

LEGEND:

- EXISTING PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING BUILDING
- EXISTING 10-FOOT CONTOUR (RIGIS LIDAR)
- EXISTING 2-FOOT CONTOUR (RIGIS LIDAR)
- PROPERTY LINE (SEE NOTE 2)
- PROPERTY LINE SETBACK
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING WETLAND EDGE AND FLAG (SEE NOTE 3)
- EXISTING 50' WETLAND BUFFER
- EXISTING STREAM (SEE NOTE 3)
- EXISTING 100' STREAM BUFFER
- EXISTING TREE LINE
- PROPOSED SOLAR PV PANELS
- PROPOSED 8' HIGH CHAIN LINK FENCE (DESIGN BY OTHERS)
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED LIMIT OF DISTURBANCE FIELD STAKE AND COORDINATE LOCATION
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED OVERHEAD ELECTRIC LINE
- PROPOSED SILT FENCE (2) (C-501)
- PROPOSED CONSTRUCTION ENTRANCE (1) (C-501)
- PROPOSED 10-FOOT CONTOUR
- PROPOSED 2-FOOT CONTOUR

- GENERAL NOTES:**
- THIS PLAN WAS PREPARED FOR LOCAL PERMITTING AND IS NOT SUITABLE FOR CONSTRUCTION.
 - THE PROPERTY LINES FOR PLAT 195 LOT 004 WERE FIELD SURVEYED BY CANAVAN & ASSOCIATES, INC. LAND SURVEYING ON JUNE 28, 2017 (SEE SURVEY NOTES).
 - WETLANDS AND STREAM DELINEATION PERFORMED BY AMEC FOSTER WHEELER AND GPS LOCATED ON JUNE 30, 2017 (WETLAND "A" AREA) AND OCTOBER 18, 2017 (WETLAND "B" AREA). DELINEATION WAS PERFORMED BY STEPHEN HERZOG, SENIOR ECOLOGIST AND WETLAND SCIENTIST.
 - ALL OTHER INFORMATION SHOWN ON THIS PLAN IS FROM WEB BASED GIS AND/OR AERIAL IMAGES AND SHOULD BE CONSIDERED APPROXIMATE. AMEC FOSTER WHEELER HAS NOT INDEPENDENTLY VERIFIED THE INFORMATION SHOWN AND MAKES NO GUARANTEE TO THE COMPLETENESS OR ACCURACY OF ANY FEATURE SHOWN.
 - AMEC FOSTER WHEELER HAS NOT INDEPENDENTLY VERIFIED THE LOCATION, EXISTENCE, OR SERVICEABILITY OF ANY UTILITIES, AND MAKES NO GUARANTEE TO THE COMPLETENESS OR ACCURACY OF ANY UTILITIES. ADDITIONAL UTILITIES MAY EXIST IN THE FIELD, WHICH ARE NOT SHOWN ON THIS PLAN. SEE ADDITIONAL NOTES ON SHEET 2 OF 2.
 - SOLAR PV LAYOUT AND ELECTRICAL DESIGN, INCLUDING COMPLIANCE WITH APPLICABLE CODES, HAVE BEEN PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS ARE SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM INFORMATION.
 - TREES SHALL BE CUT AT GROUND LEVEL WITH THE TREE CLEARING LIMITS SHOWN. STUMPS SHALL BE REMOVED OR GROUND ONLY WITHIN THE FENCED AREA.
 - THE PROJECT IS LOCATED WITHIN THE ROUTE 102 DEVELOPMENT MANAGEMENT DISTRICT.
 - THE PARCEL IS LOCATED WITHIN THE GENERAL INDUSTRIAL ZONE (GI).
 - THE PROJECT IS LOCATED WITHIN A NON-COMMUNITY WETLAND PROTECTION AREA.
 - THE PARCEL ASSESSOR'S MAP/LOT NUMBER IS 195-004.
 - THE PROPOSED SOLAR PV PANEL AREA IS APPROXIMATELY 0.32 ACRES.
 - THERE ARE NO EXISTING OR PROPOSED EASEMENTS.
 - THE PROJECT IS LOCATED IN FLOOD ZONE X, AREA OF MINIMAL FLOOD HAZARD.

SURVEY NOTES:
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS, EFFECTIVE JANUARY 2016.

TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY
MEASUREMENT SPECIFICATIONS: III

(WHERE NOTED: DAS*) DATA ACCUMULATION SURVEY (NOT A BOUNDARY SURVEY)

THIS COMPILATION PLAN HAS BEEN PREPARED FROM SOURCES OF INFORMATION AND DATA WHOSE POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED. THE PROPERTY LINES DEPICTED HEREON DO NOT REPRESENT A BOUNDARY OPINION, AND OTHER INFORMATION DEPICTED IS SUBJECT TO CHANGES AS AN AUTHORITY FIELD SURVEY MAY DISCLOSE.

BY: MARTIN G. CANAVAN #1695
 COA # LS-A536

CANAVAN & Associates, Inc.
 Land Surveying
 CONSTRUCTION - LAND - COMMERCIAL - RESIDENTIAL
 450 George Washington Highway
 Smithfield, R.I. 02917
 P=(401)232-1990 F=(401)232-1994



LOCUS PLAN
 SCALE: 1" = 400'

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater/wetlands onsite.

amec foster wheeler
 AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC.
 271 MILL ROAD
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REVISED PER RISEM COMMENTS	REVISED PER TOWN COMMENTS	ISSUED FOR LOCAL PERMITTING FOR CONSTRUCTION	ISSUE REVISION DESCRIPTION	DATE
2	1	0		

PROPOSED SITE PLAN

PROJECT: 250 KW DC SOLAR PV DEVELOPMENT
 806 BRONCOS HIGHWAY
 PLAT 195 LOT 004
 BURRILLVILLE, RI 02869

CLIENT: **ECONOX RENEWABLES, INC**
 38 WASHINGTON SQUARE
 NEWPORT, RHODE ISLAND

DESIGNED BY: APV
 CHECKED BY: DMP
 PROJECT NUMBER: 3852170095.1100
 DRAWING NUMBER: **C-101**
 SHEET NUMBER: **1 OF 3**

DESIGNED BY: APV
 DRAWN BY: APV
 CHECKED BY: DMP
 SCALE: AS SHOWN

ANDREW P. VARDAKIS
 No. 12219
 REGISTERED PROFESSIONAL ENGINEER
 DEC 7 2017

Signature: *Matthew D. Wenczek*

GENERAL NOTES:

- PLANS HAVE BEEN COMPILED FROM AVAILABLE ONLINE INFORMATION INCLUDING RIGIS AND LIDAR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, INCLUDING DISCREPANCIES TO ANY CODE/REGULATORY REQUIREMENTS. IF ANY DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE DRAWINGS. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL, STATE, AND FEDERAL JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM OWNER AND/OR ENGINEER TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED BY THE OWNER, ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSAL OF ALL DIRT, DEBRIS, RUBBISH, AND EQUIPMENT AS SPECIFIED. CONTRACTOR SHALL CLEAN AND SUPPLY A ROLL-OFF CONTAINER OR DUMPSTER TO BE EMPTIED AS NEEDED. CLEANING SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM TRASH, DEBRIS, DUST, OR OTHER HAZARDOUS OF ANY NATURE AT PROJECT COMPLETION.
- DISPOSAL OF ALL MATERIALS SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING FEATURES PRIOR TO THE START OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER. CONTRACTOR SHALL VERIFY ACTUAL FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITIES AND SERVICES THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL PROTECT ALL UTILITY LINES THROUGHOUT ALL PHASES OF WORK.
- UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES WITHIN THE PROJECT SITE.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND PIPING AND STRUCTURES PRIOR TO ANY EXCAVATION ACTIVITIES BY CONTACTING THE TOWN OF BURRILLVILLE AND RHODE ISLAND DIG-SAFE (1-800-DIG-SAFE) SEVENTY TWO (72) HOURS BEFORE STARTING CONSTRUCTION ACTIVITIES FOR FIELD MARKING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES THAT MAY NOT BE MARKED BY THE UTILITY COMPANIES. SUBSURFACE CONDITIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AT CONTRACTOR'S EXPENSE.
- UNLESS OTHERWISE NOTED, ALL EXISTING FEATURES DESIGNATED ON THE PLANS ARE TO REMAIN, INCLUDING, BUT NOT LIMITED TO, TREES, SIGNS, FENCING/GATES, AND SIGN POSTS. FEATURES SHALL BE VERIFIED, LOCATED, AND PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- ALL CONSTRUCTION ACTIVITIES MUST BE COMPLETED WITH RESPECT TO THE ONGOING ACTIVITIES OF THE SURROUNDING AREAS. ACCESS ROADWAYS SHALL REMAIN OPEN AND FREE OF DEBRIS AS MUCH AS PRACTICABLE.
- ALL ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC), RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, AND THE RHODE ISLAND POLLUTION DISCHARGE ELIMINATION SYSTEM (RIDPDES) CONSTRUCTION GENERAL PERMIT, IF APPLICABLE.
- CONTRACTOR SHALL LIMIT ALL CONSTRUCTION ACTIVITIES TO THE PROPOSED FENCE LINE, LIMITS OF TREE CLEARING (IF REQUIRED), AND THE ELECTRICAL INTERCONNECTION ROUTE.
- CONTRACTOR TO DISABLE AND SECURE ALL EQUIPMENT PRIOR TO DAILY SHUTDOWN. CLIENT IS NOT RESPONSIBLE FOR VANDALISM, OR LOSS DUE TO TRESPASSING.
- JOB SITE OR NEIGHBORHOOD COMPLAINTS OF EXCESSIVE NOISE, VIBRATION, OR ODORS MUST BE COMMUNICATED WITH ENGINEER UPON RECEIPT OF FIRST COMPLAINT EACH PROJECT DAY. CONTRACTOR MUST HAVE CONTINGENCY PLANS FOR EXCESSIVE NOISE AND ODORS AS APPLICABLE.

GRADING, DRAINAGE, AND EROSION CONTROL NOTES:

- NO VEGETATION SHALL BE DISTURBED EXCEPT AS NECESSARY FOR CONSTRUCTION AND ONLY AS APPROVED BY THE ENGINEER. NO HEAVY EQUIPMENT SHALL BE OPERATED OR STORED AND NO MATERIALS SHALL BE HANDLED OR STORED WITHIN THE DRIP LINES OF UNDISTURBED TREES OR WITHIN 100 FEET FROM THE LIMIT OF STREAMS.
- PERMANENT CONTROLS OR SURFACE STABILIZATION SHALL COMMENCE AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS AFTER COMPLETION OF FILLING AND GRADING ACTIVITIES. AREAS WHICH WILL NOT BE REWORKED FOR 14 CALENDAR DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED AS SOON AS IT IS KNOWN WITH REASONABLE CERTAINTY THAT WORK WILL BE STOPPED FOR AT LEAST 14 CALENDAR DAYS.
- CONSTRUCT TEMPORARY EROSION CONTROLS AS SHOWN ON THE DRAWINGS PRIOR TO STARTING WORK. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION. WHEN LAND IS EXPOSED DURING CONSTRUCTION, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS IF APPLICABLE.
- SILT FENCE SHALL BE INSTALLED AND MAINTAINED WHERE SHOWN. ADDITIONAL PERIMETER CONTROLS SHALL BE ADDED AS REQUIRED BY THE ENGINEER PRIOR TO ANY ON SITE DISTURBANCE OF EXISTING SURFACE MATERIAL. SILT FENCE SHALL BE MAINTAINED DURING AND AFTER CONSTRUCTION TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING CONSTRUCTION. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN ITS DEPTH REACHES 50% OF THE HEIGHT OF THE FENCE. REPLACE DAMAGED SILT BARRIERS AS REQUIRED BY THE ENGINEER AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE POSSIBLE, NATURAL DRAINAGE WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE CLEAN EXCESS SURFACE WATER.
- ALL LOCATIONS OF TEMPORARY EROSION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER, AND SHALL BE REPLACED IF NECESSARY.
- TEMPORARY EROSION AND SEDIMENT CONTROL BMPs (INCLUDING SILT FENCE AND CONSTRUCTION ENTRANCE) SHALL BE REMOVED WITHIN 30 CALENDAR DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED AS DETERMINED BY THE ENGINEER. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL RESULTING FROM REMOVAL OF BMPs OR VEGETATION SHALL BE PERMANENTLY STABILIZED (95% VEGETATION DENSITY).
- EXISTING CONTOUR LINES ARE SHOWN BASED ON GIS AND LIDAR DATA. SHOULD THE CONTRACTOR HAVE ANY QUESTIONS OF THEIR INTENT OR ANY PROBLEMS WITH CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED PRIOR TO BEGINNING WORK.
- STORMWATER DRAINAGE SHALL BE CONTROLLED ON-SITE, SUCH THAT THERE IS NO CHANNELIZED FLOW OF RUNOFF.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND WHEREVER CONSTRUCTION TRAFFIC ENTERS AND LEAVES THE SITE. EXISTING CONSTRUCTION ENTRANCES SHALL BE INSPECTED AND MAINTAINED.
- THE EROSION CONTROL DEVICES SHOWN ON THE DRAWING REPRESENT THE MINIMUM REQUIRED FOR EROSION CONTROL AND SHALL BE INSTALLED AS REQUIRED. THE CONTRACTOR SHALL ADD TO THESE DEVICES ANY AND ALL MEASURES AS REQUIRED BY THE ENGINEER TO EFFECTIVELY PREVENT EROSION AND MIGRATION OF SEDIMENT FROM THE WORK AREA.
- EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER. IF EROSION IS OBSERVED ALONG THE LOWER EDGE OF THE MATTING PANEL ARRAY (DIP EDGE), EROSION CONTROL MATTING SHALL BE INSTALLED ALONG THE LENGTH OF THE DRIP EDGE.
- EXCESS SOILS REMOVED FOR UNDERGROUND ELECTRICAL CONDUIT SHALL BE REUSED FOR TRENCH BACKFILL AND SHALL BE BACKFILLED THE SAME DAY OF EXCAVATION. SOILS EXCAVATED FROM TRENCH SHALL BE PLACED ON THE UPGRADIENT SIDE OF THE TRENCH TO MITIGATE THE POTENTIAL FOR EROSION BEYOND THE TRENCH. BACKFILLED TRENCH SURFACE SHALL BE MULCHED PRIOR TO VEGETATIVE GROWTH IF NECESSARY TO PREVENT EROSION.

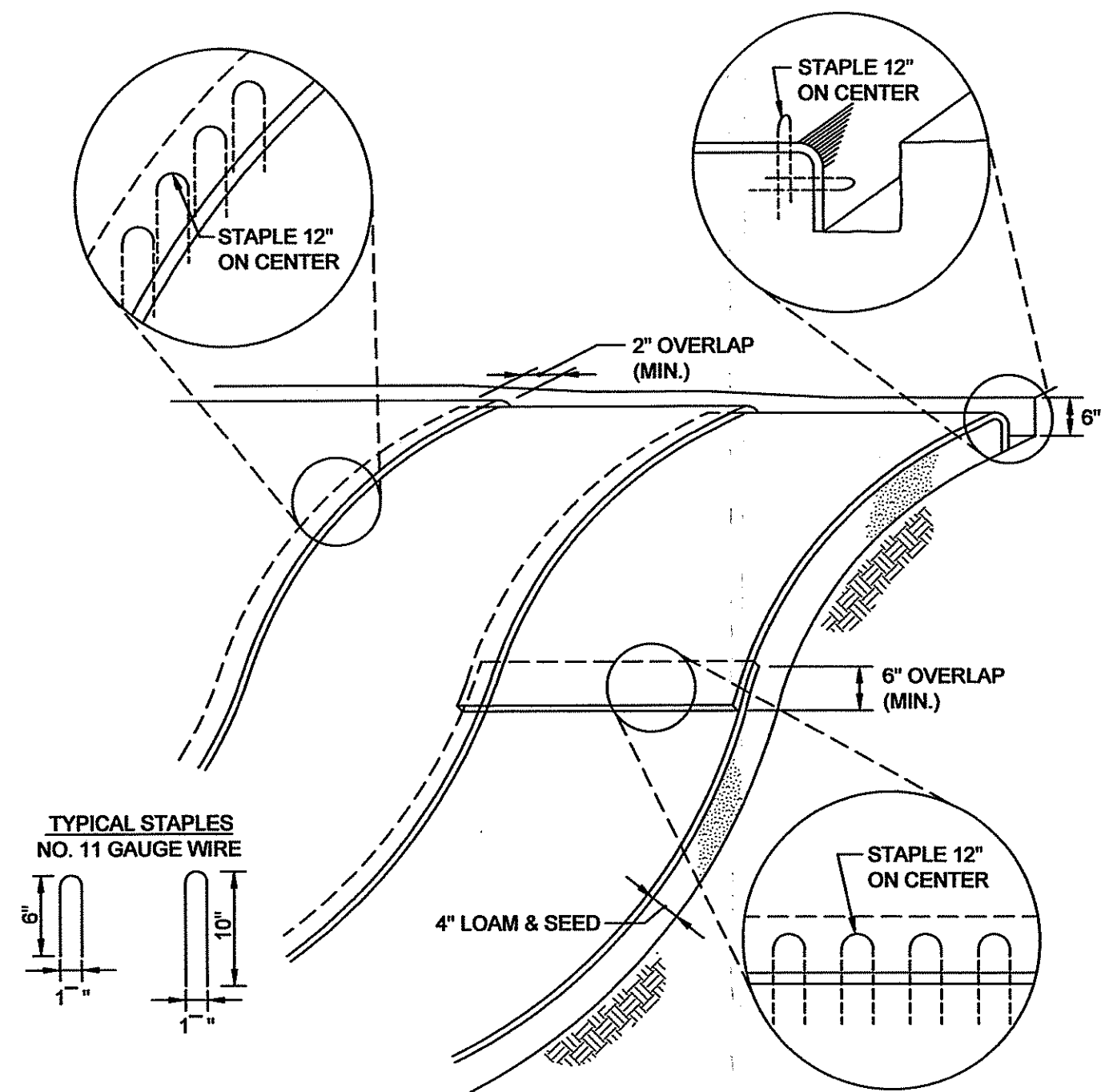
DUST CONTROL:

- CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED SO THAT A MINIMUM OF DISTURBED SOIL IS EXPOSED AT ONE TIME.
- DUST SHALL BE CONTROLLED ON CONSTRUCTION ROUTES AND OTHER DISTURBED AREAS SUBJECT TO SURFACE DUST MOVEMENT AND DUST BLOWING.
- MAINTAIN DUST CONTROL MEASURES PROPERLY THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- DUST CONTROL METHODS SHALL INCLUDE VEGETATIVE COVER, MULCH (INCLUDING GRAVEL MULCH), WATER SPRINKLING, STONE, AND BARRIERS.
- VEGETATIVE COVER - FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
- MULCH (INCLUDING GRAVEL MULCH) - WHEN PROPERLY APPLIED, MULCH OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST.
- SPRINKLING - THE SITE MAY BE SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. SPRINKLING IS ESPECIALLY EFFECTIVE FOR DUST CONTROL ON HAUL ROADS AND OTHER TRAFFIC ROUTES.
- STONE - USED TO STABILIZE CONSTRUCTION ROADS; CAN ALSO BE EFFECTIVE FOR DUST CONTROL.
- BARRIERS - A BOARD FENCE, WIND FENCE, SEDIMENT FENCE, OR SIMILAR BARRIER CAN CONTROL AIR CURRENTS AND BLOWING SOIL. ALL OF THESE FENCES ARE NORMALLY CONSTRUCTED OF WOOD AND THEY PREVENT EROSION BY OBSTRUCTING THE WIND NEAR THE GROUND AND PREVENTING THE SOIL FROM BLOWING OFFSITE.

SEEDING AND REVEGETATION PLAN:

UPON COMPLETION OF SITE CONSTRUCTION, ALL AREAS PREVIOUSLY DISTURBED SHALL BE TREATED AS STATED BELOW PER THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (RI SESCO). THESE AREAS WILL BE CLOSELY MONITORED BY THE CONTRACTOR UNTIL SUCH TIME AS A SATISFACTORY GROWTH OF VEGETATION IS ESTABLISHED. SATISFACTORY GROWTH SHALL MEAN APPROXIMATELY 95% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

- DISTURBED AREAS SHALL BE PREPARED FOR SEEDING BY RAKING 3-4" OF THE GROUND SURFACE TO LOOSEN THE EXISTING SOIL.
- HAY OR STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE FOR MAXIMUM MOISTURE RETENTION RESULTS. CELLULOSE FIBER MULCH APPLICATION RATE SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.
- DISTURBED AREAS SHALL BE SEEDED USING THE FOLLOWING MIX OR OTHER APPROVED MIX AS DIRECTED BY THE OWNER AND ENGINEER DEPENDING ON THE TIME OF YEAR AND AMOUNT OF SEEDING REQUIRED:
AT THE RATE OF 3.5 LBS. PER 1,000 SQ. FT. OF THE FOLLOWING MIXTURE: KENTUCKY BLUE GRASS (0.5 LB/1,000 SF), CREEPING RED FESCUE (2.5 LB/1,000 SF), PERENNIAL RYE GRASS (0.5 LB/1,000 SF). SEEDING SHOULD BE PLANTED TO A DEPTH OF 0.25" TO 0.5" INCHES. SEEDING METHODS MAY BE DRILL SEEDINGS, BROADCASTS AND ROLLED, CULTIPACKED, OR TRACKED WITH A SMALL TRACK PIECE OF CONSTRUCTION EQUIPMENT.
- SEEDING FOR NON-NATIVE SPECIES SHALL BE COMPLETED BETWEEN THE DATES OF APRIL 1 THROUGH JUNE 1 AND AUGUST 15 THROUGH SEPTEMBER 30. SEEDING FOR NATIVE SPECIES SHALL BE COMPLETED IN AUGUST AND SEPTEMBER. WATERING MAY BE REQUIRED DURING DRY PERIODS.
- IF FINAL SEEDING OF THE DISTURBED AREA IS NOT COMPLETED BY OCTOBER 1ST OF THE YEAR OF CONSTRUCTION THEN TEMPORARY VEGETATIVE COVER SHALL BE INSTALLED PER THE RI SESCO.
- STEEP SLOPES (3:1 AND STEEPER) SHALL BE STABILIZED BY INSTALLING EROSION CONTROL MATTING (E.G., NORTH AMERICAN GREEN OR EXCELSIOR).
- INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEED IMMEDIATELY. CONDUCT A FOLLOW-UP SURVEY AFTER ONE YEAR AND RESEED WHERE NECESSARY.
- IF THERE ARE AREAS WITH LESS THAN 40% COVER, REEVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER. IF THE SEASON PREVENTS RESEEDING, MULCH OR JUTE NETTING IS AN EFFECTIVE TEMPORARY COVER.
- LIME AND FERTILIZE THEREAFTER AT PERIODIC INTERVALS, AS NEEDED.
- ALL SEDIMENT CONTROL STRUCTURES WILL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. ESTABLISHED MEANS APPROXIMATELY 95% AS DETERMINED BY CONSTRUCTION INSPECTOR, OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

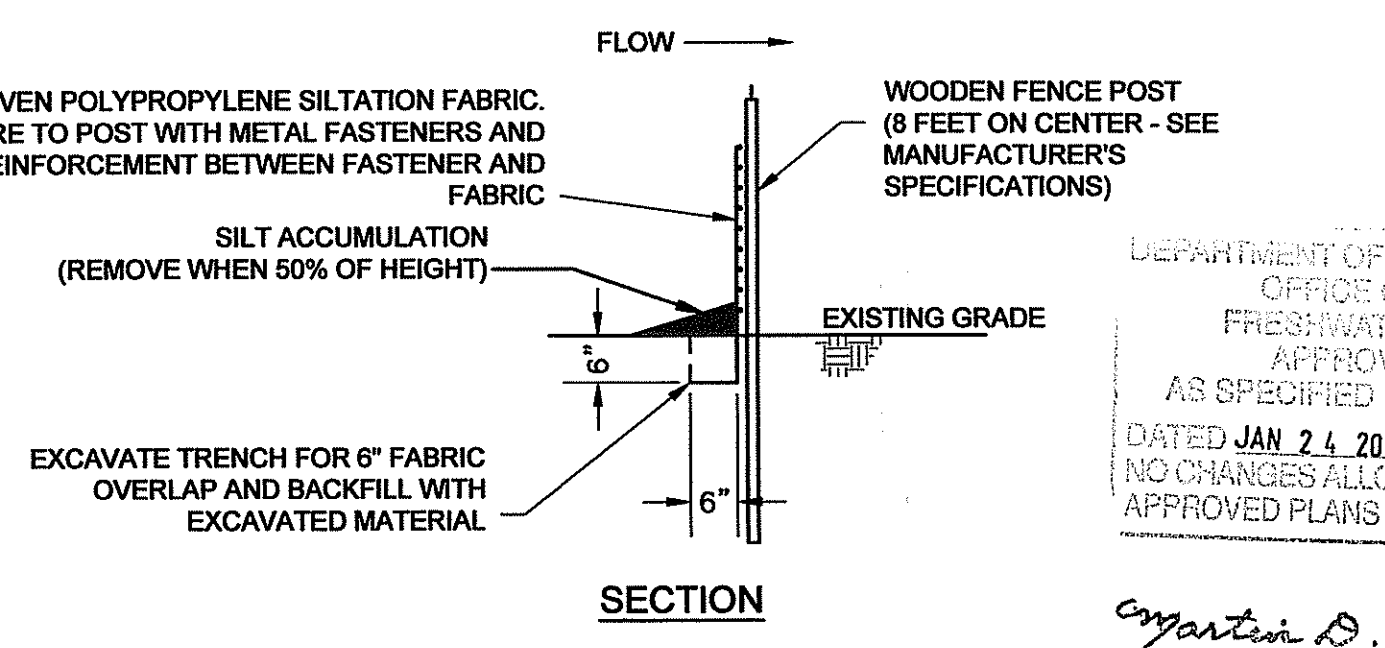
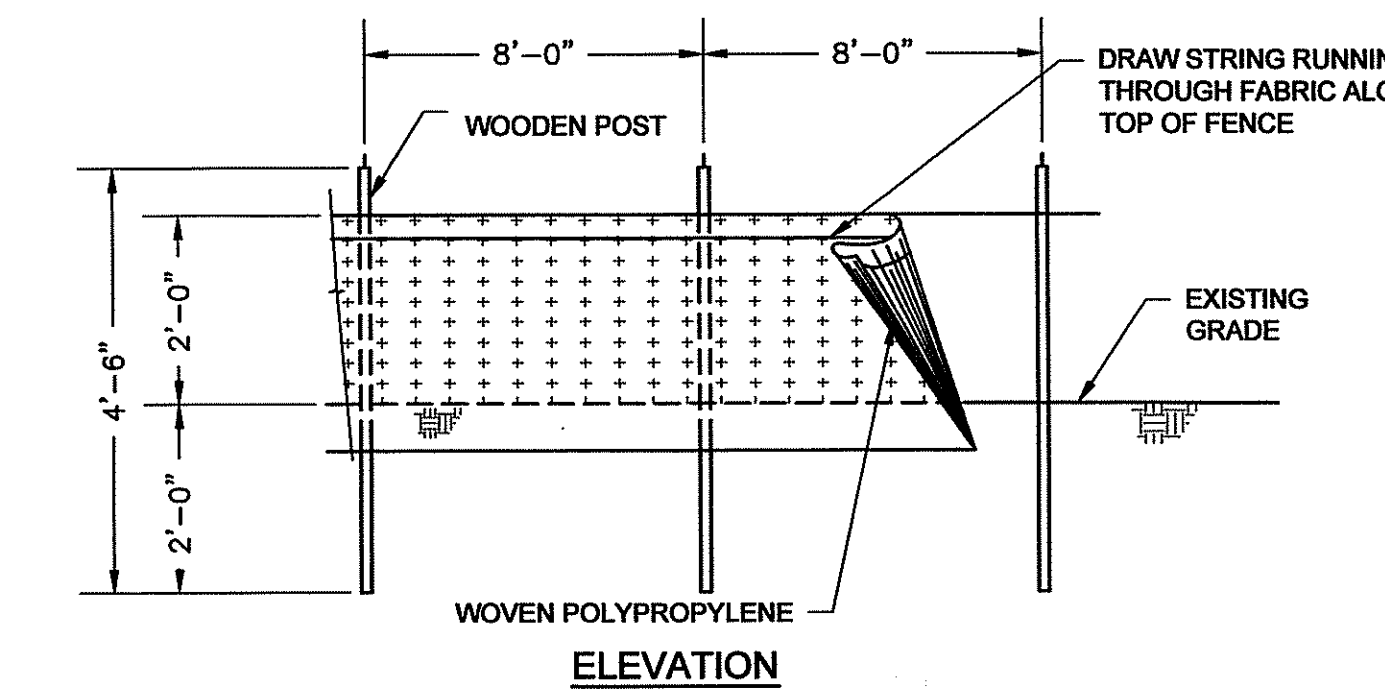


NOTES:

- BEGIN AT THE TOP OF MATTING INSTALLATION AREA BY ANCHORING MATTING IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
- ROLL THE MATTING DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
- THE EDGES OF MATTINGS MUST BE STAPLED WITH A MINIMUM OF 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
- WHEN MATTINGS MUST BE SPLICED DOWN THE SWALE, PLACE MATTING END OVER END WITH 6 INCH (MIN) OVERLAP AND ANCHOR DOWN SLOPE MATTING IN A 6 INCH DEEP TRENCH.
- EROSION CONTROL MATTING SHALL BE INSTALLED ON STEEP SLOPES (3:1 AND STEEPER) AND MANUFACTURED BY NORTH AMERICAN GREEN, EXCELSIOR, OR APPROVED EQUAL.

EROSION CONTROL MATTING SLOPE INSTALLATION

NOT TO SCALE



NOTE: SEE MANUFACTURER'S SPECIFICATION FOR REINFORCEMENT REQUIREMENTS.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

NOTES:

- STONE SIZE - TO BE 1"-3" STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FT.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FT. MIN, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS OR BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SIDE SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL 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 AND/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.
- WASHING - IF WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

1

SILT FENCE

NOT TO SCALE

2

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NO.	DATE	ISSUED FOR	ISSUED BY	APPROVED
1	08/23/2017	ISSUED FOR LOCAL PERMITTING/NOT FOR CONSTRUCTION	DMP	APV
2	12/04/2017	REVISED PER RIDEM COMMENTS	DMP	APV
3	08/23/2017	REVISED PER TOWN COMMENTS	DMP	APV
4	08/23/2017	ISSUED FOR LOCAL PERMITTING/NOT FOR CONSTRUCTION	DMP	APV

NOTES & DETAIL PLAN

PROJECT: 250 KW DC SOLAR PV DEVELOPMENT
 808 BRONCOS HIGHWAY
 PLAT 195 LOT 004
 BURRILLVILLE, RI 02839

CLIENT: ECONOX RENEWABLES, INC
 38 WASHINGTON SQUARE
 NEWPORT, RHODE ISLAND

DATE: DEC 7 2017

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WILDLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JAN 24 2018 FILE # 17-0195
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

ANDREW P. VARDAKIS
 No. 12219
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

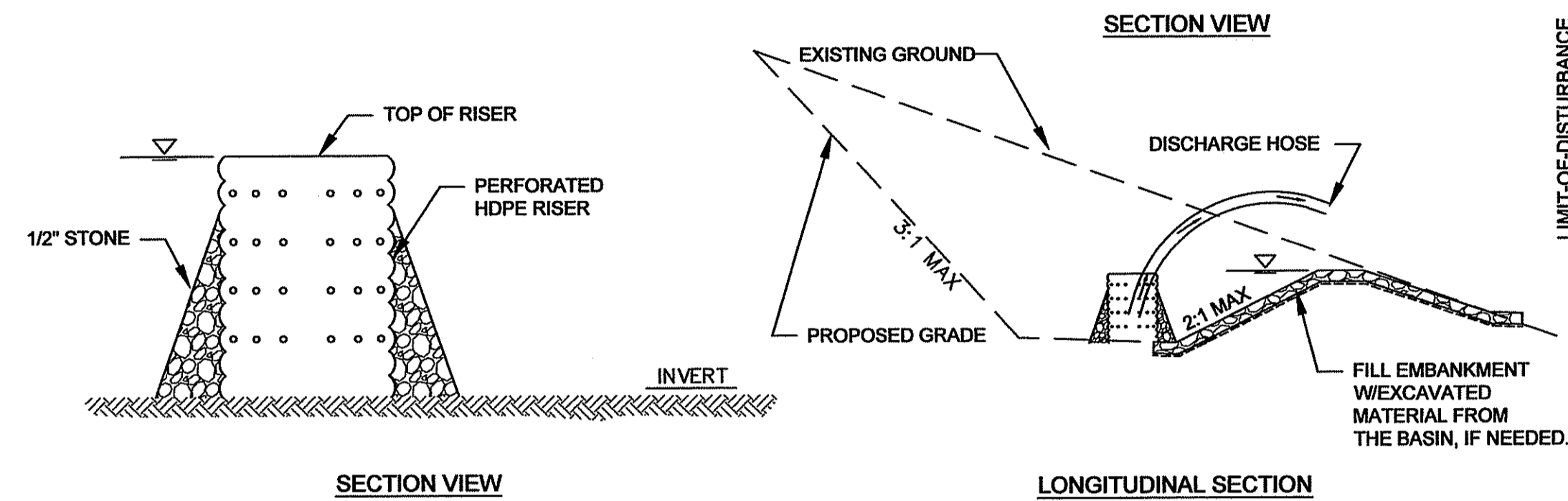
DESIGNED BY: APV
 CHECKED BY: DMP
 SCALE: AS SHOWN

PROJECT NUMBER: 3652170095.1100
 DRAWING NUMBER: C-501
 SHEET NUMBER: 2 OF 3

ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

Temporary Sediment Trap Calculations		
	TRAP #1	TRAP #2
Drainage Area, sq.ft. *	84,700	58,300
Drainage Area, acres *	1.9	1.3
Required Storage Volume, cu.yd. (drainage area, acres x 134 cu.yd./acre)	261	179
Proposed Temporary Sediment Trap Bottom Area, sq.ft.	2,473	1,730
Proposed Temporary Sediment Trap Top Area, sq.ft.	4,592	3,167
Proposed Temporary Sediment Trap Depth, ft	2	2
Proposed Temporary Sediment Trap Storage Volume, cu.yd.	262	181

*NOTE: DRAINAGE AREA IS EQUAL TO TOTAL DISTURBED AREA



SECTION VIEW

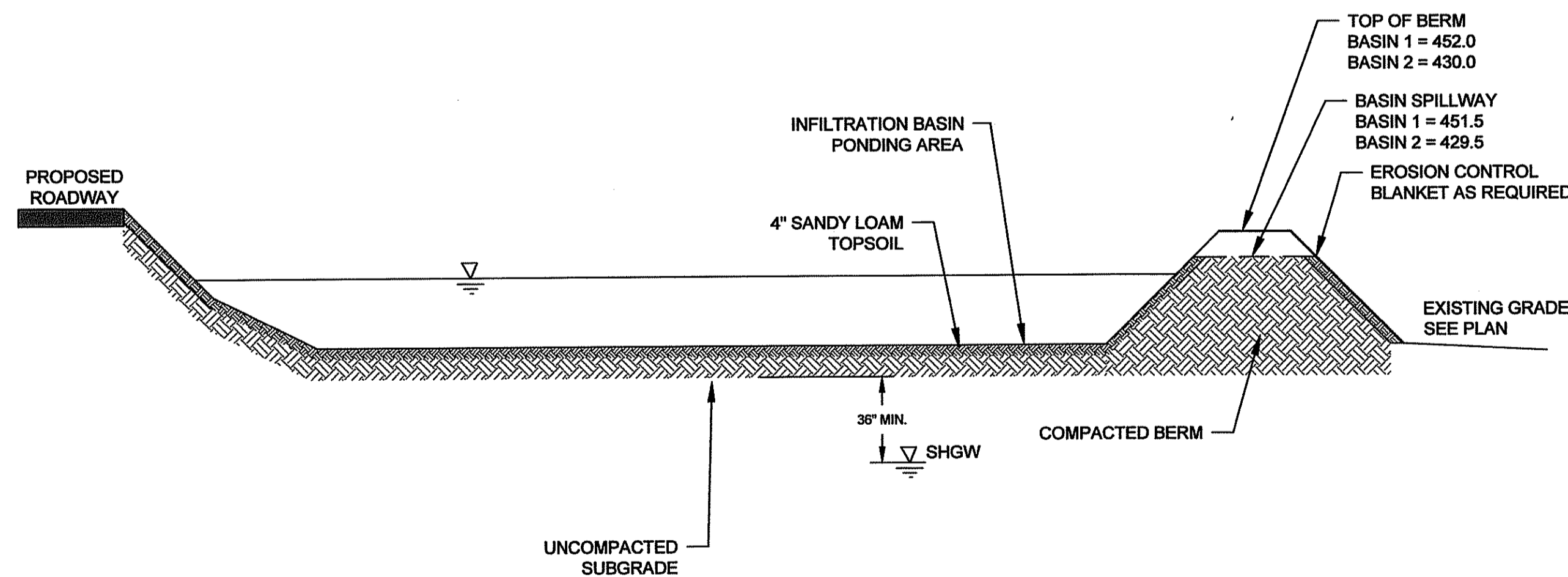
LONGITUDINAL SECTION

NOTES:

- TRAP CAPACITY: TEMPORARY SEDIMENT TRAP 134 CY/CONTRIBUTING ACRE AND 50% OF THIS VOLUME SHALL BE WET STORAGE.
- TOTAL MIN. STORAGE VOLUME = 1" X CONTRIBUTING AREA.
- SEDIMENT SHALL BE REMOVED WHEN THE TRAP IS 1/2 FULL AT A MINIMUM.
- THE TRAPS SHALL REMAIN IN PLACE UNTIL THE SITE HAS BEEN STABILIZED WITH BUILDINGS, PAVEMENT, OR ESTABLISHED VEGETATION, AS APPLICABLE.
- PROPOSED TRAP LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BY CONTRACTOR PENDING ACTUAL SITE CONDITIONS.

TEMPORARY SEDIMENT TRAP
NOT TO SCALE

4

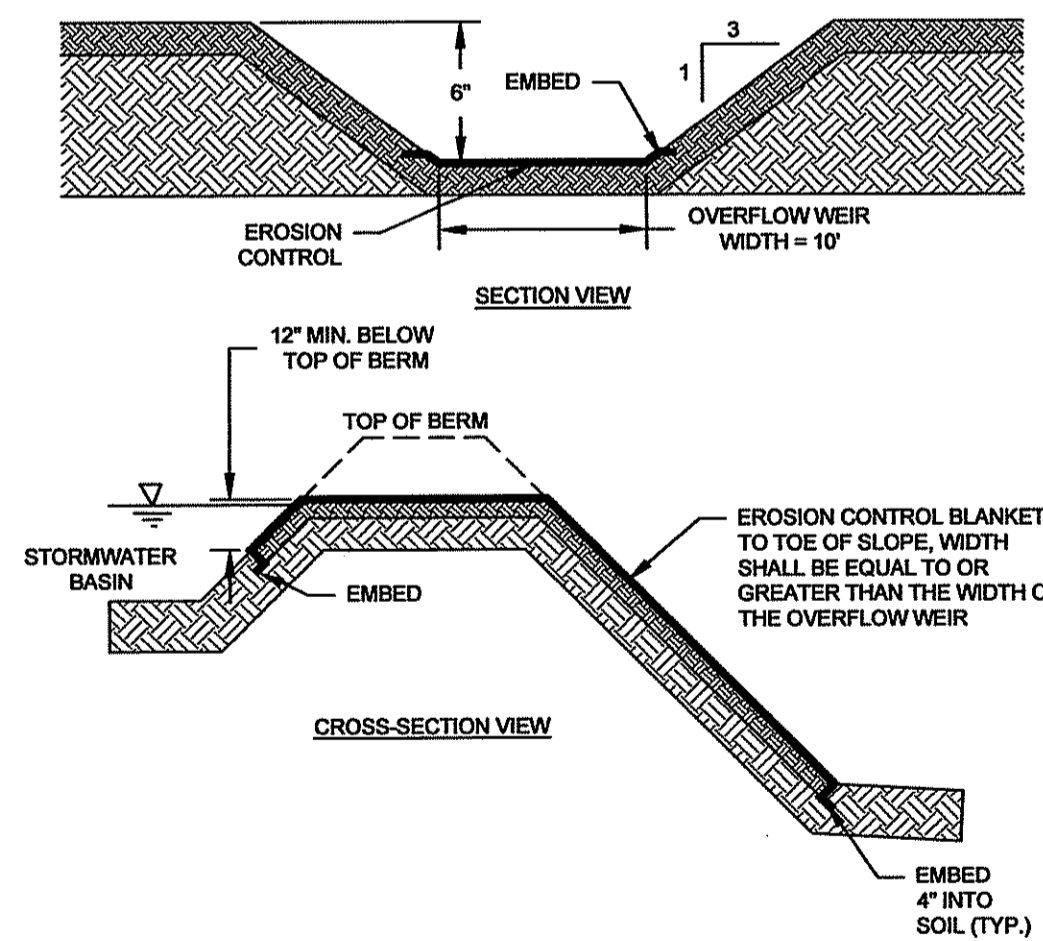


NOTES:

- BASED ON NATURAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY MAPPING, THE DEPTH TO WATER TABLE THROUGHOUT THE SITE IS GREATER THAN 6.56 FEET BELOW GRADE. CONTRACTOR SHALL CONFIRM SOIL TYPES AND SEASONAL HIGH GROUNDWATER LEVEL DURING CONSTRUCTION.

INFILTRATION BASIN - CROSS SECTION

5



NOTES:

- EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN PRODUCTS P300 OR APPROVED EQUIVALENT.
- EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

INFILTRATION BASIN SPILLWAY
NOT TO SCALE

6

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 24, 2018 FILE # 17-0195
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Andrew P. Vardakis

ISSUED BY	DATE	REVISION	DESCRIPTION
APV	12/4/2017	0	ISSUED PER RIDEEM COMMENTS
DMP			ISSUED PER RIDEEM COMMENTS

PROJECT: 250 KW DC SOLAR PV DEVELOPMENT
806 BRONCOS HIGHWAY
PLAT 195 LOT 004
BURRILLVILLE, RI 02809
TITLE: STORMWATER DETAILS

CLIENT: ECONOX RENEWABLES, INC
38 WASHINGTON SQUARE
NEWPORT, RHODE ISLAND

SEAL: ANDREW P. VARDAKIS
No. 12219
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: APV
DRAWN BY: APV
CHECKED BY: DMP
SCALE: AS SHOWN
PROJECT NUMBER: 3652170095.1100
DRAWING NUMBER: C-502
SHEET NUMBER: 3 OF 3

ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION