

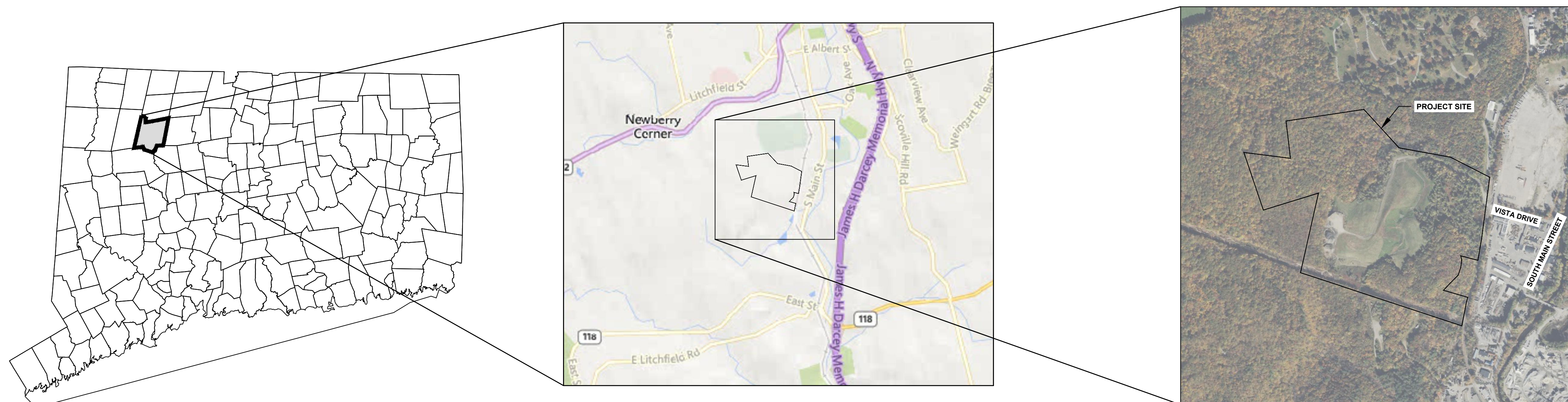
USS TORRINGTON SOLAR LLC PROPOSED 1.998 MW-AC SOLAR ARRAY

105 VISTA DR, TORRINGTON, LITCHFIELD COUNTY, CT

DEVELOPER: **USS TORRINGTON SOLAR LLC**
C/O UNITED STATES SOLAR CORPORATION
2150 POST ROAD
FAIRFIELD, CT 06824

PREPARED BY: **TRC**
WINDSOR, CT 06095

DATE: **OCTOBER 2023**



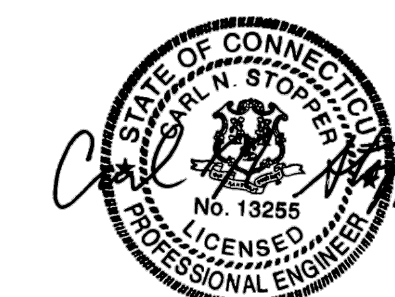
CONNECTICUT

TORRINGTON

SITE LOCATOR

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
G1.00	CIVIL COVER SHEET
G1.01	GENERAL NOTES & LEGEND
G1.02	EROSION CONTROL NOTES & DETAILS
C1.00	EXISTING CONDITIONS PLAN
C1.01	SITE PREPARATION PLAN - NORTH
C1.02	SITE PREPARATION PLAN - SOUTH
C2.00	OVERALL SITE LAYOUT PLAN
C2.01	SITE GRADING & DRAINAGE PLAN - NORTH
C2.02	SITE GRADING & DRAINAGE PLAN - SOUTH
C4.00	CIVIL CONSTRUCTION DETAILS
C5.00	PRELIMINARY ELECTRICAL DETAILS

AND ALL OTHER MATERIALS ARE THE PROPERTY OF TRC ENGINEERING, INC. TORRINGTON, CT. PROJECT: USS TORRINGTON SOLAR. SHEETS: 10/18/2023. 4:37PM - LAYOUT: G1.00



PERMITTING

PERMITTING

NOTE: THESE PLANS ARE ACCOMPANIED BY PERMIT APPLICATIONS OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER. THESE DOCUMENTS ARE INTENDED TO BE USED FOR REGULATORY PURPOSES ONLY.



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 Windsor, CT 06095
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GENERAL NOTES

- 1. THE PROJECT HORIZONTAL COORDINATES SYSTEM IS BASED ON NAD83 CONNECTICUT STATE PLANE ZONE (US SURVEY FEET, CT83F). ELEVATIONS ARE BASED ON NAVD88 (US SURVEY FEET).
2. PROJECT PROPERTY BOUNDARIES AND SITE TOPOGRAPHIC INFORMATION ARE BASED UPON ON-THE-GROUND FIELD SURVEY COMPLETED BY LAND DESIGN ASSOCIATES ENGINEERING, SURVEYING, AND LANDSCAPE ARCHITECTURE, D.P.C. IN SEPTEMBER 2022. SURVEY PLANS SEALED BY A LICENSED PROFESSIONAL LAND SURVEYOR ARE PROVIDED UNDER SEPARATE COVER.
3. UTILITY INFORMATION DEPICTED IS COMPILED USING PHYSICAL SURFACE EVIDENCE LOCATED IN THE FIELD IN CONJUNCTION WITH ANY RECORD INFORMATION AVAILABLE AT THE TIME OF THE FIELD SURVEY AND MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. THEREFORE ALL UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND BE VERIFIED BY THE CONTRACTOR. DIGSAFE SHALL BE NOTIFIED A MINIMUM OF 72-HOURS PRIOR TO COMMENCING ANY EXCAVATION. FULL UTILITY COORDINATION WITH NON-MEMBER UTILITIES AND USE OF GROUND-PENETRATING RADAR TO LOCATE UTILITIES SHOULD BE PERFORMED AS NECESSARY.
4. WETLAND DELINEATION WITHIN THE PROJECT AREA WAS PERFORMED BY TRC IN OCTOBER 2022 AND MARCH 2023 AND LOCATED USING MAPPING GRADE GPS UNITS. ADDITIONAL NATURAL RESOURCE AND ZONING INFORMATION IS COMPILED FROM A COMBINATION OF SOURCES INCLUDING STATE OF CONNECTICUT GIS DATA.
5. LIMITS OF LANDFILL DISPOSAL AREAS AND MONITORING WELL LOCATIONS ARE BASED ON RECORD INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND LOCATION OF STRUCTURES PRIOR TO INITIATING CONSTRUCTION. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY SITE CONDITIONS THAT DIFFER FROM THOSE SHOWN HEREIN. LANDFILL SITE INFRASTRUCTURE AND MONITORING LOCATIONS SHOULD BE PROTECTED THROUGHOUT CONSTRUCTION.
6. THIS IS A PRELIMINARY DESIGN PLAN. FINAL DESIGN SHALL BE MODIFIED BY CONTRACTOR TO MATCH FINAL ELECTRICAL INTERCONNECTION STUDIES, EQUIPMENT PURCHASED, AND POSSIBLE PERMIT CONSTRAINTS REVEALED DURING PROJECT'S REVIEW. ELECTRICAL EQUIPMENT LAYOUT, INCLUDING SOLAR ARRAY, EQUIPMENT PADS, UTILITY POLES, ETC. WERE PROVIDED BY US SOLAR CORPORATION IN A CAD FILE ON JULY 12, 2023.
7. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, PROJECT GEOTECHNICAL REPORT, PERMIT CONDITIONS, AND ANY OTHER APPLICABLE TECHNICAL REPORTS. WHERE INDICATED, STATE AND/OR LOCAL STANDARD SPECIFICATIONS SHALL APPLY. ALL WORK SHALL COMPLY WITH THE ASSOCIATED STANDARDS SET FORTH IN THE CITY OF TORRINGTON ZONING REGULATIONS.
8. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING STATE AND FEDERAL REQUIREMENTS WITH RESPECT TO STORMWATER DISCHARGE.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES AND SITE INFRASTRUCTURE WITHIN OR ADJACENT TO THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
10. CONSTRUCTION SHALL NOT OCCUR IN ANY PUBLIC RIGHTS OF WAY, PUBLIC OR PRIVATE EASEMENTS, BEYOND THE LIMITS OF DISTURBANCE, OR OUTSIDE THE PROPERTY LIMITS WITHOUT NECESSARY PERMITS. ANY PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE COST OF THE CONTRACTOR.
11. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT OF WAY. OVERNIGHT PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE LANDOWNER FOR SITE ACCESS AND USE AND SHALL COMPLETE WORK IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ACCESS AGREEMENT.
13. ALL PROPERTY CORNERS OR MONUMENTS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.
14. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING THE POLLUTION OF THE ENVIRONMENT.
15. CONTRACTOR TO ENSURE ALL WORK PERFORMED IS IN ACCORDANCE WITH EXISTING PROJECT PERMITS, STUDIES, AND REPORTS PROVIDED IN THE CONTRACT DOCUMENTS INCLUDING STATE CONSTRUCTION GENERAL PERMIT, STATE APPROVALS ASSOCIATED WITH POST-CLOSURE USE AT A SOLID WASTE DISPOSAL FACILITY, AND LOCAL ORDINANCES.
16. IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE THE IDENTIFIED PROJECT BOUNDARIES AND APPROVED LIMITS OF DISTURBANCE.
17. IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR AVOID "FILLING" WETLANDS AT ALL COSTS. CONTRACTOR TO AVOID THE DELINEATED WETLAND AREAS AND NATURAL RESOURCES ONSITE.
18. WHENEVER PRACTICABLE, NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE. IF DISTURBANCE ACTIVITIES SHOULD TAKE PLACE UPGRADIENT TO AND LESS THAN 50 FEET OF ANY PROTECTED NATURAL RESOURCE, PERMETER EROSION CONTROLS MUST BE DOUBLED. ALL AREAS WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS NOVEMBER 1 THROUGH APRIL 15. EXPOSED AREAS UPGRADIENT TO AND LESS THAN 100 FEET OF ANY PROTECTED NATURAL RESOURCE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS, OR PRIOR TO A STORM EVENT.
19. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
20. EXISTING ACCESS ROADS TO BE MAINTAINED SHALL BE PROOF ROLLED, SMOOTHED, RESURFACED, AND REPAIRED AS NECESSARY TO PROVIDE AN ACCEPTABLE SURFACE.
21. THE CONTRACTOR SHALL SECURE PERMITS FROM THE STATE AND CITY OF TORRINGTON AS NECESSARY BEFORE DRIVING CONSTRUCTION EQUIPMENT OVER AND ACROSS STATE AND TOWN MAINTAINED ROADS.
22. ALL WORK IN THE PUBLIC RIGHTS OF WAY SHALL CONFORM WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION.
23. THE INTEGRITY OF THE LANDFILL COVER SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE SHALL BE NO PENETRATIONS IN THE COVER OR REMOVAL OF COVER MATERIAL UNLESS SPECIFIED IN THESE PLANS OR PRIOR APPROVAL IS GRANTED BY CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (CTDEEP).
24. IF DAMAGE TO THE LANDFILL COVER OCCURS, IT SHALL BE RESTORED TO PREEXISTING CONDITIONS AS SOON AS POSSIBLE. THE LANDFILL COVER SYSTEM FOR THE MSW DISPOSAL AREA IS COMPRISED OF (FROM TOP TO BOTTOM) 6 INCHES OF TOPSOIL, 18" BARRIER SOIL, AND 12" SUBGRADE MATERIAL.
25. ONLY LOW GROUND PRESSURE EQUIPMENT (HAVING A CONTACT PRESSURE OF 10 PSI OR LESS), SUCH AS TRACK-MOUNTED CONSTRUCTION EQUIPMENT AND RUBBER-TIRED LANDSCAPING EQUIPMENT, SHALL TRAVEL DIRECTLY ON THE LANDFILL COVER. ALL OTHER EQUIPMENT SHALL BE ROUTED OVER ACCESS ROADS. TEMPORARY ACCESS ROADS SHOULD BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER IF RECURRING DAMAGE TO THE LANDFILL COVER OCCURS.
26. WHERE APPROVAL OR DIRECTION BY AN ENGINEER IS SPECIFIED, THIS INCLUDES A QUALIFIED ENGINEER OR PROFESSIONAL (CONNECTICUT REGISTERED PROFESSIONAL ENGINEER (PE), CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENTATION CONTROL (CPESC), OR SIMILAR SPECIALIST).

HOUSEKEEPING NOTES

CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN ACCORDANCE WITH THE FOLLOWING PERFORMANCE STANDARDS:

- 1. SPILL PREVENTION: CONTROLS SHALL BE IN PLACE TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS USED AND STORED ONSITE. APPROPRIATE CONTROLS INCLUDE, BUT ARE NOT LIMITED TO, PROPER STORAGE PRACTICES THAT MINIMIZE EXPOSURE OF MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
2. GROUNDWATER PROTECTION: DURING CONSTRUCTION, THE CONTRACTOR MAY NOT STORE OR HANDLE LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER IN AREAS OF THE PROJECT SITES DRAINING TO AN INFILTRATION AREA OR WITHIN 100 FEET OF A CRITICAL RESOURCE AREA OR STREAM, DIKES, BERMS, SLUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORING AND HANDLING LIQUID HAZARDOUS MATERIALS.
3. FUGITIVE SEDIMENT AND DUST: CONTRACTOR SHALL TAKE ALL NECESSARY ACTIONS TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH WATER. CALCIUM CHLORIDE AND OIL MAY NOT BE USED FOR DUST CONTROL. CONTRACTOR SHALL MONITOR VEHICLES ENTERING AND EXITING THE PROJECT SITE FOR EVIDENCE OF TRACKING MUD ONTO PUBLIC OR PRIVATE ROADWAYS OUTSIDE THE WORK AREA. IF NECESSARY, CONTRACTOR SHALL PROVIDE MEANS FOR SWEEPING AND CLEANING ROAD AREAS EXPERIENCING TRACKING. PAVED SURFACES SHALL BE VACUUM SWEEP WHEN DRY. IF OFF-SITE TRACKING OCCURS ON PUBLIC ROADS, THEY SHOULD BE SWEEP IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. DURING THE MUD SEASON IT MAY BE NECESSARY TO INCREASE THE SIZE OF STABILIZED CONSTRUCTION ENTRANCES OR PROVIDE A WHEEL WASHING STATION.
4. DEBRIS AND OTHER MATERIALS: CONTRACTOR SHALL MANAGE ALL LITTER, CONSTRUCTION DEBRIS, CONSTRUCTION CHEMICALS, AND BUILDING AND LANDSCAPING MATERIALS EXPOSED TO STORMWATER TO PREVENT MATERIALS FROM BECOMING A SOURCE OF POLLUTION.
5. TRENCH OR FOUNDATION DEWATERING: TRENCH DEWATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, SLUMPS, BASINS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL REMOVE COLLECTED WATER FROM THE PONDED AREAS, EITHER THROUGH GRAVITY OR PUMPING, IN A MANNER THAT SPREADS IT THROUGH NATURAL WOODED BUFFERS OR TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE (E.G. COFFERDAM SEDIMENT BASIN). WATER FROM DEWATERING SHALL NOT DISCHARGE TO RESOURCE AREAS; SHALL NOT CAUSE SCOURING OR EROSION, SHALL NOT CONTAIN SIGNIFICANT AMOUNTS OF SUSPENDED SOLIDS, AND SHALL NOT CONTAIN A VISIBLE SHEEN, FLOATING SOLIDS, OR FOAMING. THE CONTRACTOR SHALL AVOID PRACTICES THAT ALLOW SEDIMENT LADEN WATER FROM DEWATERING TO FLOW OVER DISTURBED AREAS OF THE PROJECT SITE. OTHER MEASURES OR METHODS MAY BE UTILIZED AS REVIEWED AND APPROVED BY THE ENGINEER AND, IF NECESSARY, THE CTDEEP. DEWATERING ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH ANY ADDITIONAL REQUIREMENTS AS OUTLINED IN THE CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES.
6. AUTHORIZED NON-STORMWATER DISCHARGES: THE CONTRACTOR SHALL IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES, WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST. THEY MUST BE IDENTIFIED AND STEPS SHALL BE TAKEN TO ENSURE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENTS OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE: DISCHARGES FROM FIREFIGHTING ACTIVITY, FIRE HYDRANT FLUSHING, DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS, ROUTINE EXTERNAL BUILDING WASHWATER, PAVEMENT WASHWATER (EXCLUDING AREAS OF SPILLS OR LEAKS OF TOXIC/HAZARDOUS MATERIALS AND USE OF DETERGENTS), UNCONTAMINATED GROUNDWATER OR SPRING WATER, FOUNDATION OR FOOTING DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED, UNCONTAMINATED EXCAVATION DEWATERING, POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING, AND LANDSCAPE IRRIGATION.
7. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE CONTRACTOR SHALL IDENTIFY AND PREVENT CONTAMINATION BY UNAUTHORIZED NON-STORMWATER DISCHARGES. UNAUTHORIZED STORMWATER DISCHARGES INCLUDE, BUT ARE NOT LIMITED TO, WASTEWATER FROM CONCRETE WASHOUT, FUELS OR HAZARDOUS SUBSTANCES, AND DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING.
8. ADDITIONAL REQUIREMENTS: COMPLETION OF THE WORK WILL REQUIRE FREQUENT ACCESS TO VARIOUS PORTIONS OF THE PROJECT AREA FROM STATE AND LOCAL ROADWAYS. CONTRACTOR SHALL MONITOR PUBLIC ROADWAYS AND SHALL CLEAN PAVEMENT BY MEANS NECESSARY IN THE EVENT THAT SEDIMENT OR TRACKING IS OBSERVED. SIGNAGE SHALL BE POSTED AT INTERSECTIONS OF PROJECT ACCESS ROADS AND PUBLIC WAYS, STATING COMPANY NAME AND 24-HOUR CONTACT PHONE NUMBER.

LEGEND

Table with 2 columns: Symbol/Line Style and Description. Includes symbols for surveyed property boundary, approximate abutting property boundary, boundary monument, iron pipe, benchmark, existing monitoring well, existing edge of pavement/concrete, existing edge of gravel, existing fence, existing overhead electric & poles, existing rip rap, existing tree, existing building, existing major contour, existing minor contour, existing spot elevation, existing trees and/or brush, field delineated wetland, NW mapped wetland, field delineated ephemeral stream, field delineated intermittent stream, NW mapped waterbody, upland review area, FEMA 100-year flood zone, FEMA 500-year flood zone, proposed gravel access, proposed concrete equipment pad, proposed minor contour, proposed major contour, proposed tree line/clearing limits, proposed chain link fence, proposed overhead electric line and pole, proposed MV aboveground electric line, proposed LV aboveground electric line, proposed fixed-tilt ballasted array, limits of disturbance, sediment barrier (double row).

*NOTE: UPLAND REVIEW AREA CONSISTS OF 75-FOOT BUFFER ZONE ASSOCIATED WITH TORRINGTON IWC REGULATED INLAND WETLANDS AND 100-FOOT BUFFER ZONE ASSOCIATED WITH TORRINGTON IWC REGULATED WATERCOURSES.

ZONING REQUIREMENTS

ZONING DISTRICTS SUMMARY TABLE and DIMENSIONAL STANDARDS table. The summary table shows Industrial District (I) with no overlay zoning districts. The dimensional standards table lists requirements for min. front yard setback, min. side yard setback, min. rear yard setback, and building max. height for Industrial District (I).

SITE SPECIFIC SOILS TABLE

Table with 5 columns: ID, NAME, SLOPE RANGE, TEXTURE, HYDROLOGIC SOIL GROUP. Lists soil types like RIDGEBURY, LEICESTER, AND WHITMAN, SUTTON, CANTON AND CHARLTON, CHARLTON-CHATFIELD, HOLLIS-CHATFIELD-ROCK, HOLLIS-CHATFIELD-ROCK, PAXTON AND MONTAUK, DUMPS, and UDORHTENTS-URBAN.

PROJECT SCHEDULE

SPECIFICS OF HOW WORK IS TO BE COMPLETED SHALL ALSO BE BASED ON ENVIRONMENTAL CONSIDERATIONS ASSOCIATED WITH SEASONAL CHANGES. THE FOLLOWING DATES ARE PROVIDED TO ESTABLISH A GENERAL GUIDELINE FOR THESE SEASONS:

- WINTER: NOVEMBER 1 TO MARCH 19
- MUD SEASON: MARCH 20 TO APRIL 30
- SPRING: MAY 1 TO JUNE 21
- SUMMER: JUNE 22 TO SEPTEMBER 21
- FALL: SEPTEMBER 22 TO OCTOBER 31

MULCH ANCHORING REQUIREMENTS

ON SLOPES GREATER THAN 3 PERCENT, STRAW MULCH WILL BE FIRMLY ANCHORED INTO THE SOIL UTILIZING ONE OF THE FOLLOWING METHODS:
- CRIMPING WITH A STRAIGHT OR NOTCHED MULCH CRIMPING TOOL (FARM DISCS WILL NOT BE ALLOWED);
- TRACK WALKING WITH DEEP-CLEATED EQUIPMENT OPERATING UP AND DOWN THE SLOPE (MULCH CRIMPED PERPENDICULAR TO THE SLOPE) ON SLOPES <25 PERCENT;
- APPLICATION OF MULCH NETTINGS;
- APPLICATION OF 1000 LB./ACRE OF WOOD FIBER MULCH OVER STRAW/HAY MULCH; AND
- COMMERCIALLY AVAILABLE TACKIFIERS (EXCEPT WITHIN 100 FEET OF WATERBODIES OR WETLANDS).

WINTER CONSTRUCTION AND STABILIZATION NOTES

THE FOLLOWING GENERAL PRACTICES AND PROCEDURES SHOULD BE USED DURING ANY CONSTRUCTION OCCURRING OVER THE WINTER SEASON AND THROUGH APRIL 15.
- EXPOSED AREAS SHOULD BE LIMITED TO THOSE WHERE WORK WILL OCCUR WITHIN THE NEXT 14 CALENDAR DAYS.
- EXPOSED AREAS SHOULD NOT EXCEED THE LIMIT OF WHAT CAN BE MULCHED IN 1 DAY (PRIOR TO PREDICTED PRECIPITATION);
- AT THE END OF EACH CONSTRUCTION DAY, AREAS THAT HAVE BEEN BUILT UP TO FINAL GRADE MUST BE STABILIZED;
- WHERE FROZEN GROUND PREVENTS INSTALLATION OF SILT FENCE OR GROUND PENETRATING SEDIMENT BARRIERS, THE CONTRACTOR SHALL REQUEST AN APPROPRIATE DETAIL MODIFICATION FROM THE ENGINEER.
- PERMANENT SEEDING SHALL NOT BE ATTEMPTED, UNLESS DORMANT SEEDING APPLICATION METHOD IS APPROVED BY ENGINEER.
- ALL AREAS WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS, AND
- ALL VEGETATED DITCH LINES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1, OR WILL BE WORKED ON BETWEEN NOVEMBER 1 AND APRIL 15, MUST BE STABILIZED WITH STONE LINING BACKED BY GRAVEL BED OR GEOTEXTILE AS SPECIFIED BY THE ENGINEER.

SOIL MATERIAL SPECIFICATIONS

PROPOSED GRADES ON THE LANDFILL COVER SHALL BE ACHIEVED BY PLACING FILL MATERIAL FOLLOWED BY A MINIMUM 6-INCH TOPSOIL LAYER IN ACCORDANCE WITH THE LANDFILL COVER IMPROVEMENT DETAIL ON SHEET C4.00 AND WITH SOIL MATERIAL SPECIFICATIONS AS FOLLOWS:

FILL MATERIAL SHALL CONSIST OF EARTH FREE FROM FROZEN MATERIAL, DEBRIS, AND OTHER DELETERIOUS MATERIAL. THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE ADEQUATE COMPACTION. MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3 INCHES IN DIAMETER.

TOPSOIL SHALL BE STRIPPED WITHIN THE AREA OF THE PROPOSED CONTOURS INDICATED ON THE SITE GRADING PLAN AND DEUSED FOR THE 6-INCH TOPSOIL LAYER PLACED OVER THE FILL MATERIAL. IF THE QUANTITY OF TOPSOIL ON-SITE IS INSUFFICIENT, OR DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION, ADDITIONAL TOPSOIL MATERIAL SHALL BE PROVIDED FROM AN OFF-SITE SOURCE. MATERIAL SHALL BE FRIABLE, FERTILE, LOAMY SOIL CONTAINING AN AMOUNT OF ORGANIC MATTER NORMAL TO THE REGION, CAPABLE OF SUSTAINING HEALTHY PLANT LIFE, SHALL BE FREE FROM REFUSE, SUBSOILS, ROOTS, WEEDS, STUMPS, STONES LARGER THAN 2 INCHES, MATERIALS TOXIC TO PLANT GROWTH, AND FOREIGN OBJECTS.

PROJECT SITE INFORMATION

Table with 7 columns: PARCEL ID, PARCEL ADDRESS, PARCEL AREA (AC.), OWNER NAME, OWNER ADDRESS, TOWN, STATE, ZIP CODE. Row 1: 235-001-012, 105 VISTA DR, TORRINGTON, CT, #97.5, CITY OF TORRINGTON, 140 MAIN ST, TORRINGTON, CT, 06790.

SEED AND MULCH SPECIFICATIONS

SEED MIX SPECIFICATIONS table with 3 columns: SEED MIX NAME, SEED MIX COMPONENTS, LB./ACRE. Lists Temporary Seed Mix, Permanent Seed Mix, and Supplemental Winter Seed Mix with their respective components and rates.

SUMMARY OF TEMPORARY AND PERMANENT MULCH APPLICATION REQUIREMENTS

Table with 4 columns: CONDITION, TIMING, MULCH TYPE, APPLICATION RATES. Details requirements for inactive areas, all disturbed areas, work areas, and permanent areas regarding mulch application.

NOTES:
1. IN ALL CASES, SUFFICIENT MULCH SHALL BE APPLIED SUCH THAT NO SOIL IS VISIBLE THROUGH THE MULCH.
2. DOUBLE RATE OF WOOD FIBER MULCH WHEN USED IN OR ADJACENT TO CRITICAL AREAS.
3. PAPER MULCH IS ACCEPTABLE FOR USE DURING THE GROWING SEASON, ON SLOPES >30 PERCENT AND IN AREAS WHERE VEGETATION HAS NOT ESTABLISHED WELL. ADDITIONAL HAY MULCH WILL BE ADDED AS A WINTERIZING MEASURE.
4. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.

SUMMARY OF SEEDING REQUIREMENTS

Table with 3 columns: CONDITION, TIMING, SEED MIX. Details seeding requirements for temporary and permanent seeding on various conditions.

NOTES:
1. WEATHER CONDITIONS PERMITTING.
2. AREAS THAT DO NOT SUCCESSFULLY REVEGETATE WITHIN APPROPRIATE PERIOD OF TIME WILL BE RESEED AS NECESSARY.
3. LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3 TO 4 INCHES.
4. TOP DRESS WITH ADDITIONAL LOAM, AS NEEDED. A MINIMUM 6-INCH LAYER OF TOPSOIL SHOULD BE ESTABLISHED ON THE LANDFILL COVER IN DISTURBED AREAS.

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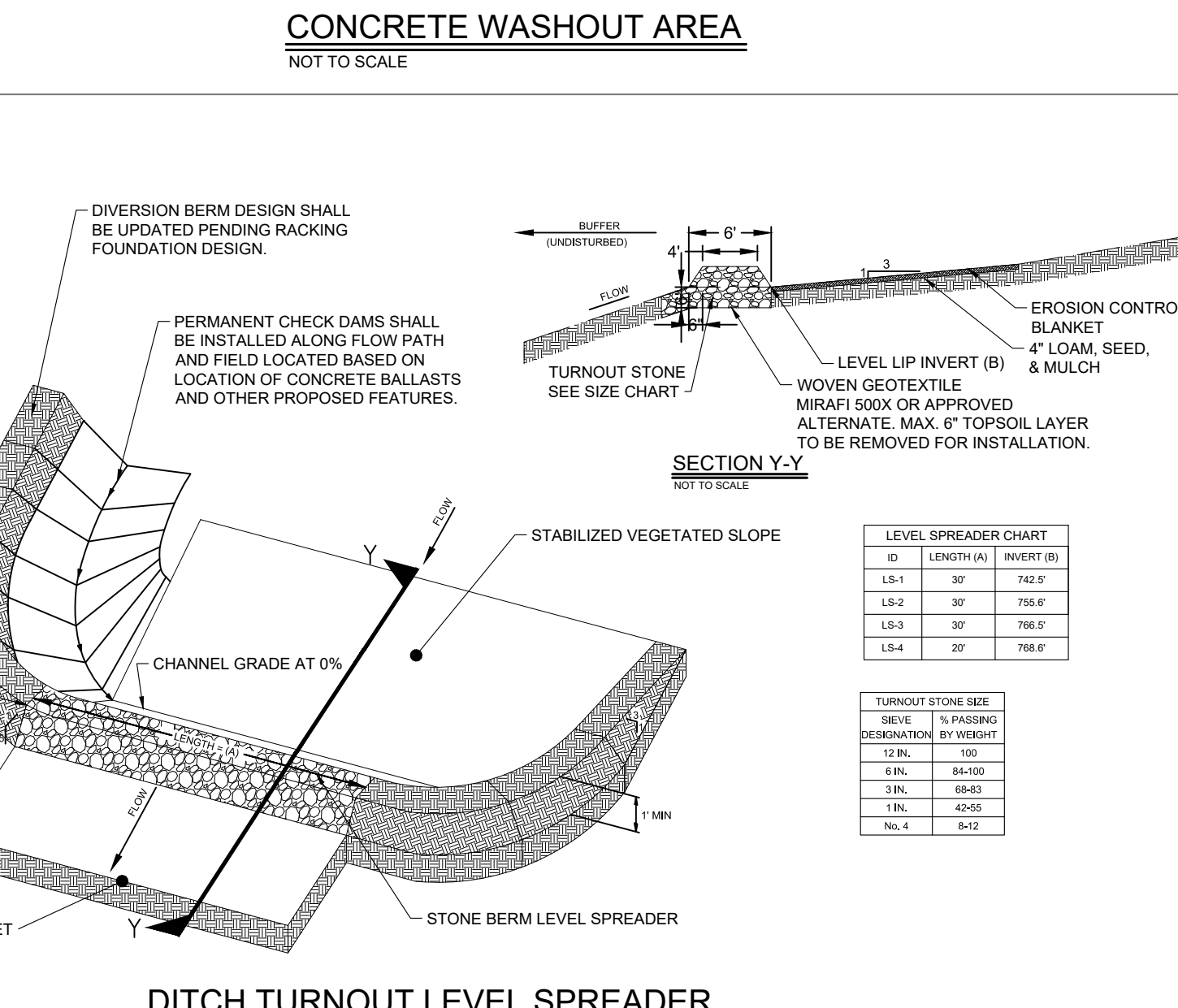
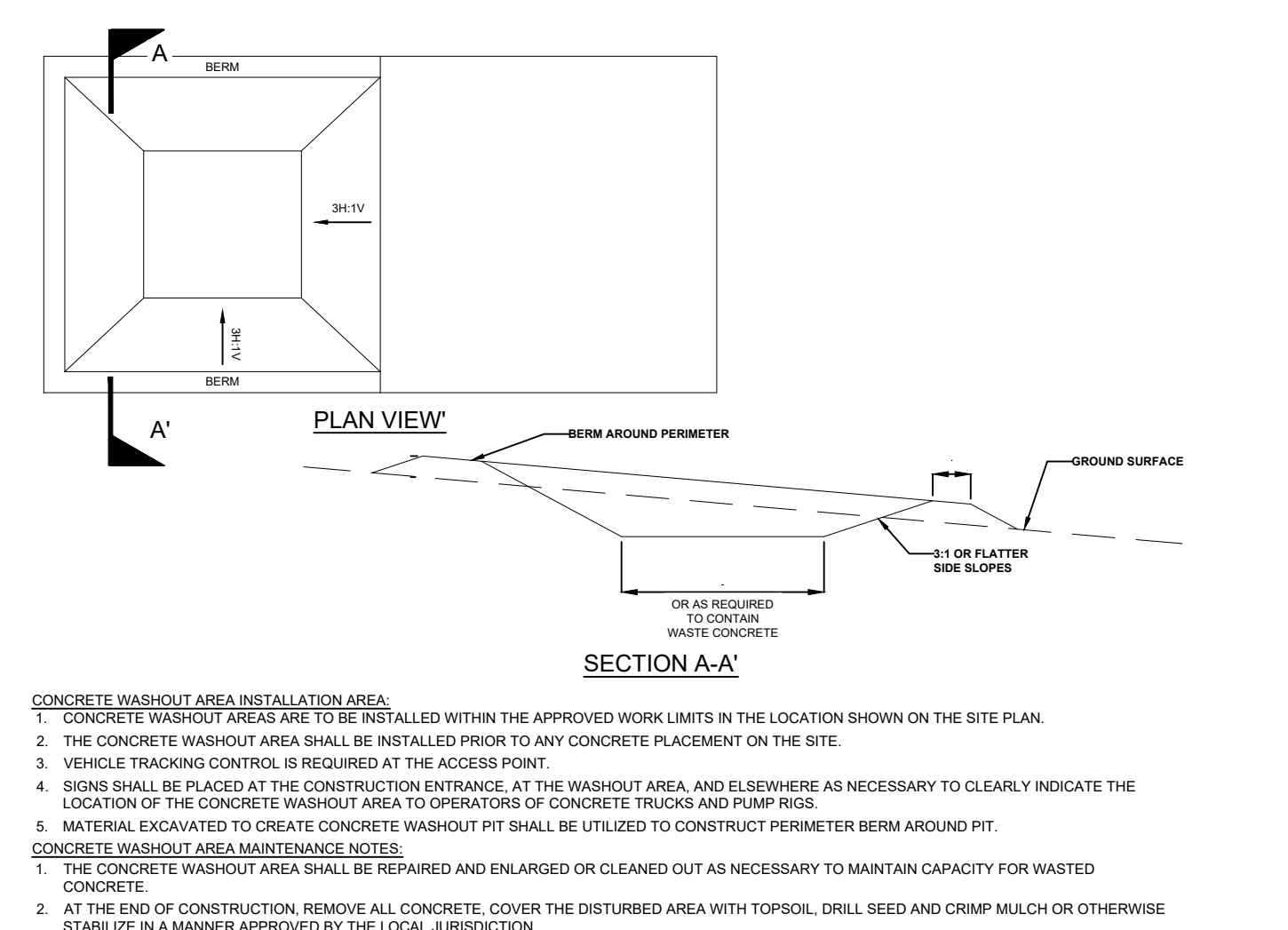
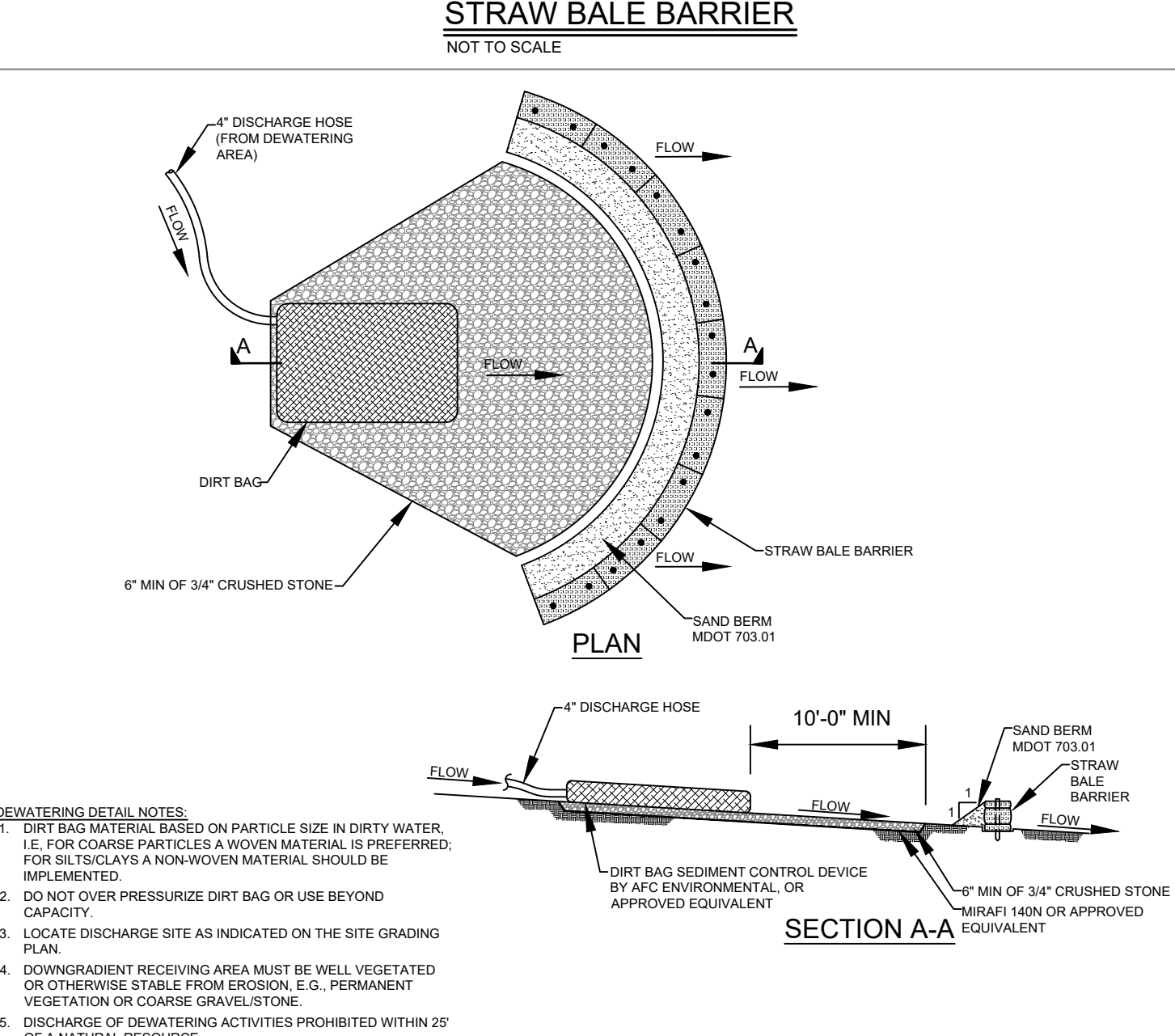
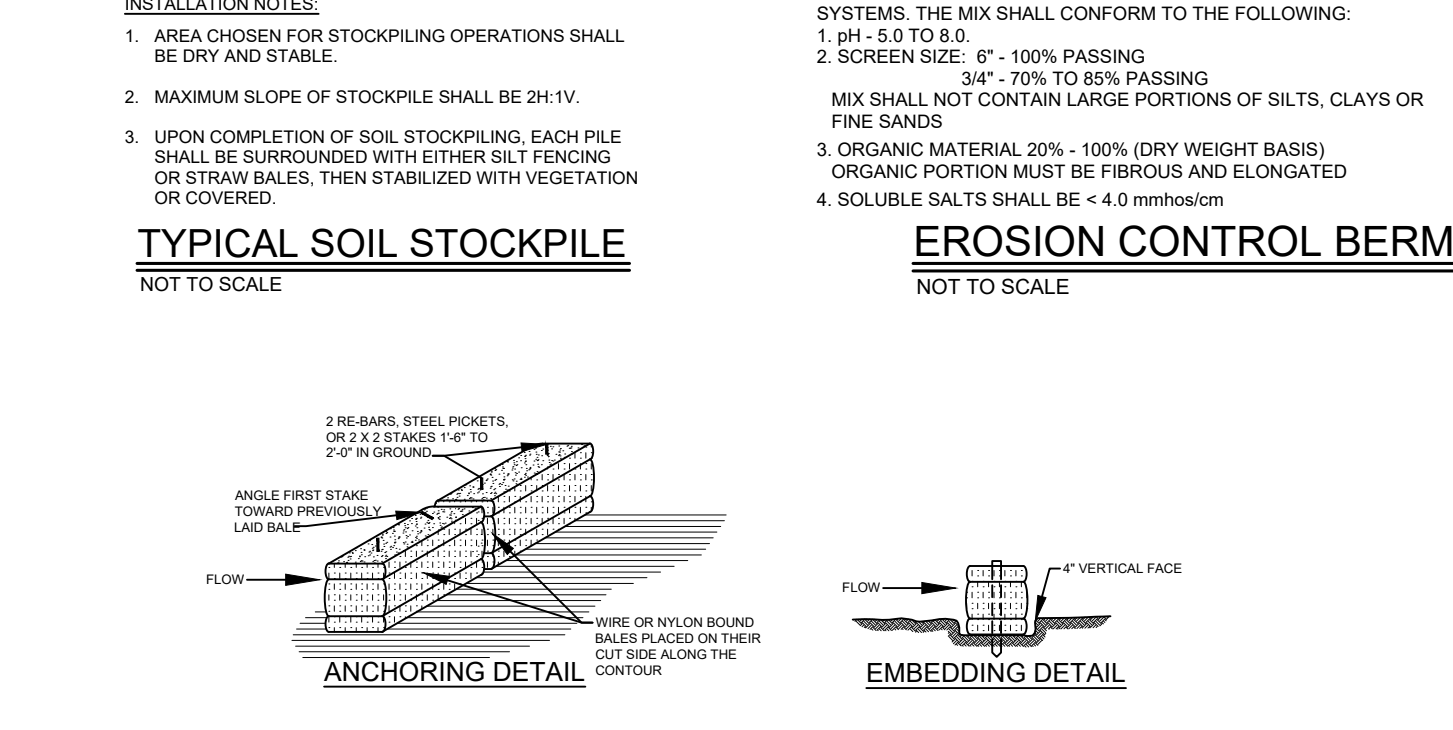
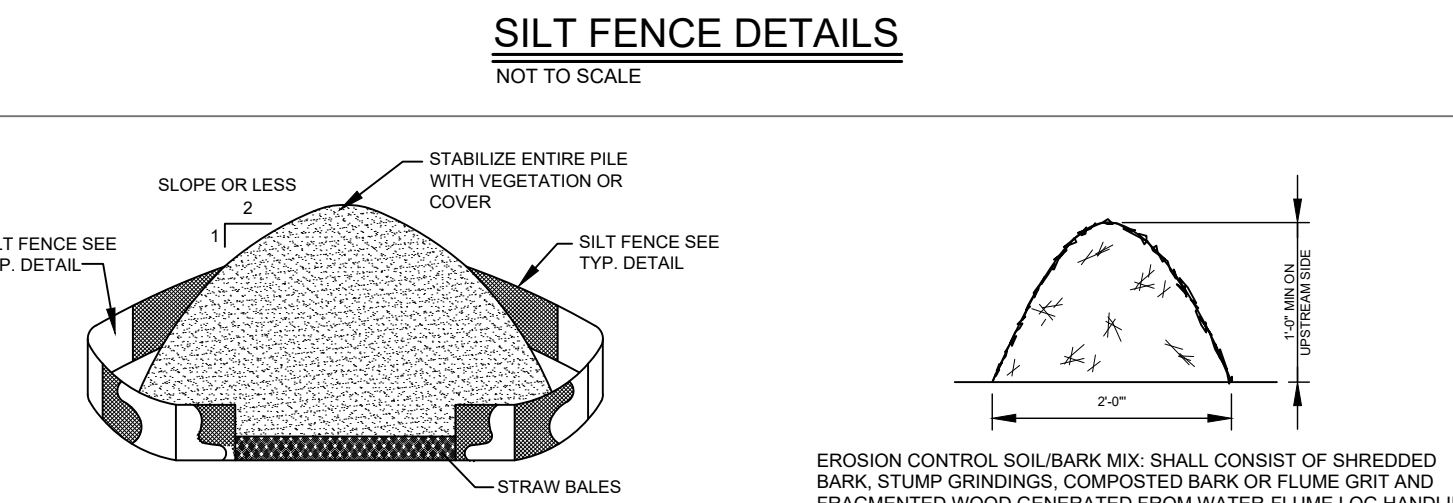
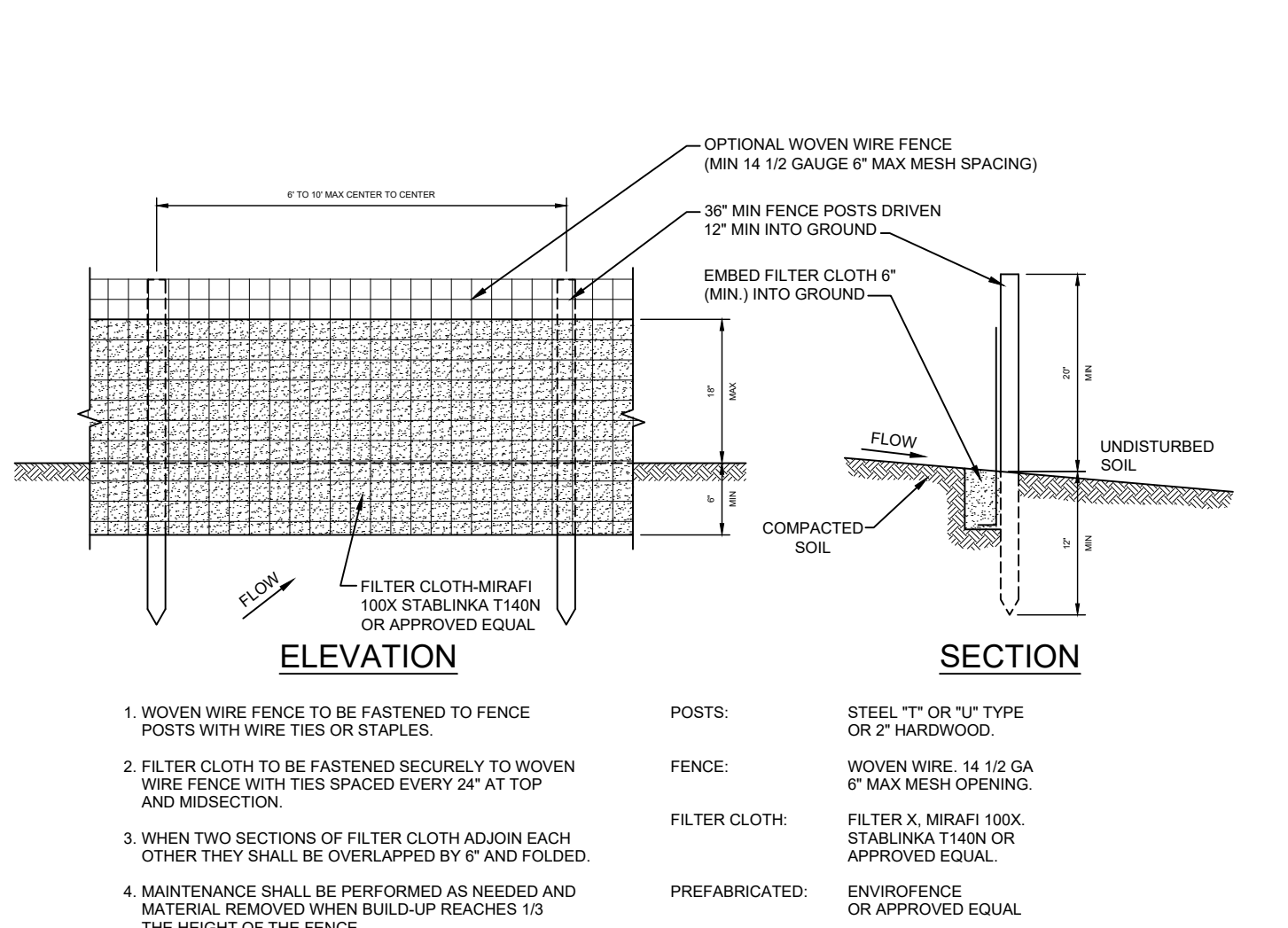
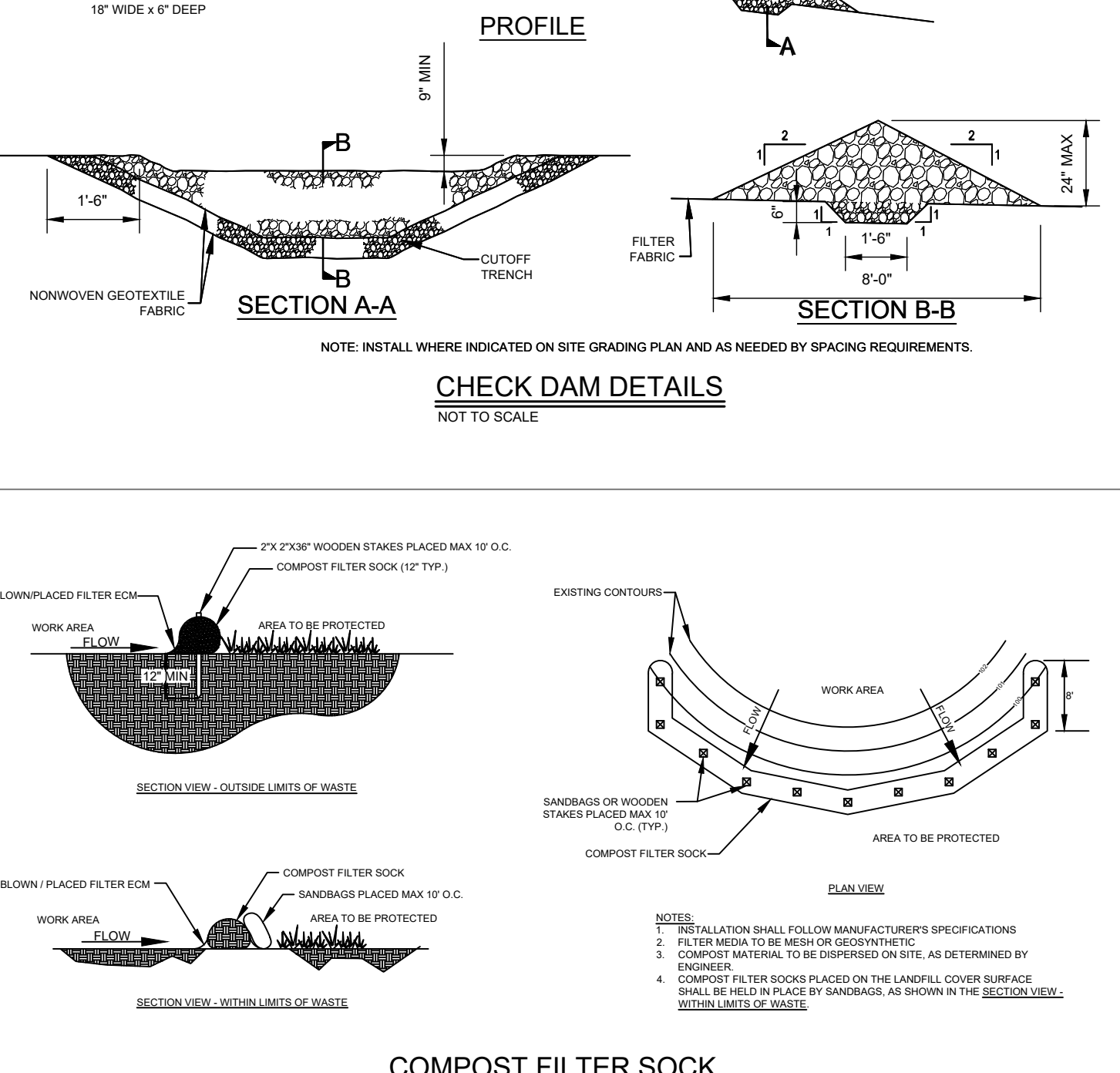
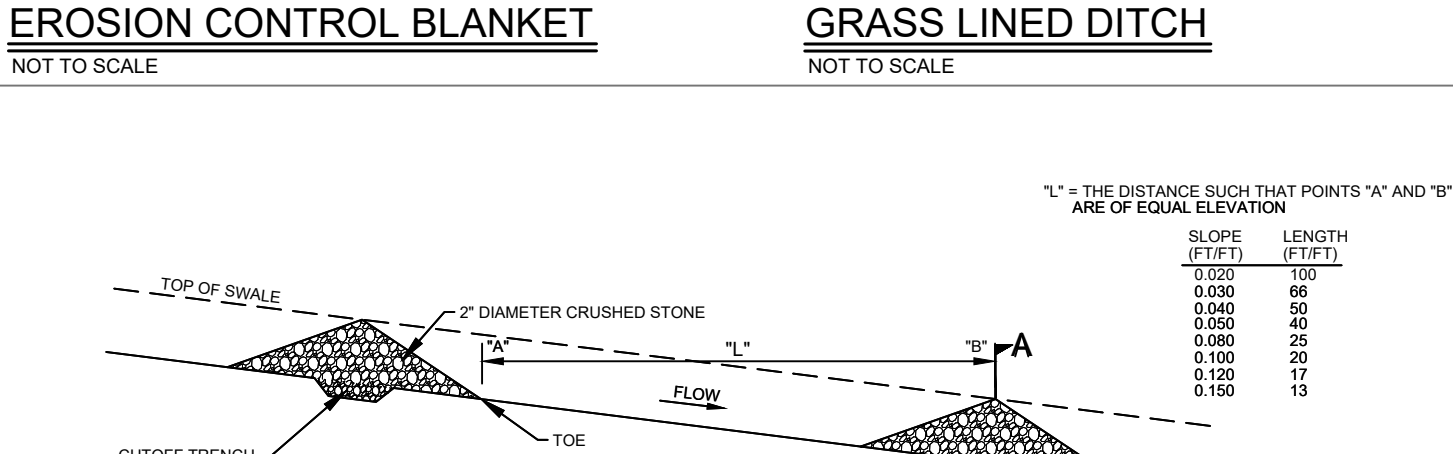
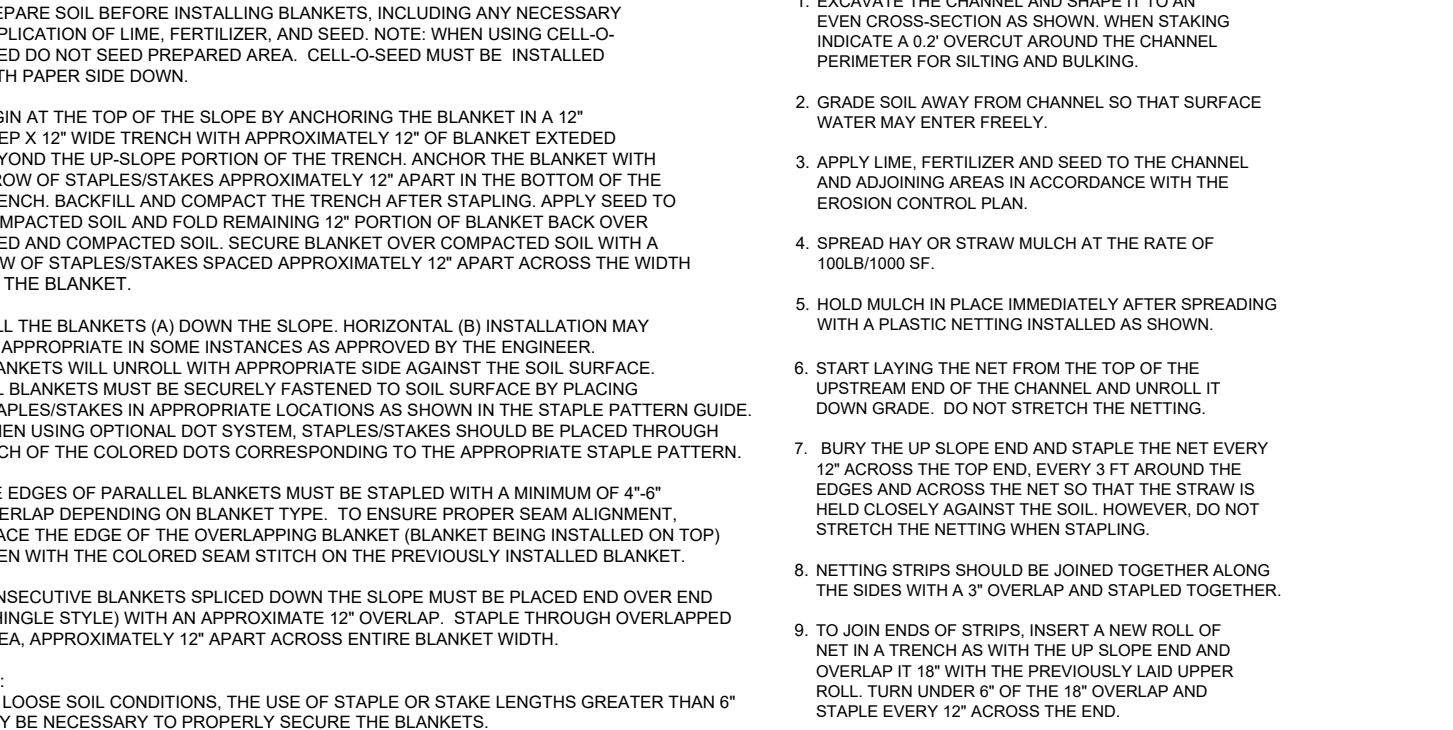
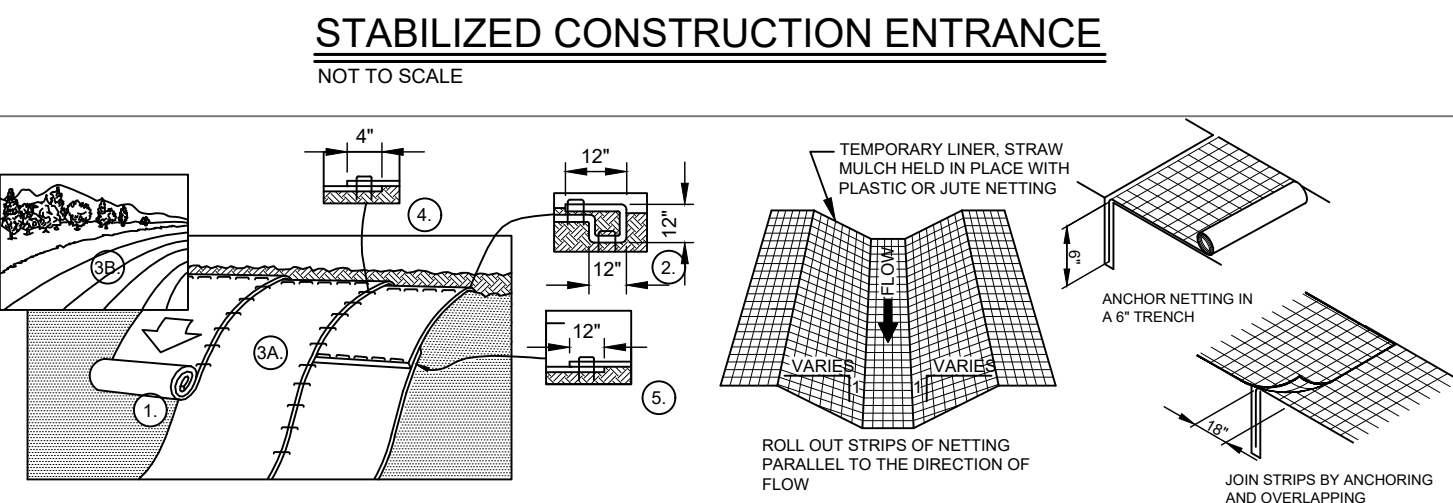
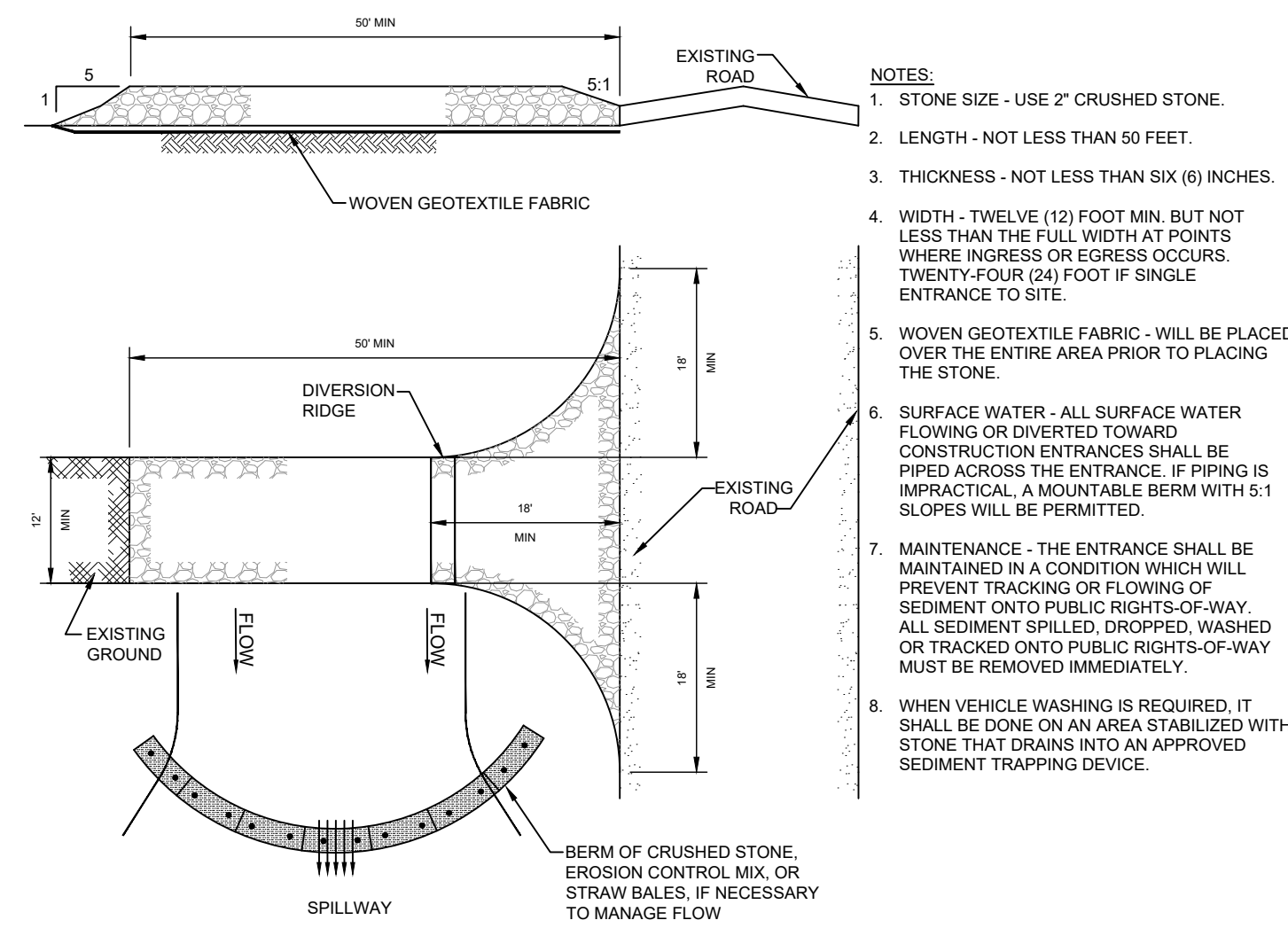
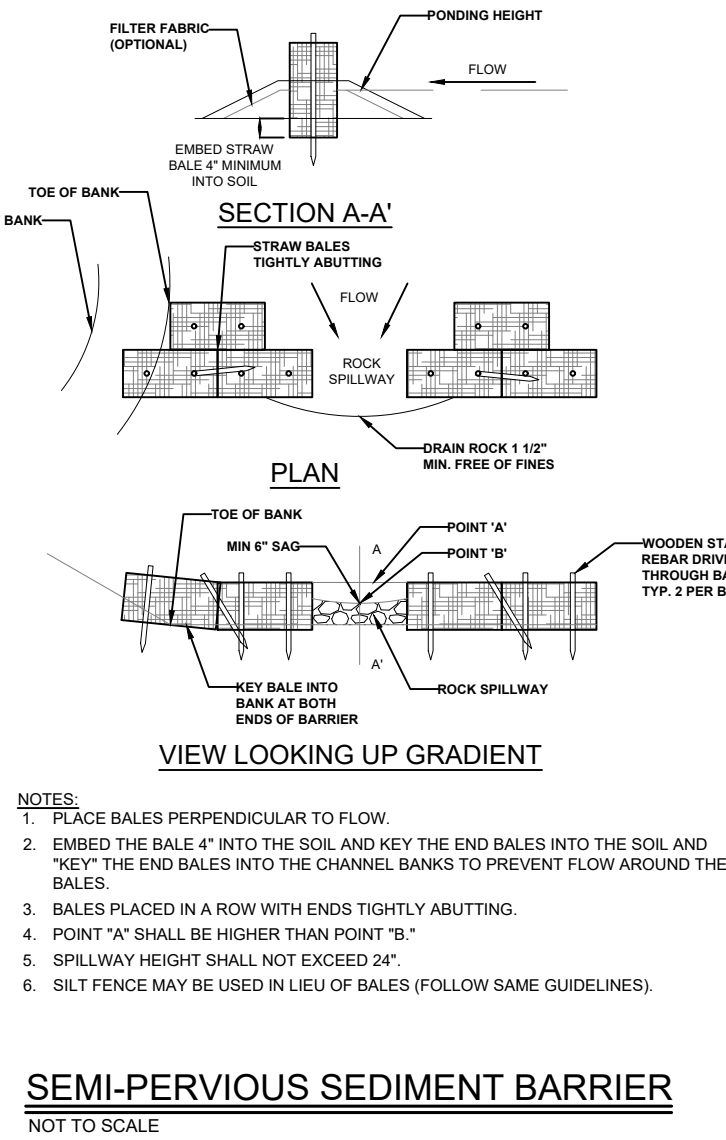
Permitting stamp area containing the Professional Engineer's seal for Carl N. Stopper, dated October 18, 2023, and project information for United States Solar Corporation, 105 Vista Dr, Torrington, CT. Includes a table for tracking permit status and a 'GENERAL NOTES & LEGEND' stamp.

EROSION CONTROL NOTES

- PROJECT DESCRIPTION**
 THE PROJECT INVOLVES THE CONSTRUCTION OF A GROUND-MOUNTED PHOTOVOLTAIC SOLAR MODULE SYSTEM AND ALL RELATED ACCESS ROADS, UTILITIES, SITE PREPARATION, CLEARING & GRUBBING, EROSION & SEDIMENTATION CONTROL MEASURES, AND GRADING. EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES WITH GROUND PENETRATING FEATURES ARE NOT PERMITTED FOR USE WITH LIMITS OF LANDFILL CAP.
- CONSTRUCTION SEQUENCE**
1. ESTABLISH CONSTRUCTION WORKSPACE LIMITS. IDENTIFY AND MARK SENSITIVE RECEPTORS INCLUDING NATURAL RESOURCES AND DOWNGRADE DRAINAGE INFRASTRUCTURE.
 2. INSTALLATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES AND ASSOCIATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL".
 3. PRIOR TO USAGE, CONSTRUCT AND STABILIZE THE CONSTRUCTION ENTRANCES IN THE LOCATIONS INDICATED ON THE EROSION CONTROL PLAN SHEET. AT A MINIMUM, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT EACH POINT SITE OF ACCESS FROM THE PROJECT AREA TO PAVED AREAS.
 4. CLEAR TIMBER, BRUSH, AND COMPLETE TREE REMOVAL; GRUBBING SHALL NOT BE COMPLETED UNTIL JUST PRIOR TO PRELIMINARY GRADING AND ESTABLISHMENT AND STABILIZATION OF TEMPORARY OR PERMANENT DRAINAGE CONVEYANCES.
 5. INSTALL AND MAINTAIN PERIMETER SEDIMENT BARRIERS SUCH AS SILT FENCING AND OTHER APPROVED EROSION CONTROL BARRIERS ALONG THE DOWNHILL LIMIT OF DISTURBANCE AS SHOWN ON THE DRAWINGS. SEDIMENT BARRIER LOCATIONS MAY BE ADJUSTED IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AS DEEMED NECESSARY TO ENSURE PROPER FUNCTION. WHERE SILT FENCE CANNOT BE TOED-IN PROPERLY DUE TO TREE ROOTS, ROCKS, OR FROZEN GROUND, HAY BALES OR AN EROSION CONTROL MIX BERM MAY BE SUBSTITUTED. PERIMETER SEDIMENT BARRIERS SHALL BE INSTALLED AS SOON AS POSSIBLE BUT MAY FOLLOW INITIAL SITE PREPARATION, EROSION OR SEDIMENTATION ISSUES DURING INITIAL SITE PREPARATION SHALL BE TEMPORARILY STABILIZED AS NECESSARY, ALL PERIMETER SEDIMENT BARRIERS SHALL BE DOUBLED SINCE CONTRIBUTING DRAINAGE AREAS AT THIS SITE EXCEED 8%.
 6. STABILIZE PERMANENT ACCESS ROAD SURFACES, PARKING AREAS, AND EQUIPMENT STORAGE AND LAYDOWN AREAS WITH MATTING, CRUSHED STONE, OR GRAVEL SUBBASE AS NECESSARY TO MINIMIZE RUTTING AND AVOID PONDING OF STORMWATER.
 7. CONCURRENT WITH INITIATION OF SITE GRADING, CONSTRUCT AND STABILIZE DIVERSION BERMS, CHECK DAMS, AND HAYBALES TO MINIMIZE SEDIMENT IN SITE RUNOFF DURING CONSTRUCTION. DEWATERING SHALL BE IN ACCORDANCE WITH THE DEWATERING NOTES.
 8. INSTALL PROPERLY SPACED STONE CHECK DAMS IN ANY SECTION OF DITCH WITHIN 24-HOURS OF FORMING, SHAPING, OR ROUGH GRADING THAT SECTION OF DITCH.
 9. MINIMIZE THE AMOUNT OF DISTURBANCE AT ANY ONE TIME BY STAGING CONSTRUCTION AS MUCH AS PRACTICAL FOR EFFICIENT CONSTRUCTION OF THE FACILITY. NATURAL VEGETATIVE BUFFERS SHOULD BE LEFT IN PLACE WHERE FEASIBLE TO AID IN SEDIMENT RETENTION AND REDUCE THE POTENTIAL FOR EROSION. OPEN AREA SHALL BE LIMITED TO 5 ACRES OR NO MORE THAN CAN BE MULCHED IN A SINGLE DAY.
 10. STABILIZE ANY DISTURBED SLOPES GREATER THAN 3H:1V AND ANY SECTION OF NEWLY CONSTRUCTED VEGETATED DITCH USING ANCHORED EROSION CONTROL BLANKETS OR OTHER APPROVED MULCHING TECHNIQUES WITHIN 24-HOURS. ALL VEGETATED DITCHES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1, OR WILL BE WORKED ON BETWEEN NOVEMBER 1 AND APRIL 15, MUST BE STABILIZED WITH STONE LINING BACKED BY GRAVEL BED OR GEOTEXTILE AS SPECIFIED BY THE ENGINEER.
 11. DUST CONTROL METHODS SHALL BE EMPLOYED AFTER GRADING AND PRIOR TO FINAL STABILIZATION TO PREVENT THE BLOWING AND MOVEMENT OF NUISANCE DUST THROUGH THE APPLICATION OF WATER AND/OR CALCIUM CHLORIDE.
 12. APPLY TEMPORARY SEED AND MULCH TO EXPOSED AREAS WHERE ACTIVITY IS NOT ANTICIPATED FOR 30-DAYS. TEMPORARILY MULCH ANY EXPOSED AREAS AS FOLLOWS: (1) WITHIN 100 FEET OF A WET AND/OR NATURAL RESOURCE WHERE WORK IS NOT ANTICIPATED OR HAS NOT OCCURRED IN 7 DAYS, OR PRIOR TO A STORM EVENT, AND (2) ALL OTHER AREAS THAT WILL NOT BE ACTIVELY WORKED FOR MORE THAN 14 DAYS.
 13. REMOVE EXCESS SPOILS FROM THE SITE THAT WILL NOT BE USED FOR THE FINAL DESIGN AND STABILIZATION. STOCKPILED SOILS THAT REMAIN IN PLACE FOR 48-HOURS OR MORE SHALL BE CONTAINED WITH SEDIMENT BARRIERS. THE SEDIMENT BARRIERS SHALL BE REINFORCED TO HANDLE A SIGNIFICANT RAIN EVENT AND THE POTENTIAL SLUMPING OF THE PILE. BETWEEN APRIL 15 AND OCTOBER 1, APPLY TEMPORARY SEED AND MULCH TO A STOCKPILE THAT IS NOT ANTICIPATED TO BE DISTURBED WITHIN 30-DAYS. APPLY ANCHORED MULCH DAILY AND/OR AS NEEDED DURING WINTER CONSTRUCTION.
 14. INSPECT AND REPAIR EROSION CONTROL MEASURES DAILY IN AREAS OF ACTIVE CONSTRUCTION; OTHERWISE WEEKLY AND AFTER A RAINFALL EVENT OF 0.5-INCHES OR GREATER WITHIN A 24-HOUR PERIOD. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 OF THE HEIGHT OF THE BARRIER.
 15. MONITOR PUBLIC ROADS FOR SIGNS OF TRACKING OR SPILLING OF SOIL MATERIAL AND CLEAN-UP AS NECESSARY.
 16. COMPLETE FINAL GRADING AND STABILIZATION OF EARTHEN STRUCTURES SUCH AS DIVERSION BERMS, LEVEL SPREADERS, AND SWALES THAT WILL CONTROL POST-CONSTRUCTION RUNOFF.
 17. FINISH GRADE AND REPLACE TOPSOIL OR LOAM IN DISTURBED AREAS. SEED AND MULCH DISTURBED AREAS WITHIN 7 DAYS OF FINAL GRADING. BETWEEN NOVEMBER 1 AND APRIL 15, STABILIZE AREAS THAT ARE FINAL GRADED AT THE END OF EACH DAY.
 18. MAINTAIN ALL TEMPORARY EROSION CONTROLS AND SEDIMENT BARRIERS UNTIL VEGETATION HAS BEEN ESTABLISHED OVER 90% OF THE AREA TO BE REVEGETATED. RESEED SPARSELY VEGETATED AREAS AS NECESSARY.
 19. REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES ONCE THE SITE IS PERMANENTLY STABILIZED.

DEWATERING NOTES

1. THE CONTRACTOR SHALL INSTALL, MAINTAIN, AND OPERATE ALL CHANNELS, SUMPS, AND OTHER TEMPORARY DIVERSION AND PROTECTIVE WORKS NEEDED TO DIVERT STREAM FLOW AND OTHER SURFACE WATER THROUGH OR AROUND THE CONSTRUCTION SITE. CONTROL OF SURFACE WATER SHALL BE CONTINUOUS DURING THE PERIOD THAT DAMAGE TO CONSTRUCTION WORK COULD OCCUR.
2. OPEN EXCAVATIONS SHALL BE DEWATERED AND KEPT FREE OF STANDING WATER AND MUDDY CONDITIONS AS NECESSARY FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL DRAINS, SUMPS AND ALL OTHER EQUIPMENT REQUIRED TO PROPERLY DEWATER THE SITE. DEWATERING SYSTEMS THAT CAUSE A LOSS OF SOIL FINES FROM THE FOUNDATION AREAS WILL NOT BE PERMITTED.
3. INSTALL DIVERSION DITCHES OR BERMS IF NECESSARY TO MINIMIZE THE AMOUNT OF CLEAN STORMWATER RUNOFF ALLOWED INTO THE EXCAVATION AREA.
4. REMOVAL OF WATER FROM THE CONSTRUCTION SITE SHALL BE ACCOMPLISHED SO THAT EROSION AND TRANSPORTATION OF SEDIMENT AND OTHER POLLUTANTS ARE MINIMIZED.
5. DISCHARGE DEWATERING EFFLUENT TO AREAS AS INDICATED ON THE SITE GRADING PLAN. DISCHARGE SHALL BE MANAGED TO ENSURE SHEET FLOW.
6. DEWATERING IN PERIODS OF INTENSE HEAVY RAIN OR WHEN THE INFILTRATIVE CAPACITY OF THE SOIL IS EXCEEDED, SHALL BE AVOIDED TO THE MAXIMUM EXTENT PRACTICABLE.
7. FLOW TO THE SEDIMENT REMOVAL STRUCTURE MAY NOT EXCEED THE STRUCTURE'S CAPACITY TO SETTLE AND FILTER FLOW OR THE STRUCTURE'S VOLUME CAPACITY.
8. WHEN TEMPORARY WORKS ARE NO LONGER NEEDED, THE CONTRACTOR SHALL REMOVE AND RETURN THE AREA TO A CONDITION SIMILAR TO THAT WHICH EXISTED BEFORE CONSTRUCTION. AREAS WHERE TEMPORARY WORKS WERE LOCATED SHALL BE GRADED FOR SIGHTLY APPEARANCE WITH NO OBSTRUCTION TO NATURAL SURFACE WATER FLOWS OR THE PROPER FUNCTIONING AND ACCESS TO THE WORKS OF IMPROVEMENTS INSTALLED. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING THE REMOVAL STAGES TO MINIMIZE THE LOSS OF SOIL, SEDIMENT AND DEBRIS THAT WAS COLLECTED DURING CONSTRUCTION.



PERMITTING

PROFESSIONAL ENGINEER:
 CARL N. STOPPER

DATE:
 OCTOBER 18, 2023

0	TRC	10/18/2023	ISSUED FOR CONNECTICUT SITING COUNCIL	CNS
NO.	BY	DATE	REVISION	APPD.

PROJECT:
 UNITED STATES SOLAR CORPORATION
 USS TORRINGTON SOLAR LLC
 PROPOSED 1.998 MW-AC SOLAR ARRAY
 105 VISTA DR, TORRINGTON, LITCHFIELD COUNTY, CT

TITLE:
EROSION CONTROL NOTES & DETAILS

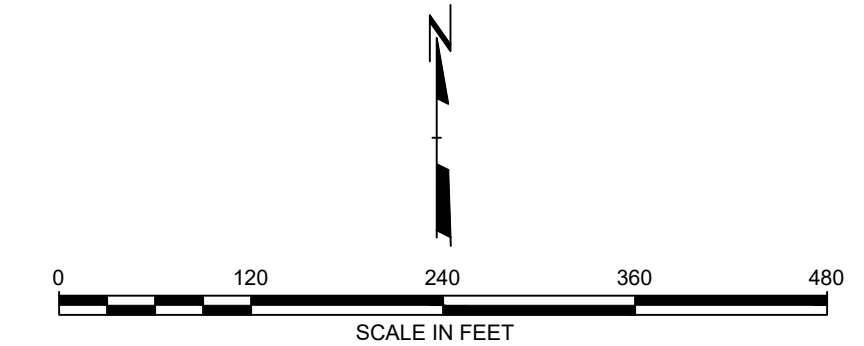
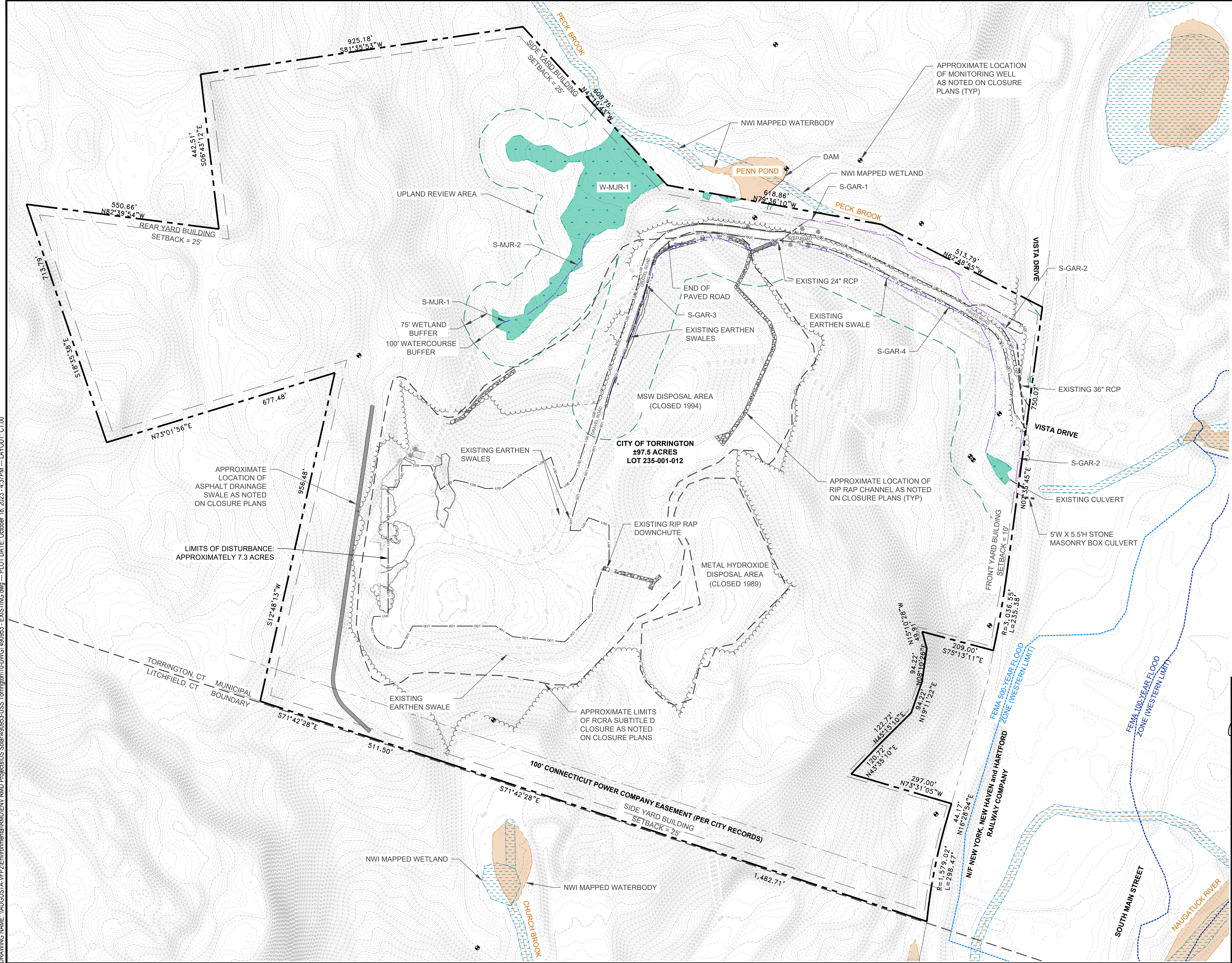
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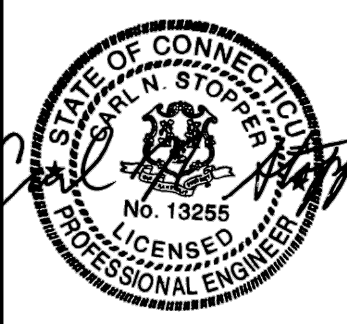

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 Phone: 860.298.9692
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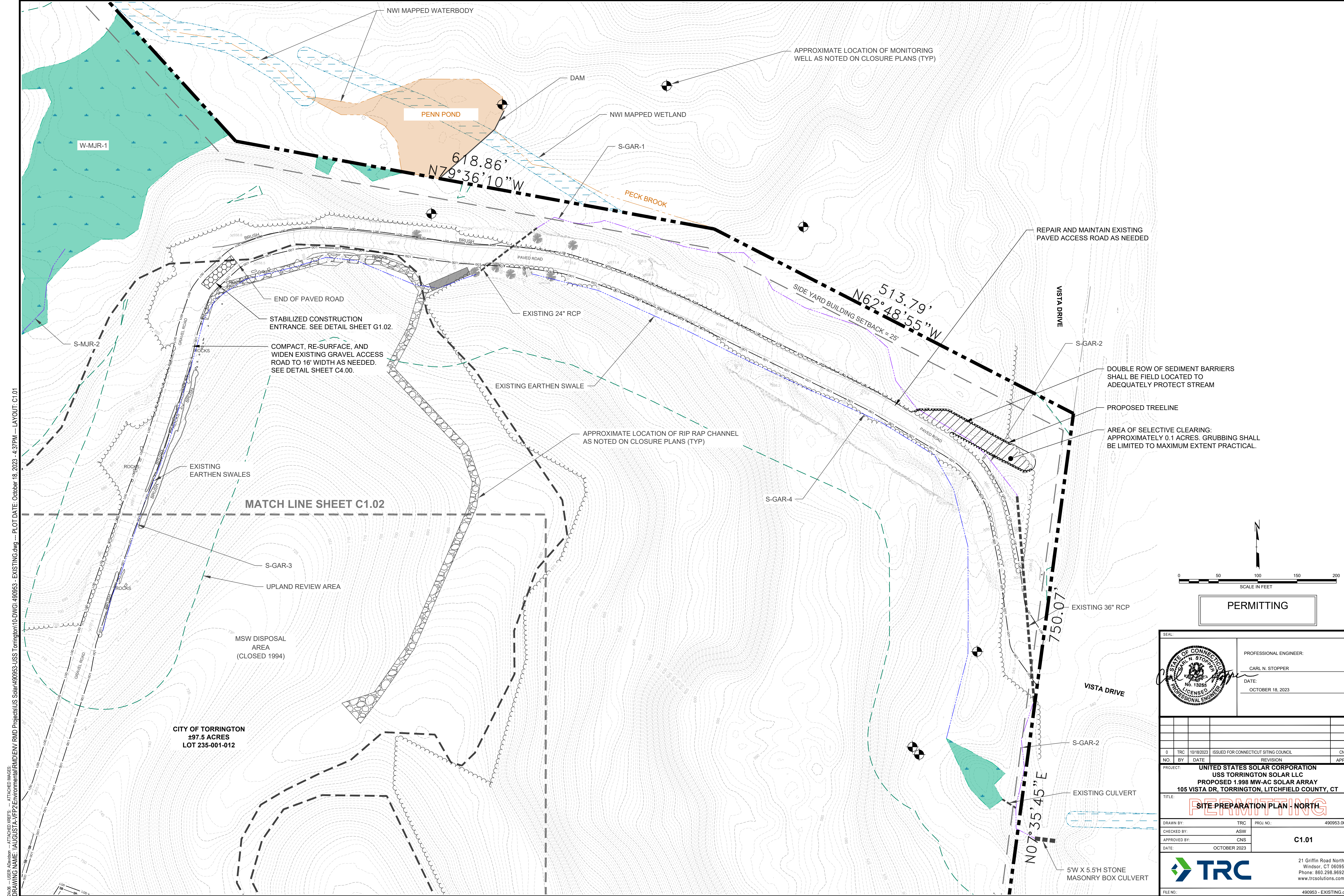
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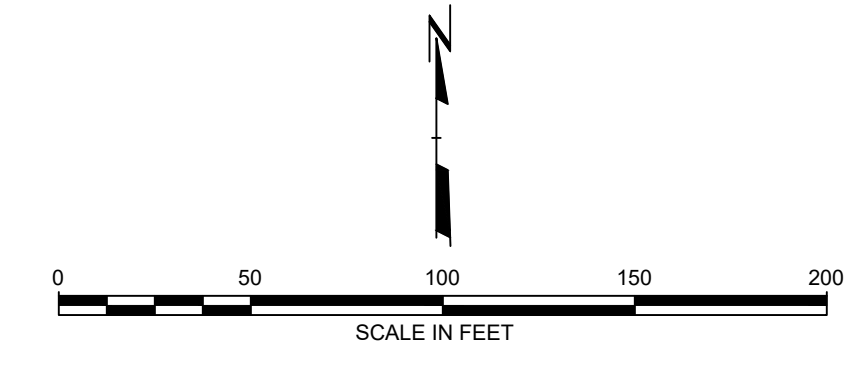
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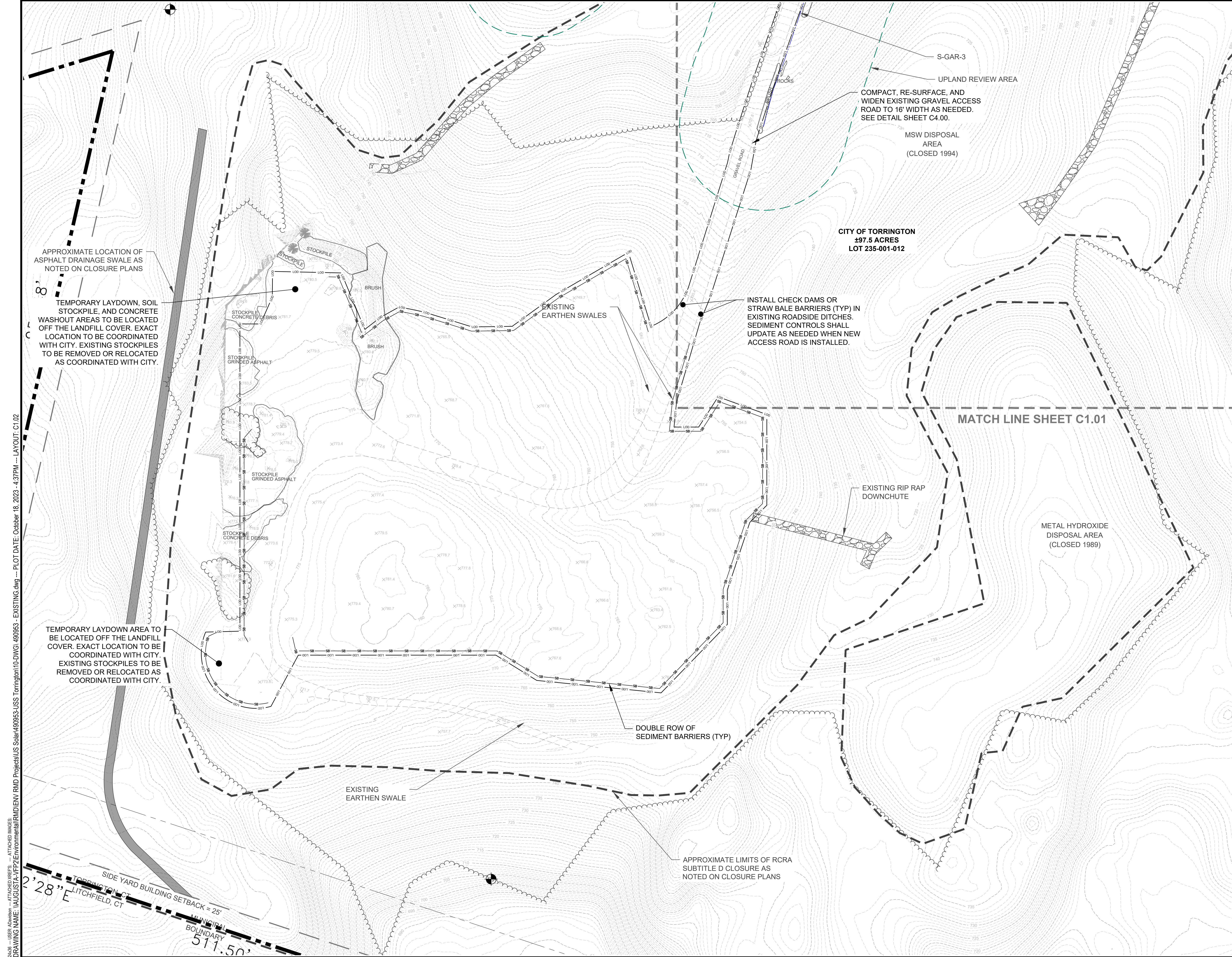


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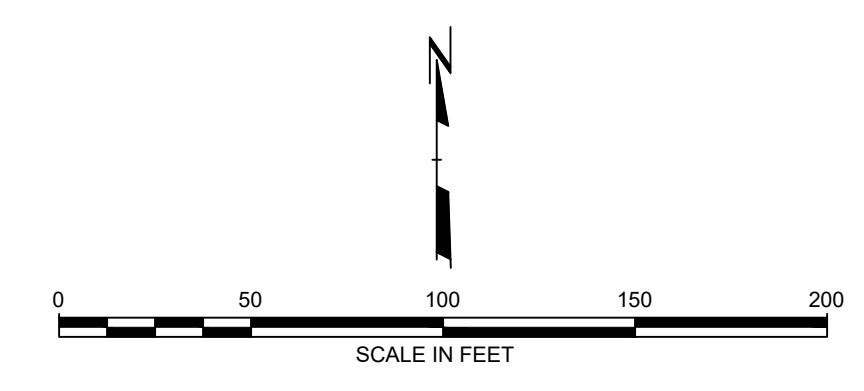


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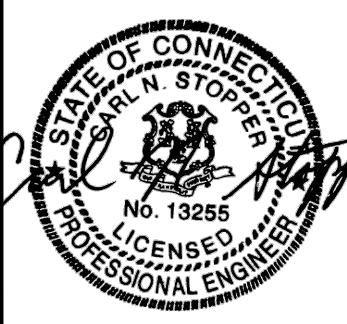

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SITE PREPARATION PLAN - NORTH												
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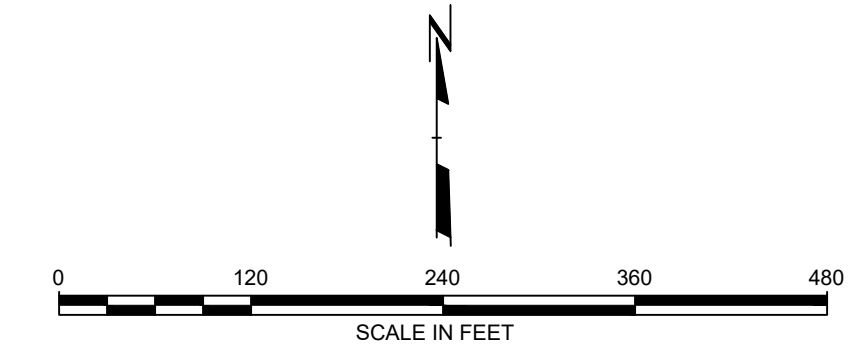
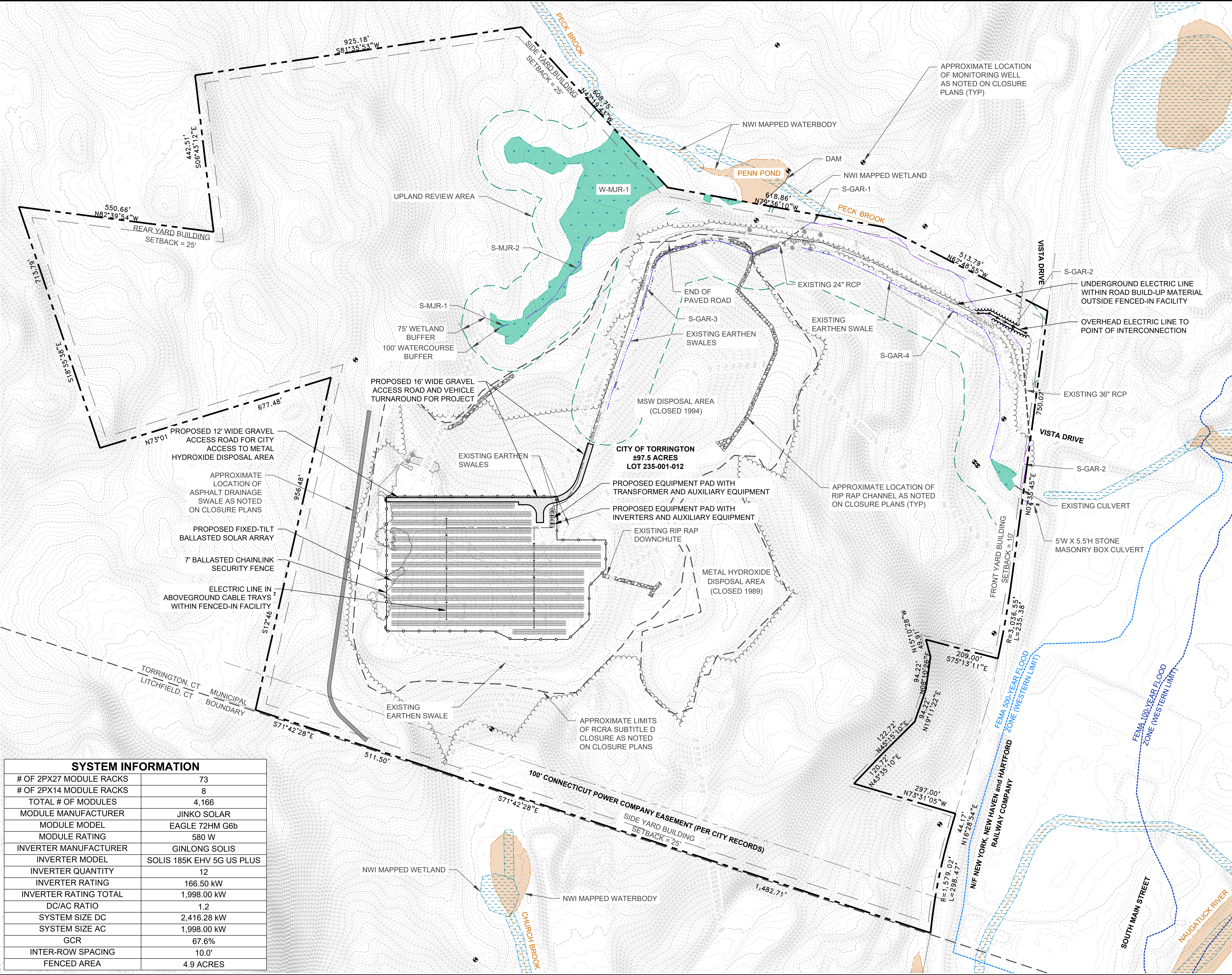
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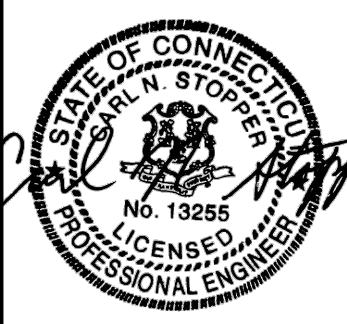
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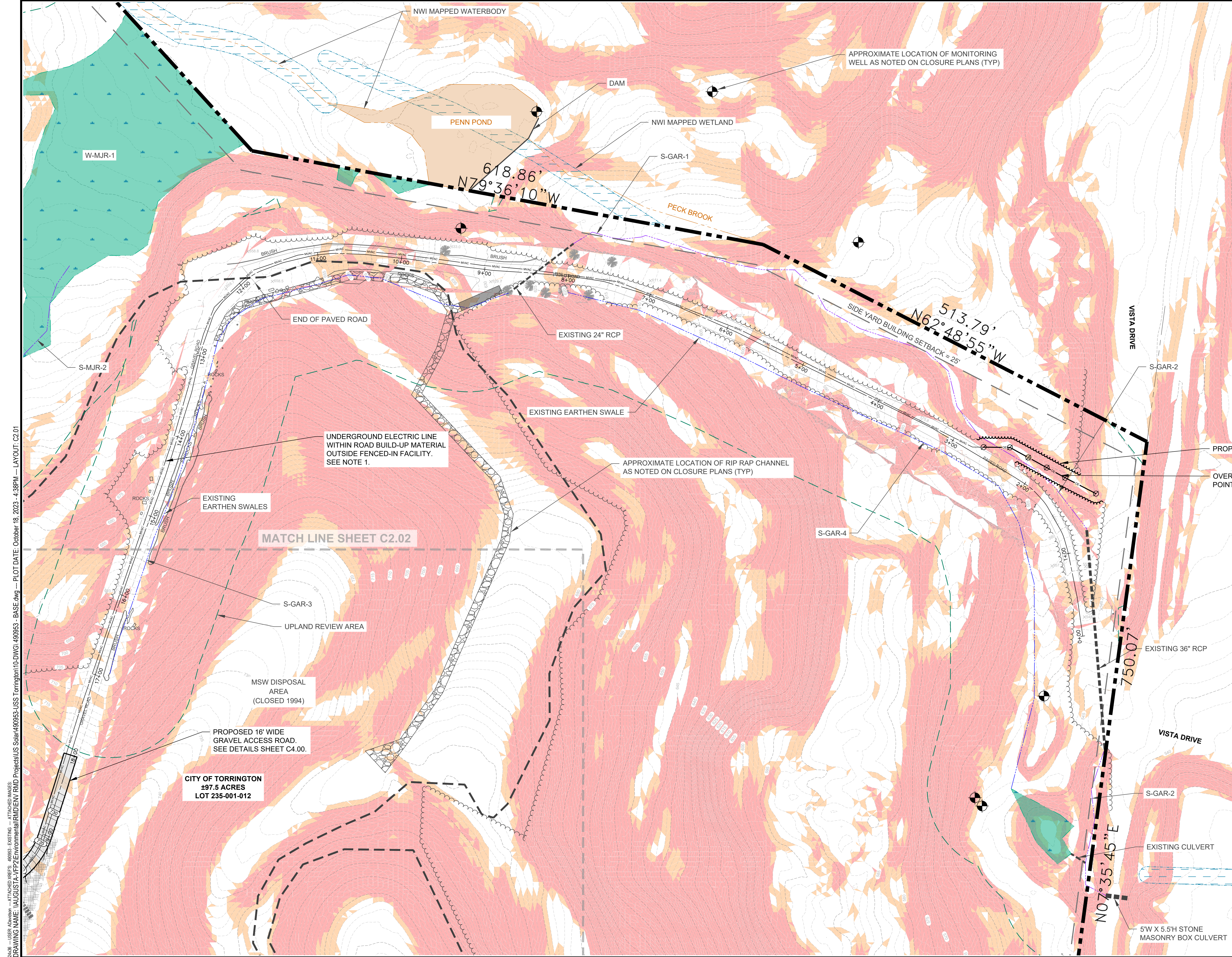
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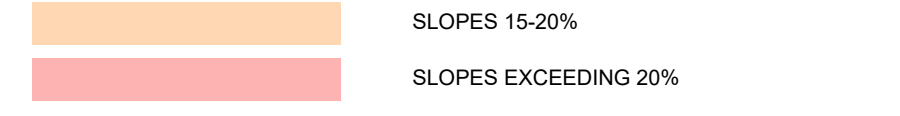
PERMITTING

SYSTEM INFORMATION	
# OF 2PX27 MODULE RACKS	73
# OF 2PX14 MODULE RACKS	8
TOTAL # OF MODULES	4,166
MODULE MANUFACTURER	JINKO SOLAR
MODULE MODEL	EAGLE 72HM G6b
MODULE RATING	580 W
INVERTER MANUFACTURER	GINLONG SOLIS
INVERTER MODEL	SOLIS 185K EHV 5G US PLUS
INVERTER QUANTITY	12
INVERTER RATING	166.50 kW
INVERTER RATING TOTAL	1,998.00 kW
DC/AC RATIO	1.2
SYSTEM SIZE DC	2,416.28 kW
SYSTEM SIZE AC	1,998.00 kW
GCR	67.6%
INTER-ROW SPACING	10.0'
FENCED AREA	4.9 ACRES

	PROFESSIONAL ENGINEER: CARL N. STOPPER DATE: OCTOBER 18, 2023
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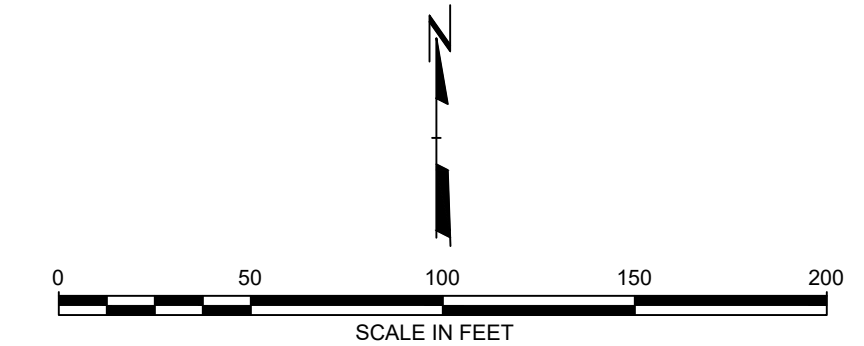
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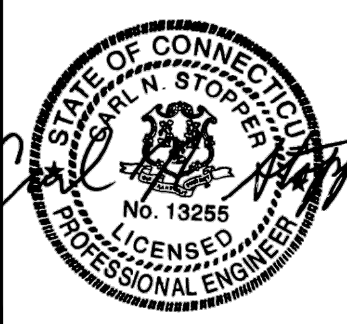

NOTES

- TEST PITS TO BE CONDUCTED, AS DIRECTED BY ENGINEER, TO CONFIRM THAT UNDERGROUND ELECTRIC LINE CAN BE INSTALLED WITHIN ROAD-BUILD UP MATERIAL AND WILL NOT BE WITHIN WASTE. CTDEEP SHALL BE NOTIFIED PRIOR TO COMPLETING TEST PITS. INVESTIGATION SHALL BE PERFORMED BY HAND METHODS OR SMALL EXCAVATOR.

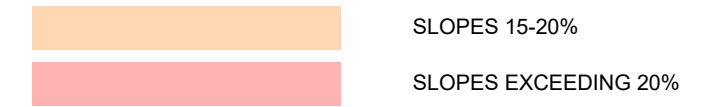
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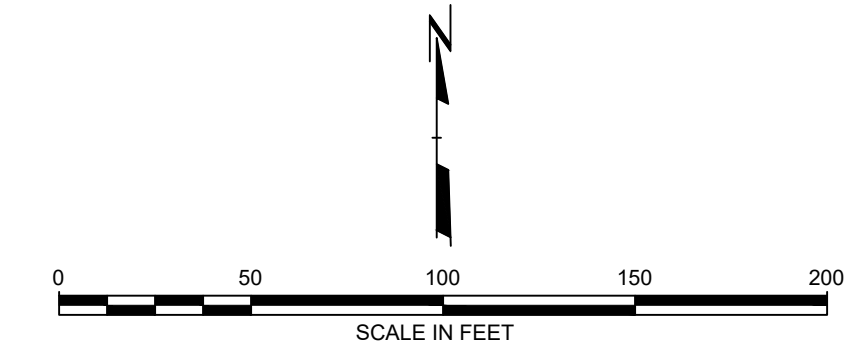
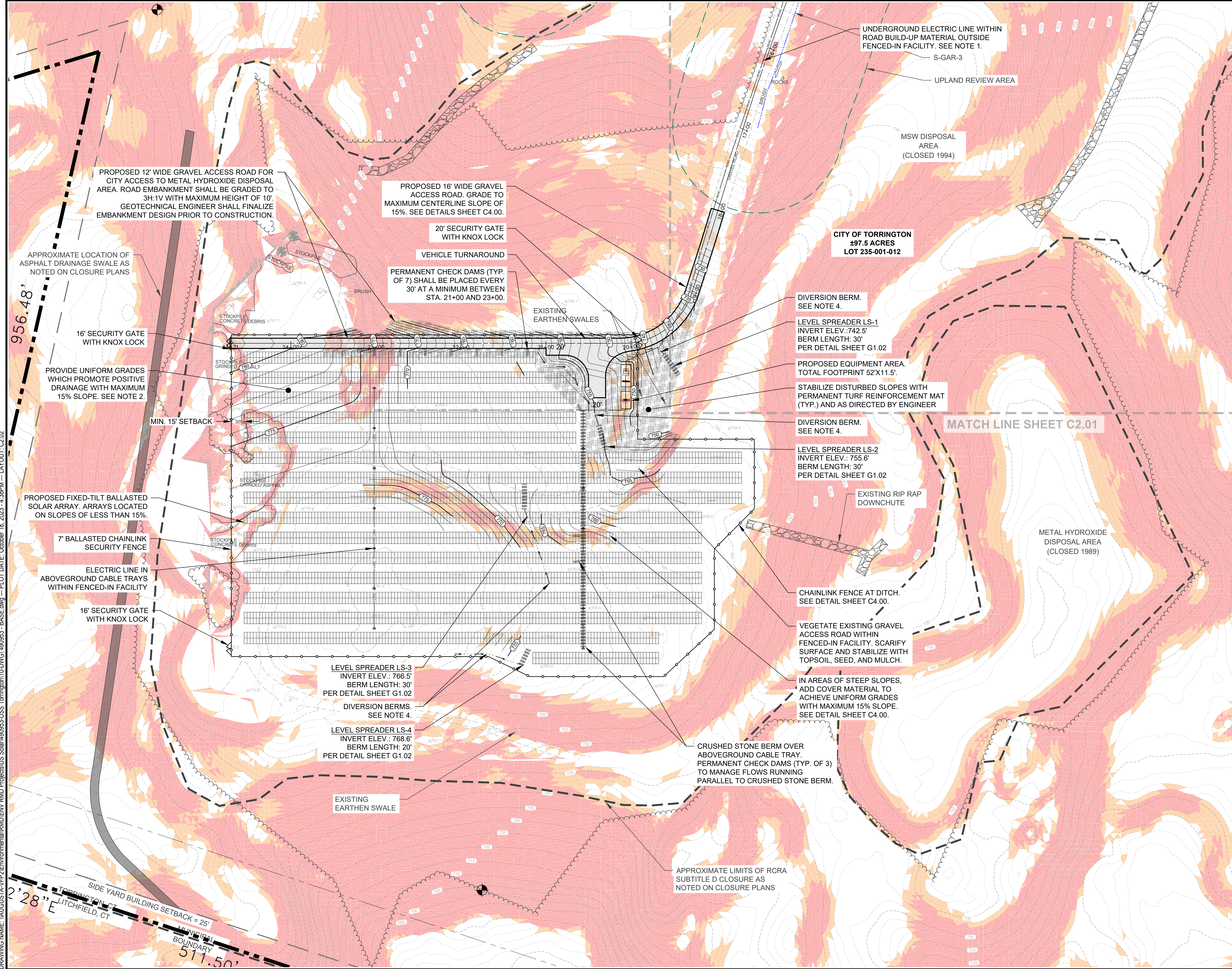
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21 Griffin Road North Windsor, CT 06095 Phone: 860.298.9692 www.trcsolutions.com		FILE NO.: 490953 - BASE.dwg	

SLOPES ANALYSIS



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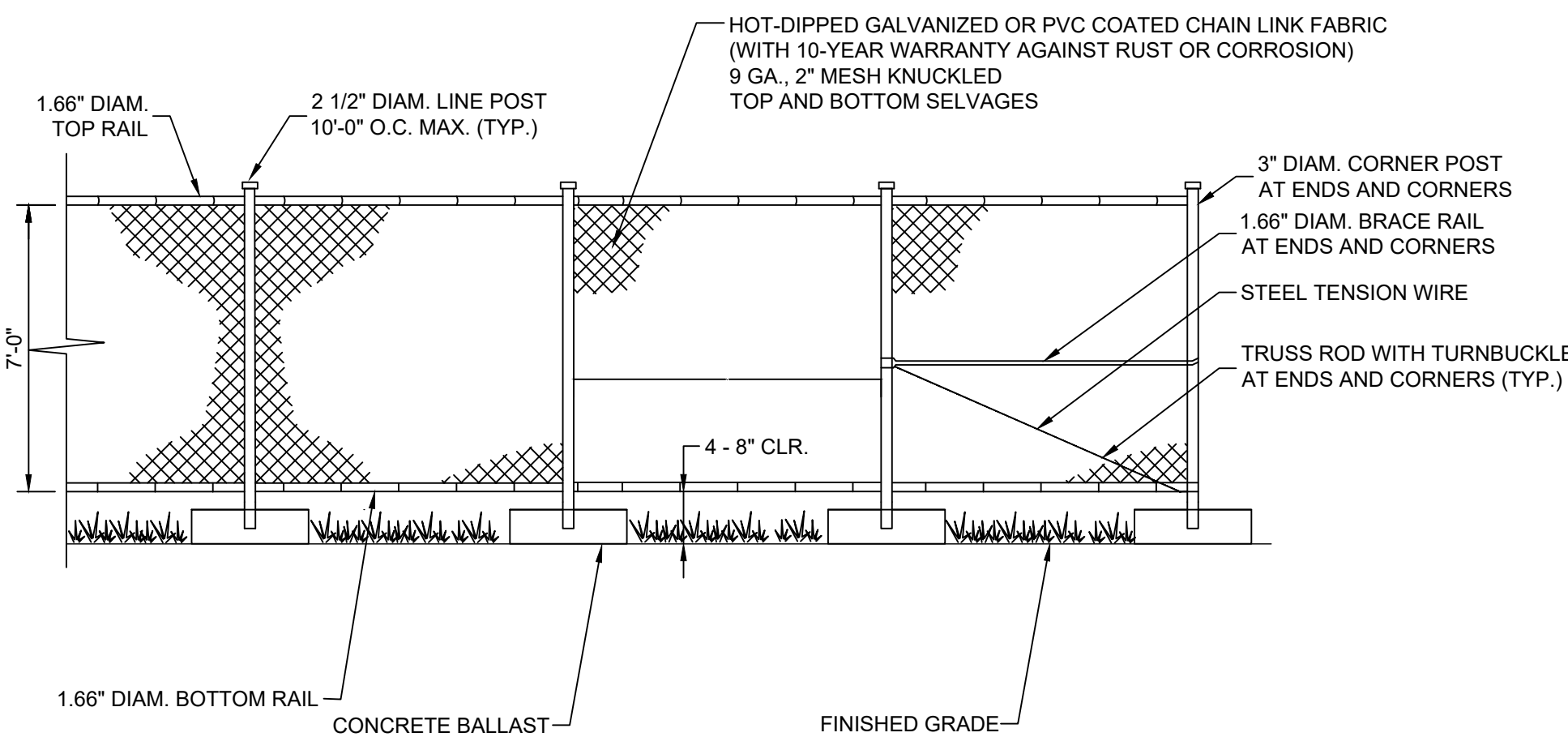
- TEST PITS TO BE CONDUCTED, AS DIRECTED BY ENGINEER, TO CONFIRM THAT UNDERGROUND ELECTRIC LINE CAN BE INSTALLED WITHIN ROAD-BUILD UP MATERIAL AND WILL NOT BE WITHIN WASTE.
- WESTERN PORTION OF FENCED-IN FACILITY OVERLAPS EXISTING CLEAN FILL/STOCKPILE AREA. CITY HAS LEVELED AREA SINCE SURVEY WAS COMPLETED. CONTRACTOR SHALL CONFIRM GRADES AT TIME OF CONSTRUCTION AND MATCH INTO GRADES OUTSIDE FENCE. ACCESS ROAD CONSTRUCTION AND GRADING OF CLEAN FILL/STOCKPILE AREA MAY NECESSITATE EXCAVATION OF MATERIAL. TEST PITS TO BE CONDUCTED, AS DIRECTED BY ENGINEER, TO CONFIRM THAT A MINIMUM 36" OF MATERIAL IS MAINTAINED BETWEEN FINAL GRADES AND UNDERLYING WASTE, IF PRESENT.
- CTDEEP SHALL BE NOTIFIED PRIOR TO COMPLETING ANY TEST PITS WITHIN LIMITS OF WASTE. INVESTIGATIONS SHALL BE PERFORMED BY HAND METHODS OR SMALL EXCAVATOR.
- DIVERSION BERM DESIGN AND LAYOUT SHALL BE UPDATED PENDING RACKING FOUNDATION DESIGN. PERMANENT CHECK DAMS SHALL BE INSTALLED ALONG THE UPGRADIENT EDGE OF THE BERMS AND FIELD LOCATED BASED ON LOCATION OF CONCRETE BALLASTS AND OTHER PROPOSED FEATURES.



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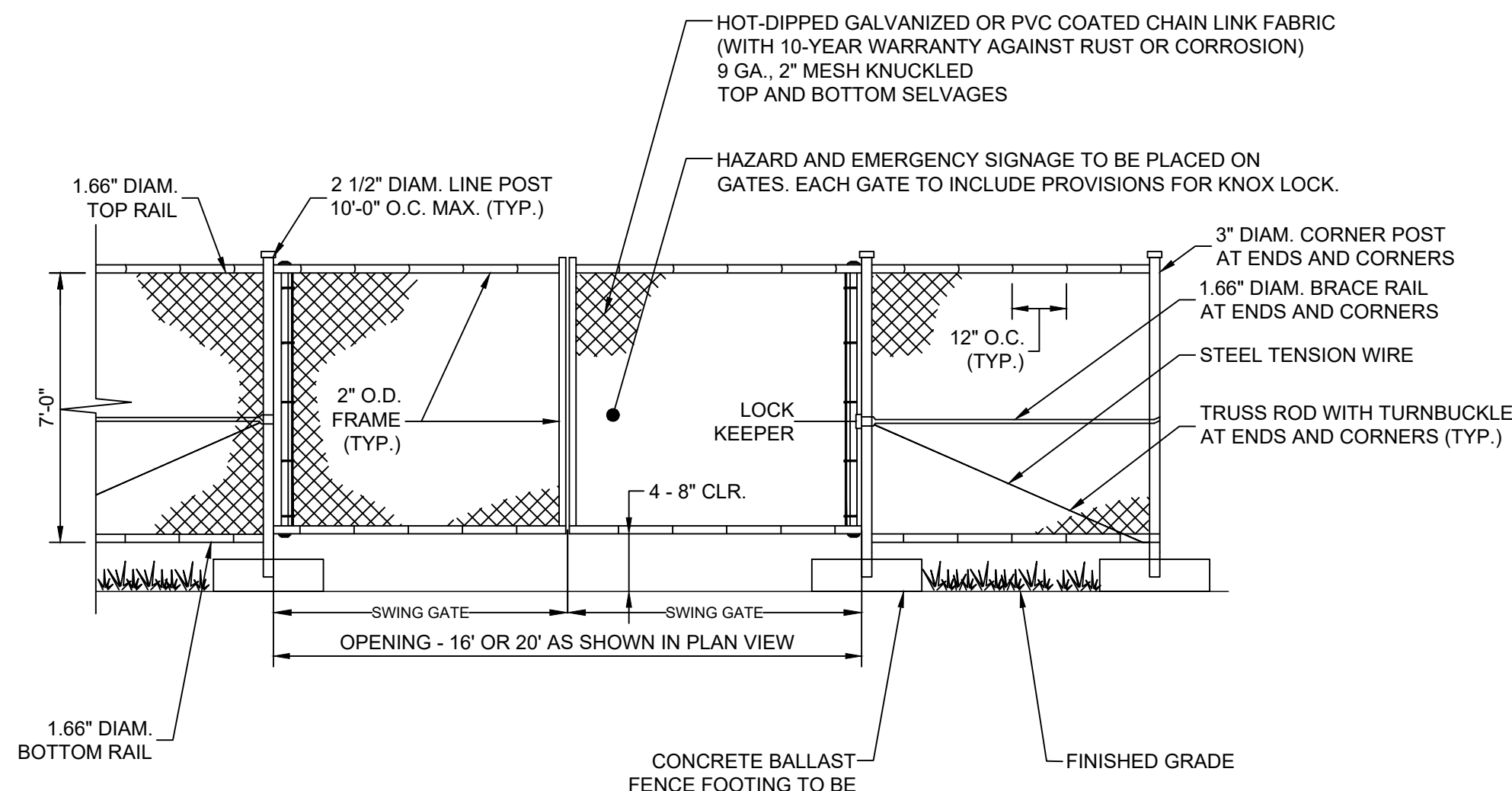
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TITLE: SITE PERMITTING & DRAINAGE PLAN - SOUTH		
DRAWN BY: TRC CHECKED BY: ASW APPROVED BY: CNS DATE: OCTOBER 2023	PROJ. NO.: 490953.0000 C2.02	CNS APPD.
		21 Griffin Road North Windsor, CT 06095 Phone: 860.298.9692 www.trcsolutions.com
FILE NO.: 490953 - BASE.dwg		

2406 - USER: Administrator - ATTACHED FILES: 490953 - EXISTING - ATTACHED IMAGES: DRAWING NAME: WAUGUSTAVAF22EnvironmentalRMD ENV RMD Projects\US Solar\490953-1\SS Torrington\10-DWG\490953 - BASE.dwg -- PLOT DATE: October 18, 2023 - 4:38PM -- LAYOUT: C2.02
 Version: 2017-R21



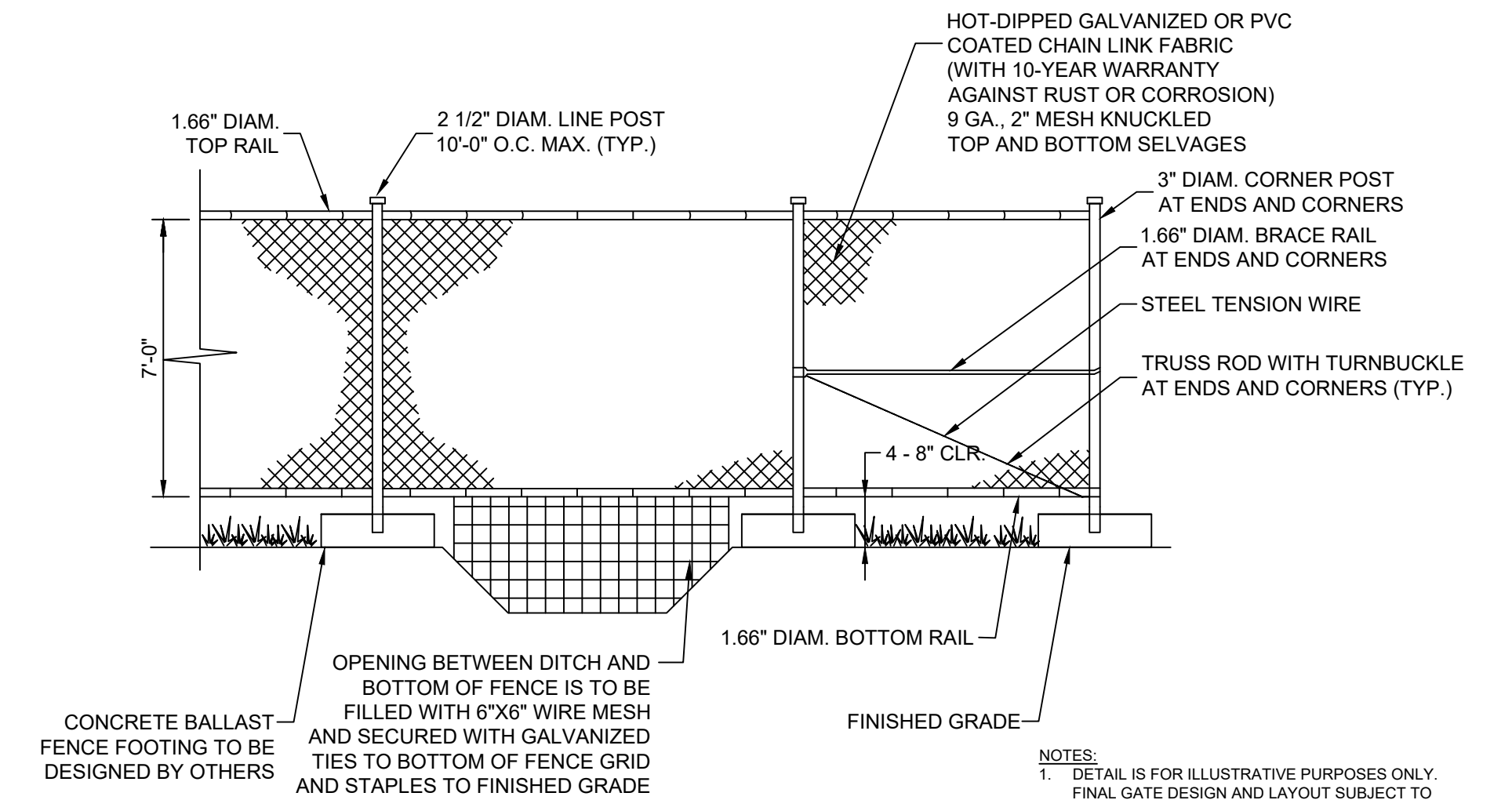
CHAINLINK FENCE DETAIL - BALLAST SUPPORTED

NOT TO SCALE



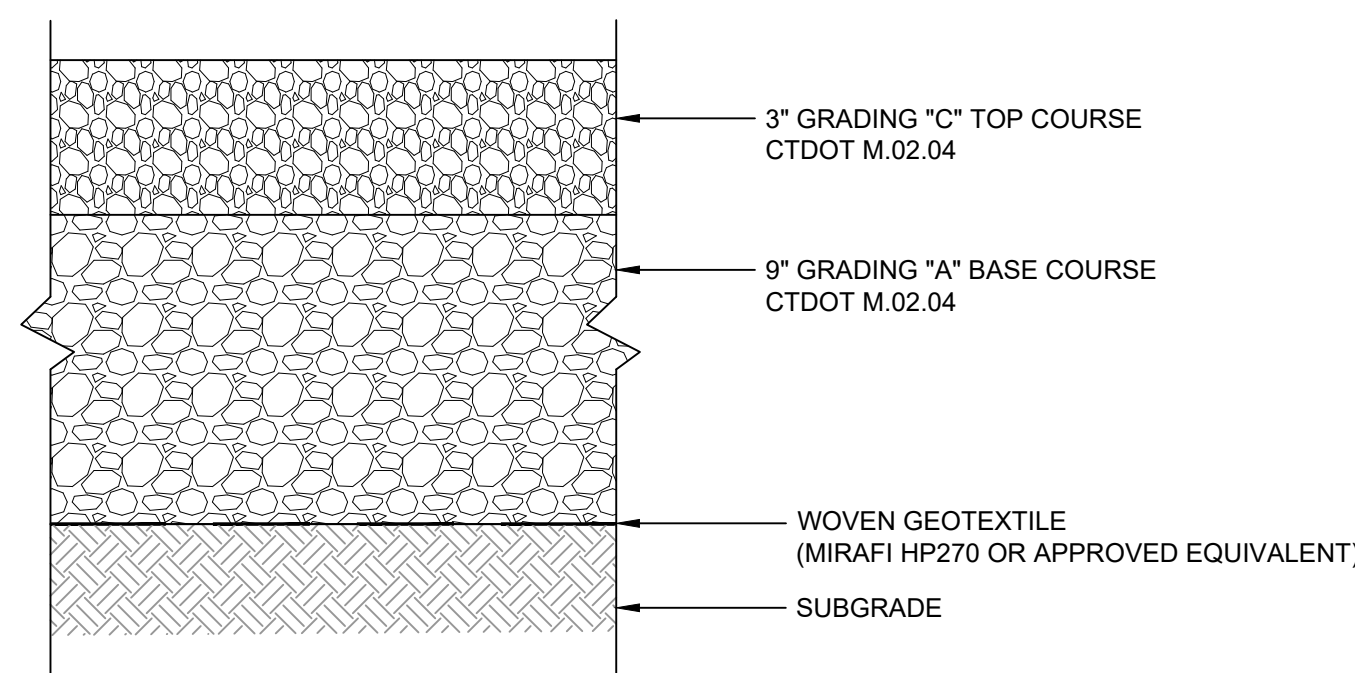
VEHICULAR GATE DETAIL - BALLAST SUPPORTED

NOT TO SCALE



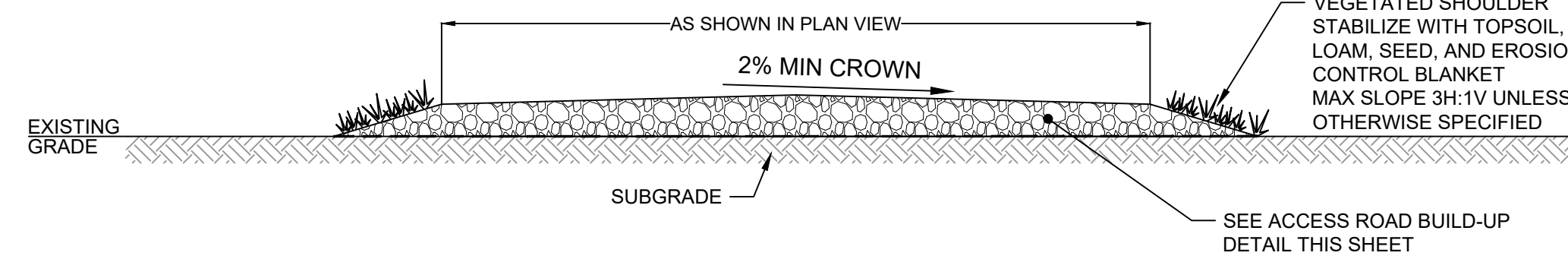
CHAINLINK FENCE AT DITCH DETAIL - BALLAST SUPPORTED

NOT TO SCALE



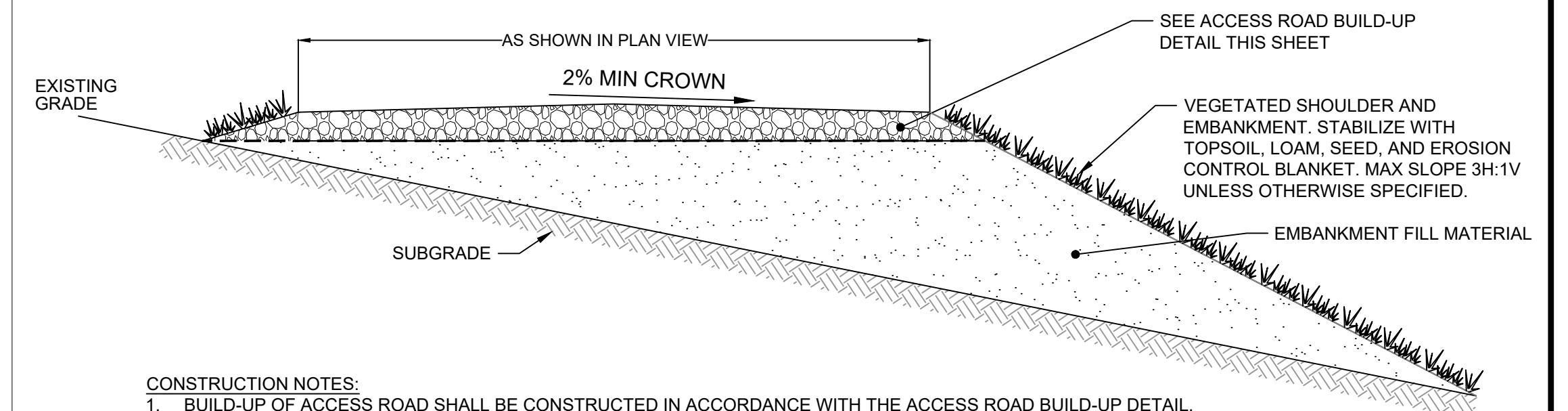
ACCESS ROAD BUILD-UP

NOT TO SCALE



PROPOSED ACCESS ROAD DETAIL

NOT TO SCALE



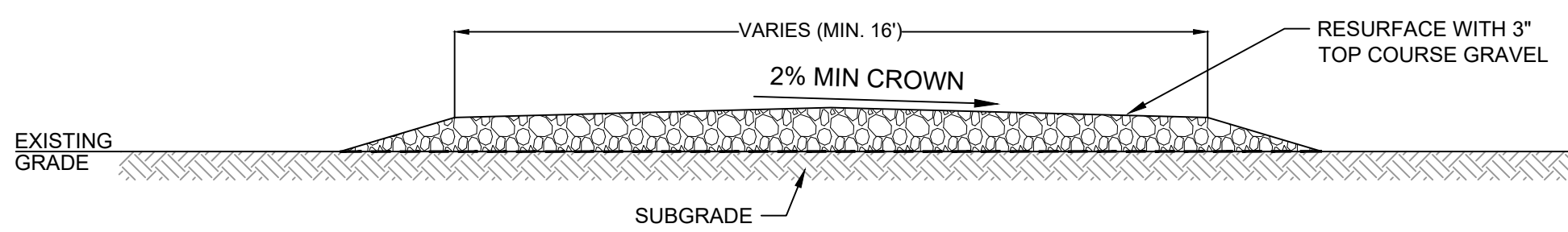
PROPOSED ACCESS ROAD WITH EMBANKMENT DETAIL

NOT TO SCALE

- CONSTRUCTION NOTES:**
- TOP AND BASE COURSE GRAVEL SHALL BE CTDOT STANDARD SPECIFICATION M.02.04. MATERIAL SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES OF CRUSHED OR UNCRUSHED GRAVEL FREE FROM SOFT, THIN, ELONGATED OR LAMINATED PIECES, VEGETABLE OR OTHER DELETERIOUS SUBSTANCES.
 - TOP AND BASE COURSE GRAVEL SHALL BE COMPACTED TO 95% OF ASTM D1557 AND PLACED IN MAXIMUM COMPACTED LIFTS OF 8-INCHES.
 - VEGETATION AND TOPSOIL WITHIN LIMIT OF ROAD FILL SHALL BE STRIPPED PRIOR TO PLACEMENT OF SUBGRADE/EMBANKMENT FILL OR GEOTEXTILE AS APPLICABLE. A MAXIMUM 6-INCH LAYER OF TOPSOIL SHALL BE REMOVED WITHIN LIMITS OF LANDFILL.
 - EMBANKMENT FILL MATERIAL REQUIRED TO ACHIEVE DESIGN GRADES, BEYOND DEPTH OF BASE GRAVEL AND GRAVEL SUBBASE, SHALL CONFORM TO THE REQUIREMENTS OF CTDOT 2.07.01; BORROW EXCEPT THAT IT SHALL CONTAIN NO STONE LARGER THAN 6 INCHES.
 - EMBANKMENT FILL MATERIAL SHALL BE COMPACTED TO 95% OF ASTM D1557 IN LAYERS NOT EXCEEDING 8 INCHES IN DEPTH. COMPACTED MEASURE. SUBGRADE SHALL BE COMPACTED TO 95% OF ASTM D1557 TO A DEPTH OF 12-INCHES.

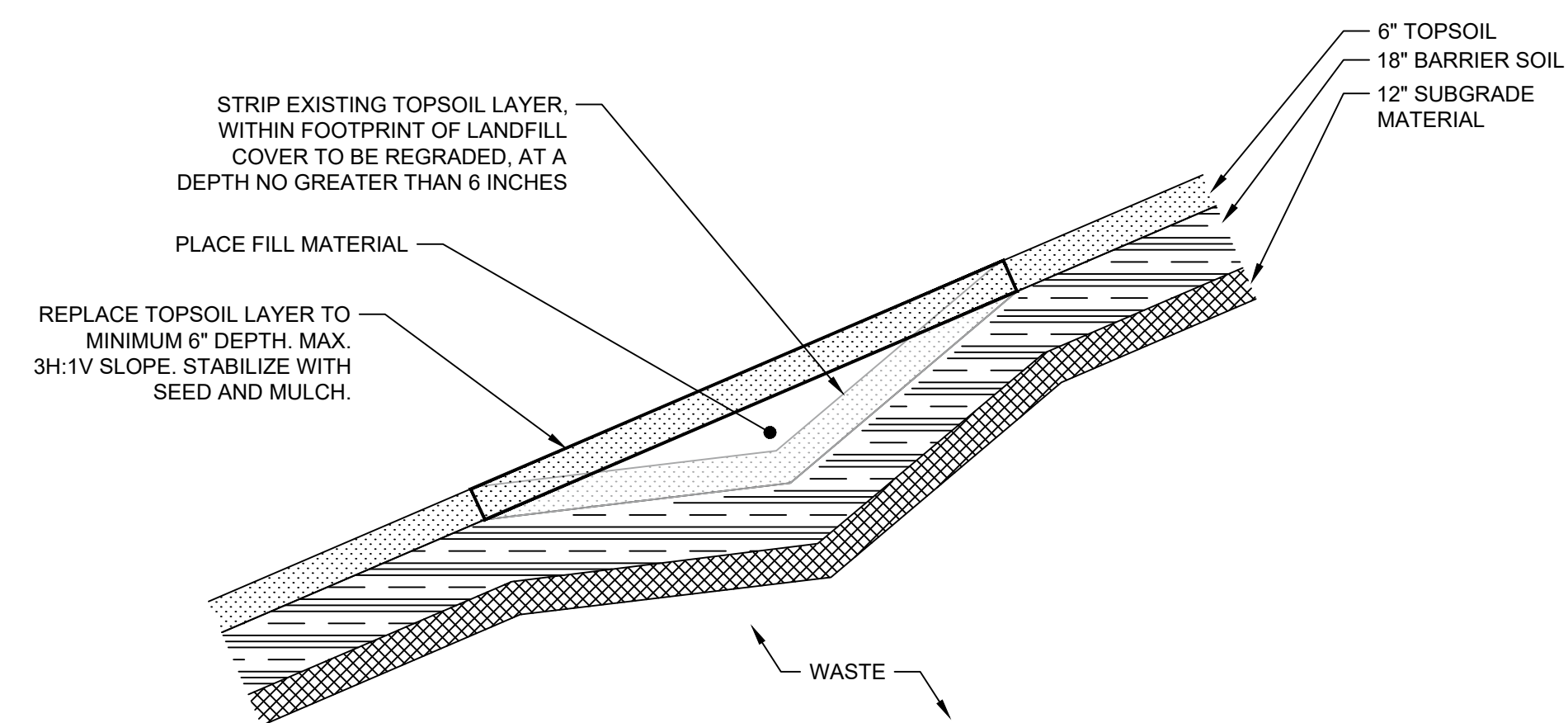
- CONSTRUCTION NOTES:**
- BUILD-UP OF ACCESS ROAD SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ACCESS ROAD BUILD-UP DETAIL.
 - GRAVEL SURFACE SHALL BE SUPERELEVATED OR CROWNED AND SLOPED A MINIMUM OF 2% AS INDICATED IN PLAN VIEW. CROSS SLOPE SHALL NOT EXCEED 4%.
 - VEGETATION AND TOPSOIL WITHIN LIMIT OF ROAD FILL SHALL BE REMOVED PRIOR TO PLACEMENT OF ROAD BUILD-UP MATERIALS AND USED IN SUPPORT OF STABILIZING ROADWAY SHOULDERS. A MAXIMUM 6-INCH LAYER OF TOPSOIL SHALL BE REMOVED WITHIN LIMITS OF LANDFILL.
 - ROADWAY SHOULDER SHALL BE VEGETATED AND PREPARED TO DIRECT RUNOFF AS SHEETFLOW TO UNDISTURBED AREAS.

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 - GRAVEL SURFACE SHALL BE SUPERELEVATED OR CROWNED AND SLOPED A MINIMUM OF 2% AS INDICATED IN PLAN VIEW. CROSS SLOPE SHALL NOT EXCEED 4%.
 - TOPSOIL WITHIN LIMIT OF ROAD FILL SHALL BE REMOVED PRIOR TO PLACEMENT OF ROAD BUILD-UP MATERIALS AND USED IN SUPPORT OF STABILIZING ROADWAY SHOULDERS. A MAXIMUM 6-INCH LAYER OF TOPSOIL SHALL BE REMOVED WITHIN LIMITS OF LANDFILL.
 - ROADWAY SHOULDER SHALL BE VEGETATED AND PREPARED TO DIRECT RUNOFF AS SHEETFLOW TO UNDISTURBED AREAS.
 - AT LOCATIONS WHERE THE FINAL GRADE OF THE ACCESS ROAD IS GREATER THAN 12" ABOVE THE EXISTING GRADE, ADDITIONAL FILL MATERIAL WILL BE NEEDED BELOW THE ACCESS ROAD BUILD-UP MATERIALS. THE MAXIMUM EMBANKMENT SLOPE SHALL BE 3H:1V UNLESS OTHERWISE SPECIFIED. A GEOTECHNICAL ENGINEER SHALL ASSESS AND FINALIZE EMBANKMENT DESIGN, INCLUDING FILL MATERIAL AND INSTALLATION SPECIFICATIONS, PRIOR TO CONSTRUCTION.



EXISTING ACCESS MAINTENANCE DETAIL

NOT TO SCALE



LANDFILL COVER IMPROVEMENT

NOT TO SCALE

- CONSTRUCTION NOTES:**
- EXISTING GRAVEL ACCESS ROAD TO BE WIDENED TO 16' WIDTH, PROVIDED THAT EXISTING CAPACITY OF ROADSIDE DITCHES ARE NOT INHIBITED BY DOING SO.
 - EXISTING GRAVEL SHALL BE COMPACTED TO 95% OF ASTM D1557 AND IMPROVED TO A DEPTH OF 12-INCHES.
 - GRAVEL SHALL CONFORM TO GRADING "C" TOP COURSE AS PROVIDED IN THE CTDOT STANDARD SPECIFICATION M.02.04. MATERIAL SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES OF CRUSHED OR UNCRUSHED GRAVEL FREE FROM SOFT, THIN, ELONGATED OR LAMINATED PIECES; VEGETABLE OR OTHER DELETERIOUS SUBSTANCES.
 - GRAVEL SURFACE SHALL BE SUPERELEVATED OR CROWNED AND SLOPED A MINIMUM OF 2% AS INDICATED IN PLAN VIEW. CROSS SLOPE SHALL NOT EXCEED 4%.
 - ROADWAY SHOULDER SHALL BE VEGETATED AND PREPARED TO DIRECT RUNOFF AS SHEETFLOW TO UNDISTURBED AREAS.

- CONSTRUCTION NOTES:**
- TOPSOIL SHALL BE STRIPPED WITHIN THE AREA OF THE PROPOSED CONTOURS INDICATED ON THE SITE GRADING PLAN AND STOCKPILED IN ON-SITE AREA DESIGNATED BY SITE OWNER FOR REUSE.
 - TOPSOIL REMOVAL WITHIN THE LIMITS OF WASTE TO BE OVERSEEN BY ENGINEER TO ENSURE THE UNDERLYING COVER SOIL MATERIAL IS NOT REMOVED AND/OR DAMAGED.
 - IF THE QUANTITY OF TOPSOIL ON-SITE IS INSUFFICIENT, OR DOES NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS, ADDITIONAL TOPSOIL MATERIAL SHALL BE PROVIDED FROM AN OFF-SITE SOURCE.
 - SEE THE FILL MATERIAL AND TOPSOIL SPECIFICATIONS ON SHEET G1.02.
 - FILL MATERIAL SHALL BE COMPACTED WITHIN 4% ABOVE THE OPTIMUM MOISTURE CONTENT AND A MINIMUM IN-PLACE DENSITY OF 90% OF MAXIMUM DRY DENSITY (IN ACCORDANCE WITH ASTM D698) AND PLACED IN MAXIMUM COMPACTED LIFTS OF 9-INCHES.

PERMITTING

SEAL:	PROFESSIONAL ENGINEER:
	CARL N. STOPPER
	DATE:
	OCTOBER 18, 2023

NO.	BY	DATE	REVISION	APPD.
0	TRC	10/18/2023	ISSUED FOR CONNECTICUT SITING COUNCIL	CNS

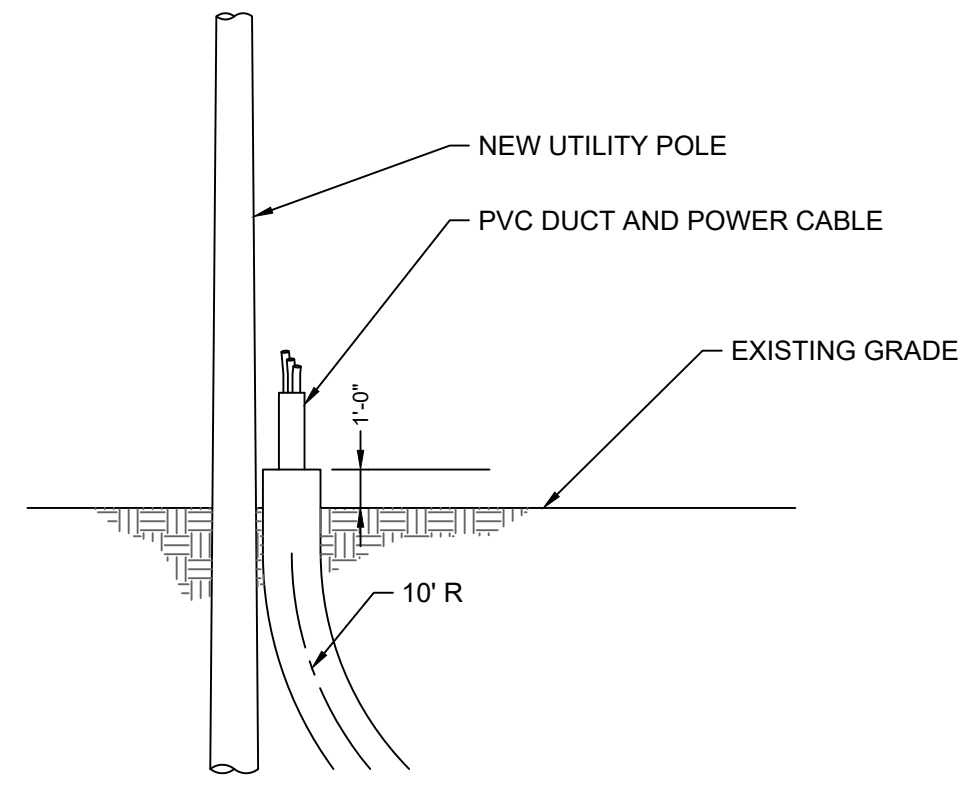
PROJECT: UNITED STATES SOLAR CORPORATION
 USS TORRINGTON SOLAR LLC
 PROPOSED 1.998 MW-AC SOLAR ARRAY
 105 VISTA DR, TORRINGTON, LITCHFIELD COUNTY, CT

PERMITTING DETAILS

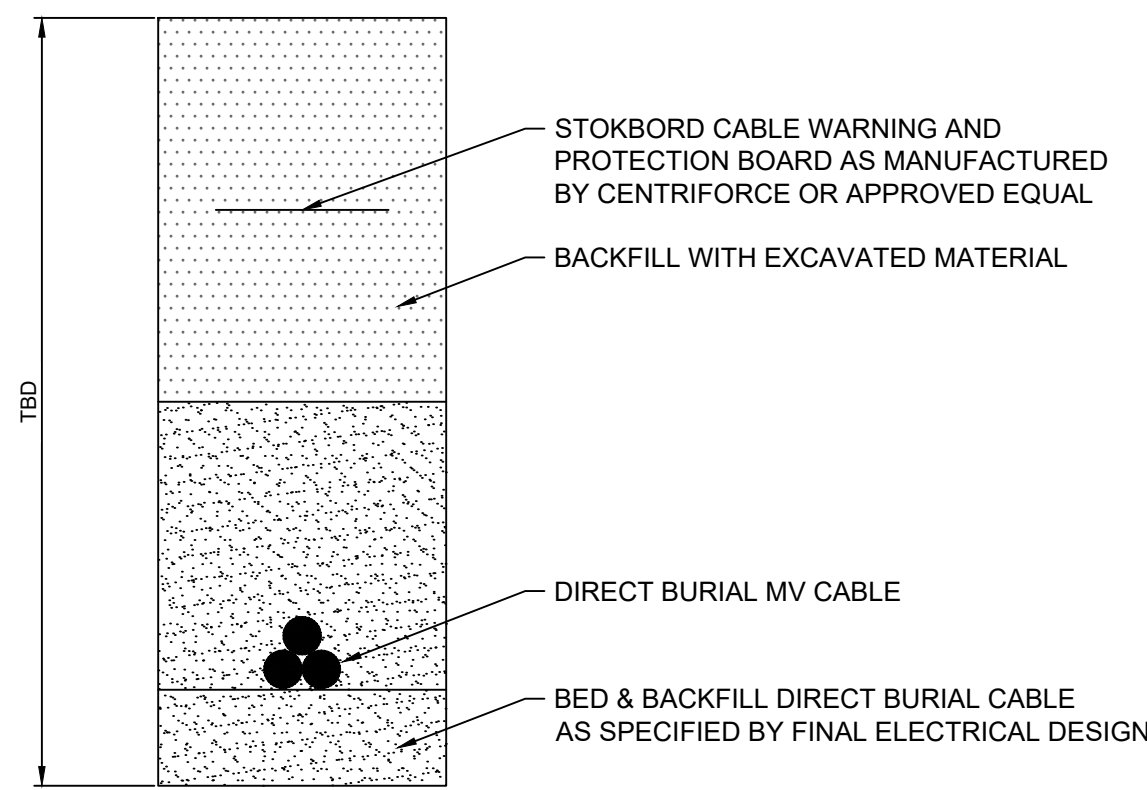
DRAWN BY:	TRC	PROJ. NO.:	490953.0000
CHECKED BY:	ASW		
APPROVED BY:	CNS		C4.00
DATE:	OCTOBER 2023		

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 Windsor, CT 06095
 Phone: 860.298.9692
 www.trcsolutions.com

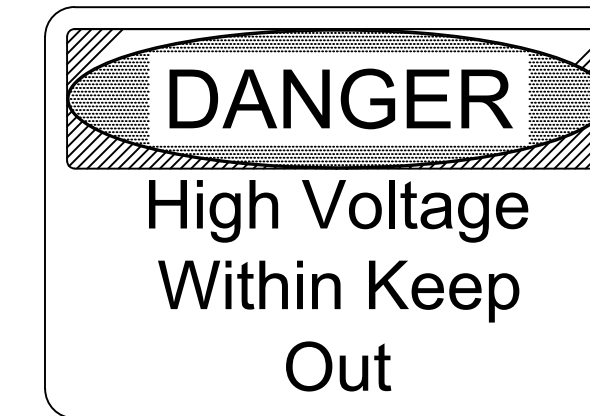
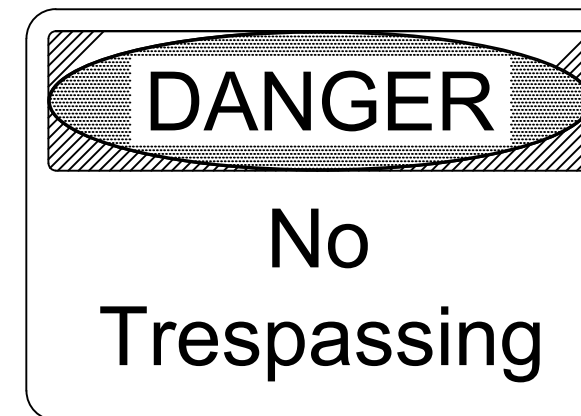
FILE NO.: 490953 - DT.dwg



UNDERGROUND TO OVERHEAD TRANSITION DETAIL
NOT TO SCALE



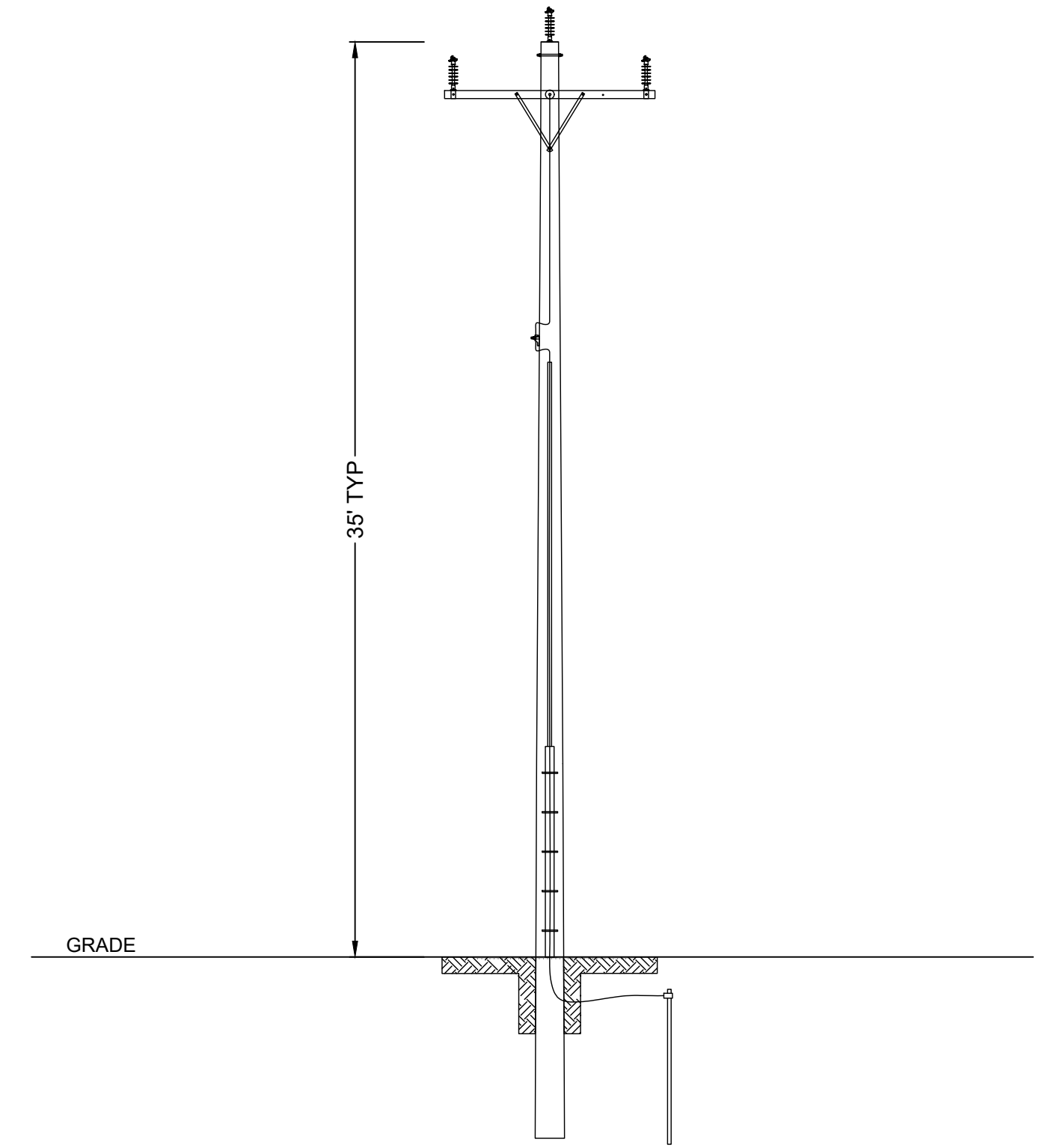
MV UNDERGROUND COLLECTION LINE DETAIL
NOT TO SCALE



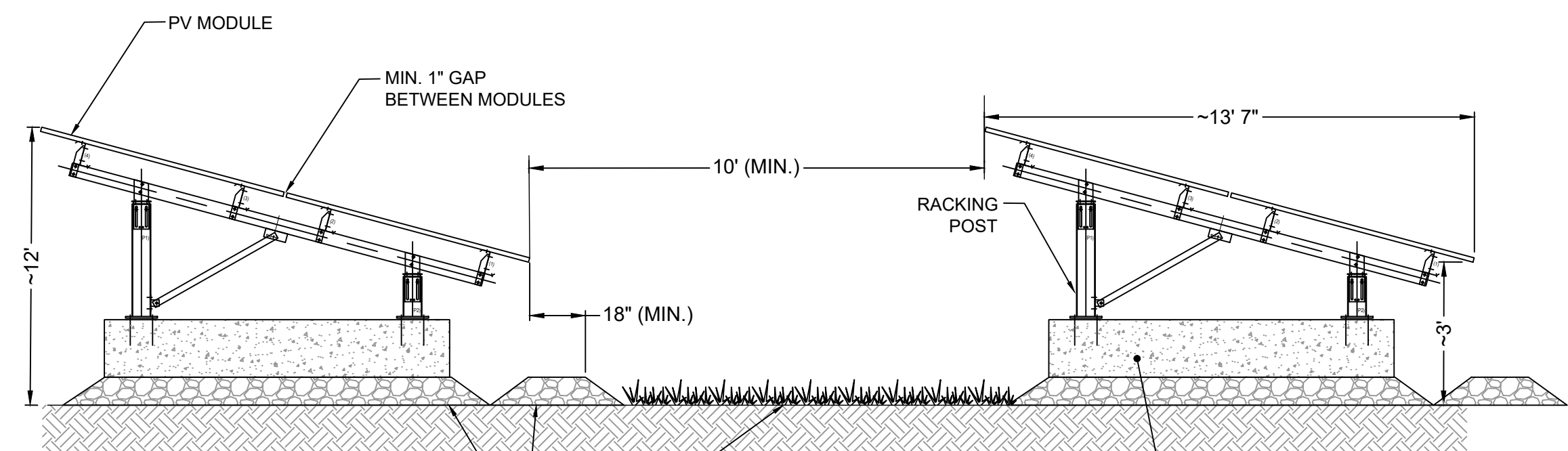
NOTES

1. NO PARKING SIGN SHALL BE POSTED AT FACILITY ENTRANCE GATE. OTHER SIGNS SHALL BE PLACED ON GATES AND ALONG PERIMETER FENCING.
2. SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
3. SIGNS SHALL BE 20" WIDE BY 14" HIGH.
4. SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES.
5. SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING.
6. SIGNAGE SHALL INCLUDE 24-HR EMERGENCY CONTACT INFORMATION FOR FACILITY OPERATOR.

HAZARD & EMERGENCY SIGNAGE
NOT TO SCALE



TYPICAL UTILITY POLE
NOT TO SCALE

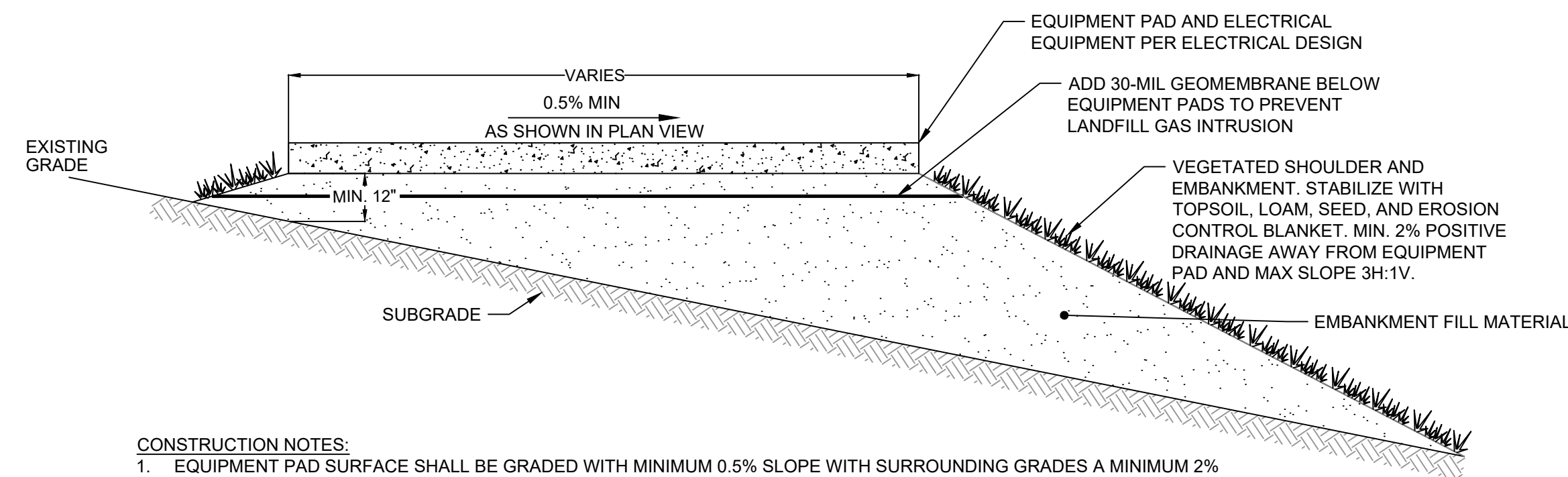


MINIMUM 4-6" THICK LAYER OF ASTM #3 CRUSHED STONE INSTALLED ALONG FULL LENGTH OF ARRAY ROW UNDER ARRAY DRIP EDGE. STONE SHALL BE OPEN-GRADED (NO FINES OR STONE DUST). ADDITIONAL STONE TO BE PLACED BENEATH BALLAST FOUNDATION AS REQUIRED TO MEET RACKING SLOPE TOLERANCES. STONE TO BE UNDERLAIN BY WOVEN GEOTEXTILE (MIRAFI HP270 OR APPROVED EQUIVALENT)

ARRAY FIELD TO BE RESTORED TO MEADOW CONDITION. STABILIZE WITH LOAM, SEED, MULCH IN ACCORDANCE WITH EROSION & SEDIMENTATION CONTROL PLAN. TRM SHALL BE PLACED FOR ADDITIONAL STABILIZATION IN HIGH TRAFFIC AREAS AND SLOPES >10% WHICH RUN APPROXIMATELY PERPENDICULAR TO ARRAY ROWS, AS DIRECTED BY ENGINEER.

BALLAST-SUPPORTED RACKING. BALLAST DESIGN TO BE PROVIDED BY RACKING MANUFACTURER. ASSUMED DIMENSIONS OF 38"X48"X16" USED FOR COVER SYSTEM ASSESSMENT BASED ON EXPERIENCE WITH SIMILAR PROJECTS.

TYPICAL FIXED TILT BALLAST SUPPORTED SOLAR RACKING - SIDE ELEVATION
NOT TO SCALE



CONSTRUCTION NOTES:

1. EQUIPMENT PAD SURFACE SHALL BE GRADED WITH MINIMUM 0.5% SLOPE WITH SURROUNDING GRADES A MINIMUM 2% SLOPE TO PROVIDE ADEQUATE SURFACE WATER DRAINAGE AWAY FROM EQUIPMENT PAD. SHOULDER SHALL BE VEGETATED AND PREPARED TO DIRECT RUNOFF AS SHEETFLOW TO UNDISTURBED AREAS.
2. TOPSOIL WITHIN LIMIT OF EQUIPMENT PAD FILL SHALL BE REMOVED PRIOR TO PLACEMENT OF FILL MATERIAL AND USED IN SUPPORT OF STABILIZING SHOULDERS/EMBANKMENTS. A MAXIMUM 6-INCH LAYER OF TOPSOIL SHALL BE REMOVED WITHIN LIMITS OF LANDFILL (FOR EQUIPMENT PAD EMBANKMENT CONSTRUCTION AND WHERE ELECTRICAL EQUIPMENT GROUNDING WILL OCCUR). OTHERWISE, THERE WILL BE NO EXCAVATION OF LANDFILL COVER MATERIAL FOR ELECTRICAL EQUIPMENT INSTALLATION.
3. FOUNDATION DESIGN AND SUBGRADE BELOW CONCRETE PAD PER ELECTRICAL AND STRUCTURAL DESIGNS TO BE FINALIZED PRIOR TO CONSTRUCTION.

TYPICAL EQUIPMENT PAD DETAIL
NOT TO SCALE

PERMITTING

		PROFESSIONAL ENGINEER: CARL N. STOPPER DATE: OCTOBER 18, 2023
PROJECT: UNITED STATES SOLAR CORPORATION USS TORRINGTON SOLAR LLC PROPOSED 1.998 MW-AC SOLAR ARRAY 105 VISTA DR, TORRINGTON, LITCHFIELD COUNTY, CT		
<p style="font-size: 2em; color: red; margin: 0;">PRELIMINARY ELECTRICAL DETAILS</p>		
DRAWN BY: TRC CHECKED BY: ASW APPROVED BY: CNS DATE: OCTOBER 2023	PROJ. NO.: 490953.0000 C5.00	TRC 21 Griffin Road North Windsor, CT 06095 Phone: 860.298.9692 www.trcsolutions.com
SEAL:		FILE NO.: 490953 - DT.dwg