

THIS PROJECT QUALIFIES AS A LARGE CONSTRUCTION SITE IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. CONSTRUCTION WILL BE PHASED AS FOLLOWS TO MINIMIZE THE SITE AREA THAT IS ACTIVELY BEING DEVELOPED AT ANY ONE TIME. DATES INCLUDED ARE ESTIMATED TIMEFRAMES FOR THE START AND COMPLETION OF EACH PHASE.

- ▶ PHASE I - ACCESS ROAD CONSTRUCTION (NOVEMBER 2017)
- ▶ PHASE II - SITE CLEARING, STUMP REMOVAL, AND LIMITED GRADING (DECEMBER 2017 - JANUARY 2018)
- ▶ PHASE III - SOLAR ARRAY INSTALLATION (JANUARY 2018 - APRIL 2018)
- ▶ PHASE IV - INTERCONNECTION ROUTE (MARCH 2018 - APRIL 2018)
- ▶ PHASE V - PERIMETER FENCE INSTALLATION (APRIL 2018)

DETAILS FOR EACH PHASE ARE DESCRIBED BELOW.

PHASE I - ACCESS ROAD CONSTRUCTION

THIS FIRST PHASE WILL CONSIST OF IMPROVING THE EXISTING ACCESS TRAIL, AND EXTENDING IT SUCH THAT THE ENTIRE SITE CAN BE ACCESSED FOR LATER PHASES. THIS PHASE ALSO CONSISTS OF THE CONSTRUCTION OF SUPPORT AREAS THAT WILL BE UTILIZED DURING THIS PHASE AND LATER PHASES OF THE PROJECT. PHASE I ACTIVITIES WILL BE SEQUENCED AS FOLLOWS:

1. FLAG LIMITS OF DISTURBANCE FOR PHASE I ACTIVITIES, AS SHOWN ON THE DRAWINGS.
2. HOLD A PRE-CONSTRUCTION MEETING.
3. INSTALL THE CONSTRUCTION ENTRANCE ALONG CANDLEWOOD MOUNTAIN ROAD, AND PREPARE THE TEMPORARY STAGING AREA.
4. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS.
5. CUT ABOVE-GROUND VEGETATION, WITHIN THE LIMITS OF DISTURBANCE FOR PHASE I ACTIVITIES, AS NECESSARY FOR CONSTRUCTION OF ACCESS ROAD AND SUPPORT AREA(S). CHIP CLEARED VEGETATION AND SAVE FOR FUTURE USE AS MULCH, OR REMOVE FROM THE SITE. AVOID DISTURBING VEGETATION OUTSIDE THE LIMITS OF CLEARING.
6. INSTALL SEDIMENT BARRIERS AND FILTERS AS SHOWN ON THE DRAWINGS. STABILIZE ALL DRAINAGE DIVERSIONS AND CONVEYANCES.
7. REMOVE STUMPS AS NECESSARY WITHIN THE LIMITS OF DISTURBANCE FOR PHASE I ACTIVITIES, AND REMOVE FROM THE SITE.
8. STRIP ALL TOPSOIL WITHIN THE ROAD LAYOUT, AND STOCKPILE WITHIN THE SUPPORT AREA(S) FOR LATER USE. STOCKPILES SHALL BE MANAGED IN ACCORDANCE WITH THIS PLAN.
9. PERFORM CUT/FILL OPERATIONS AS NECESSARY TO CONSTRUCT THE ACCESS ROAD SUB-BASE.
10. PLACE, GRADE, AND COMPACT AGGREGATE MATERIAL TO COMPLETE THE ACCESS ROAD BASE. ONCE THE ROAD BASE IS COMPLETED IN PLACE, THE ACCESS ROAD SURFACE WILL BE CONSIDERED STABILIZED.
11. SPREAD TOPSOIL (AS NECESSARY) AND PERFORM FINAL GRADING ON ACCESS ROAD SHOULDERS.

12. APPLY PERMANENT SEED TO EXPOSED AREAS ACCORDING TO THE SEEDING INSTRUCTIONS INCLUDED ON THE DRAWINGS. SEEDING SHALL BE INITIATED WITHIN 72 HOURS OF FINAL GRADING IN A GIVEN AREA. APPLY EROSION CONTROLS (E.G., STRAW, EROSION CONTROL BLANKETS) TO ALL AREAS WITH SLOPES GREATER THAN 3:1.
13. REMOVE SEDIMENT BARRIERS AND FILTERS THAT ARE NOT DESIGNATED TO REMAIN FOR LATER PHASES.

PHASE II - SITE CLEARING, STUMP REMOVAL, AND LIMITED GRADING

THIS PHASE WILL BE BROKEN UP INTO SEVERAL SMALLER SUB-PHASES. CLEARING, STUMP REMOVAL, AND LIMITED GRADING WILL BE PERFORMED SUCH THAT THE TOTAL AREA OF DISTURBED, EXPOSED GROUND SURFACE CONTRIBUTING STORMWATER RUNOFF TO A COMMON POINT IS RESTRICTED TO 4.9 ACRES. EACH AREA, 4.9 ACRES OR LESS, WHICH CONTRIBUTES STORMWATER RUNOFF TO A COMMON POINT SHALL BE REFERRED TO AS A "SUB-AREA". THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY LAYOUT AND FLAGGING OF ALL SUB-AREAS PRIOR TO GROUND DISTURBANCE ACTIVITIES ASSOCIATED WITH THIS PHASE. PHASE II ACTIVITIES SHALL BE SEQUENCED AS FOLLOWS:

1. IDENTIFY SUB-AREA(S) IN WHICH PHASE II ACTIVITIES WILL BE INITIATED NEXT. PHASE II ACTIVITIES SHALL BE COMPLETED IN UPSLOPE SUB-AREAS FIRST, THEN TRANSITION SEQUENTIALLY THROUGH DOWNGRADIENT SUB-AREAS, SO AS TO AVOID DIRECTING RUNOFF FROM EXPOSED AREAS ONTO AREAS THAT HAVE ALREADY BEEN STABILIZED.
2. MARK THE LIMITS OF THE SUB-AREA(S) IN THE FIELD WITH HIGH-VISIBILITY FLAGGING, STAKES, OR A SIMILAR MEASURE.
3. HOLD A PRE-CONSTRUCTION MEETING.
4. INSTALL PERIMETER SEDIMENT BARRIERS.

5. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND OTHER BEST MANAGEMENT PRACTICES AS SHOWN ON THE DRAWINGS.
6. CUT ABOVE-GROUND VEGETATION WITHIN THE SUB-AREA LIMITS OF CLEARING. CHIP CLEARED VEGETATION AND SAVE FOR FUTURE USE AS MULCH, OR REMOVE FROM THE SITE. AVOID DISTURBING VEGETATION OUTSIDE THE LIMITS OF CLEARING.
7. ENSURE AN ADEQUATE SUPPLY OF TOPSOIL IS PRESENT IN THE SITE STOCKPILE AREA. IMPORT TOPSOIL TO THE STOCKPILE AREA IF NECESSARY.
8. REMOVE STUMPS FROM WITHIN THE ARRAY AREA AS SHOWN ON THE DRAWINGS, AND REMOVE FROM THE SITE.
9. PERFORM LIMITED GRADING AND SPREAD TOPSOIL AS NECESSARY TO PROVIDE A SUITABLE SURFACE COVER TO SUPPORT GRASS GROWTH. THIS STEP MAY BE INITIATED CONCURRENT WITH STUMP REMOVAL TO MINIMIZE THE AMOUNT OF TIME AN AREA REMAINS EXPOSED.
10. PERFORM FINAL GRADING AND APPLY TEMPORARY SEED TO EXPOSED AREAS ACCORDING TO THE SEEDING INSTRUCTIONS. SEEDING SHALL BE INITIATED WITHIN 72 HOURS OF FINAL GRADING IN A GIVEN AREA. APPLY EROSION CONTROLS (E.G., STRAW, EROSION CONTROL BLANKETS) TO ALL AREAS WITH SLOPES GREATER THAN 3:1.
 - PERMANENT SEEDING MAY BE INITIATED IN LIEU OF TEMPORARY SEEDING IN AREAS THAT ARE NOT ANTICIPATED TO BE DISTURBED DURING LATER PHASES.
11. ONCE A SUB-AREA HAS BEEN STABILIZED (I.E., 80% ESTABLISHED VEGETATIVE COVER MATURE ENOUGH TO CONTROL SOIL EROSION AND SURVIVE SEVERE WEATHER CONDITIONS), WORK AT THE NEXT DOWNGRADIENT SUB-AREA CAN BEGIN, USING THE SEQUENCING DESCRIBED ABOVE.
12. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE MAINTAINED PER THE DRAWING DETAILS AND MANUFACTURER'S INSTRUCTIONS.
13. TEMPORARY SEDIMENT TRAPS SHALL BE CLEANED AND REMOVED OR CONVERTED TO PERMANENT STORMWATER CONTROL DEVICES, ONCE ALL UPGRADIENT AREAS HAVE BEEN STABILIZED FOLLOWING COMPLETION OF PHASE III.
14. PERIMETER SEDIMENT BARRIERS SHALL NOT BE REMOVED UNTIL ALL UPGRADIENT AREAS HAVE BEEN STABILIZED FOLLOWING COMPLETION OF PHASE III.

PHASE III - SOLAR ARRAY INSTALLATION

THIS PHASE WILL BE CONDUCTED ON NEWLY STABILIZED GROUND, FOLLOWING THE ESTABLISHMENT OF VEGETATIVE COVER INITIATED IN PHASE II.

1. HOLD A PRE-CONSTRUCTION MEETING.
2. INSTALL CONDUIT WITHIN TRENCHES AS SHOWN ON THE DRAWINGS, MINIMIZING THE LENGTH OF TRENCH THAT REMAINS EXPOSED. WHERE POSSIBLE, TRENCHES SHALL BE BACKFILLED AND STABILIZATION INITIATED IN THE SAME WORK DAY.
3. WORKING ON AREAS THAT HAVE BEEN SUFFICIENTLY STABILIZED, INSTALL GROUND SCREWS FOR SOLAR ARRAYS. DISTURBANCE TO PREVIOUSLY STABILIZED AREAS SHOULD BE MINIMIZED THROUGH THE USE OF ANY OR ALL OF THE FOLLOWING: LOW GROUND PRESSURE EQUIPMENT, COMMON EQUIPMENT TRAVEL LANES, OR WORKING IN DRY CONDITIONS.
4. STABILIZE ANY SOIL CUTTINGS REMOVED DURING SCREW INSTALLATION IN UPLAND AREAS.
5. INSTALL EQUIPMENT PADS AS SHOWN ON THE PLANS. INITIATE PERMANENT SEEDING FOR STABILIZATION WHERE REQUIRED.

PHASE IV - INTERCONNECTION ROUTE

THIS PHASE CONSISTS OF INSTALLING THE INTERCONNECTION ROUTE BETWEEN THE ARRAY AREA AND ROUTE 7, AS SHOWN ON THE DRAWINGS. THIS PHASE MAY BE CONDUCTED CONCURRENTLY WITH PHASES II AND III.

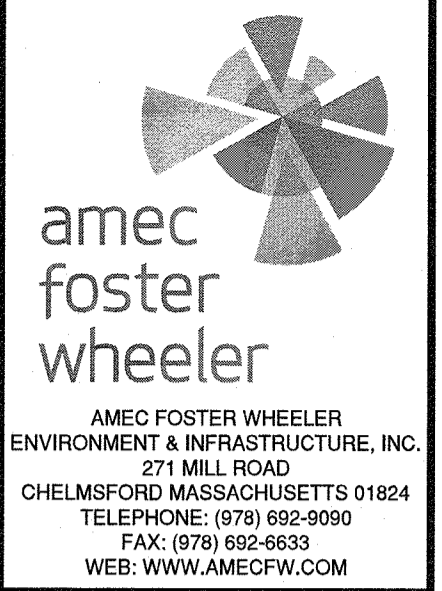
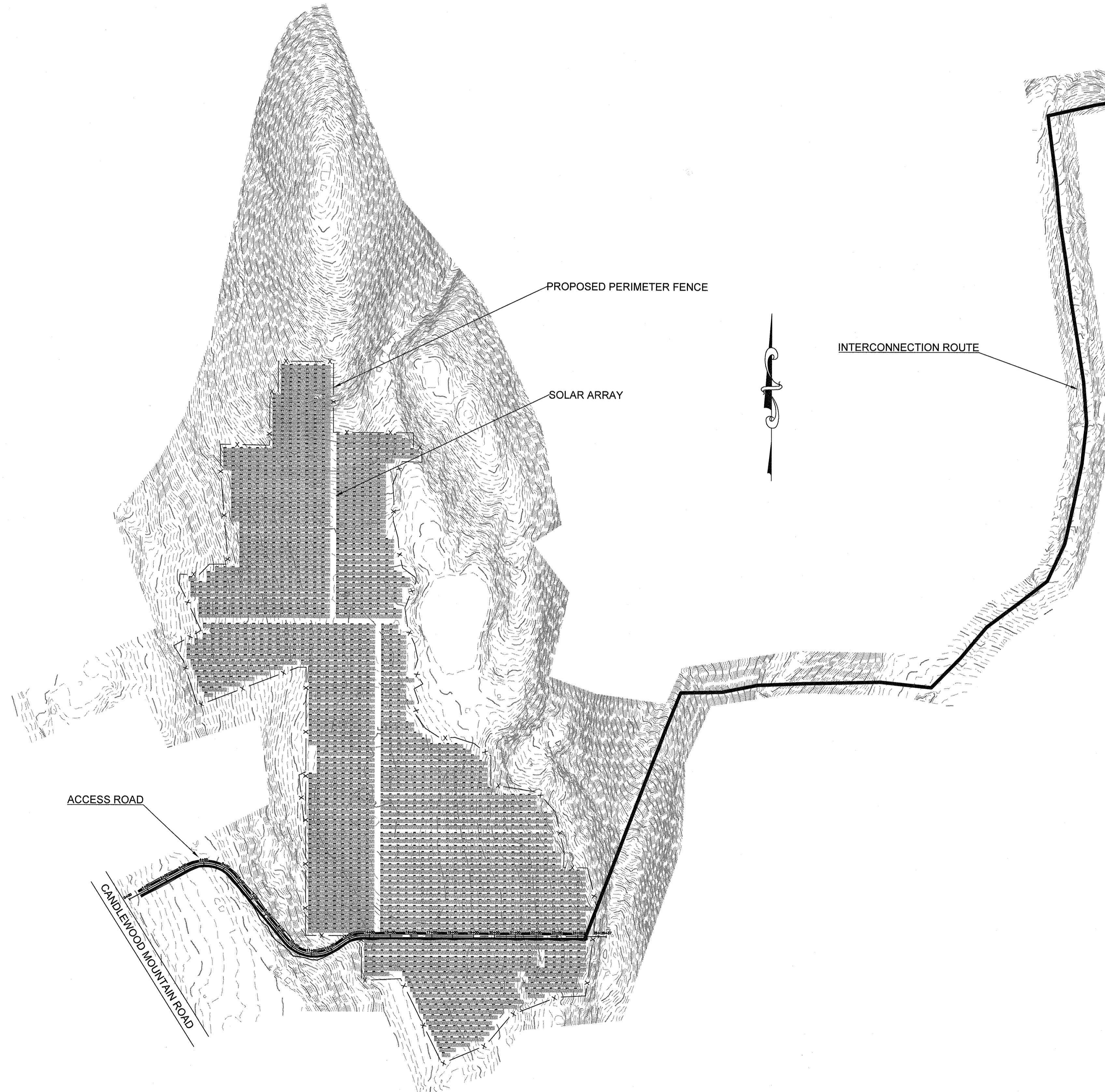
IDENTIFY THE LIMITS OF WORK FOR THIS PHASE, INCLUDING ANY TREE CLEARING OR PRUNING NECESSARY TO ACCOMMODATE THE OVERHEAD LINES, AND MARK THEM WITH HIGH-VISIBILITY FLAGGING.

1. IDENTIFY LOCATIONS FOR PROPOSED UTILITY POLES, AND MARK THEM WITH HIGH-VISIBILITY FLAGGING.
2. HOLD A PRE-CONSTRUCTION MEETING.
3. CUT ABOVE-GROUND VEGETATION WITHIN THE LIMITS OF CLEARING. CHIP CLEARED VEGETATION AND SAVE FOR FUTURE USE AS MULCH, OR REMOVE FROM THE SITE. AVOID DISTURBING VEGETATION OUTSIDE THE LIMITS OF CLEARING.
4. LEAVE STUMPS AND BELOW-GROUND VEGETATION IN PLACE.
5. ACCESS UTILITY POLE LOCATIONS FROM UPLAND AREAS.
6. CROSSING OF WETLAND AREAS SHALL BE AT THE NARROWEST POINT WITHIN THE LIMITS OF WORK. SWAMP MATS SHALL BE UTILIZED AT ALL WETLAND AREA CROSSING TO MINIMIZE SOIL DISTURBANCE AND COMPACTION.
7. SOILS REMOVED DURING INSTALLATION OF UTILITY POLES SHALL BE PLACED IN UPLAND AREAS, UPGRADIENT OF SEDIMENTATION CONTROLS, AND SHALL BE STABILIZED BY VEGETATIVE OR NON-VEGETATIVE MEASURES.
8. RESTORE DISTURBED AREAS UPON COMPLETION, INCLUDING RESTORATION OF WETLAND AREAS, IF NECESSARY, AND APPLICATION OF PERMANENT SEED ON EXPOSED SOILS.

PHASE V - PERIMETER FENCE INSTALLATION

THIS PHASE CONSISTS OF INSTALLING THE PERIMETER FENCE AROUND THE ARRAY AREA AND THE ACCESS GATE, AS SHOWN ON THE DRAWINGS. THIS PHASE MAY BE CONDUCTED CONCURRENTLY WITH PHASES II, III, AND/OR IV.

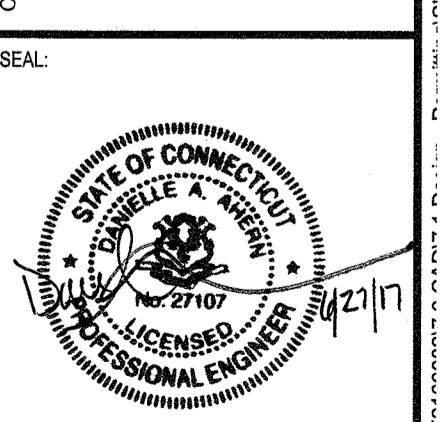
1. IDENTIFY THE LIMITS OF WORK FOR THIS PHASE, INCLUDING THE EXTENTS OF FENCING.
2. MARK OBSCURE ANY LOCATIONS WITH HIGH-VISIBILITY FLAGGING.
3. HOLD A PRE-CONSTRUCTION MEETING.
4. INSTALL THE FENCE POSTS.
5. SOILS GENERATED DURING INSTALLATION OF UTILITY POLES (IF ANY) SHALL BE PLACED IN UPLAND AREAS, UPGRADIENT OF SEDIMENTATION CONTROLS, AND SHALL BE STABILIZED BY VEGETATIVE OR NON-VEGETATIVE MEASURES.



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	ISSUED BY	RJB			
	APPROVED				

PROJECT: PROPOSED GROUND MOUNTED PHOTOVOLTAIC ARRAY - NEW MILFORD
 TITLE: EROSION AND SEDIMENT CONTROLS

CLIENT: CANDLEWOOD SOLAR LLC
 AMERESCO
 Green • Clean • Sustainable



DESIGNED BY: DMP
 CHECKED BY: MKB
 PROJECT NUMBER: 3522160082
 DRAWING NUMBER: ES-01
 SHEET NUMBER: 1 OF 3

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EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

1. PROVIDE, INSPECT, AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND STANDARDS, INCLUDING BUT NOT LIMITED TO THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO INITIATING EARTH DISTURBANCE ACTIVITIES FOR EACH PHASE OF ACTIVITY.
3. INSPECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION. AT A MINIMUM, INSPECT CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER .25" RAIN EVENTS.
4. AMEND OR PROVIDE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY.
5. REMOVE TEMPORARY CONTROL MEASURES ONCE THE SITE IS ADEQUATELY STABILIZED.
6. ALTERNATE LOCATIONS FOR THE TEMPORARY FACILITIES AND CONTROLS SHOWN MAY BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
7. REMOVE, RELOCATE, AND REINSTALL TEMPORARY FACILITIES AND CONTROLS THROUGHOUT CONSTRUCTION AS NEEDED TO COORDINATE WITH THE SEQUENCE AND PROGRESSION OF WORK.

INSPECTION AND MAINTENANCE:

1. SILT FENCE
 - SILT FENCE SHALL BE INSPECTED IMMEDIATELY FOLLOWING ANY RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED RAINFALL. OTHERWISE, INSPECTION SHALL BE WEEKLY, AT A MINIMUM.
 - NECESSARY REPLACEMENT/REPAIRS SHALL BE PERFORMED IMMEDIATELY.
 - SEDIMENT SHALL BE REMOVED FROM THE UPSTREAM FACE OF THE BARRIER WHEN IT HAS REACHED A DEPTH OF ONE HALF THE BARRIER HEIGHT.
 - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.
2. STABILIZED CONSTRUCTION ENTRANCE
 - THE ENTRANCE/EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO IMPERVIOUS SURFACES (E.G., PAVED ROADWAYS). THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES MUST BE REMOVED IMMEDIATELY.
 - WHERE ACCUMULATION OF DUST/SEDIMENT IS INADEQUATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A POWER BROOM OR STREET SWEEPER WILL BE REQUIRED TO CLEAN PAVED OR IMPERVIOUS SURFACES.
3. TOPSOILING
 - TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT.
4. TEMPORARY SEEDING
 - PROTECT AREAS FROM FOOT AND VEHICULAR TRAFFIC.
 - INSPECT THE GROWTH OF TEMPORARY SEED PERIODICALLY, PARTICULARLY AFTER SIGNIFICANT RAIN EVENTS.
 - IMMEDIATELY RE-SEED AND MULCH AREAS WHERE ESTABLISHMENT OF VEGETATION IS POOR OR EROSION IS OBSERVED.
 - IRRIGATE AS NECESSARY TO PROVIDE SEED WITH ADEQUATE MOISTURE.
5. PERMANENT SEEDING
 - PROTECT AREAS FROM FOOT AND VEHICULAR TRAFFIC.
 - INSPECT AND MAINTAIN VEGETATED AREAS FOR AT LEAST ONE YEAR FOLLOWING COMPLETION OF CONSTRUCTION.
 - INSPECT THE GROWTH OF PERMANENT SEED PERIODICALLY, PARTICULARLY AFTER SIGNIFICANT RAIN EVENTS.
 - IMMEDIATELY RE-SEED AND MULCH AREAS WHERE ESTABLISHMENT OF VEGETATION IS POOR OR WHERE EROSION IS OBSERVED.
 - IRRIGATE AS NECESSARY TO PROVIDE SEED WITH ADEQUATE MOISTURE.
6. MULCHING
 - PROTECT AREAS FROM FOOT AND VEHICULAR TRAFFIC.
 - INSPECT MULCH PERIODICALLY, PARTICULARLY AFTER SIGNIFICANT RAIN EVENTS, UNTIL VEGETATION IS FIRMLY ESTABLISHED.
 - IMMEDIATELY APPLY ADDITIONAL MULCH WHERE SPARSE COVERAGE OR EROSION IS OBSERVED.

SEEDING AND REVEGETATION PLAN:

UPON COMPLETION OF SITE CONSTRUCTION, ALL AREAS PREVIOUSLY DISTURBED SHALL BE TREATED AS STATED BELOW. THESE AREAS SHALL BE CLOSELY MONITORED BY A QUALIFIED INSPECTOR UNTIL SUCH TIME AS SATISFACTORY GROWTH OF VEGETATION IS ESTABLISHED.

1. TOPSOIL SHALL BE SPREAD OVER ALL DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH OF 4".
2. THE FOLLOWING SHALL BE INCORPORATED INTO THE SOIL PRIOR TO SEEDING: AGRICULTURAL LIMESTONE TO ATTAIN A PH OF 6.0 IN THE UPPER 2 INCHES OF SOIL, FOLLOWED BY 5-10-10 FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE.
3. DISTURBED AREAS SHALL BE SEEDED WITH THE FOLLOWING MIXTURE: CREEPING RED FESCUE AT A RATE OF 20 LBS/ACRE, TALL FESCUE AT A RATE OF 20 LBS/ACRE, PERENNIAL RYEGRASS AT A RATE OF 5 LBS/ACRE AND BIRDFOOT TREFOIL AT A RATE OF 10 LBS/ACRE.
4. SEEDING SHALL BE COMPLETED BETWEEN THE DATES OF APRIL 1 AND SEPTEMBER 15. WATERING MAY BE REQUIRED DURING DRY PERIODS.
5. SMALL GRAIN STRAW MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS/ACRE FOLLOWING SEEDING. MULCH SHALL BE ANCHORED BY WATERING OR TRACKING BY BULLDOZING FLAT AREAS, USING ANCHORING EMULSION OR TRACKING BY BULLDOZING ON AREAS OF MODERATE SLOPES AND INSTALLING APPROVED EROSION CONTROL BLANKETS ON STEEP SLOPES (3:1 AND STEEPER).

ALL SEDIMENT CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 80% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

MONITORING PROGRAM:

SEDIMENTATION AND EROSION CONTROL STRUCTURES SHALL BE INSPECTED DAILY BY A QUALIFIED INSPECTOR AND ALL STRUCTURES DAMAGED BY CONSTRUCTION EQUIPMENT, VANDALS, OR THE ELEMENTS SHALL BE REPAIRED IMMEDIATELY. FOLLOWING RAINSTORMS AND DURING RUNOFF EVENTS, THE SITE AND ALL STRUCTURES SHALL BE INSPECTED FOR EROSION AND DAMAGE. ALL DAMAGED STRUCTURES SHALL BE REPAIRED AND/OR ADDITIONAL EROSION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO CONTINUING THE CONSTRUCTION.

FOLLOWING THE FINAL SEEDING, THE SITE SHALL BE INSPECTED TO ENSURE THAT THE VEGETATION HAS BEEN ESTABLISHED. RESEEDING SHALL BE CARRIED OUT, WITH FOLLOW-UP INSPECTION, IN THE EVENT OF ANY UNSATISFACTORY GROWTH. AFTER THE CONSTRUCTION INSPECTOR HAS DETERMINED THAT THE PROJECT AREA HAS STABILIZED, THE CONTRACTOR SHALL REMOVE ALL SILTATION FENCE, TEMPORARY SILTATION CONTROL RISERS, AND ANY OTHER TEMPORARY EROSION CONTROL MEASURES.

DUST CONTROL PROGRAM:

DUST CONTROL MEASURES SHALL BE IMPLEMENTED.

WATER: WATER SHOULD BE APPLIED AT A RATE SUFFICIENT ENOUGH TO MOISTEN EXPOSED SOIL TO PREVENT DUST TRANSPORT BUT NOT AT A RATE THAT PRODUCES ANY AMOUNT OF SILT-LADEN RUNOFF OR MUDDY POOLS IN THE TRAVEL WAY.

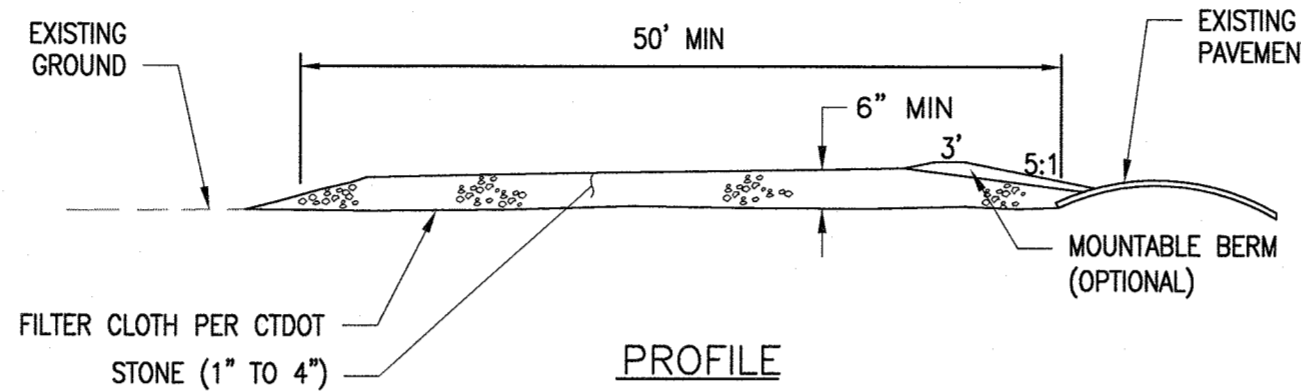
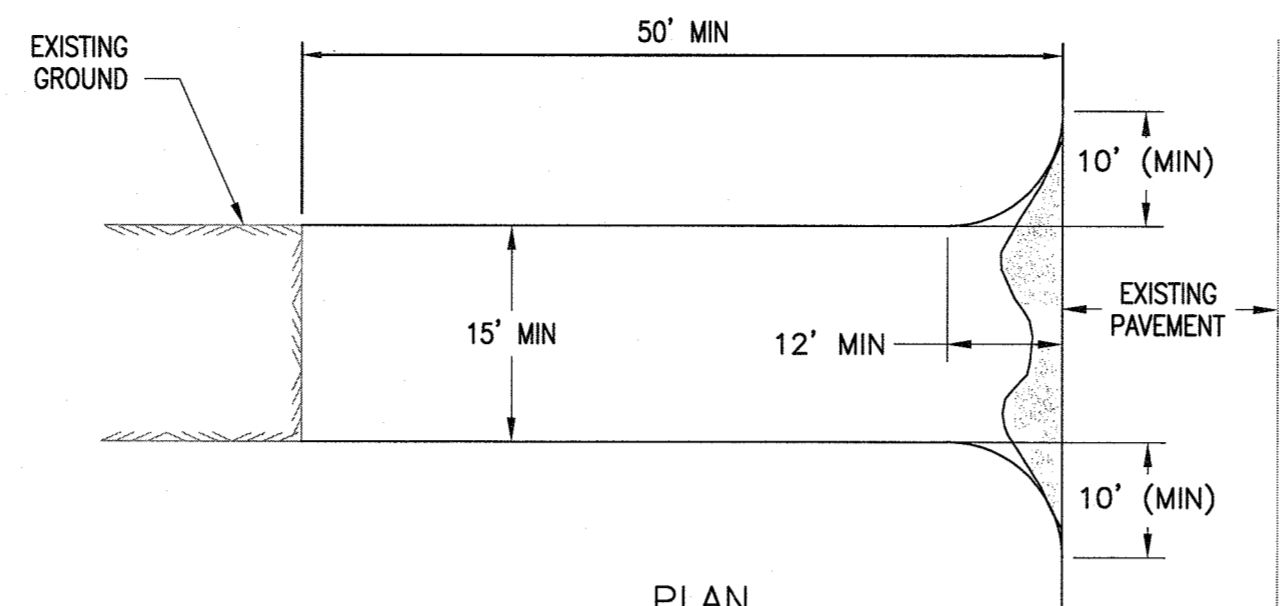
CALCIUM CHLORIDE: LIQUID OF FINE-FLAKED CALCIUM CHLORIDE MAY BE USED. CALCIUM CHLORIDE SHOULD NOT BE APPLIED ADJACENT TO WETLANDS, LAKES, POOLS OR OTHER NATURALLY SENSITIVE AREAS. LIMIT APPLICATION RATES TO 30% CALCIUM CHLORIDE OR AS RECOMMENDED BY MANUFACTURER.

STONE: COARSE GRAVEL SHOULD BE PLACED IN AREAS THAT ROUTINELY EXPERIENCE DUSTY CONDITIONS. USE ONLY CHEMICALLY STABLE AGGREGATES.

SWALE MAINTENANCE PLAN:

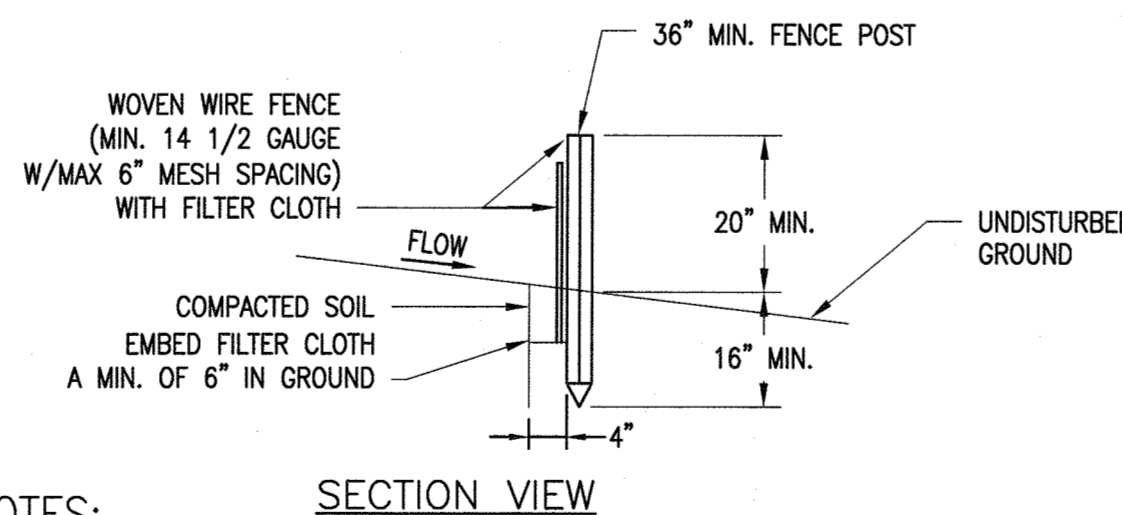
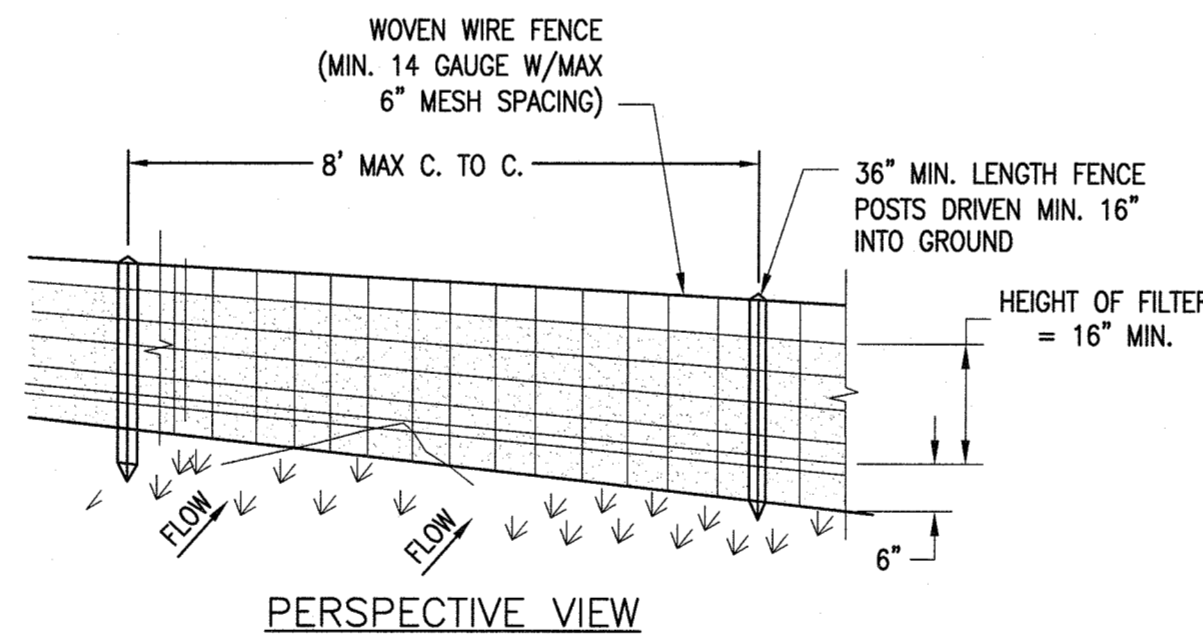
1. SWALES SHALL BE CHECKED FOR DEBRIS THAT MAY OBSTRUCT FLOW. INSPECTIONS SHALL BE CONDUCTED MONTHLY DURING WET WEATHER CONDITIONS FROM MARCH TO NOVEMBER.
2. THE SWALES SHALL BE INSPECTED ANNUALLY FOR EROSION, DESTABILIZATION OF SIDE SLOPES, EMBANKMENT SETTLING AND OTHER SIGNS OF STRUCTURAL FAILURE. CORRECTIVE ACTION SHALL BE TAKEN IMMEDIATELY UPON IDENTIFICATION OF PROBLEMS.
3. DREDGING IS REQUIRED WHEN ACCUMULATED VOLUME LOSS REACHES 15%, OR APPROXIMATELY EVERY 15 TO 20 YEARS.

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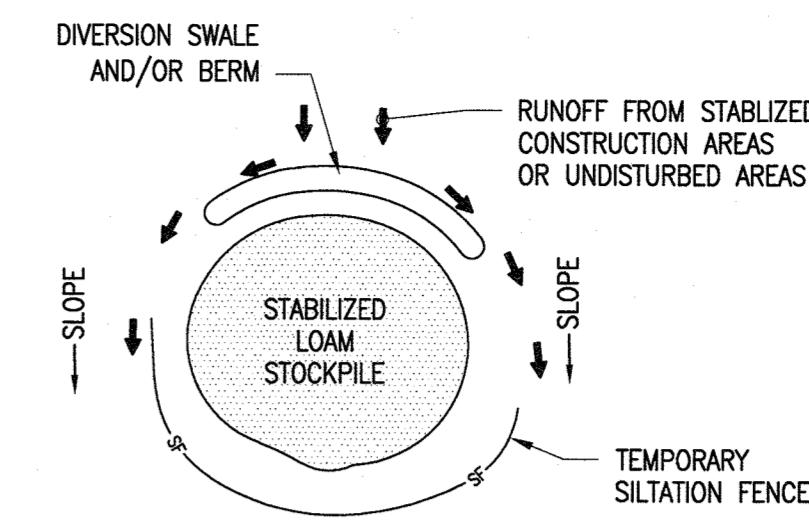
- NOTES:**
1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN 50 FEET.
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTING TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
NTS

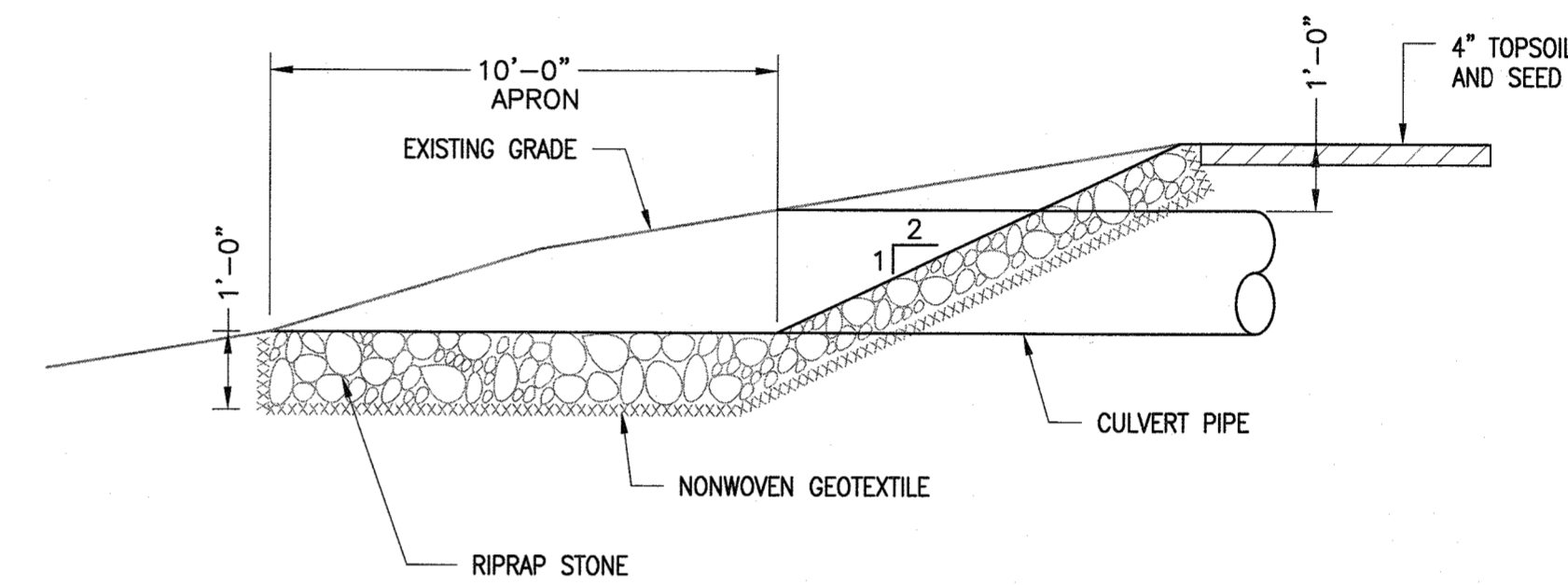


- NOTES:**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 'T' OR 'U' TYPE OR HARDWOOD.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100x, STABILINKA T140N, OR APPROVED EQUAL.
 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

SILT FENCE
NTS

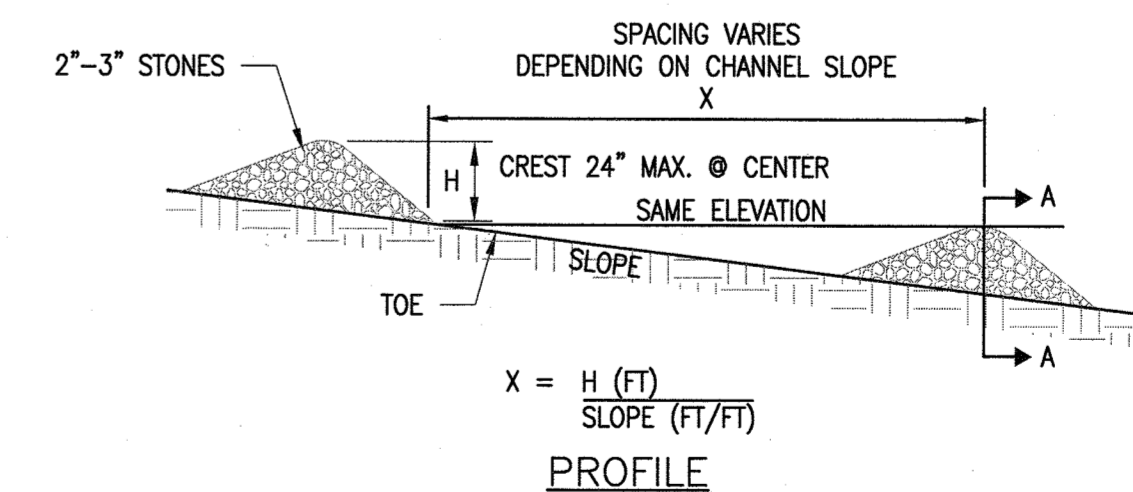
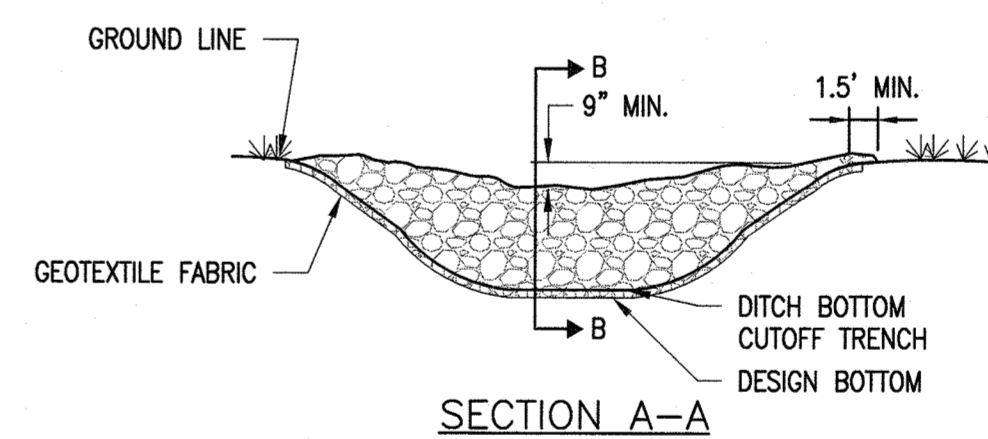
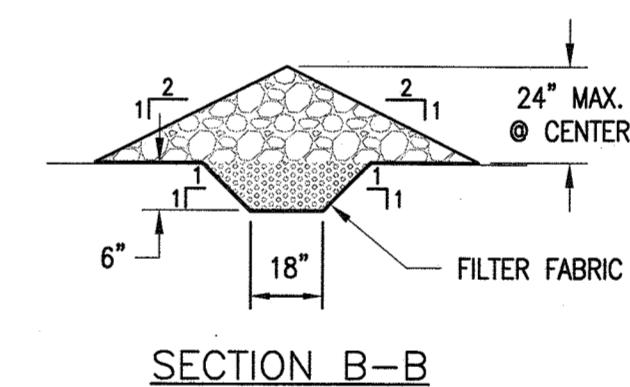


LOAM STOCKPILE (TYPICAL)
NTS



NOTE:
THE WIDTH OF THE RIPRAP SHALL EXTEND 2'-0" BEYOND EACH SIDE OF THE CULVERT PIPE AT THE OUTLET AND WIDEN TO 5'-0" AT END OF THE APRON.

RIPRAP INLET AND OUTLET PROTECTION
NTS



- NOTES:**
1. STONES WILL BE PLACED ON A FILTER FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON PLANS.
 2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

STONE CHECK DAM

amec foster wheeler
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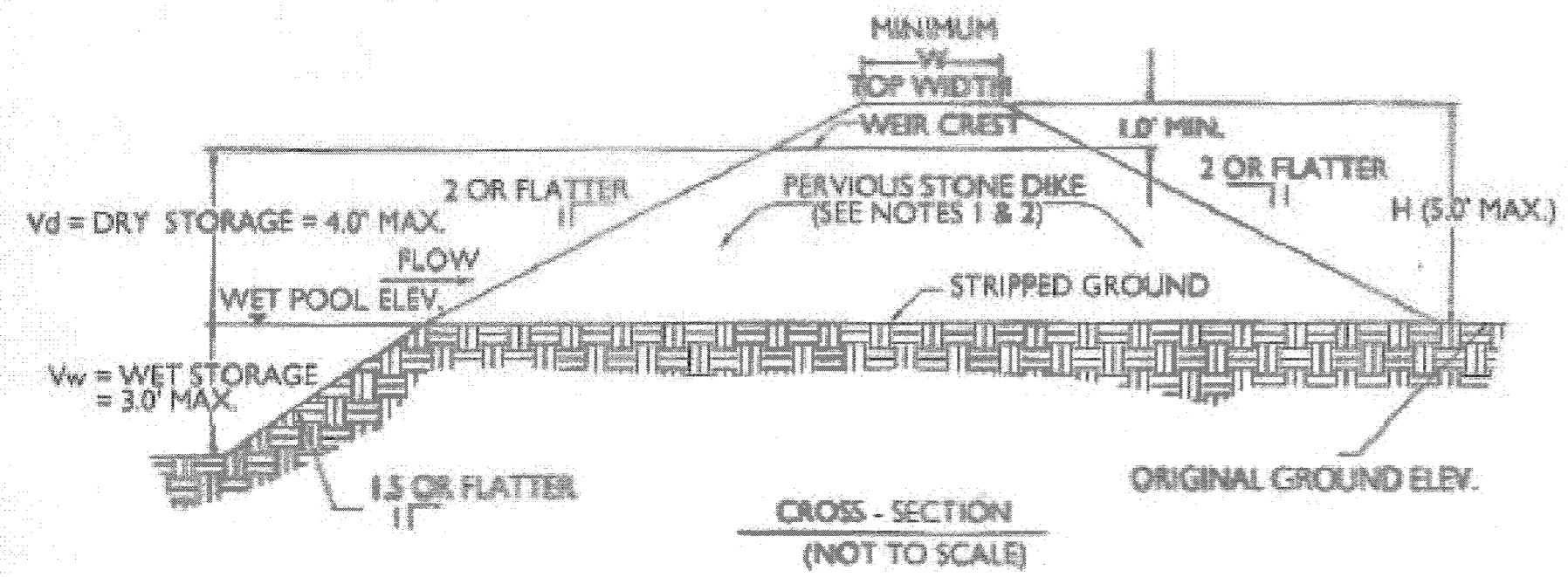
PROJECT: **PROPOSED GROUND MOUNTED PHOTOVOLTAIC ARRAY - NEW MILFORD**
TITLE: **SOIL EROSION AND SEDIMENT CONTROL DETAILS SHEET 1**

CLIENT: **CANDLEWOOD SOLAR LLC**
AMERESCO
Green • Clean • Sustainable

STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
No. 27107
12/17

DESIGNED BY: DMP	DRAWN BY: DED
CHECKED BY: MKB	SCALE:
PROJECT NUMBER: 3652160082	
DRAWING NUMBER: ES-02	
SHEET NUMBER: 2 OF 3	

Figure TST-2 Minimum Top Width (w) Required for Temporary Sediment Trap Embankments According to Height of Embankment (feet)



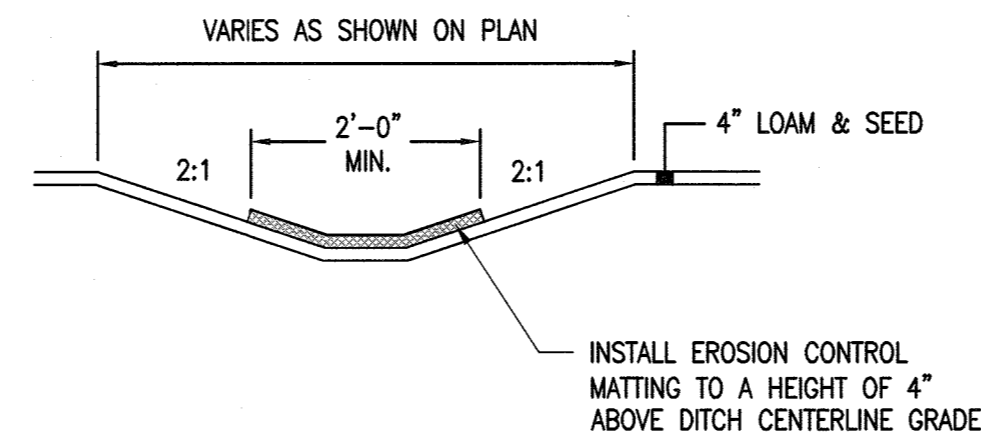
TOP WIDTH VS. HEIGHT
H = HEIGHT OF EMBANKMENT
W = TOP WIDTH OF EMBANKMENT

H (ft)	W (ft)
1.5	2.0
2.0	2.0
2.5	2.5
3.0	2.5
3.5	3.0
4.0	3.0
4.5	4.0
5.0	4.5

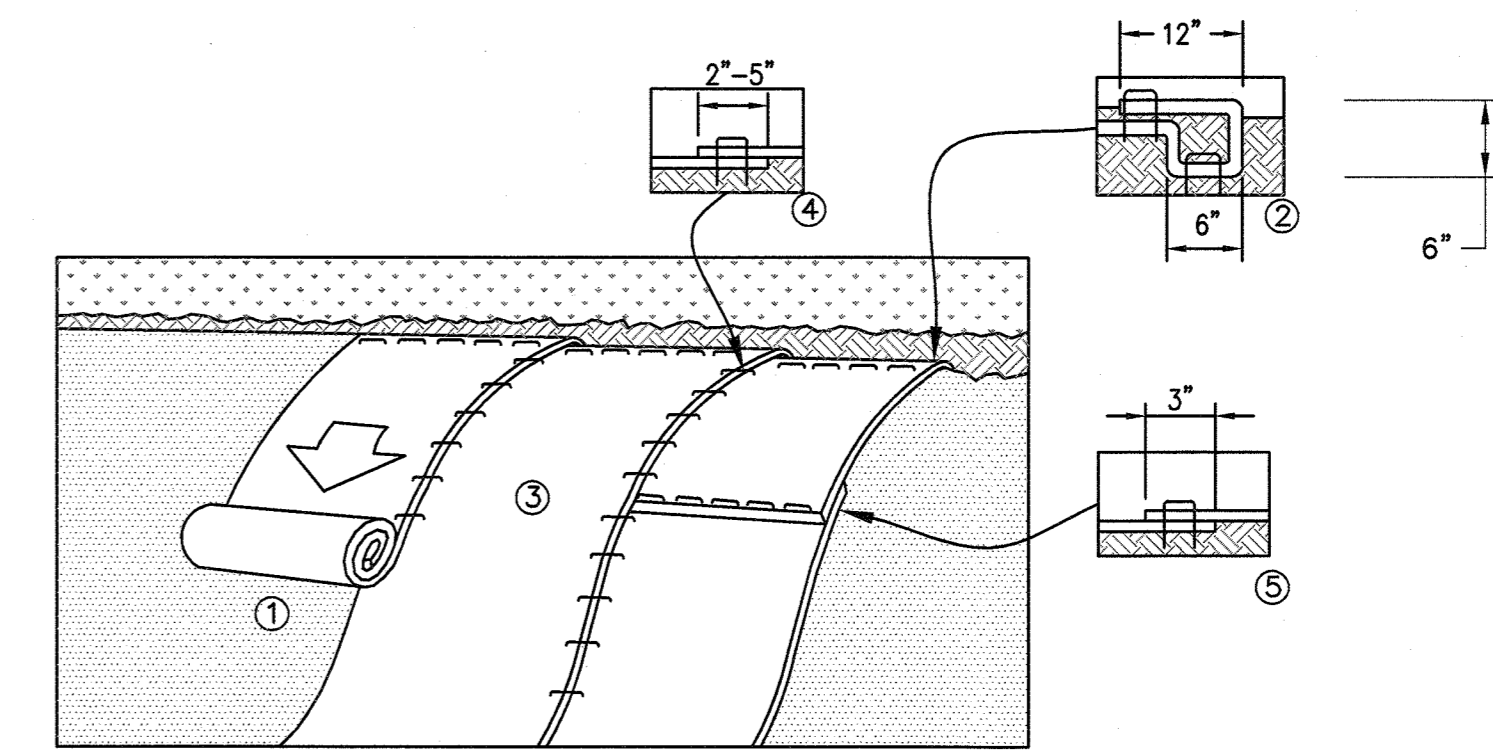
- PERVIOUS STONE DIKE SHALL BE CONSTRUCTED OF CT DOT MODIFIED RIPRAP WITH #3 STONE ON FACE.
- NON-OVERFLOW PORTIONS AND ABUTMENTS OF TEMPORARY SEDIMENT TRAPS MAY BE CONSTRUCTED OF COMPACTED EARTH/FILL.

MINIMUM TOP WIDTH REQUIRED FOR SEDIMENT TRAP EMBANKMENTS

NTS
SOURCE: 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL



SWALE EROSION CONTROL MATTING
NTS



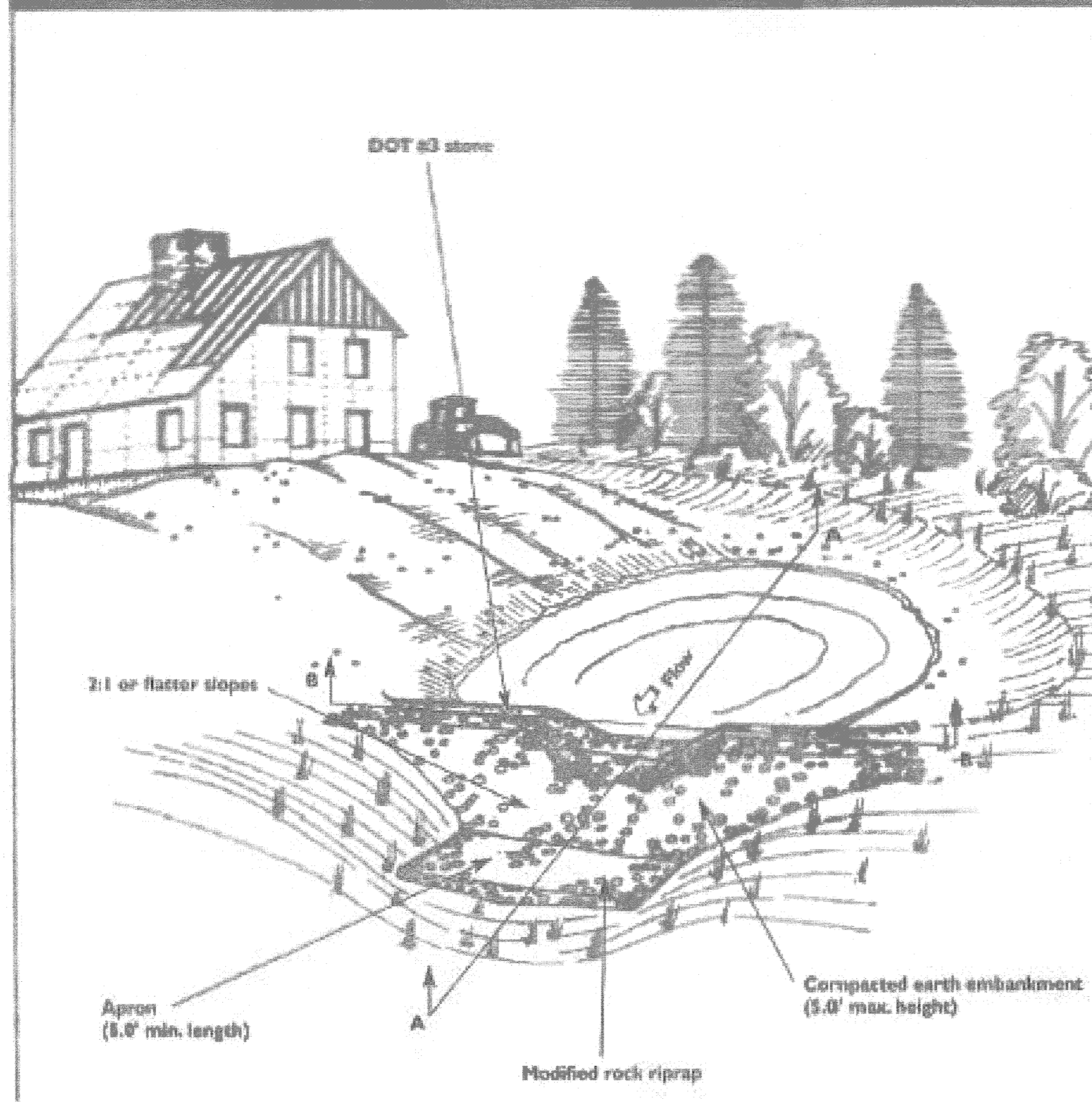
NOTES:

- EROSION CONTROL MATTING SHALL BE INSTALLED ON SLOPES GREATER THAN OR EQUAL TO 10% WITHIN THE LIMITS OF GRADING. PREPARE TOPSOIL BEFORE INSTALLING MATTING, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND/OR SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE MATTING IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF MATTING EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE MATTING WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED TOPSOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED TOPSOIL. SECURE BLANKET OVER COMPACTED GROWING MEDIUM WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE MATTING DOWN THE SLOPE. MATTING WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE TOPSOIL SURFACE. ALL MATTING MUST BE SECURELY FASTENED TO TOPSOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING MANUFACTURER STAPLE PATTERN MARKING, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED MARKS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL MATTING MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON MATTING TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING MATTING (MATTING BEING INSTALLED ON TOP) EVEN WITH THE SEAM ON THE PREVIOUSLY INSTALLED MATTING.
- CONSECUTIVE MATTING SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE MATTING WIDTH.

SLOPE EROSION CONTROL MATTING

NTS
SOURCE: NORTH AMERICAN GREEN ©

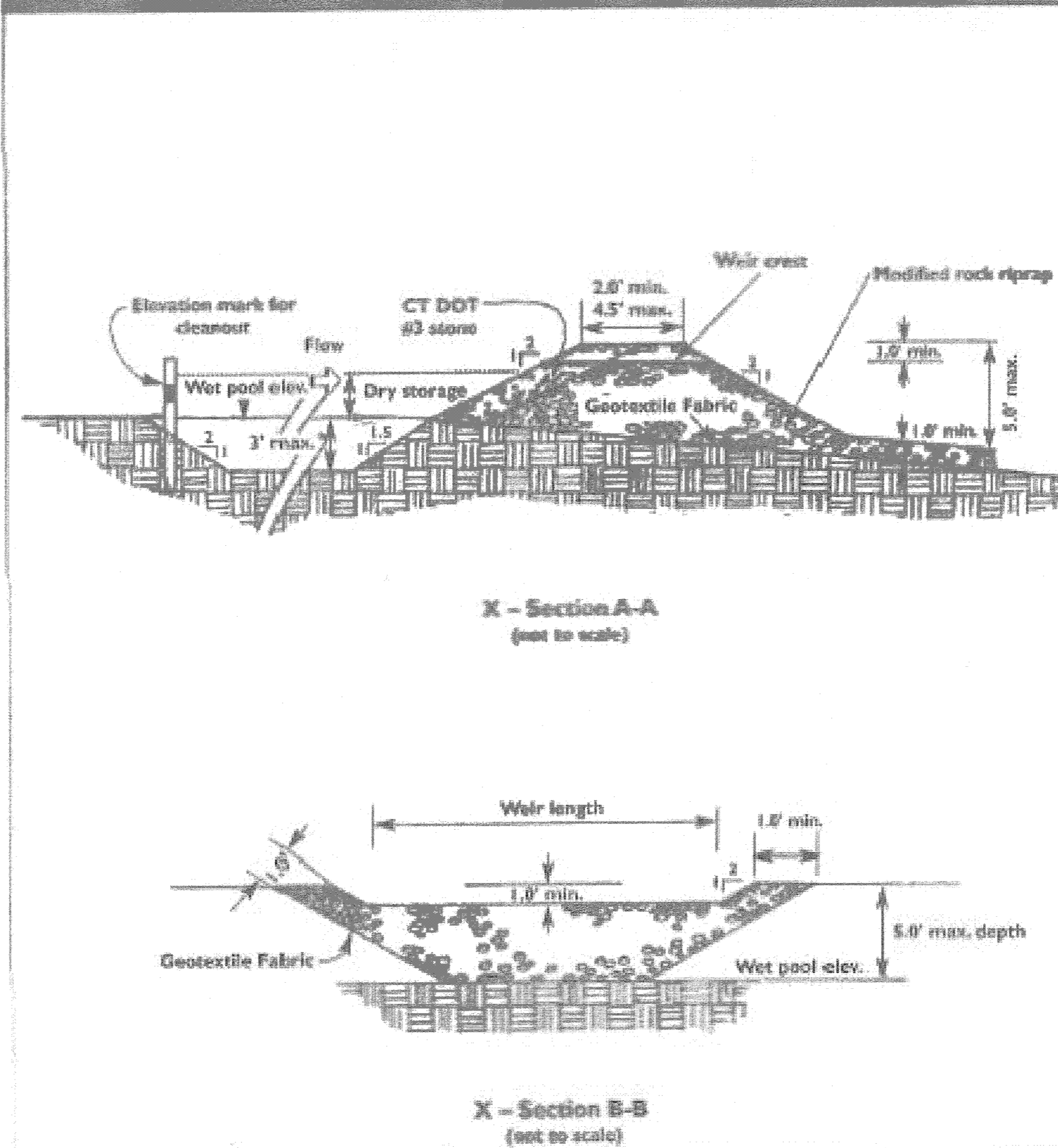
Figure TST-3 Example plan Views of Baffles in Temporary Sediment Traps



TEMPORARY SEDIMENT TRAP

NTS
SOURCE: 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL

Figure TST-4 Views of a Temporary Sediment Trap Outlet



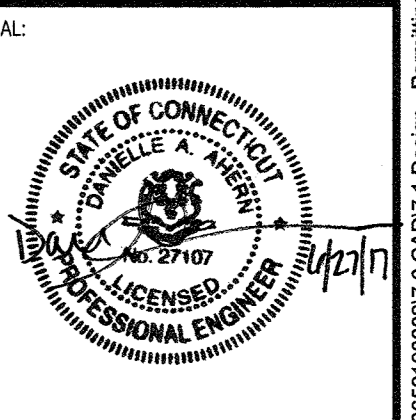
TEMPORARY SEDIMENT TRAP OUTLET SECTIONS

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SOURCE: 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL

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SHEET 2

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DESIGNED BY: DMP	DRAWN BY: DED
CHECKED BY: MKB	SCALE:
PROJECT NUMBER: 3852160082	
DRAWING NUMBER: ES-03	
SHEET NUMBER: 3 OF 3	