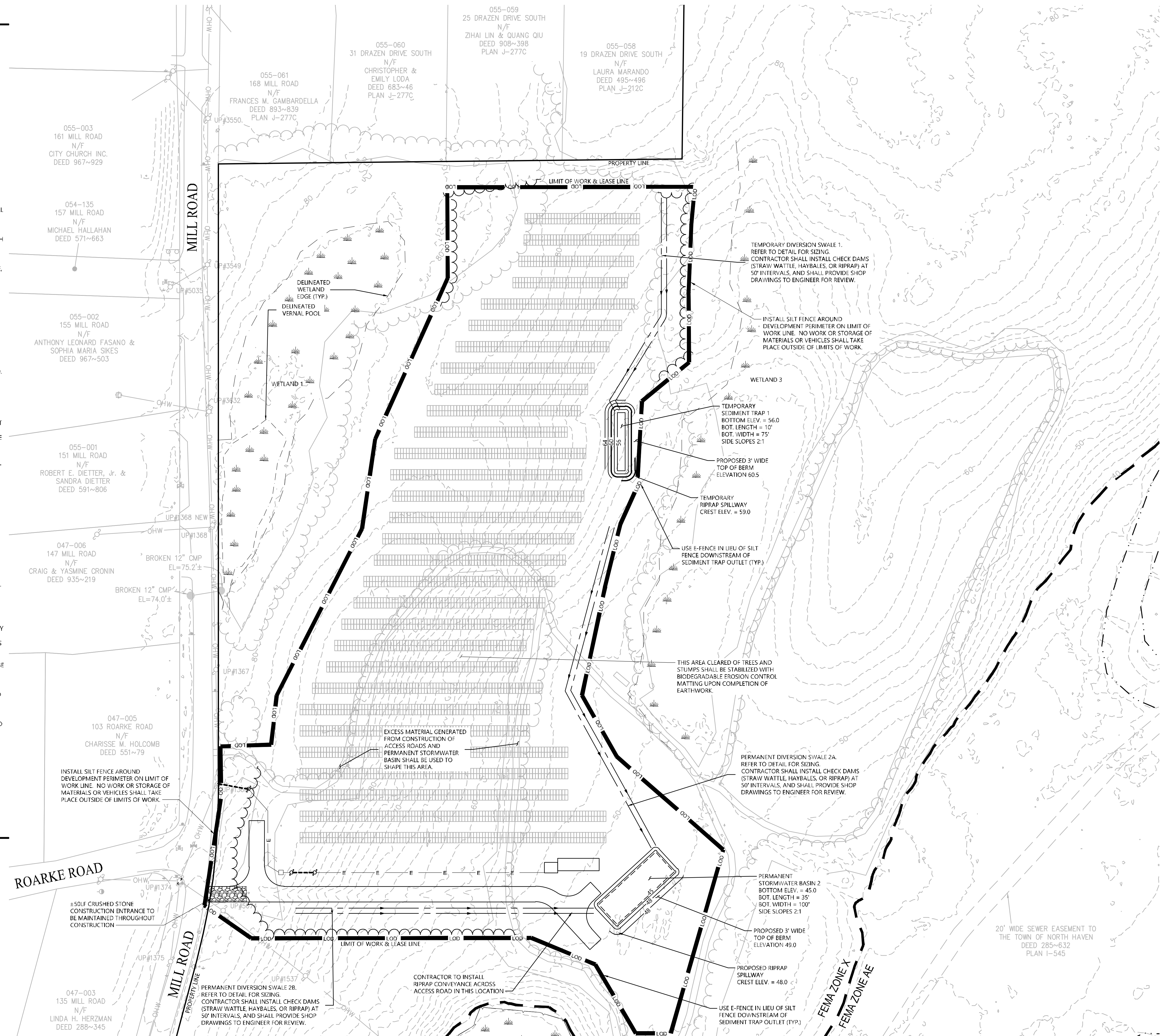
CONSTRUCTION SEQUENCE

1. CLEAR AND GRUB AREAS TO LIMITS PRESCRIBED ON THE PLANS.
2. PERFORM EARTHWORK ON THE SITE. THIS SHALL ONLY INCLUDE MINIMAL SHAPING WITHIN CLEARED/GRUBBED AREAS.
3. TOPSOIL SHALL BE REPLACED OVER REGRADED AREAS UPON COMPLETION OF MASS EARTHWORK ACTIVITIES AND AREAS WHICH WERE DISTURBED BY MASS EARTHWORK OPERATIONS SHALL BE RESEED WITHIN 14 DAYS OF COMPLETION.
4. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL ADDRESS ONGOING EROSION PROBLEMS USING TEMPORARY DIVERSIONS AND FILLING AND GRADING GULLIES. TRACK GULLIES UP AND DOWN SLOPE. A STAPLED BIODEGRADABLE EROSION CONTROL BLANKET WITHOUT MONOFILAMENT MESH IS AN ACCEPTABLE ALTERNATIVE FOR HYDROSEED AND BFM.
5. UPON COMPLETION OF THIS CONSTRUCTION PHASE, ALL DISTURBED AREAS SHALL BE SEEDED AND STABILIZED WITH BIODEGRADABLE EROSION CONTROL MATTING PRIOR TO CONTINUING CONSTRUCTION SEQUENCE.
6. INSTALL PILES AND/OR GROUND SCREWS FOR SOLAR PANEL RACKING.
7. INSTALL ELECTRICAL CONDUIT AS REQUIRED BY THE ELECTRICAL DESIGN PLANS.
8. THE INSTALLATION OF RACKING SHALL FOLLOW THE FOUNDATION INSTALLATION BY ROUGHLY ONE WEEK STARTING FROM THE SAME POINT.
9. RESEED AND REGRADE ALL AREAS DISTURBED BY CONSTRUCTION TRAFFIC WITHIN THE ARRAYS WHERE RACKS ARE INSTALLED AS EARLY AS POSSIBLE. RUTS AND RILLS SHALL BE SMOOTHED AND GRADED AS DISCOVERED.
10. INSTALL SOLAR PANEL MODULES IN THE RACKING. MUCH OF THIS WORK IS ANTICIPATED TO BE PERFORMED BY HAND AND LIGHT CONSTRUCTION EQUIPMENT WHICH WILL CAUSE MINIMAL DISTURBANCE COMPARED TO THE USE OF HEAVY EQUIPMENT. DESIGNATED ACCESS ROADS SHALL STILL BE USED TO THE MAXIMUM EXTENTS POSSIBLE.
11. UPON COMPLETION OF CONSTRUCTION, RE-SEED ALL DISTURBED AREAS WITHIN 14 DAYS AND PREVENT VEHICULAR TRAFFICKING OVER THESE AREAS. INSTALL FINAL LANDSCAPING.
12. AFTER SITE IS STABILIZED, AND AFTER INSPECTION BY DESIGN ENGINEER AND/OR CTDEEP REPRESENTATIVE, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS INCLUDING SEDIMENT TRAPS AND DIVERSION SWALES. ENTIRE SITE SHALL BE CHECKED FOR AND CLEANED OF SEDIMENT AS NEEDED.

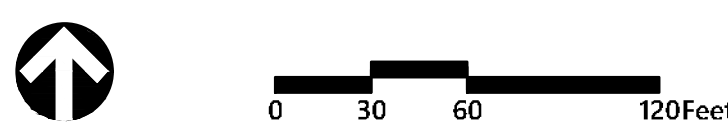
WILDLIFE PROTECTION

IT IS ANTICIPATED THAT THE PRESENCE OF BOX TURTLES OR WOOD TURTLES MAY BE LIKELY AT THE SITE IN ACCORDANCE WITH CONSULTATION WITH CTDEEP WILDLIFE DIVISION. THE CONSTRUCTION TEAM SHALL EMPLOY THE FOLLOWING RECOMMENDED PROTECTION STRATEGIES TO HELP ENSURE THE SURVIVABILITY OF TURTLES AT THE PROJECT AREA:

1. A 20 INCH TALL MINIMUM WILDLIFE EXCLUSIONARY BARRIER (I.E. NON-NETTED SILT FENCE) SHALL BE REGULARLY MAINTAINED AROUND THE ENTIRE LIMIT OF CONSTRUCTION TO DELINEATE AND PROTECT THE WORK AREA FROM TURTLES ENTERING IT.
2. CARE SHALL BE TAKEN AT ALL STAGING AND STORAGE AREAS OUTSIDE THE DELINEATED WORK ZONE TO REVIEW FOR THE PRESENCE OF EASTERN BOX TURTLES AND REMOVE THEM SAFELY, WHILE EXCLUDING THEM FROM RE-ENTRY TO THE AREA.
3. ALL CONSTRUCTION PERSONNEL SHALL BE APPRISED OF THE SPECIES DESCRIPTION AND INSTRUCTED TO RELOCATE TURTLES FOUND WITHIN WORK AREAS OR NOTIFY SOMEONE ELSE TO PERFORM THIS.
4. ALL SILT FENCE SHALL BE REMOVED ONCE THE PROJECT CONSTRUCTION IS COMPLETED.
5. THE CONTRACTOR SHALL SEARCH THE WORK AREA EACH MORNING PRIOR TO WORK BEING DONE.
6. LIMIT ANY EQUIPMENT USE WITHIN 50 FEET OF STREAMS AND BROOKS. GENERALLY, THE PROJECT DOES NOT PROPOSE ANY WORK WITHIN THIS BUFFER.
7. ANY CONFIRMED SIGHTINGS OF BOX, WOOD, OR SPOTTED TURTLES SHALL BE REPORTED AND DOCUMENTED WITH CTDEEP WILDLIFE DIVISION.
8. CHAIN LINK FENCE SHALL HAVE A 4" TO 6" GAP AT THE BOTTOM TO ALLOW ANIMAL MOVEMENT.
9. ANY REQUIRED TREE CLEARING PERFORMED BETWEEN APRIL 1 AND OCTOBER 31 PRIOR TO INSTALLATION OF PERIMETER SILT FENCE SHALL INVOLVE A HERPETOLOGIST TO INVESTIGATE THE AREA AT INTERVALS THROUGHOUT THE WORK PERIOD.



100 Great Meadow Road
Suite 200
Wethersfield, CT 06109
860.807.4300



North Haven Solar One
122 Mill Rd
North Haven, Connecticut

No.	Revision	Date	App'd

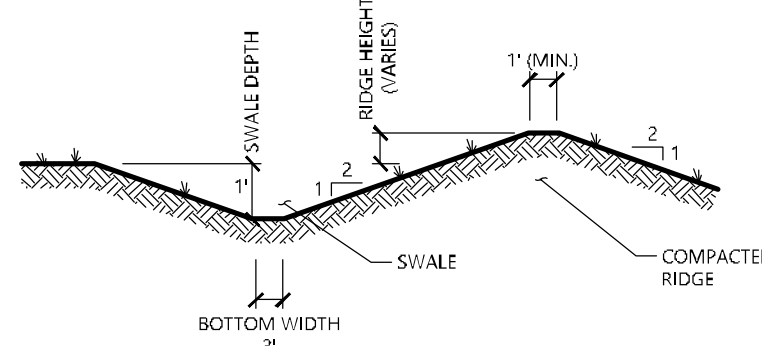
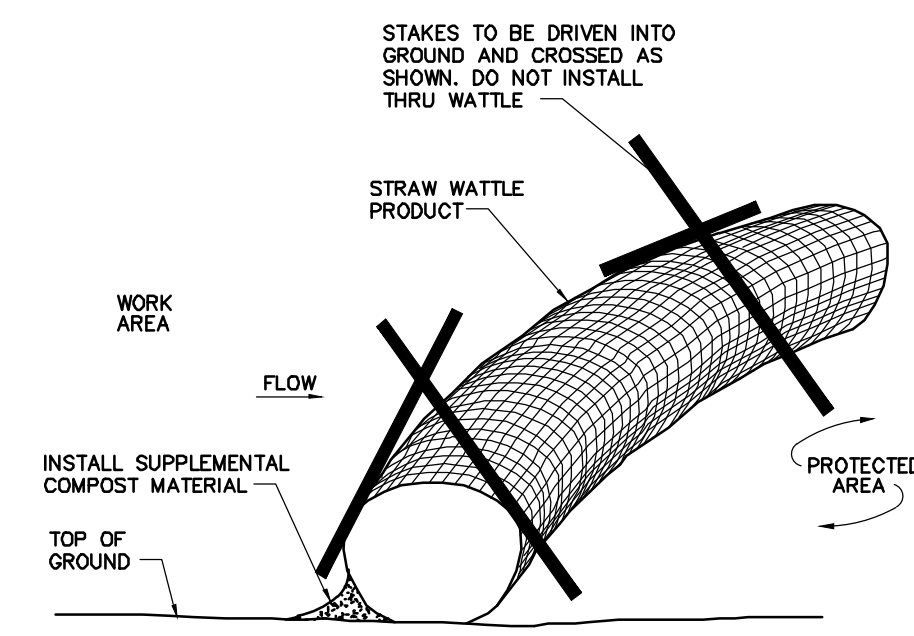
Designed by: DRB Checked by: SJK

Issued for: Application Date: September 22, 2022

Not Approved for Construction

Erosion and Sediment Control Plan

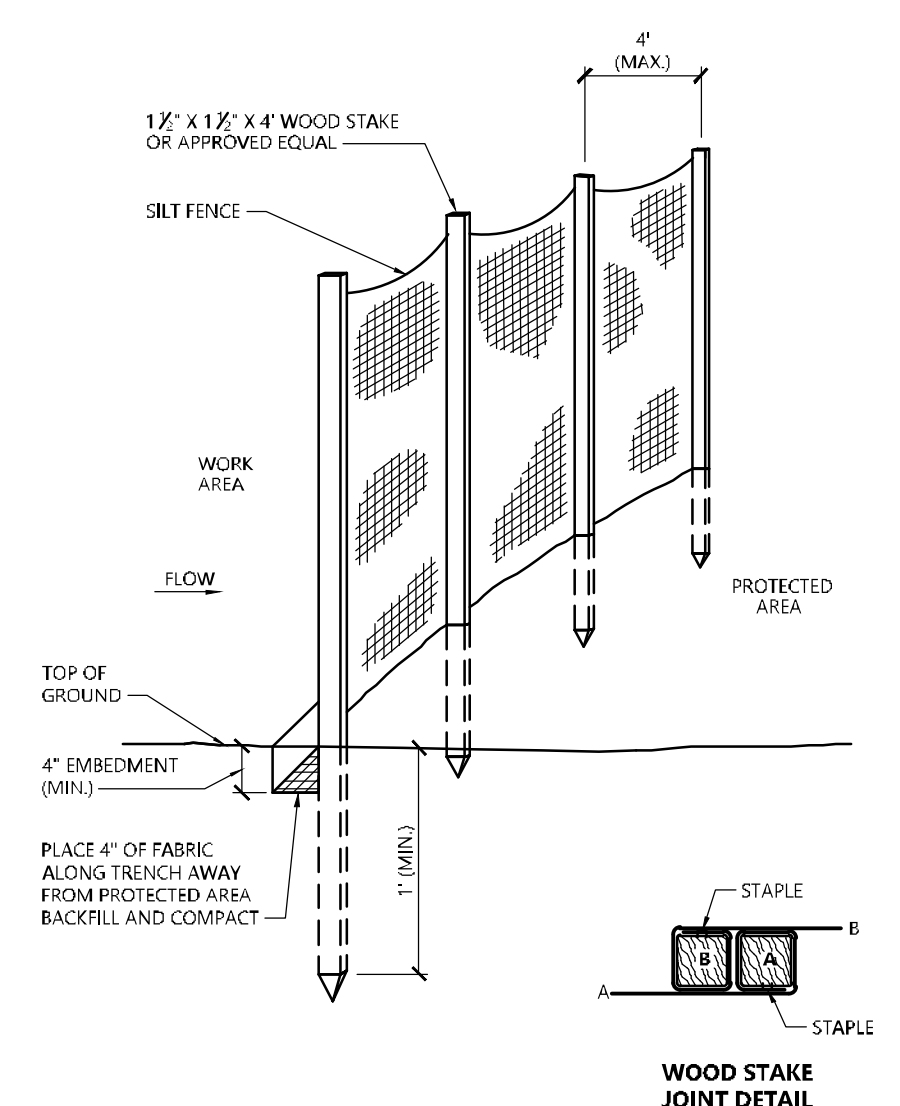
Sheet **C-4.0** of 6



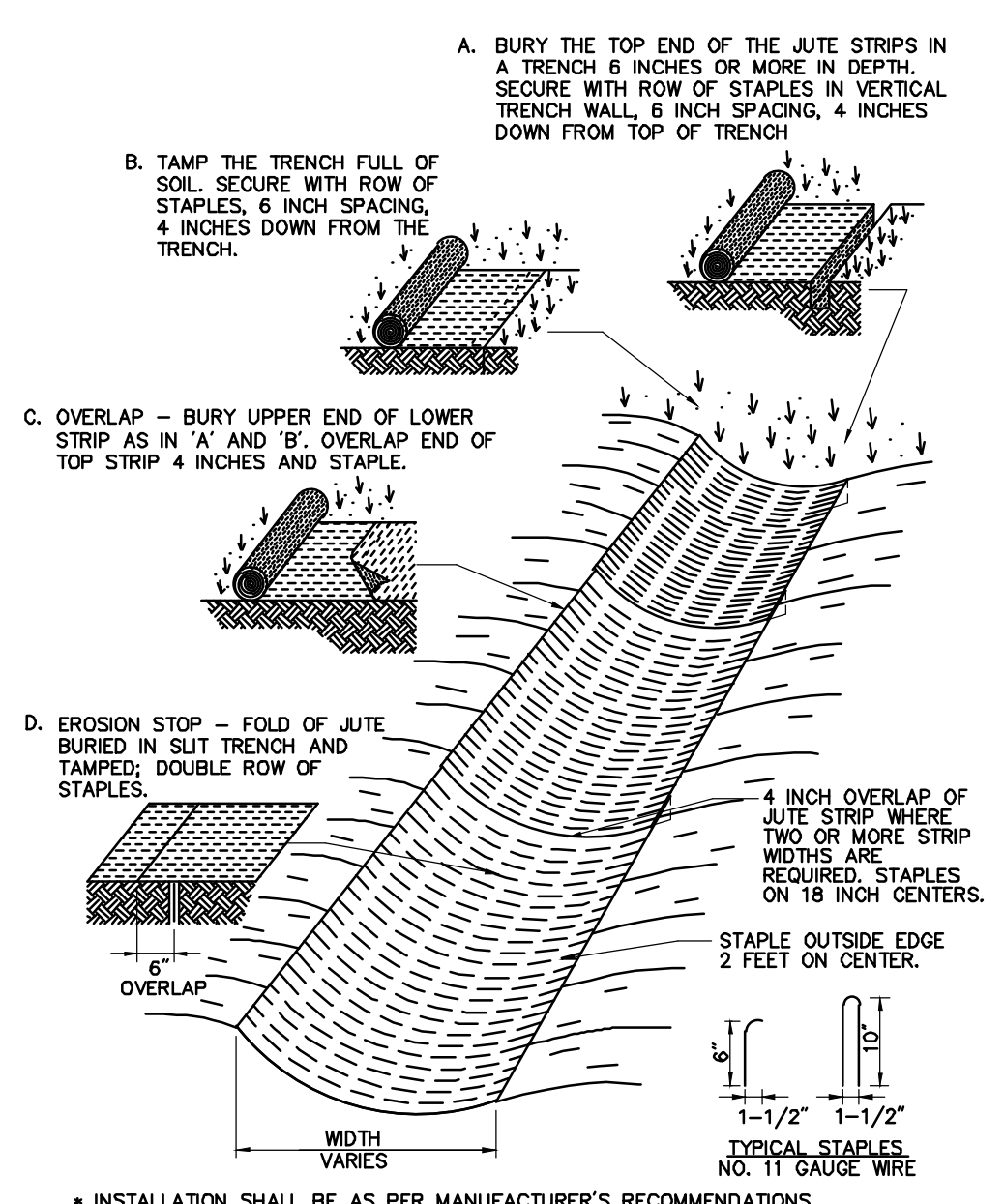
NOTE:
1. ALL SIDE SLOPES SHALL NOT EXCEED 2:1
2. SWALE SHALL BE LINED WITH EROSION CONTROL BLANKETS
3. THE INTENT IS TO USE THE MATERIAL EXCAVATED FROM THE SWALE TO CONSTRUCT THE RIDGE AT THE DOWN-HILL SIDE OF THE SWALE.

Straw Wattle Installation 8/12
N.T.S. Source: VHB LD_658

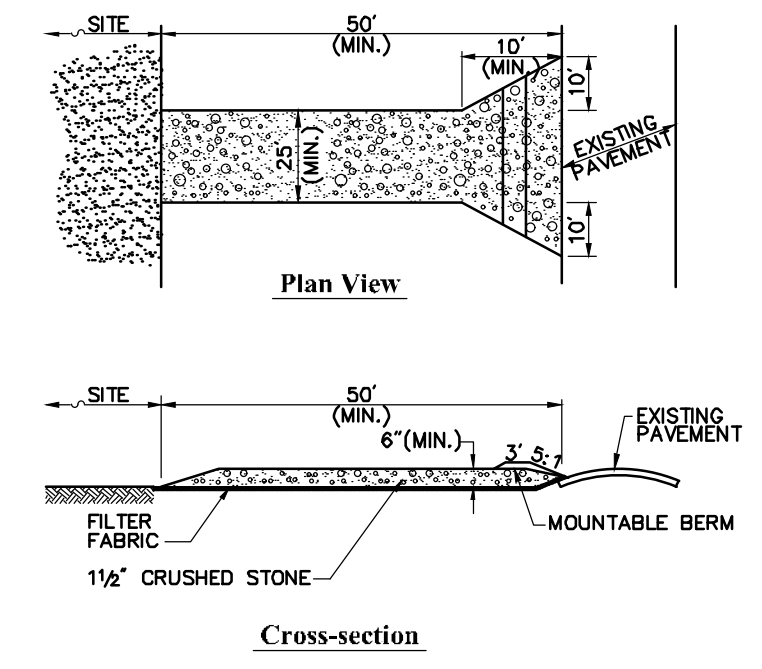
Diversion Swale 1/16
N.T.S. Source: VHB LD_650



Silt Fence Barrier 1/16
N.T.S. Source: VHB LD_650

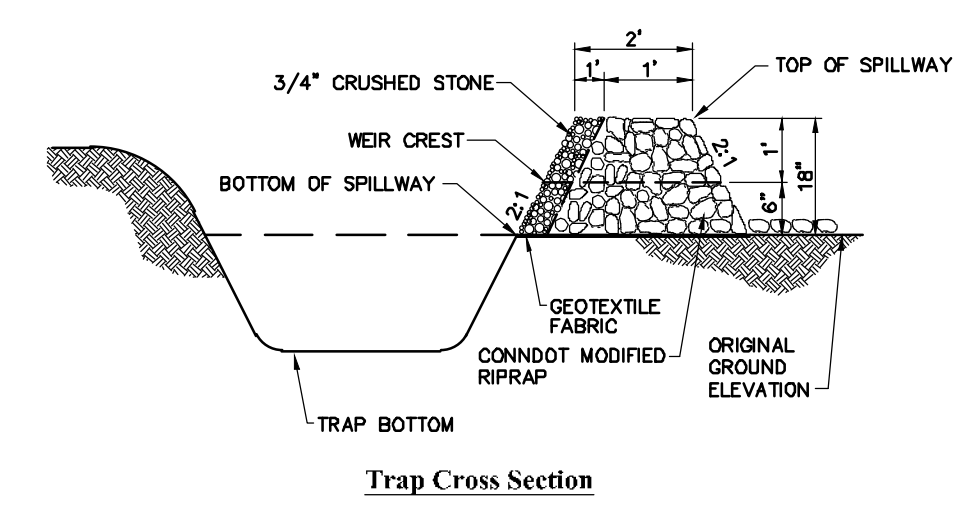


Erosion Control Blanket (ECB) Swale Installation 6/08
N.T.S. Source: VHB LD_681



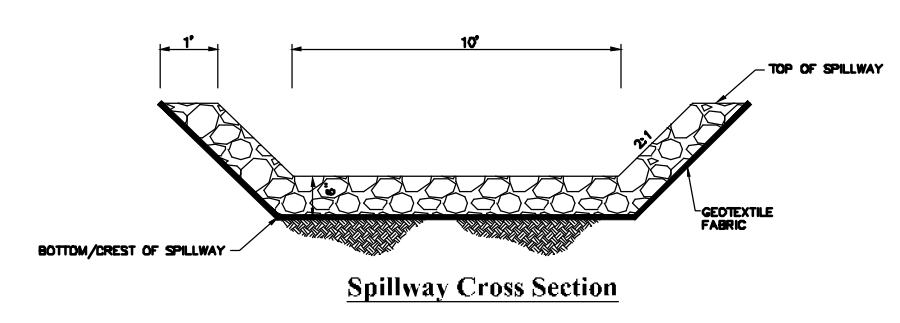
Notes:
1. ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Construction Exit 6/08
N.T.S. Source: VHB LD_882



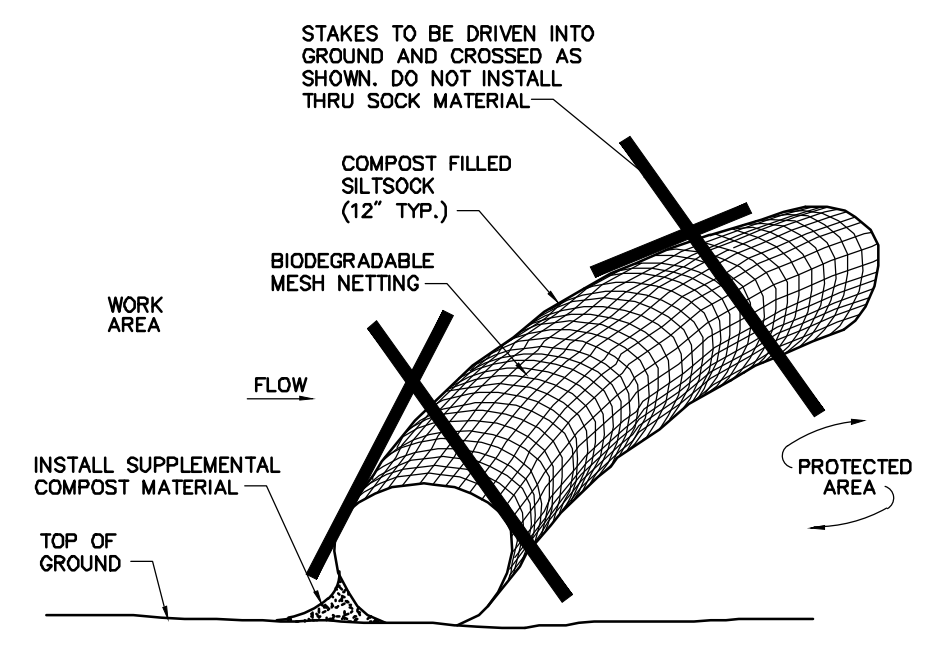
NOTE:
1. ALL SIDE SLOPES SHALL NOT EXCEED 2:1
2. SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER
3. TRAP SHALL BE DRAINED AND CLEANED OF SEDIMENT ONCE SEDIMENT IS > 1\"/>

Temporary Sediment Trap (TST) 8/12
N.T.S. Source: VHB LD_658



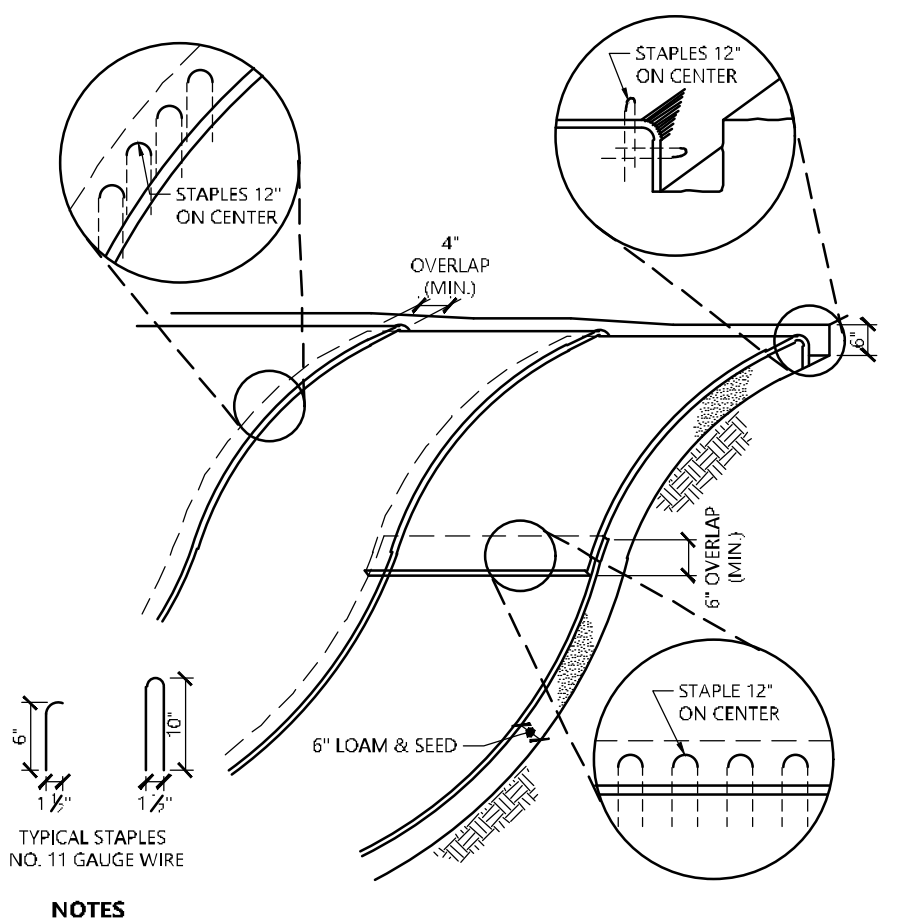
NOTE:
1. ALL SIDE SLOPES SHALL NOT EXCEED 2:1
2. TOP OF EMBANKMENT SHALL BE 2\"/>

Riprap Spillway 1/16
N.T.S. Source: VHB LD_650



Notes:
1. SILT SOCK SHALL BE 12\"/>

Compost Filter Sock (CFS) 8/12
N.T.S. Source: VHB LD_658



NOTES:
1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6\"/>

Erosion Control Blanket Slope Installation 1/16
N.T.S. Source: VHB REV LD_680

North Haven Solar One
122 Mill Rd
North Haven, Connecticut

No.	Revision	Date	App'd

Designed by: DRB Checked by: SJK
Issued for: Date:

Application: September 22, 2022

Not Approved for Construction

Site Details 2

Drawing Number

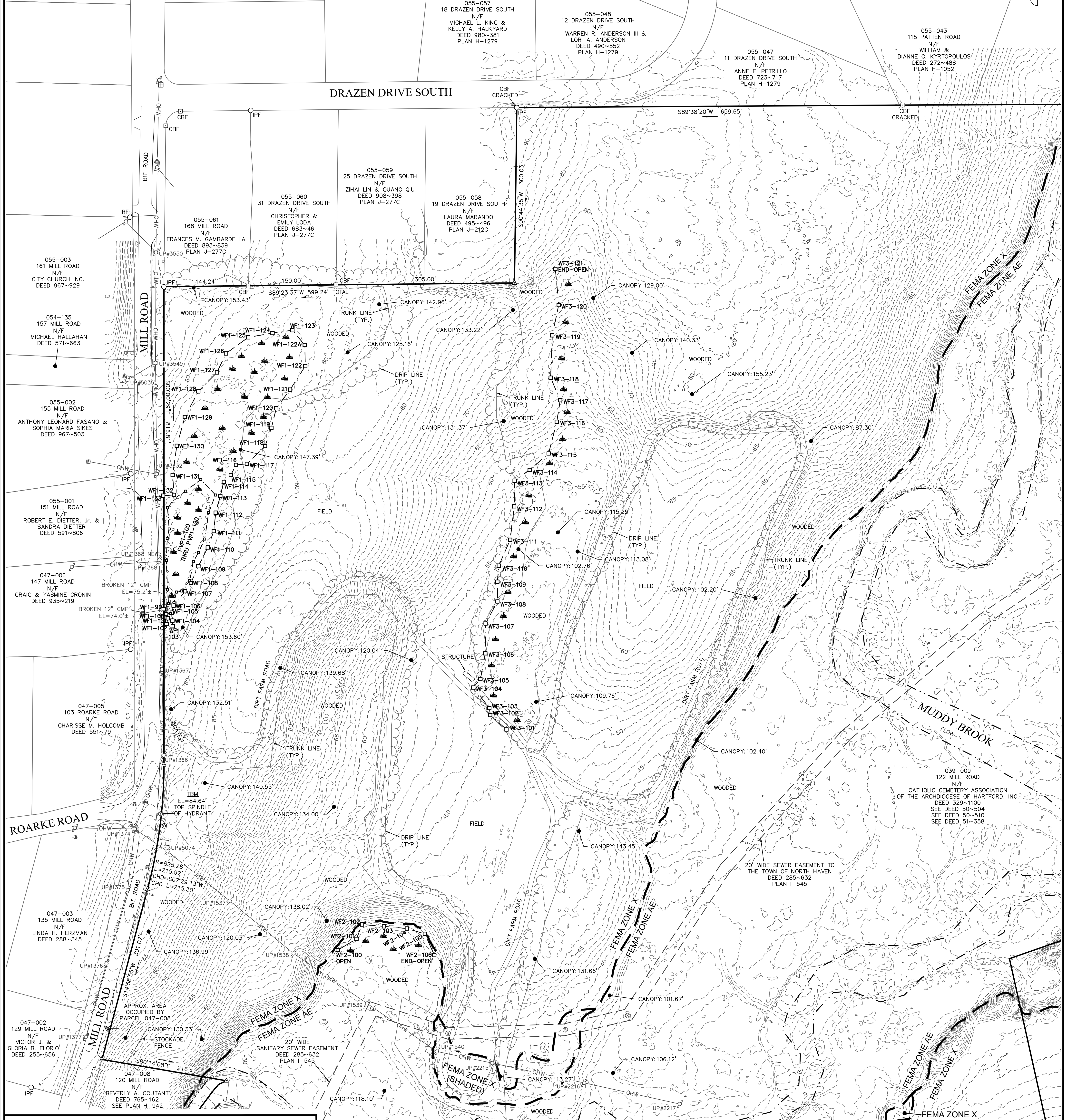
C-5.2

Sheet 6 of 6

Project Number: 42889.00

LEGEND

- LOCUS PROPERTY LINE
- ABUTTERS PROPERTY LINE
- EASEMENT LINE
- CONTOUR LINE
- WETLAND DELINEATION
- OVERHEAD WIRES
- FEMA FLOOD ZONE LINE
- DRIP LINE
- IRON PIPE FOUND
- CONCRETE BOUND FOUND
- CALCULATED POINT
- UTILITY POLE
- GUY POLE
- LIGHT POLE
- GUY WIRE ANCHOR
- PIPE INLET/OUTLET
- WETLAND FLAG
- SEWER MANHOLE
- POST
- SIGN
- WATER GATE VALVE
- HYDRANT

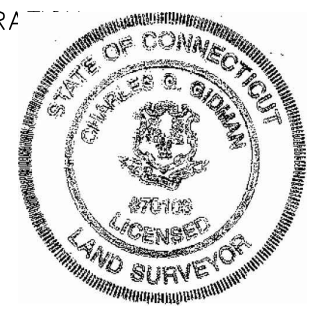


THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1997.

TYPE OF SURVEY: IMPROVEMENT LOCATION SURVEY
 BOUNDARY SURVEY CATEGORY: DEPENDENT RESURVEY
 CLASS OF ACCURACY: HORIZONTAL CLASS A-2
 VERTICAL CLASS V-2
 TOPOGRAPHIC CLASS T-2
 PURPOSE OF SURVEY: PROPOSED SOLAR FACILITY

THIS DOCUMENT AND COPIES THEREOF ARE VALID ONLY IF THEY BEAR THE LIVE SIGNATURE AND EMBOSSED SEAL OF THE DESIGNATED PROFESSIONAL. UNAUTHORIZED ALTERATIONS RENDER ANY DECLARATION NULL AND VOID.

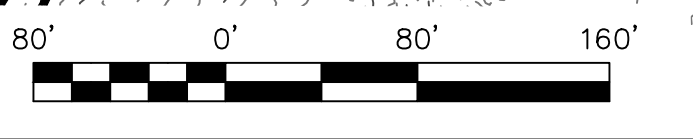
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



Charles G. Gidman
 CHARLES G. GIDMAN, P.L.S. #70103

NOTES:

1. FIELD SURVEY BY EDM TOTAL STATION & RTK GPS MARCH 2022.
2. THE HORIZONTAL DATUM IS NAD83. THE VERTICAL DATUM IS NAVD88. BOTH WERE DERIVED FROM RTK GPS OBSERVATIONS TAKEN ON SITE.
3. THE LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE ONLY. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION OF THESE UTILITIES AND MAY NOT SHOW ALL OF THE UTILITIES WHICH EXIST WITHIN THE PREMISES SURVEYED. CONTACT DIG-SAFE AT 1-888-344-7233 BEFORE EXCAVATION.
4. THE LOCUS PARCEL AND ALL ABUTTING PARCELS ARE LOCATED IN THE TOWN OF NORTH HAVEN R-40 ZONING DISTRICT.
5. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE LOCUS PROPERTY IS LOCATED IN AREAS DESIGNATED AS "ZONE X", "ZONE X (SHADED)", AND "ZONE AE". COMMUNITY PANEL NO. 09009C 0314 J & 09009C 0452 J, EFFECTIVE ON 5/16/2017.
6. WETLANDS WERE DELINEATED BY VANASSE HANGEN BRUSTLIN, INC. ON 12/23/2021.
7. ALL CONTOURS SHOWN HEREON WERE GENERATED IN QGIS FROM DIGITAL ELEVATION MODELS OF THE 2016 CRCOG LIDAR DATA, DISTRIBUTED BY NOAA.



SHEET NO. 1 OF 1	PLAN OF LAND IN NORTH HAVEN, CT PREPARED FOR VEROGY	SURVEYOR: CCG DRAFTING: JDG FIELD WORK: NAE PROJECT NUMBER: 21-264 DRAWING NAME: 21-264.DWG	ENGINEER: - DESIGN: - HORZ. SCALE: 1"=80' VERT. SCALE: - DATE: 3-21-2022	BOUNDARY SURVEY & LIDAR CONTOURS	 NORTHEAST SURVEY CONSULTANTS 3 FERRY STREET STUDIO 1 EAST EASTHAMPTON, MA 01027 (413) 203-5144
---	---	---	--	---	---