

# RIDEM Preliminary Determination

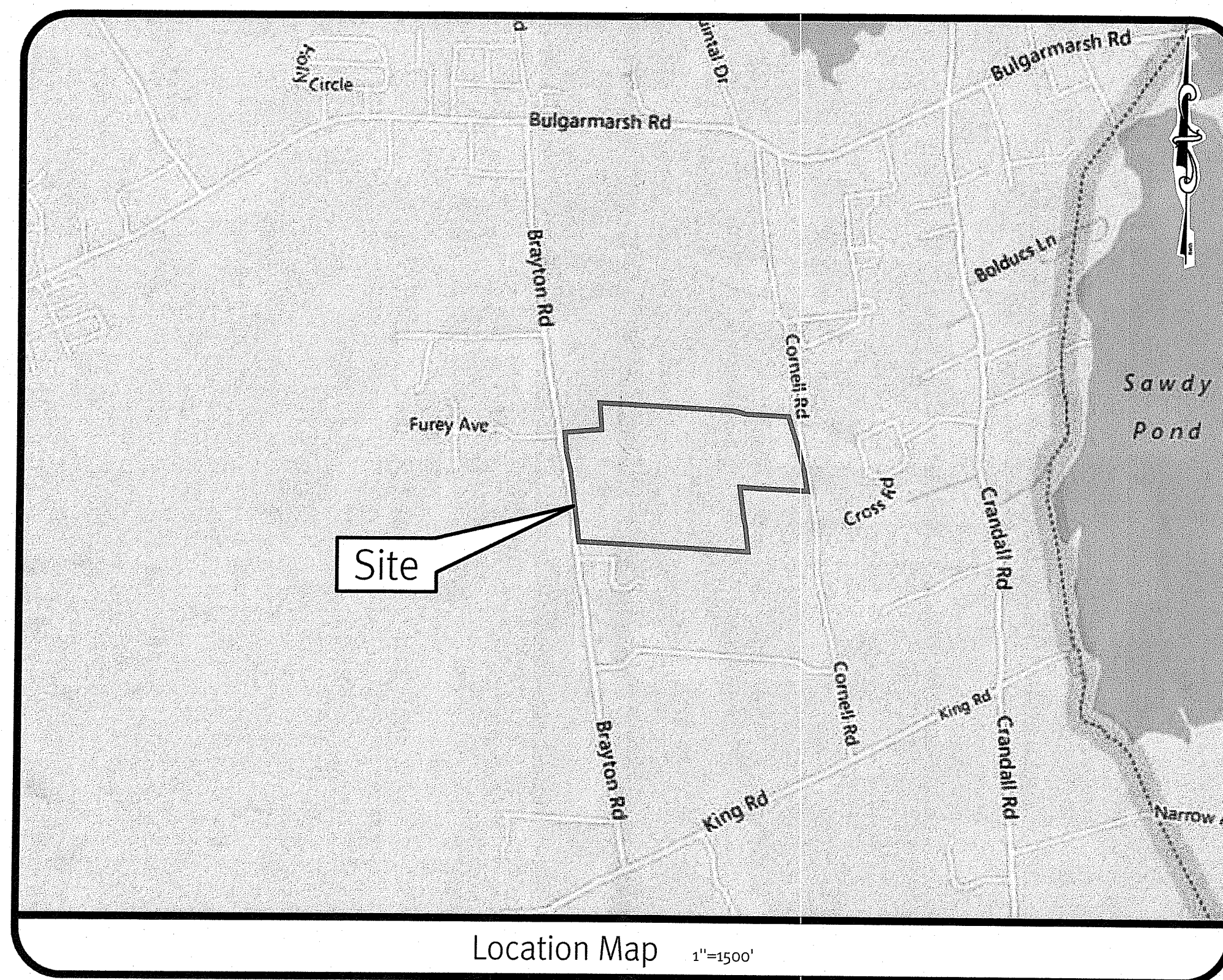
# Brayton Road Solar

Brayton Road

Tiverton, Rhode Island 02878

Assessor's Plat 503 Lot 103

Assessor's Plat 505 Lots 101 & 102



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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED APR 28 2021 FILE 20-0298  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

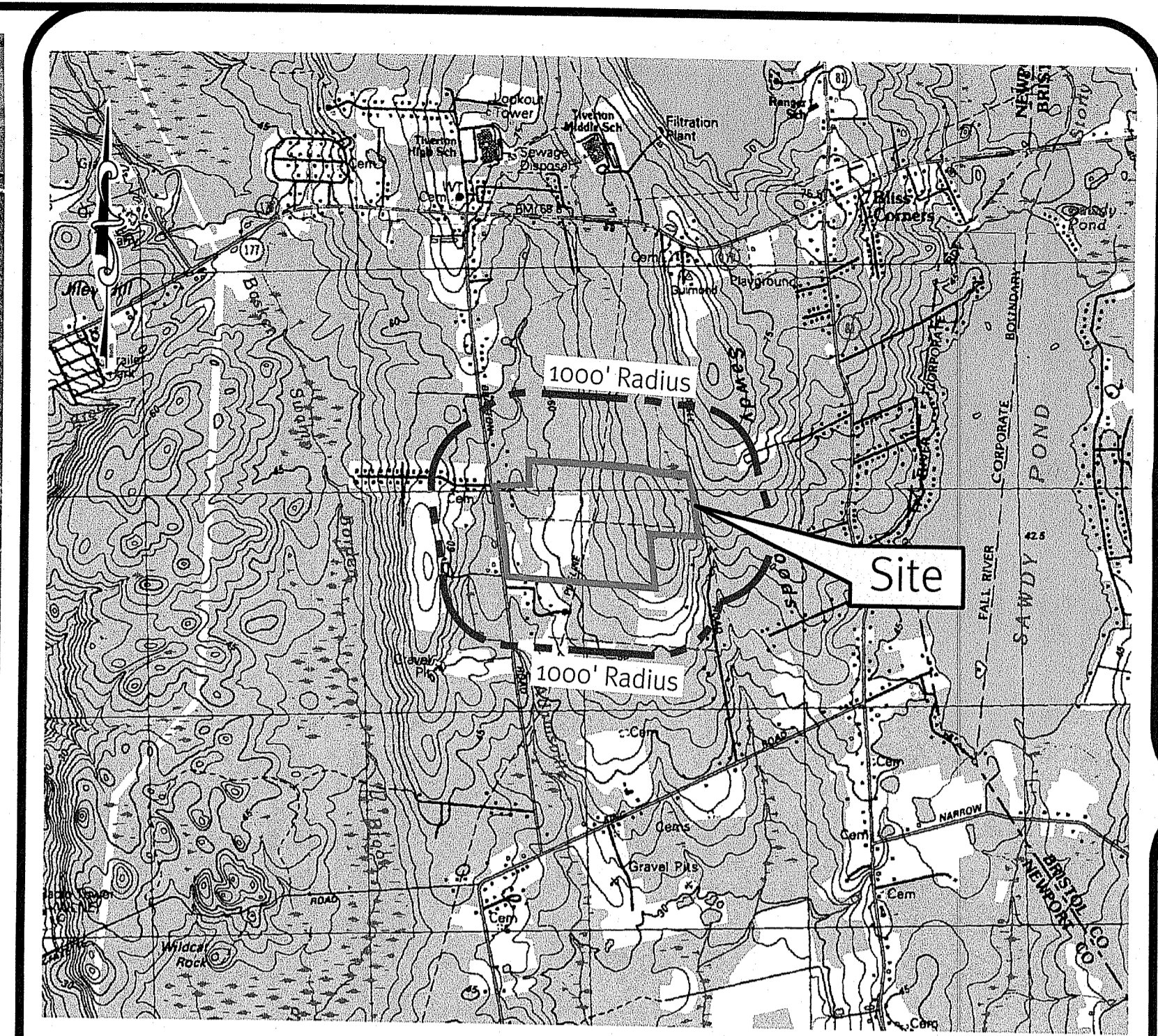
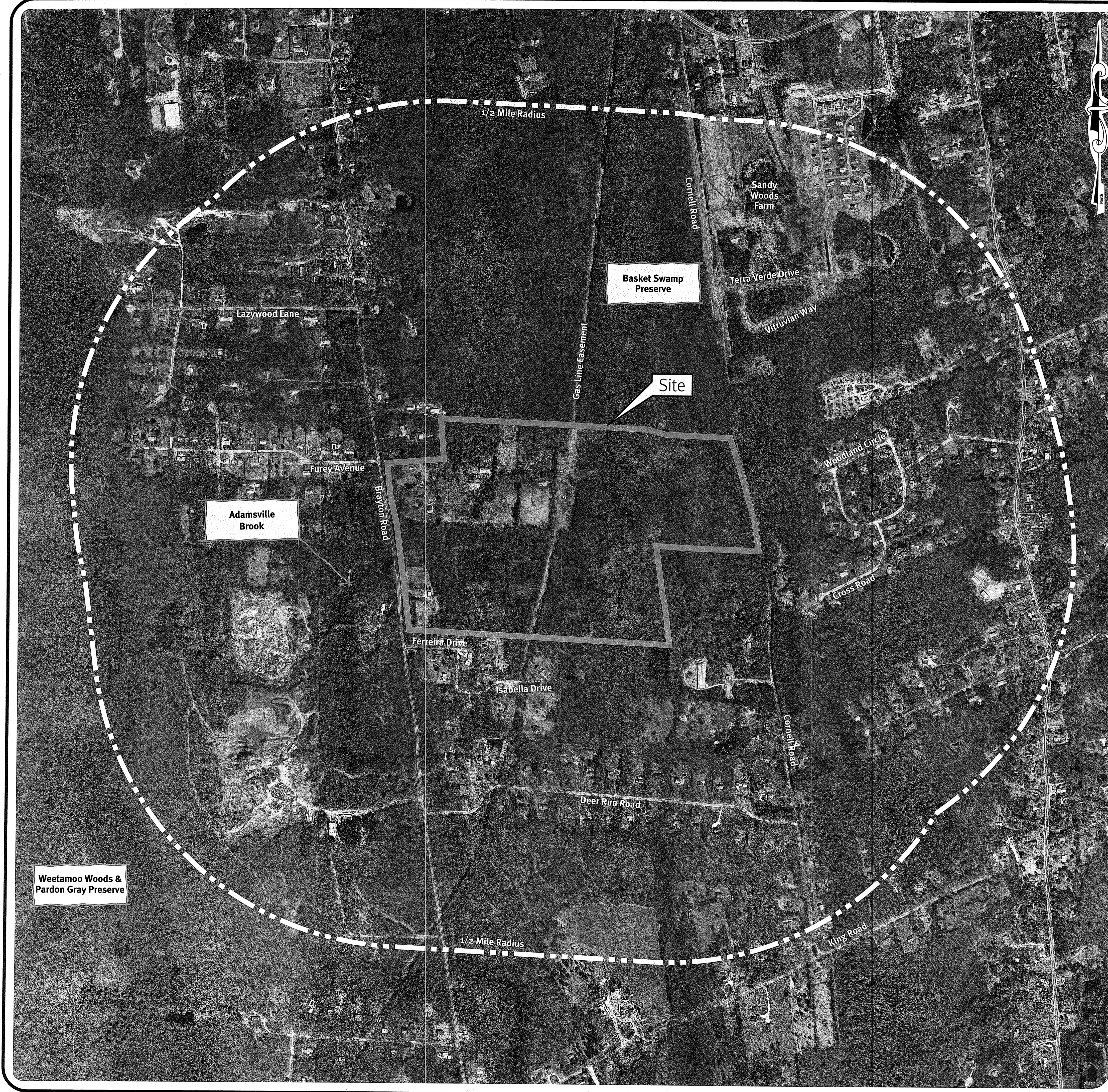
*Martin D. Senecek*

APR 22 2021

SESC / O&M

The Soil Erosion and Sediment Control Plan (SESC) and Operations and Maintenance Plan (O&M) are required documents with this plan set and must be maintained by the contractor and owner onsite.

z:\main\projects\1482-007 brayton road solar\autocad drawings\1482-007-cwr.dwg Plotted: 4/22/2021



USGS Map Scale: 1"=2000'

Environmental Management  
APR 22 2021  
Office of Water Resources

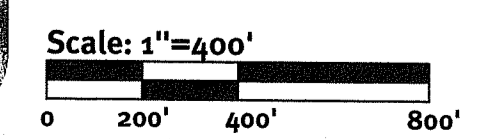
Weetamoo Woods & Pardon Gray Preserve

Basket Swamp Preserve

Site

Adamsville Brook

Photo Obtained from RIGIS 2014 Orthophotography.



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*Martin D. Senack*

**DiPrete Engineering**  
90 Broadway Newport, RI 02840

**BRIAN C. DIPRETE**  
REGISTERED PROFESSIONAL CIVIL ENGINEER

This plan set must not be used for construction purposes unless approved by the Office of Water Resources.  
DiPrete Engineering only warrants these as a DiPrete Engineering title block stamped by registered Professional Engineer of DiPrete Engineering. DiPrete Engineering does not warrant plans by any other party.

Aerial Half Mile Radius & USGS Map  
**Brayton Road Solar**  
AP 503 Lot 103 & AP 505 Lots 101 and 102  
Tiverton, Rhode Island 02878

General Notes:

- 1. THE SITE IS LOCATED ON THE TOWN OF TIVERTON, RHODE ISLAND ON ASSESSOR'S PLAT 503 LOT 103 AND ASSESSOR'S PLAT 505 LOTS 101 AND 102.
2. THE SITE IS 102.00 ACRES± AND IS ZONED R-80.
3. THE OWNER OF AP 505 LOT 101 IS: CHRISTOPHER S & VIVIAN M SOUSA 394 BRAYTON ROAD TIVERTON, RI 02878
THE OWNER OF AP 505 LOT 102 IS: HAROLD M JR & ELSIE T BRAYTON 51 PLEASANT AVENUE TIVERTON, RI 02878
THE OWNER OF AP 503 LOT 103 IS: CHRISTOPHER S SOUSA 394 BRAYTON ROAD TIVERTON, RI 02878
4. AP 503 LOT 103, AP 505 LOTS 101 AND 102 TO BE SUBDIVIDED INTO THREE LOTS THROUGH ADMINISTRATIVE SUBDIVISION UPON APPROVAL.
5. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X, ZONE X UNSHADED AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, REFERENCE FEMA FLOOD INSURANCE RATE MAP 44005C0106H, MAP REVISED APRIL 5, 2010.
6. THE BOUNDARY SHOWN ON THIS PLAN IS COMPILED FROM DOCUMENTS OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY. THIS COMPILED PLAN HAS BEEN PREPARED FROM SOURCES OF INFORMATION AND DATA WHOSE POSITIONAL ACCURACY AND RELIABILITY HAVE NOT BEEN VERIFIED. THE PROPERTY LINES DEPICTED HEREIN DO NOT REPRESENT A BOUNDARY OPINION, AND OTHER INFORMATION DEPICTED IS SUBJECT TO SUCH CHANGES AS AN AUTHORITY FIELD SURVEY MAY DISCLOSE.
7. CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. SAID DATA IS BASED ON ELEVATION INFORMATION THAT WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND BETWEEN APRIL 22 AND MAY 6, 2011 AS PART OF THE NORTHEAST LIDAR PROJECT. THIS DATA'S POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED BY DIPRETE ENGINEERING AND IS SUBJECT TO CHANGES AN AUTHORITY FIELD SURVEY MAY DISCLOSE.
8. SOIL MAPPING OBTAINED FROM SOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
9. ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, TOWN OF TIVERTON STANDARD SPECIFICATIONS AND DETAILS AND SPECIFICATIONS INCLUDED AS PART OF THE DRAWINGS. IN AREAS OF CONFLICT BETWEEN THE DIFFERENT SPECIFICATIONS, THE DESIGN PLANS AND PROJECT SPECIFICATIONS WILL TAKE PRECEDENCE OVER THE GENERAL SPECIFICATIONS AND THE DESIGN ENGINEER WILL INTERPRET THE CONSTRUCTION REQUIREMENT. THE CONTRACTOR IS ADVISED TO SUBMIT A REQUEST FOR INFORMATION (RFI) FOR ANY AREAS OF CONFLICT BEFORE COMMITTING TO CONSTRUCTION.
10. THE SITE NOT WITHIN A: GROUNDWATER PROTECTION AREA (RIDEM) NON-COMMUNITY WELLHEAD PROTECTION AREA (RIDEM) WATERSHED PROTECTION OVERLAY DISTRICT (TOWN) SAMP AREA (CRMC) NATURAL HERITAGE AREA (RIDEM)
THE SITE IS WITHIN A: COMMUNITY WELLHEAD PROTECTION AREA (RIDEM)
11. THE SITE DOES NOT CONTAIN ANY HISTORICALLY SIGNIFICANT SITES OR STRUCTURES, STATE OR LOCAL HISTORIC SITES, DISTRICTS, ARCHAEOLOGICALLY SIGNIFICANT SITES, OR STATE DESIGNATED SCENIC AREAS. THIS WAS DETERMINED THROUGH FILE REVIEW, A SITE WALK PERFORMED BY DIPRETE ENGINEERING ON JULY 3, 2018 AND A LETTER FROM THE RHODE ISLAND HISTORICAL PRESERVATION AND HERITAGE COMMISSION, DATED OCTOBER 2, 2018.
12. WETLAND FLAGGING PERFORMED BY DIPRETE ENGINEERING ON JULY 3, 2018 AND MARCH 3, 2020.
13. PER THE TOWN OF TIVERTON GIS ONLINE MAPS, ALL LOTS WITHIN 200' OF THE SITE BOUNDARY ARE ZONED R-80.
14. THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
• SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC), THE SESC CONTAINS THE FOLLOWING:
o EROSION CONTROL MEASURES
o SHORT TERM MAINTENANCE
o ESTABLISHMENT OF VEGETATIVE COVER
o CONSTRUCTION POLLUTION PREVENTION
o SEQUENCE OF CONSTRUCTION
• STORMWATER OPERATION AND MAINTENANCE PLAN (O&M), THE O&M CONTAINS:
o LONG TERM MAINTENANCE
o LONG TERM POLLUTION PREVENTION
15. NO WATER OR SEWER SERVICES ARE PROPOSED.
16. PROPOSED CRUSHED STONE ACCESS PATHS ARE TO BE 20' WIDE, OR AS NOTED ON PLANS. SEE DETAIL ON SHEET 14.
17. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF TIVERTON'S SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF DETENTION BASINS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
18. PROJECT WORK WILL BE CONSTRUCTED IN ONE PHASE.
19. SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON JUNE 4 AND 5, 2019 AND MARCH 3, 2020.
20. THIS PLAN SET MAY REFERENCE AND/OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS/DETAILS BY OTHERS, AND/OR THEIR ASSOCIATED SPECIFICATIONS. ANY REFERENCED OR REPRODUCED PROPRIETARY PRODUCT OR DETAIL BY OTHERS THAT IS SHOWN ON DIPRETE PLANS IS STRICTLY FOR INFORMATION/SPECIFICATION PURPOSES ONLY. DIPRETE ENGINEERING DOES NOT WARRANT ANY PROPRIETARY PRODUCTS, DETAILS BY OTHERS OR THEIR RESPECTIVE DESIGNS. IF A DIPRETE ENGINEERING PLAN INCLUDES A PROPRIETARY PRODUCT/ DETAIL BY OTHERS (EITHER EXPLICITLY OR IMPLIED) AND IS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING, SAID STAMP DOES NOT EXTEND TO ANY PORTION OF THE PROPRIETARY PRODUCT/DETAIL BY OTHERS OR ITS DESIGN.
21. EXCEPT FOR CONSTRUCTION OF CROSSING ACCESS PATHS AS SHOWN ON PLANS, NO WORK SHALL TAKE PLACE WITHIN THE 50-FOOT GAS EASEMENT, NOR IN THE ADJACENT 20-FOOT RIGHT OF WAY EASEMENT.

Soil Erosion and Sedimentation Control Notes:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. ALL EROSION CONTROL INCLUDING (BUT NOT LIMITED TO) TEMPORARY SWALES, ETC. TO BE INSTALLED PER THE LATEST EDITION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL (RISESC) HANDBOOK AND THE SOIL EROSION & SEDIMENTATION CONTROL PLAN(S). NOTE THE SOIL EROSION AND SEDIMENT CONTROL SHOWN ON THESE PLANS ARE THE MINIMUM QUANTITY/ TYPE OF EROSION CONTROL DEVICES AND MATERIALS DEEMED REQUIRED BY DIPRETE ENGINEERING TO MEET THE OBJECTIVES OF THE RISESC HANDBOOK, BUT IS CONSIDERED A GUIDE ONLY. ADDITIONAL MEASURES/ ALTERNATE CONFIGURATIONS MAY BE REQUIRED IN ORDER TO MEET THE RISESC HANDBOOK BASED ON FACTORS INCLUDING (BUT NOT LIMITED TO) SITE PARAMETERS, WEATHER, INSPECTIONS AND UNIQUE FEATURES. THE SESC WILL CONTINUE TO EVOLVE THROUGHOUT CONSTRUCTION/PHASES. PURSUANT TO NOTE 1 ABOVE, SESC REMAINS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SITE IS FULLY STABILIZED AND/OR SESC RESPONSIBILITIES ARE ASSUMED BY THE OWNER IN WRITING.
3. TEMPORARY SWALES ARE TO BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED SITE WORKS. TEMPORARY SWALES TO BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS ARE TO BE INSTALLED, IF NECESSARY, TO PREVENT EROSION AND SUPPORT VEGETATION. AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED, THE TEMPORARY SWALES ARE TO BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALE TO BE PER THE DESIGN PLANS.
4. INLET PROTECTION IS TO BE INSTALLED ON ALL PROPOSED INLETS AND EXISTING CATCH BASINS WITHIN OR ADJACENT TO PROJECT AREA.
5. FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING SEE SESC PLAN.
6. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER AND OWNER.
7. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.

Demolition Notes:

- 1. ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, PLANS OF RECORD, DRAWINGS FROM OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING AND ARE SUBJECT TO CHANGE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM FOREMENTIONED SOURCES AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE PROPER UTILITY ENGINEERING DEPARTMENTS MUST BE CONTACTED AND THE ACTUAL LOCATION OF UNDERGROUND UTILITIES MUST BE DETERMINED IN THE FIELD BY THE CONTRACTOR. CALL THE DIG SAFE CENTER TOLL FREE AT 1-888-344-7233 72 HOURS PRIOR TO EXCAVATION. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES WHICH ARE SHOWN ON THE PLANS OR DETAILED BY DIG SAFE ARE THE SITE CONTRACTORS RESPONSIBILITY.
2. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR TO PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
4. ANY EXISTING BUILDING(S) AND PROPERTY PROPOSED TO REMAIN WHICH ARE DAMAGED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HERE IN. R&D MATERIALS MUST INCLUDE BUT ARE NOT LIMITED TO PAVEMENT, GRAVEL, CATCH BASINS, MANHOLES, GRATES/FRAMES/COVERS, AND ANY EXCESS SOIL THAT IS NOT INCORPORATED INTO THE WORK.
6. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK MUST BE RESTORED TO MATCH THE DESIGN PLANS.
7. CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED). LOCATION MUST BE DOCUMENTED BY FIELD SURVEY OR SINKING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW CONSTRUCTION. A MARKER MUST BE INSTALLED TO FINISH GROUND AT ALL INSTALLED CAPS/PLUGS. THE MARKER CAN BE A POST IN CONSTRUCTION AREAS OR PAINTED ON A PERMANENT SURFACE.

Layout and Materials:

- 1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR MUST REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. GROUND MOUNTED SOLAR INSTALLATIONS ARE NOT TO EXCEED 12 FEET IN HEIGHT (TIVERTON ZONING ORDINANCE ARTICLE XXIV SECTION 5.A). HEIGHT OF PROPOSED SOLAR PANEL INSTALLATION RANGES FROM 3 FEET TO 12 FEET. SOLAR DESIGN DRAWINGS BY OTHERS.
3. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
4. CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS. CONTRACTOR MUST VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE STAMPED PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
5. PROPOSED PERIMETER SITE FENCING SHALL BE GALVANIZED CHAIN LINK FENCE OR BLACK VINYL COATED FITTED WITH BLACK PRIVACY SLATS. FENCE POSTS SHALL BE LOCATED ON THE INSIDE EDGE OF FENCE. FINAL FENCING ALIGNMENT SHALL BE ADJUSTED AS NECESSARY WITHIN EXISTING VEGETATED BUFFERS TO AVOID SUBSTANTIAL VEGETATION. BOTTOM OF ALL PERIMETER FENCING SHALL BE RAISED SIX INCHES ABOVE GROUND SO AS TO ALLOW PASSAGE OF SMALL SPECIES THROUGH THE SITE. PERMANENT COLORED FLAGGING SHALL BE ATTACHED TO THE FENCE TO DETER DEER COLLISIONS.
6. SITE SIGNAGE IS LIMITED TO SECURITY SIGNS (OR SIMILAR), OWNER IDENTIFICATION, AND 24-HOUR EMERGENCY CONTACT INFORMATION TO BE INSTALLED ON THE FACILITY PERIMETER FENCING.
7. AN ACCESS BOX (KNOX OR SIMILAR) WILL BE COORDINATED WITH THE LOCAL FIRE DEPARTMENT AHJ. KEY ACCESS BOXES WILL BE LOCATED AT VEHICLE AND PERSONNEL GATES.
8. CONTRACTOR MUST COORDINATE WITH DESIGN ENGINEER FOR REMOVAL AND REUSE OF STONE WALLS ONSITE.
9. TOTAL OUTPUT OF SOLAR INSTALLATION SHALL BE APPROXIMATELY 11.8 MW AC SUBJECT TO CHANGE BASED ON PANEL SELECTION AND AVAILABLE PANELS AT TIME OF CONSTRUCTION.

Wetland Restoration:

- 1. PER RIDEM OFFICE OF COMPLIANCE AND INSPECTION (OCI) FILE NO. FW-20-15, THE PROJECT HAS COORDINATED THE WETLAND RESTORATION AREAS WITHIN THE SITE AREA. REFER TO WETLAND AND RESTORATION PLAN BY NATURAL RESOURCES SERVICES ON SHEET 14 FOR ADDITIONAL INFORMATION. ALL RESTORATION MUST BE COMPLETED BY MAY 15, 2021, AND IN ACCORDANCE WITH THE RIDEM-APPROVED PLAN.
2. EXCEPT FOR RESTORATION WORK AND RECONSTRUCTION OF PATH, NO WORK IS TO TAKE PLACE INSIDE ANY RIDEM JURISDICTIONAL AREAS, INCLUDING BUT NOT LIMITED TO RIVERSHORE AND PERIMETER WETLANDS, VERNAL POOL AND SALAMANDER SETBACKS.

Grading and Utility Notes:

- 1. CONSTRUCTION TO COMMENCE SPRING 2021 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
2. ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND TOWN OF TIVERTON STANDARD SPECIFICATIONS AND DETAILS.
3. THE CONTRACTOR MUST COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED SOLAR SITE. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING ROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE TO BE COORDINATED WITH APPLICANT, SOLAR ENGINEER, AND SITE ENGINEER PRIOR TO INSTALLATION.
6. ALL STEEP SLOPES ARE SHOWN SCHEMATICALLY ONLY AND DIPRETE ENGINEERING IS NOT PROVIDING THE DESIGN OF THESE ITEMS. THE ACTUAL SLOPES ARE TO BE DESIGNED AND BUILT UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER AND CERTIFIED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO CONSTRUCTION.
7. ALL CUT AND FILL AREAS ARE TO BE DONE UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER WITH TESTING AND CERTIFICATION TO BE PROVIDED TO THE APPLICANT AT THE COMPLETION OF THE PROJECT. DIPRETE ENGINEERING IS NOT PROVIDING THE FILL SPECIFICATION, GEOTECHNICAL ENGINEERING, STRUCTURAL ENGINEERING SERVICES, OR SUPERVISION AS PART OF THESE DRAWINGS.
8. NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
9. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE. ALL STOCKPILED LOAM MUST BE USED AND RE-SPREAD ON-SITE. THERE WILL NOT BE ANY EXPORT OF TOPSOIL FROM THE PROJECT SITE.
10. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION. STUMPS MUST BE GROUND ON SITE OR REMOVED.
11. NO STUMP DUMPS ARE PROPOSED ONSITE.
12. SITE GRADING MAY BE REQUIRED IN SOLAR PANEL AREA. FINAL GRADING TO BE DETERMINED AT THE TIME OF CONSTRUCTION.

Drainage:

ALL DRAINAGE PIPING TO BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. THE LEVEL OF DETAIL SHOWN DOES NOT INCLUDE ALL JOINTS THAT MAY BE REQUIRED FOR CONSTRUCTION. ALL FITTINGS AND PIPE SLOPES TO BE FIELD FIT BY CONTRACTOR.

Electric:

ALL ELECTRICAL CONNECTION AND DISTRIBUTION LINES WITHIN THE FACILITY SHALL BE UNDERGROUND. OWNER AND CONTRACTOR TO COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES. ALL WORK TO BE IN ACCORDANCE WITH EACH UTILITY COMPANY'S STANDARDS AND DETAILS AS WELL AS LOCAL AND FEDERAL REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO, POLES, TRANSFORMERS, PULL BOXES, CONCRETE PADS, CONCRETE ENCASEMENTS AND CONDUITS. CONNECTION POINTS FOR ELECTRIC AND TELECOM UTILITIES, AT THE EXISTING INFRASTRUCTURE, ARE CURRENTLY SHOWN AS UNDERGROUND UTILITIES. THESE UTILITIES MAY BE UNDERGROUND OR OVERHEAD AND WILL BE COORDINATED WITH NATIONAL GRID PRIOR TO CONSTRUCTION.

Site Lighting:

NO NEW LIGHTING INSTALLATIONS ARE PROPOSED.

RIDOT Notes:

- 1. ALL WORK TO BE DONE WITHIN THE STATE RIGHT OF WAY MUST CONFORM TO RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AMENDED AUGUST 2013 WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE RI STANDARD DETAILS 1998 EDITIONS WITH ALL REVISIONS.
2. ALL TRAFFIC CONTROL MUST CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, INCLUDING ALL REVISIONS.
3. NO LANE OR SHOULDER CLOSURES MUST BE PERFORMED WITHIN THE STATE'S RIGHT OF WAY DURING PEAK TRAFFIC HOURS.

Abbreviations Legend

Table with 2 columns: Abbreviation and Description. Includes entries like ADA AMERICANS WITH DISABILITY ACT, AUTHORITY HAVING JURISDICTION, AP ASSESSOR'S PLAT, BC BOTTOM OF CURB, BT BOTTOM OF TESTHOLE, BIT BITUMINOUS (BERM), BIO BIODETENTION, B10 BASEMENT SLAB ELEVATION, BW FINISHED GRADE AT BOTTOM OF WALL, CB CATCH BASIN, (C) CALCULATED, (E) CENTERLINE, (CA) CHORD ANGLE, CLDIP CONCRETE LINED DUCTILE IRON PIPE, CO CLEAN OUT, CONC CONCRETE, (D) DEED, DCB DOUBLE CATCH BASIN, DI DROP INLET, DMH DRAINAGE MANHOLE, DP DETENTION POND, ELEV ELEVATION, EOP EDGE OF PAVEMENT, ESC EROSION AND SEDIMENT CONTROL, EX EXISTING, FES FLARED END SECTION, FFE FINISH FLOOR ELEVATION, GS GARAGE SLAB ELEVATION, GWT GROUND WATER TABLE, HW HEADWALL, HC HIGH CAPACITY CATCH BASIN GRATE, HDPE HIGH DENSITY POLYETHYLENE, ID INLINE DRAIN, INV INVERT, IP INFILTRATION POND, LF LINEAR FEET, LOD LIMIT OF DISTURBANCE, LP LIGHT POLE, (M) MEASURED, N/F NOW OR FORMERLY, OHW OVERHEAD WIRE, PE POLYETHYLENE, PL PROPERTY LINE, PR PROPOSED, PVC POLYVINYL CHLORIDE, R RADIUS, R&D REMOVE AND DISPOSE, RCP REINFORCED CONCRETE PIPE, RHH RHODE ISLAND HIGHWAY BOUND, RCP REINFORCED CONCRETE PIPE, RL ROOF LEADER, ROW RIGHT OF WAY, S SLOPE, SD SUBDRAIN, SED SEDIMENT FOREBAY, SF SQUARE FOOT, SFL STATE FREEWAY LINE, SFM SEWER FORCE MAIN, SG SLAB ON GRADE ELEVATION, SHL STATE HIGHWAY LINE, SMH SEWER MANHOLE, SNDF SAND FILTER, SS SIDE SLOPE, STA STATION, TC TOP OF CURB, TD TRENCH DRAIN, TF TOP OF FOUNDATION TRANSITION, TW TOP OF WALL (FINISHED GRADE AT TOP OF WALL), TYP TYPICAL, UDG UNDERGROUND DETENTION SYSTEM, UIS UNDERGROUND INFILTRATION SYSTEM, UP UTILITY POLE, WO WALKOUT ELEVATION, WQ WATER QUALITY.

Existing Legend

Table with 2 columns: Symbol and Description. Includes entries like NAIL FOUND/SET, DRILL HOLE FOUND/SET, BOUND FOUND/SET, SIGN, BOLLARD, SOIL EVALUATION, CATCH BASIN, DOUBLE CATCH BASIN, DRAINAGE MANHOLE, FLARED END SECTION, GUY POLE, ELECTRIC MANHOLE, LIGHTPOST, SEWER/SEPTIC MANHOLE, SEWER VALVE, CLEANOUT, IRRIGANT, IRRIGATION VALVE, WATER VALVE, WELL, MONITORING WELL, UNKNOWN MANHOLE, GAS VALVE, BENCH MARK, STREAM FLOW DIRECTION, WETLAND LINE AND FLAG, STATE HIGHWAY LINE, STATE FREEWAY LINE.

Proposed Legend

Table with 2 columns: Symbol and Description. Includes entries like MAJOR CONTOUR LINE, MINOR CONTOUR LINE, SPOT ELEVATION, EDGE OF GRAVEL ROAD, CRUSHED STONE ACCESS PATH (SEE DETAIL), 6' HIGH CHAIN LINK FENCE (SEE LAYOUT AND MATERIALS NOTE 5.), ELECTRICAL EQUIPMENT, SOLAR PANELS, ELECTRIC CONDUIT (DESIGN BY OTHERS), DRAINAGE LINE, SWALE, OVERHEAD WIRE, ELECTRIC, TELEPHONE, CABLE LINE, LIMIT OF DISTURBANCE/LIMIT OF CLEARING, SEDIMENTATION BARRIER, STAKED SILT FENCE (RIDOT STD 9.2.0), COMPOST SOCK OR APPROVED EQUAL, RIPRAP, POND ACCESS, PROPERTY LINE TO BE REMOVED, PROPERTY MARKER TO BE SET.

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED JUL 20 2021 FILE # 20-0298 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Jensen

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Brian C. G... Registered Professional Engineer logo

Environmental Management APR 22 2021 Water Resources

General Notes & Legend Brayton Road Solar logo and contact information: 401-619-8500, 401-619-8504, 90 Broadway Newport, Rhode Island 02840

**General Notes:**

- THE PARCELS ARE FOUND ON ASSESSOR'S PLAT 503, LOT 103 AND ASSESSOR'S PLAT 505, LOTS 101 AND 102 IN THE TOWN OF TIVERTON, NEWPORT COUNTY, RHODE ISLAND.
- THE OWNER OF LOT 101 PER DEED BOOK 1330, PAGE 148 IS CHRISTOPHE S. SOUSA AND VIVIAN M. SOUSA. THE OWNER OF LOT 102 PER DEED BOOK 188, PAGE 11 IS HAROLD M. BRAYTON, JR. AND ELSIE T. BRAYTON. THE OWNER OF LOT 103 PER DEED BOOK 1255, PAGE 153 IS CHRISTOPHER S. SOUSA.
- BASED ON GRAPHICAL PLOTTING ONLY, THE PARCEL IS LOCATED IN ZONE X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 4405001084, DATED APRIL 5, 2010. THIS DESIGNATION MAY CHANGE BASED UPON REVIEW BY A FLOOD ZONE SPECIALIST OR BY THE RESULTS OF A COMPREHENSIVE FLOOD STUDY.
- THE PARCEL IS ZONED R-80 BASED ON THE TOWN OF TIVERTON GIS. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
- THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
- FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON JULY 26, 2019. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.

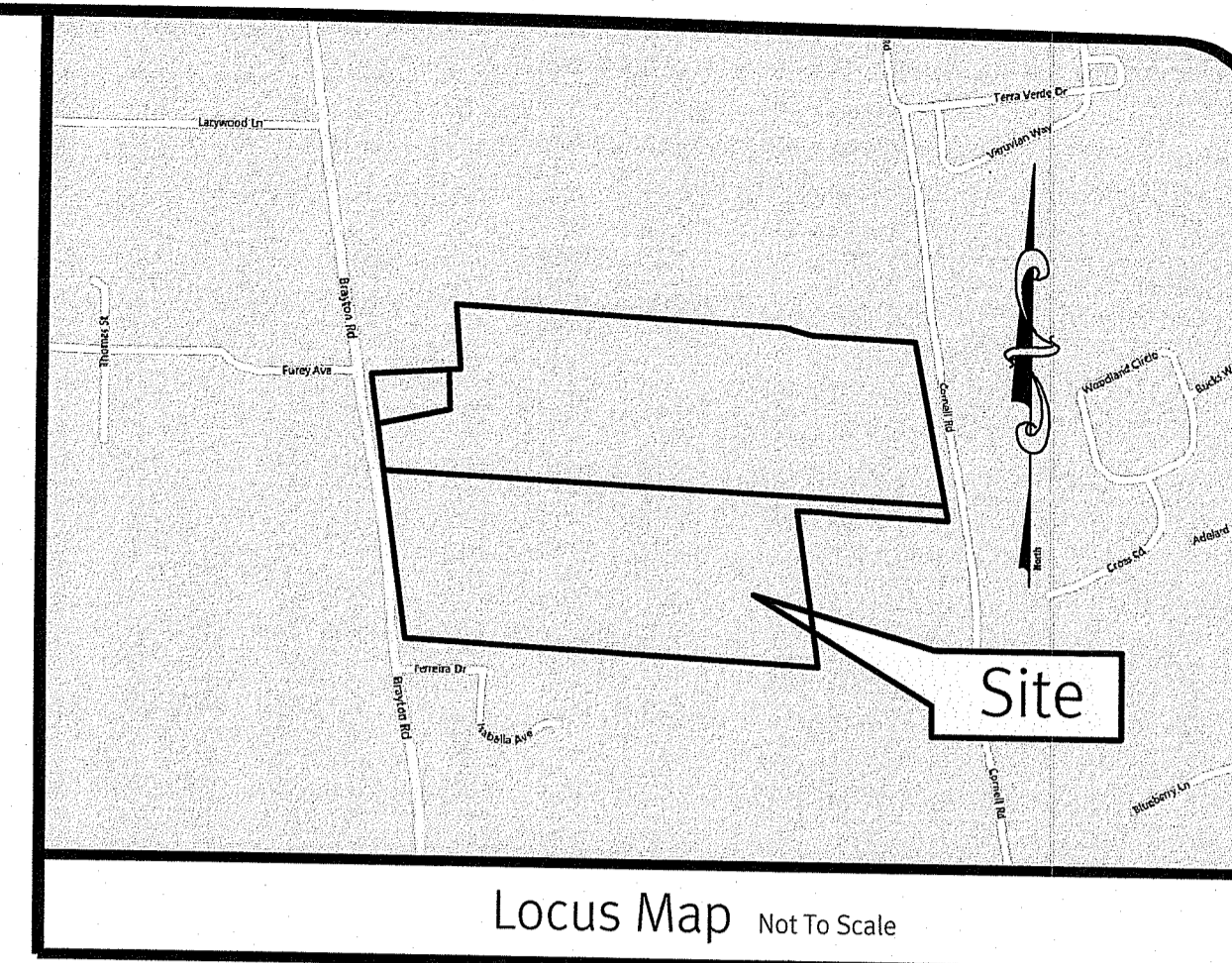
**Plan References:**

- SECTION B WHIP-O-WILL TERRACE LOT B-A TIVERTON, RHODE ISLAND. SCALE 1"=100'. DATED JUNE 6, 1968. PLAN BY MALCOM E. BERRETT, PE. RECORDED IN PLAN BOOK 12, PAGE 37.
- PLAN OF LAND IN TIVERTON, RHODE ISLAND BELONGING TO ROGER J. & HELEN M. LANGEVIN OF TIVERTON. SCALE 1"=40'. DATED NOVEMBER 17, 1971. RECORDED IN PLAN BOOK 13, PAGE 32.
- CERTAIN KAND OF AUSTINE & AGNES FERREIRA, SO. BRAYTON ROAD, TIVERTON, RHODE ISLAND. SCALE 1"=100'. DATED JUNE 10, 1974. PLAN BY MALCOM E. BERRETT, PE. RECORDED IN PLAN BOOK 14, PAGE 18.
- DEFINITIVE PLAN SECTION 3 PLAN OF LAND IN TIVERTON, RHODE ISLAND BELONGING TO AUGUSTINE & AGNES FERREIRA OF TIVERTON. SCALE 1"=100'. DATED JANUARY 30, 1976. RECORDED IN PLAN BOOK 14, PAGE 51.
- CERTAIN LAND OF MICHAEL P. LYDON 241 CORNELL ROAD, TIVERTON, R.I. SCALE 1"=100'. DATED JULY 16, 1978. PLAN BY JESSE METCALF JR. RLS. RECORDED IN PLAN BOOK 16, PAGE 5.
- MINOR SUBDIVISION OF LAND IN TIVERTON, RHODE ISLAND PREPARED FOR TONY FARIAS BLOCK 132 CARD 139 ISABELLA AVENUE. SCALE 1"=80'. DATED JULY 28, 2000. PLAN BY CIVIL ENGINEERING CONCEPTS, INC. RECORDED IN PLAN BOOK 20, PAGE 35.

**Legend**

NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY

BUILDING	ASSESSOR'S PLAT	▲/△	NAIL FOUND/SET
AP	NOW OR FORMERLY	●/●	DRILL HOLE FOUND/SET
N/F	DEED	⊙/⊙	IRON ROD/PIPE FOUND/SET
(D)	MEASURED	■/□	BOUND FOUND/SET
(M)	CHORD ANGLE	⊙	SIGN
(CA)	HANDICAPPED	⊙	BOLLARD
HC	PROPERTY LINE	⊙	SOIL EVALUATION
ASSESSOR'S LINE	TREELINE	⊙	CATCH BASIN
GUARDRAIL	FENCE	⊙	DOUBLE CATCH BASIN
RETAINING WALL	STONE WALL	⊙	DRAINAGE MANHOLE
MINOR CONTOUR LINE	MINOR CONTOUR LINE	⊙	FLARED END SECTION
MAJOR CONTOUR LINE	MAJOR CONTOUR LINE	⊙	GUY POLE
WATER LINE	SEWER LINE	⊙	ELECTRIC MANHOLE/HANDHOLE
SEWER FORCE MAIN	GAS LINE	⊙	UTILITY/POWER POLE
SEWER MANHOLE	ELECTRIC LINE	⊙	LIGHTPOST
SEWER VALVE	OVERHEAD WIRES	⊙	SEWER/SEPTIC MANHOLE
CLEANOUT	DRAINAGE LINE	⊙	SEWER VALVE
HYDRANT		⊙	WELL
IRRIGATION VALVE		⊙	MONITORING WELL
WATER VALVE		⊙	UNKNOWN MANHOLE
WELL		⊙	GAS VALVE
WETLAND FLAG		⊙	BENCH MARK
BENCH MARK		⊙	SHRUB
SHRUB		⊙	TREE



Locus Map Not To Scale



Environmental Management  
 APR 22 2021  
 Office of Water Resources

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUL 28 2021 FILE # 20-0298  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martin D. Senechal*

**Certification:**

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 ON NOVEMBER 25, 2015, AS FOLLOWS:

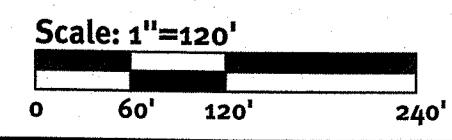
TYPE OF SURVEY	MEASUREMENT SPECIFICATION
PERIMETER BOUNDARY SURVEY	CLASS I

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
 PERIMETER RETRACEMENT PERFORMED BY DIPRETE ENGINEERING FOR THE PURPOSE OF SITE ENGINEERING AND PERMITTING.

ROBERT G. BARCOCK  
 No. 2504  
 PROFESSIONAL LAND SURVEYOR

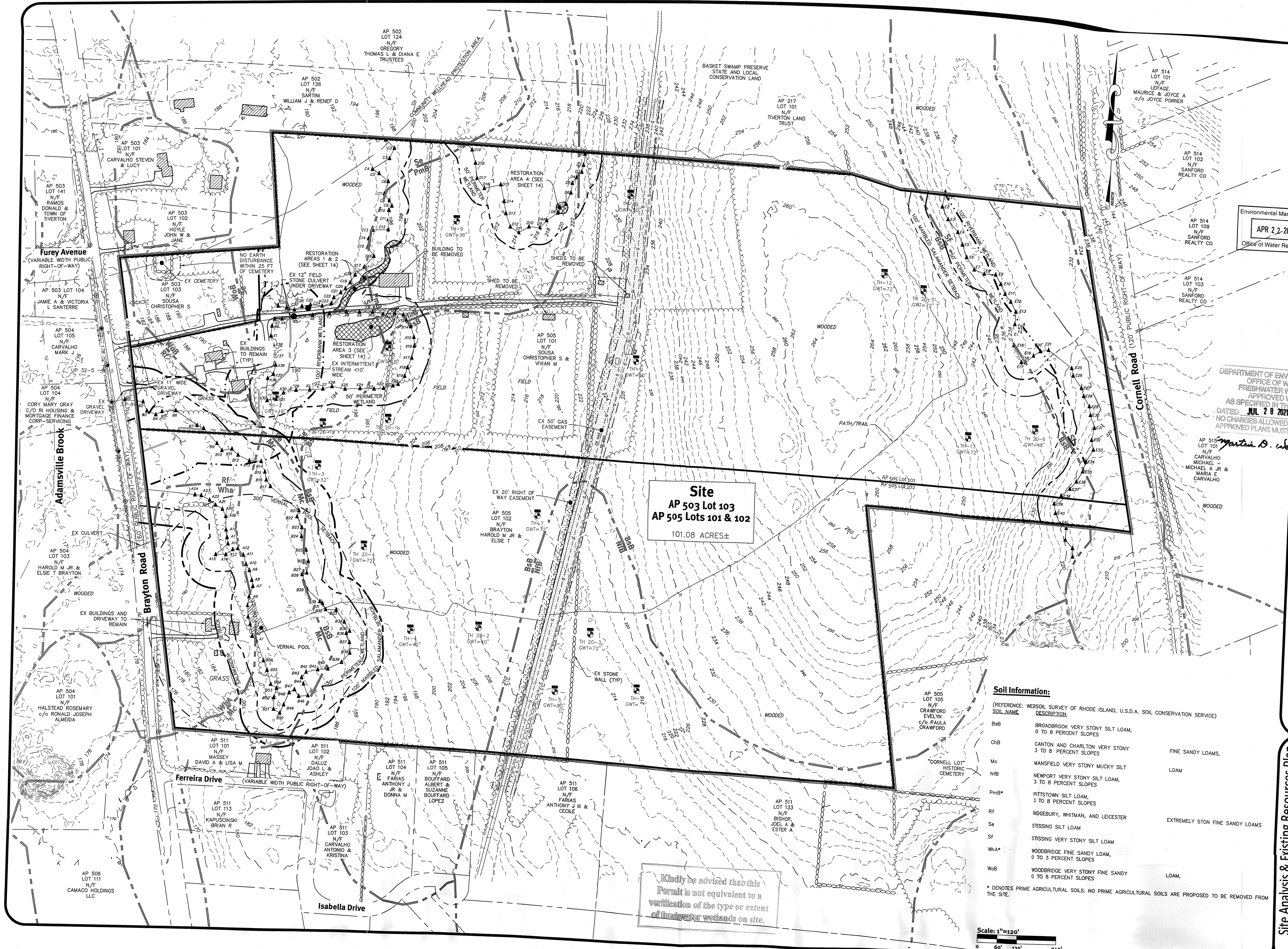
*Robert G. Barcock*  
 11/13/19  
 ROBERT G. BARCOCK, RIPLS #2504, COA #S.000A160

This Plan Should Be Indexed By The Following Streets:  
 • Brayton Road  
 • Cornell Road



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**Site**  
AP 503 Lot 103  
AP 505 Lots 101 & 102  
101.08 ACRES±

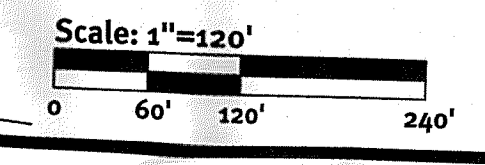
**Soil Information:**

(REFERENCE: WEBSOIL SURVEY OF RHODE ISLAND, U.S.D.A. SOIL CONSERVATION SERVICE)

SOIL NAME	DESCRIPTION	
BsB	BROADBROOK VERY STONY SILT LOAM, 0 TO 8 PERCENT SLOPES	
ChB	CANTON AND CHARLTON VERY STONY 3 TO 8 PERCENT SLOPES	FINE SANDY LOAMS,
Mc	MANSFIELD VERY STONY MUCKY SILT	LOAM
NtB	NEWPORT VERY STONY SILT LOAM, 3 TO 8 PERCENT SLOPES	
PmB*	PITSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES	
Rf	RIDGEBURY, WHITMAN, AND LEICESTER	EXTREMELY STON FINE SANDY LOAMS
Se	STISSING SILT LOAM	
Sf	STISSING VERY STONY SILT LOAM	
WhA*	WOODBIDGE FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	
WoB	WOODBIDGE VERY STONY FINE SANDY 0 TO 8 PERCENT SLOPES	LOAM,

\* DENOTES PRIME AGRICULTURAL SOILS. NO PRIME AGRICULTURAL SOILS ARE PROPOSED TO BE REMOVED FROM THE SITE.

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



Environmental Management  
APR 22 2021  
Office of Water Resources

**DiPrete Engineering**  
90 Broadway Newport, RI 02840

**BRIAN C. GARDNER**  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THIS LETTER OF APPROVAL  
DATED JUL 28 2021  
FILE # 20-C-00000000  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION

This plan was prepared for construction purposes and is not to be used for any other purpose without the written consent of DiPrete Engineering, Inc. The contractor is responsible for all of the above mentioned methods, safety precautions and requirements, and OSHA regulations. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

**Site Analysis & Existing Resources Plan**  
**Brayton Road Solar**  
AP 503 Lot 103 & AP 505 Lots 101 & 102  
Tiverton, Rhode Island 02878  
Prepared For:  
**RI Solar Renewable Energy IV, LLC**

**Solar SESC Phases**

- PHASE A INSTALL CONSTRUCTION ACCESS, INLET SEDIMENT CONTROL, CUT TREES, STUMPS REMAIN IN PLACE (NOT DEPICTED)
- PHASE B INSTALL ALL LIMIT OF DISTURBANCE SESC (SEE SESC LEGEND)
- PHASE C INSTALL ACCESS ROAD, DRAINAGE SWALES, AND PONDS. PROTECT INFILTRATION AREAS WITH SILT BARRIERS
- PHASES D TO AS NEEDED\* SOLAR PANEL INSTALLATION: CLEAR AND GRUB STUMPS, ADD FIBER ROLLS/COMPOST SOCKS ON SLOPES, STOCKPILE TOP SOIL. FINE GRADE, ESTABLISH VEGETATIVE COVER (SEE SOLAR SESC PROTOCOL THIS SHEET).
- NO CONSTRUCTION ALLOWED
- EXISTING VEGETATED FIELDS

\*PHASES MAY BE BUILT IN ANY ORDER AND LIMITS REVISED AS NECESSARY TO CONSTRUCT SITE. MULTIPLE PHASES MAY BE CONSTRUCTED AT THE SAME TIME SO LONG AS THEY CAN MEET ALL REQUIREMENTS AS NOTED ON THIS PLAN AND SHEET 3.

**Solar SESC Protocol:**

THE FOLLOWING METHODOLOGY IS TYPICAL FORMULATION FOR SOLAR SITES.  
NOTE: PRIOR TO CONSTRUCTION, ON SITE TESTING MUST BE PERFORMED BY HYDROGRASS TECHNOLOGIES INC. (OR OTHER COMPANY APPROVED BY DESIGN ENGINEER AND SOLAR DEVELOPER) TO DETERMINE FINAL PROTOCOL / GROWTH MEDIUM SELECTION / MIX RATIOS BASED ON THE SOILS SPECIFIC TO THE PROJECT SITE. FINAL FORMULATION MUST BE PROVIDED TO DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION.

CONTRACTOR MAY USE OTHER SIMILAR TECHNOLOGIES ONLY WITH WRITTEN APPROVAL FROM DESIGN ENGINEER AND SOLAR DEVELOPER, AND MUST STILL COMPLY WITH THE NOTE ABOVE.

THE RECOMMENDED PHASE SIZES AS SHOWN ON THIS PLAN HAVE BEEN BASED ON WHAT CAN REASONABLY BE STABILIZED USING THE BELOW PROTOCOL. PER ADVICE FROM HYDROGRASS TECHNOLOGIES, INC. (SEE ANCILLARY NOTE 2).

THE PROTOCOL BELOW IS TO BE APPLIED FOR EACH CLEARING & STABILIZATION PHASE AS SHOWN ON THE PLANS:

- INSTALL SILT FENCE/SEDIMENTATION BARRIER AT LIMIT OF DISTURBANCE.
- CLEAR, GRUB AND GRADE THE PHASE AREA.
- AT TIME OF CLEARING/GRUBBING/GRADING, EXCAVATE ANY TEMPORARY OR PERMANENT SWALES, DIVERSION CHANNELS AND INSTALL THE PROPOSED INFILTRATION PONDS.
- AS SOON AS POSSIBLE FOLLOWING CLEARING/GRUBBING/GRADING BUT NO LONGER THAN 4 DAYS, IMPLEMENT THE FOLLOWING PROTOCOL:
  - HYDRAULICALLY APPLY SEED MIX AS SPECIFIED BY LANDSCAPE ARCHITECT, 19-19-19 STARTER FERTILIZER, AND EARTHSTOP 500 SERIES POLYACRYLAMIDE BY GEON ENVIRONMENTAL. RATIOS OF EACH PRODUCT MUST BE APPLIED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, BUT NOT LESS THAN:
    - SOLAR MIX: 250 lbs PER ACRE
    - FERTILIZER: 300 lbs PER ACRE
    - EARTHSTOP: 15 lbs PER ACRE ON SLOPES LESS THAN OR EQUAL TO 3%, 25 lbs PER ACRE ON SLOPES GREATER THAN 3%.
  - APPLY STRAW MULCH AT 4 TONS PER ACRE.
  - HYDRAULICALLY APPLY WATER COMBINED WITH EARTHSTOP 500 SERIES POLYACRYLAMIDE BY GEON ENVIRONMENTAL AND GUAR GUM TO BOND STRAW TO SOIL. RATIOS OF EACH PRODUCT MUST BE APPLIED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, BUT NOT LESS THAN:
    - WATER: 1,400 gal PER ACRE
    - GUAR GUM: 250 lbs PER ACRE
    - EARTHSTOP: 15 lbs PER ACRE ON SLOPES LESS THAN OR EQUAL TO 3%, 25 lbs PER ACRE ON SLOPES GREATER THAN 3%.

**ANCILLARY NOTES:**

- ALL MIX COMPONENTS AND ADMIXTURES INCLUDING (BUT NOT LIMITED TO) BIOPOLYMERS MUST BE 100% NON TOXIC.
- PER ADVICE FROM HYDROGRASS TECHNOLOGIES INC., THE ABOVE PROTOCOL CAN BE REASONABLY APPLIED TO A MAXIMUM AREA OF 10 ACRES PER DAY. IN ACCORDANCE WITH THE RIESCH, A MAXIMUM AREA OF 5 ACRES CAN BE DISTURBED AT ANY TIME.
- SHOULD THE ABOVE PROTOCOL BE APPLIED AND DEEMED INADEQUATE TO SUFFICIENTLY STABILIZE ANY AREAS IN THE OPINION OF THE DESIGN ENGINEER OR AUTHORITY HAVING JURISDICTION, THE DEFICIENT AREA(S) MUST BE STABILIZED USING NON VEGETATIVE MEASURES IN ACCORDANCE WITH THE RIESCH.
- TYPICAL SEDIMENT TRAP PARAMETERS CAN BE FOUND ON THIS SHEET FOR REFERENCE, HOWEVER MORE MEASURES MAY BE REQUIRED.
- AREAS NOT STABILIZED BY NOVEMBER 15 MUST BE STABILIZED BY NON VEGETATIVE EROSION CONTROL MEASURES IN ACCORDANCE WITH THE RIESCH.
- IF EARTHWORK OCCURS BETWEEN OCT 15 - APRIL 15 (OUTSIDE THE GROWING SEASON), DISTURBED AREAS MUST BE STABILIZED WITHIN 5 DAYS USING NON VEGETATIVE MEASURES. ADDITIONALLY, SEDIMENT TRAPS AND/OR SEDIMENT BASINS MAY BE REQUIRED. ANY SEDIMENT TRAP/BASIN MUST BE DESIGNED AND INSTALLED PER THE RIESCH.

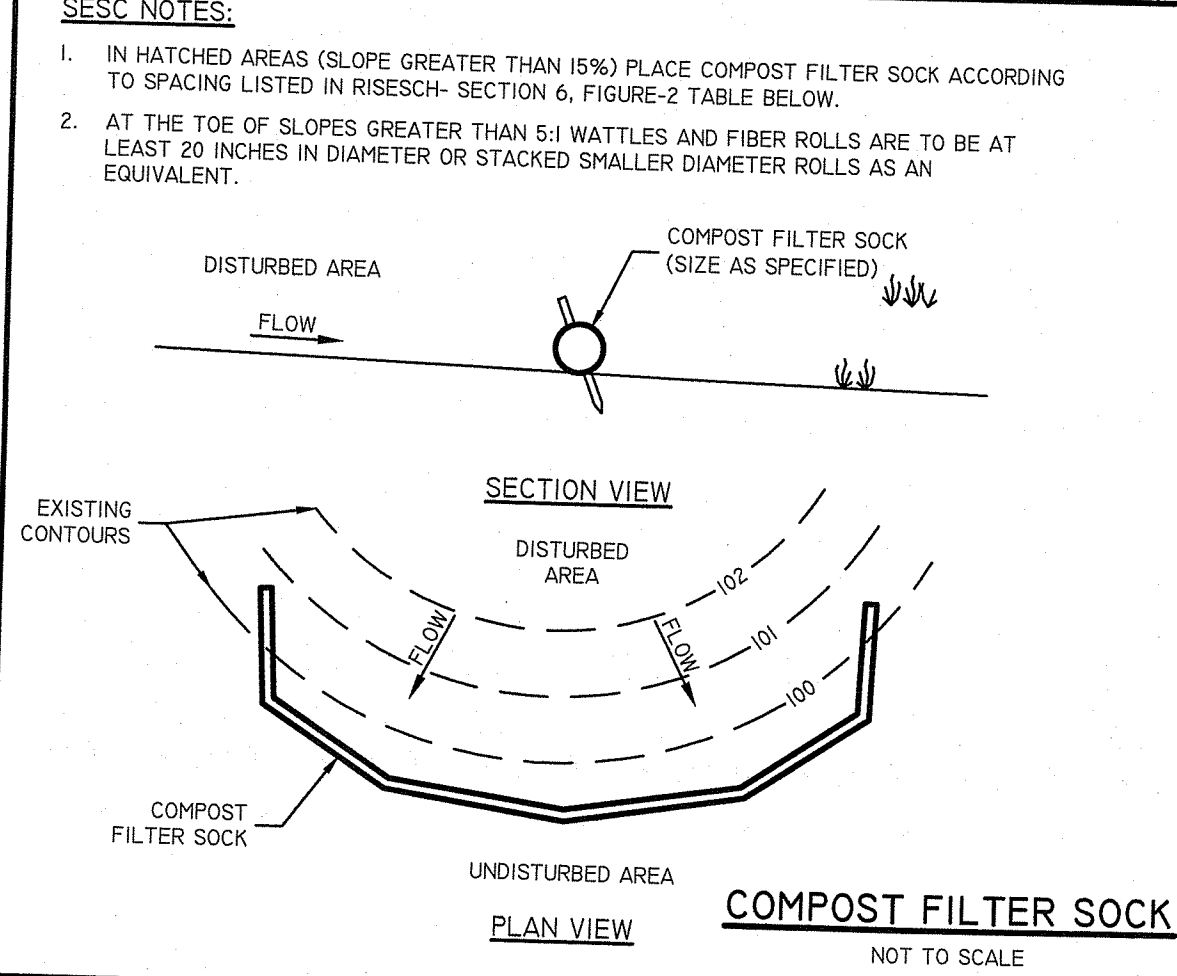
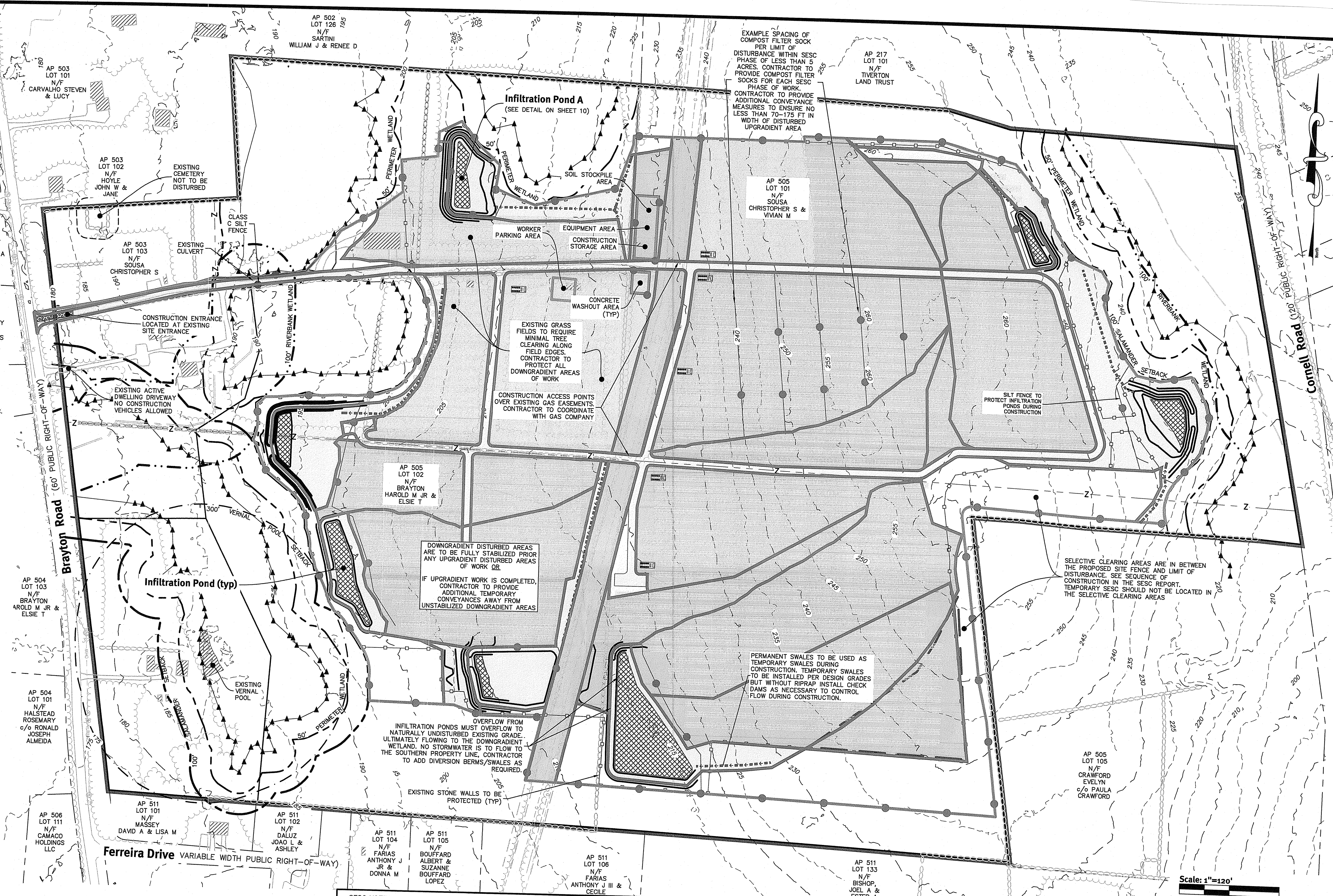
**Inspection & Maintenance:**

- ALL CLEARED AREAS MUST BE INSPECTED BY THE DESIGN ENGINEER AND/OR A REPRESENTATIVE OF HYDROGRASS TECHNOLOGIES INC. FOLLOWING EACH AND EVERY CLEARING AND STABILIZATION PHASE, AND AFTER COMPLETION OF WORKS:
- NO MORE THAN 5 DAYS AFTER THE INITIAL APPLICATION OF THE ABOVE PROTOCOL.
  - ONCE EVERY 2 WEEKS THEREAFTER, UNTIL SUITABLE, SELF-SUSTAINING GROUND COVER HAS BEEN ACHIEVED.
  - BEYOND THE FREQUENCY LISTED IN 1 AND 2 ABOVE, INSPECTIONS MUST BE UNDERTAKEN FOLLOWING RAINFALL EQUAL TO OR GREATER THAN THE 1-YEAR 24-HOUR TYPE III STORM EVENT (2.7" OF RAINFALL).
- ANY AREAS DEEMED INADEQUATE MUST BE REPAIRED AND/OR REINSTATED IMMEDIATELY, SUFFICIENT TO PREVENT DETRIMENT TO DOWNSTREAM SENSITIVE AREAS, TO THE SATISFACTION OF THE DESIGN ENGINEER/ REPRESENTATIVE OF HYDROGRASS.

**General Notes:**

- SEE SOIL EROSION AND SEDIMENTATION CONTROL NOTES ON SHEET 3.
- THESE PLANS MUST BE READ IN CONJUNCTION WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN BY DIPRETE ENGINEERING (CURRENT EDITION).
- SEDIMENT EROSION CONTROL PHASING TO MINIMIZE DISTURBANCE TO THE MAXIMUM EXTENT PRACTICABLE. SEE SOLAR SESC PROTOCOL FOR ADDITIONAL GUIDANCE.
- STAGING, STOCKPILE AND CONCRETE WASHOUT AREAS SHOWN ON THE PLANS ARE INDICATIVE ONLY. ACTUAL STAGING, STOCKPILE AND WASHOUT AREAS WILL BE DRIVEN BY CONSTRUCTION OPERATIONS AND SITE CONDITIONS, SO LONG AS THEY REMAIN COMPLIANT WITH ALL APPLICABLE REGULATIONS AND GUIDANCE DOCUMENTS.
- IF THE SOLAR SESC PROTOCOL CANNOT BE USED DUE TO SEASON OF CONSTRUCTION, CONSTRUCTION LIMITATIONS, OR OTHER FACTORS, A REVISED SESC PLAN WILL BE REQUIRED USING SEDIMENT TRAPS AND/OR SEDIMENT BASINS. EXAMPLE SEDIMENT TRAP DETAIL AND SIZING HAVE BEEN PROVIDED ON THIS SHEET.

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



**NOTES:**

- COMPOST FILTER SOCKS MUST BE USED ON SIGNIFICANT FLOW PATHS AND PLACED PARALLEL TO THE SLOPE OF THE FLOW BASED ON THE COMPOST FILTER SOCK REQUIREMENTS IN THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (2016).
- TALL GRASSES MUST BE CUT PRIOR TO INSTALLATION TO MINIMIZE POTENTIAL FOR UNDERCUTTING. COMPOST FILTER SOCKS MUST BE NETTED OR OTHERWISE ANCHORED AFTER INSTALLATION.
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE SOCK.
- ANY SECTION OF COMPOST FILTER SOCK WHICH HAVE BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED. CONCENTRATED FLOWS MUST NOT BE DIRECTED TOWARDS ANY COMPOST FILTER SOCK.
- CONTRACTOR MUST FIELD ADJUST FILTER SOCKS AS NECESSARY. CERTAIN AREAS MAY BE OMITTED AS NECESSARY OR ADDITIONAL MEASURES ADDED BASED ON FIELD CONDITIONS.
- CONTRACTOR TO MODIFY FILTER SOCK CONDITIONS AS SITE GRADING IS REVISED. FILTER SOCKS MUST BE IN PLACE WHEN A RAINFALL GREATER THAN 0.25" IS EXPECTED.
- FILTER BERMS MAY BE SUBSTITUTED WITH COMPOST FILTER SOCKS PER THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK OF SILT FENCE.

**Soil Erosion Control Legend:**

EROSION CONTROL (COMPOST SOCK, SILT FENCE (RI STD 9.2.0) OR APPROVED EQUAL)	LIMIT OF DISTURBANCE (NO SEDIMENT CONTROL)
CLASS C SILT FENCE	LIMIT OF DISTURBANCE (WITH SEDIMENT CONTROL)
CONSTRUCTION ENTRANCE (RIDOT STD 9.9.0)	SESC PHASE AREA (< 5 ACRES (MAX))

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED 01/28/2021 FILE # 20-0398  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature: [Signature]*

Environmental Management  
JUN 03 2021  
Office of Water Resources

**General Notes:**

- ALL EXISTING TOPSOIL MUST REMAIN ON SITE.
- SOIL STOCKPILES, EQUIPMENT STAGING AND CONCRETE WASHOUT AREAS MUST BE SURROUNDED BY EROSION CONTROL AS NOTED ABOVE.

Note: This Plan Must Be Reproduced In Color

**Diprete Engineering**  
90 Broadway, Newport, RI 02840

**BRIAN C. GARDNER**  
REGIONAL PROFESSIONAL CIVIL ENGINEER

**Soil Erosion & Sediment Control Plan**  
**Brayton Road Solar**  
AP 503 Lot 103 & AP 505 Lots 101 and 102  
Tiverton, Rhode Island 02878

**RI Solar Renewable Energy, IV, LLC**

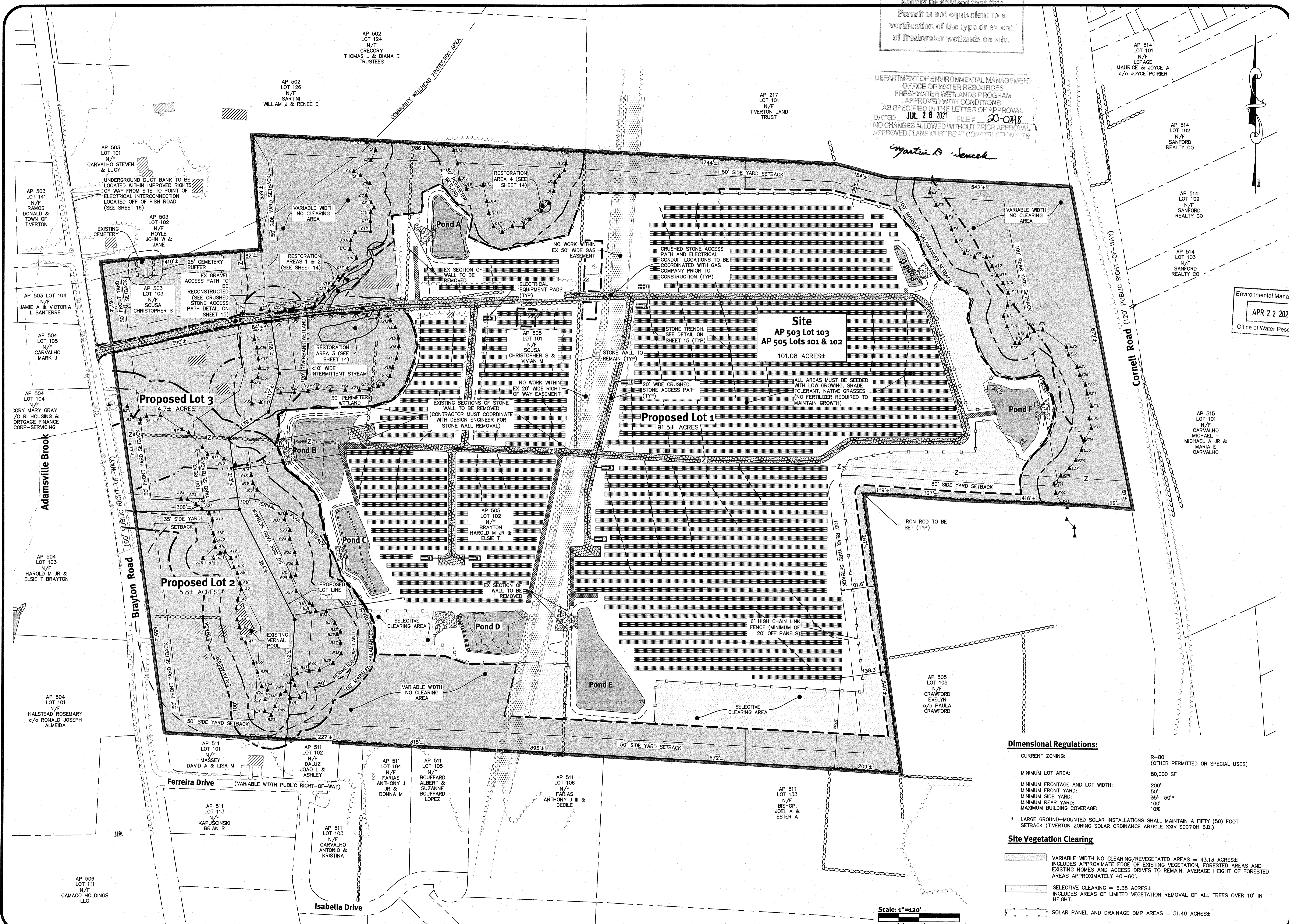
Prepared For: [Client Name]

SHEET 6 OF 1

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JUL 28 2021 FILE # 20-0318  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martin D. Senack*



Environmental Management  
APR 22 2021  
Office of Water Resources

BRIAN C. GIBSON  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

This plan was prepared for use for construction purposes unless stated otherwise. It is not to be used for any other purpose without the written consent of DiPrete Engineering. DiPrete Engineering only warrants plans on a DiPrete Engineering title block stamped by a registered Professional Engineer of DiPrete Engineering. The contractor is responsible for all other codes, methods, safety precautions and requirements, and OSHA compliance in the field.

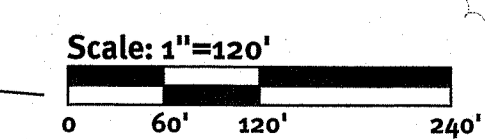
NO.	DATE	DESCRIPTION
1	04/22/2021	REVISION (Preliminary Determination)
2	04/22/2021	REVISION (Submittal)
3	04/22/2021	REVISION (Final)

**Dimensional Regulations:**

- CURRENT ZONING: R-80 (OTHER PERMITTED OR SPECIAL USES)
- MINIMUM LOT AREA: 80,000 SF
- MINIMUM FRONTAGE AND LOT WIDTH: 200'
- MINIMUM FRONT YARD: 50'
- MINIMUM SIDE YARD: 36'-50"
- MINIMUM REAR YARD: 100'
- MAXIMUM BUILDING COVERAGE: 10%
- \* LARGE GROUND-MOUNTED SOLAR INSTALLATIONS SHALL MAINTAIN A FIFTY (50) FOOT SETBACK (TIVERTON ZONING SOLAR ORDINANCE ARTICLE XXIV SECTION 5.B.)

**Site Vegetation Clearing**

- VARIABLE WIDTH NO CLEARING/REVEGETATED AREAS = 43.13 ACRES±  
INCLUDES APPROXIMATE EDGE OF EXISTING VEGETATION, FORESTED AREAS AND EXISTING HOMES AND ACCESS DRIVES TO REMAIN. AVERAGE HEIGHT OF FORESTED AREAS APPROXIMATELY 40'-60'.
- SELECTIVE CLEARING = 6.38 ACRES±  
INCLUDES AREAS OF LIMITED VEGETATION REMOVAL OF ALL TREES OVER 10' IN HEIGHT.
- SOLAR PANEL AND DRAINAGE BMP AREAS = 51.49 ACRES±



Overall Site Layout Plan  
Brayton Road Solar  
AP 503 Lot 103 & AP 505 Lots 101 and 102  
Tiverton, Rhode Island 02878

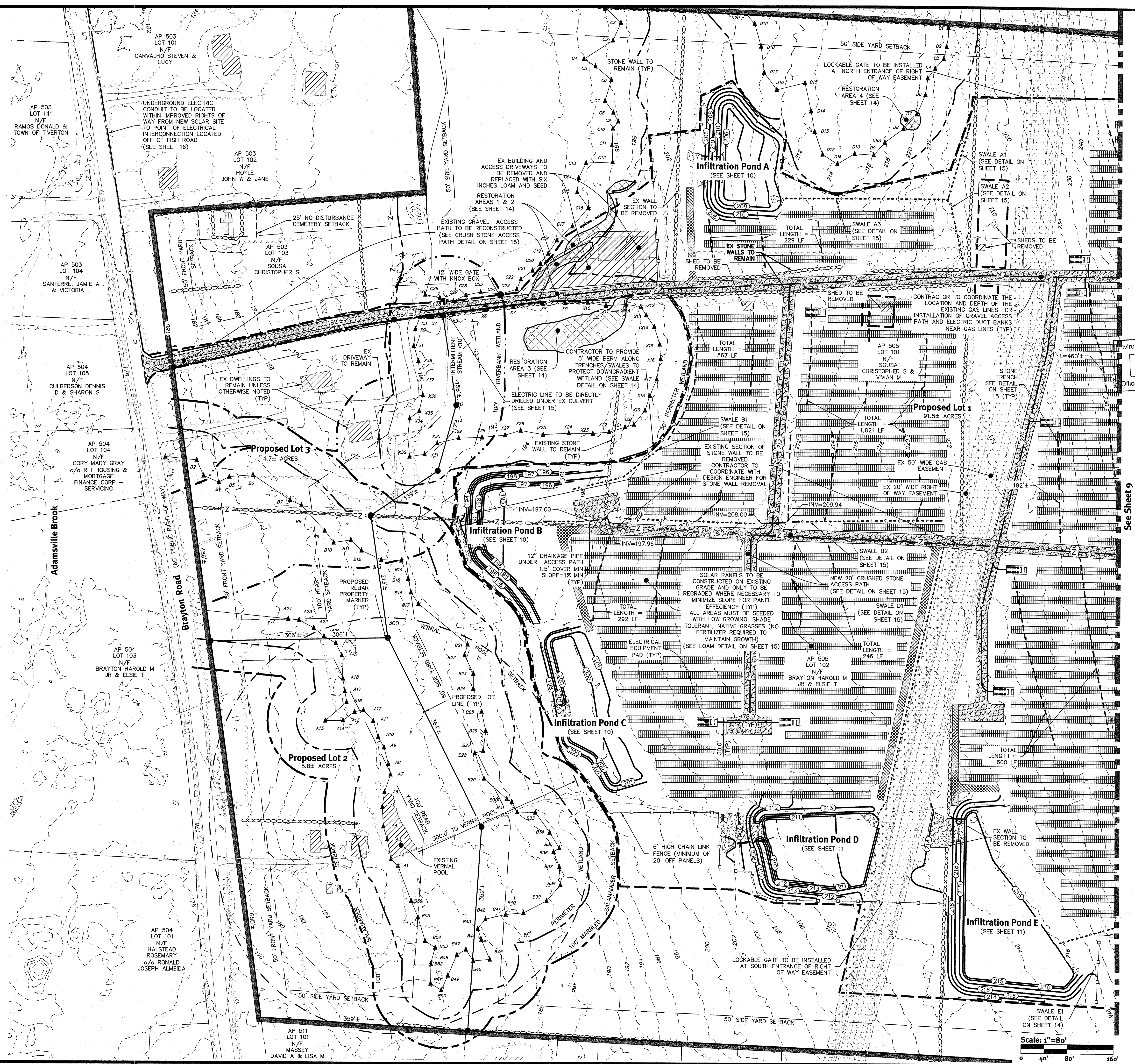
Z:\domain\projects\462-007\brayton\_road\_solar\autocad\drawings\462-007-plan.dwg Plotdate: 4/22/2021

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED 04 28 2021 FILE # 20-0218  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martina D. Wencsek*

AP 504 LOT 101  
N/F  
HALSTEAD ROSEMARY  
c/o RONALD JOSEPH ALMEIDA



Scale: 1"=80'  
0 40' 80' 160'

See Sheet 9

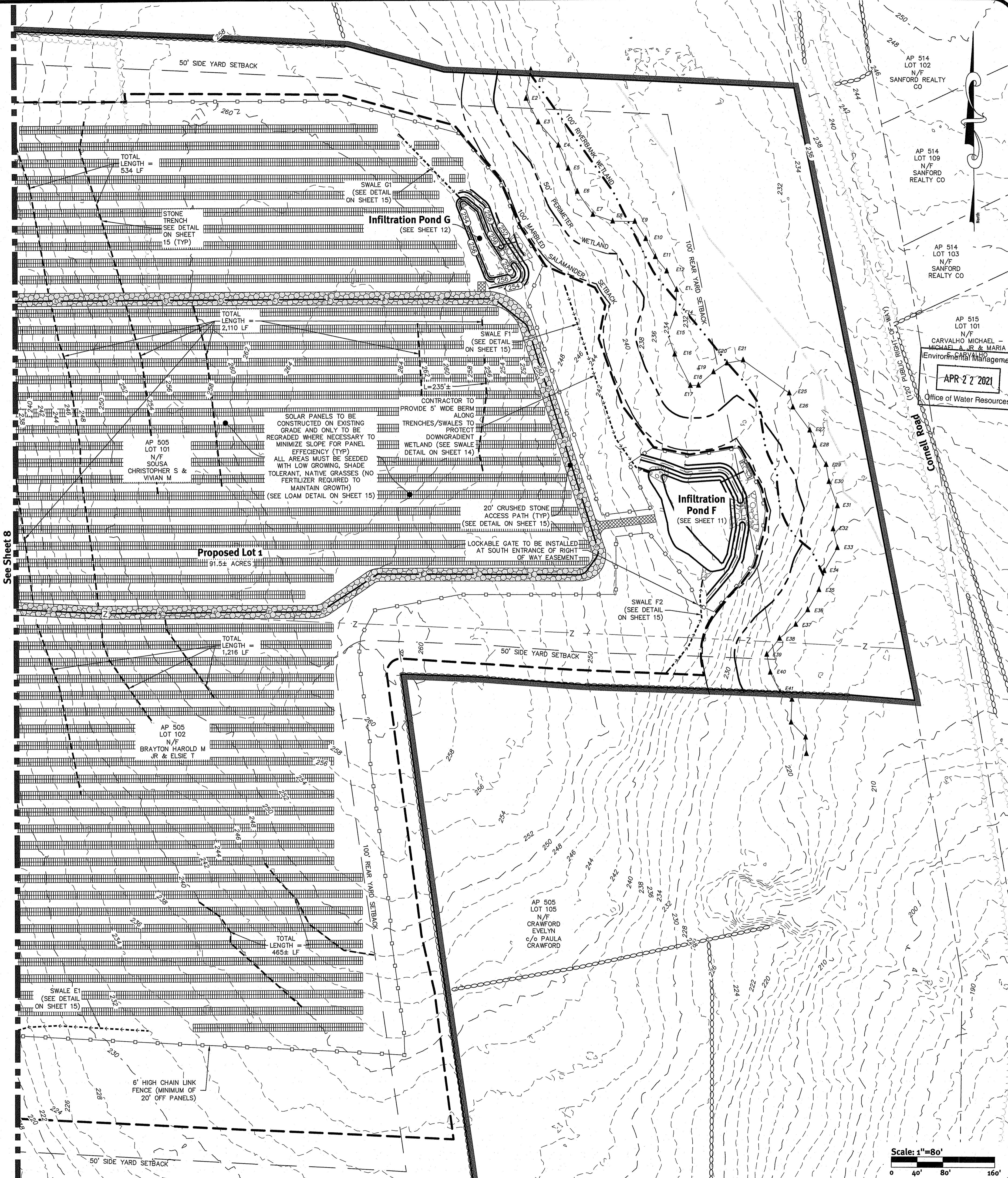
**DiPrete Engineering**  
90 Broadway Newport, RI 02840  
Tel: 401-593-8390 Fax: 401-464-6066 www.diprete-eng.com

**BRIAN C. GIROUX**  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

This plan set must not be used for construction purposes unless stamped "Issued for Construction" and stamped by a registered Professional Engineer of DiPrete Engineering.  
DiPrete Engineering only warrants plans on a DiPrete Engineering stamp. DiPrete Engineering does not warrant plans by any other party.  
The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the implementation of this plan set design.

NO.	DATE	DESCRIPTION	BY	CHKD.
1	04/22/2021	FINAL SUBMISSION	MB	MB
2	04/22/2021	RIEHA SUBMISSION	MB	MB
3	05/05/2020	RIEHA SUBMISSION	MB	MB
4	05/05/2020	RIEHA SUBMISSION	MB	MB

**Site Plan - 1**  
**Brayton Road Solar**  
AP 503 Lot 103 & AP 504 Lots 101 and 102  
Thorton, Rhode Island 02878  
Prepared For:  
**RI Solar Renewable Energy IV, LLC**



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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUL 28 2021 FILE # 20-0398  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Matthew D. Wenczek*

Scale: 1"=80'  
 0 40' 80' 160'

z:\demain\projects\1482-007 brayton road solar\autocad drawings\1482-007-plan.dwg Plotter: 4/22/2021

**Diprete Engineering**  
 90 Broadway Newport, RI 02840  
 Tel: 401-619-5800 Fax: 401-619-5006 www.diprete-eng.com

**BRIAN C. GIRA**  
 Environmental Management  
 APR 27 2021  
 Office of Water Resources  
 REGISTERED PROFESSIONAL ENGINEER CIVIL

This plan was prepared by a registered professional engineer who is duly licensed in the State of Rhode Island and is stamped and sealed for construction and stamped by a registered Professional Engineer of Diprete Engineering.  
 Diprete Engineering only warrants plans on a Diprete Engineering title block stamped by registered Professional Engineer of Diprete Engineering. Diprete Engineering does not warrant plans by any other party.  
 The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the

NO.	DATE	DESCRIPTION
1	04-19-2021	PRELIMINARY DETERMINATION
2	11-04-2020	REVISION SUBMISSION

**Site Plan - 2**  
**Brayton Road Solar**  
 AP 505 Lot 103 & AP 505 Lots 101 and 102  
 Tiverton, Rhode Island 02878  
 Prepared For:

Be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

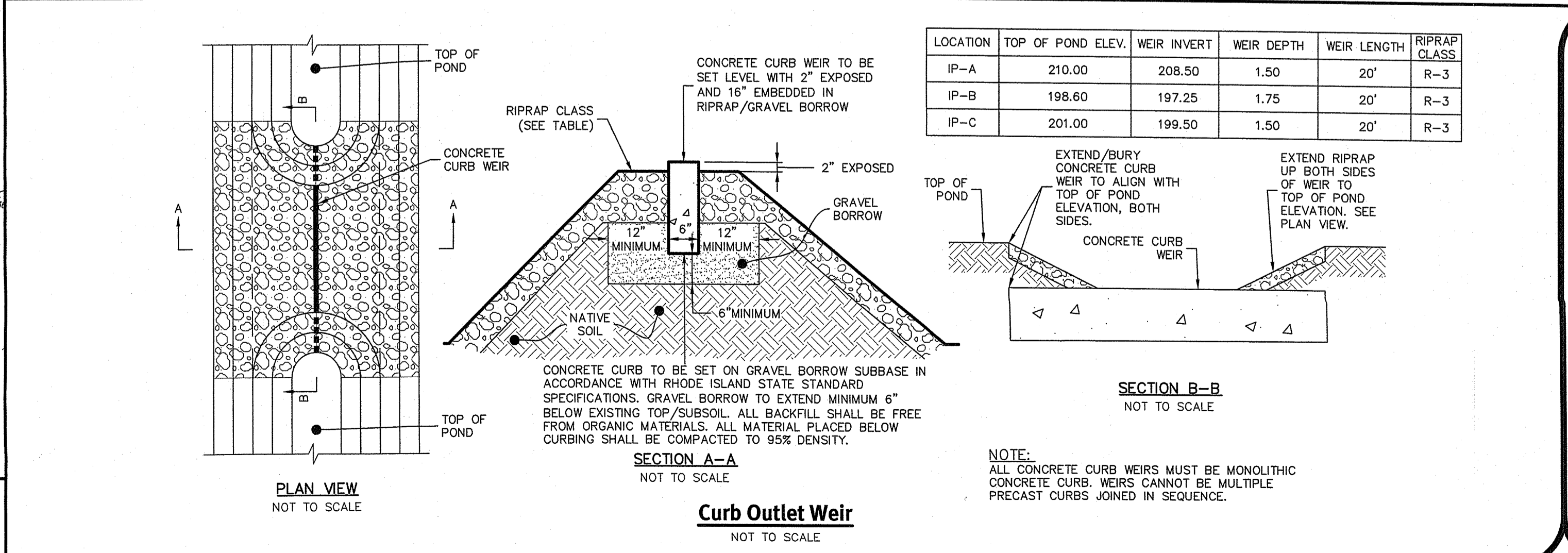
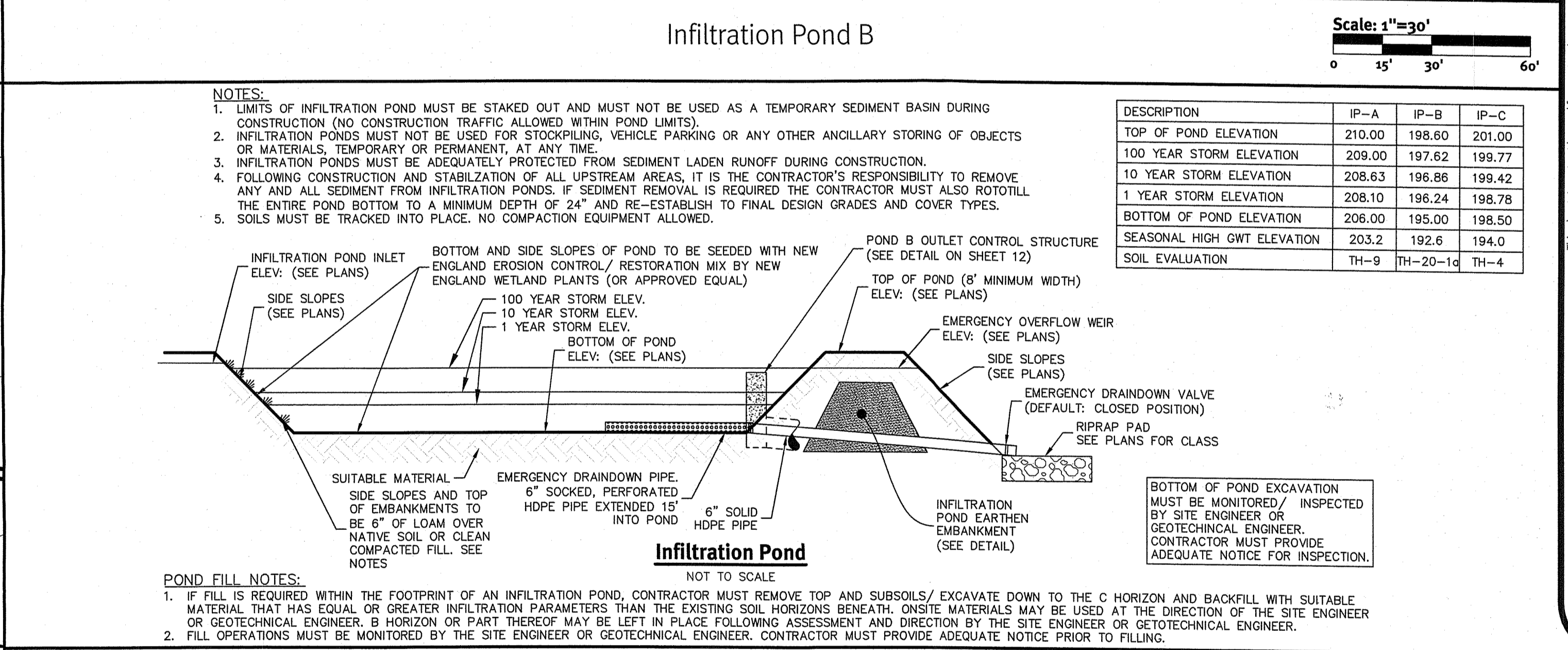
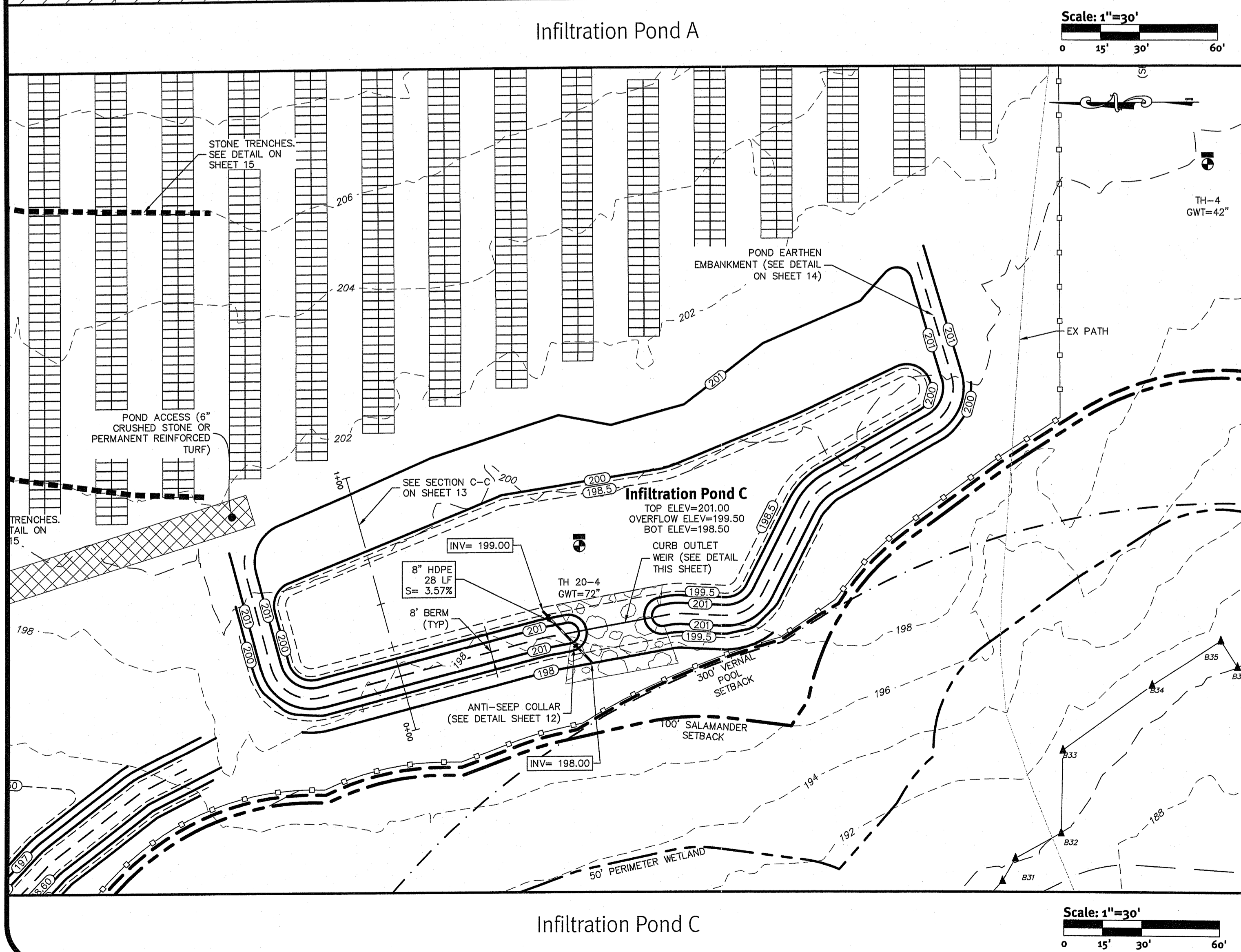
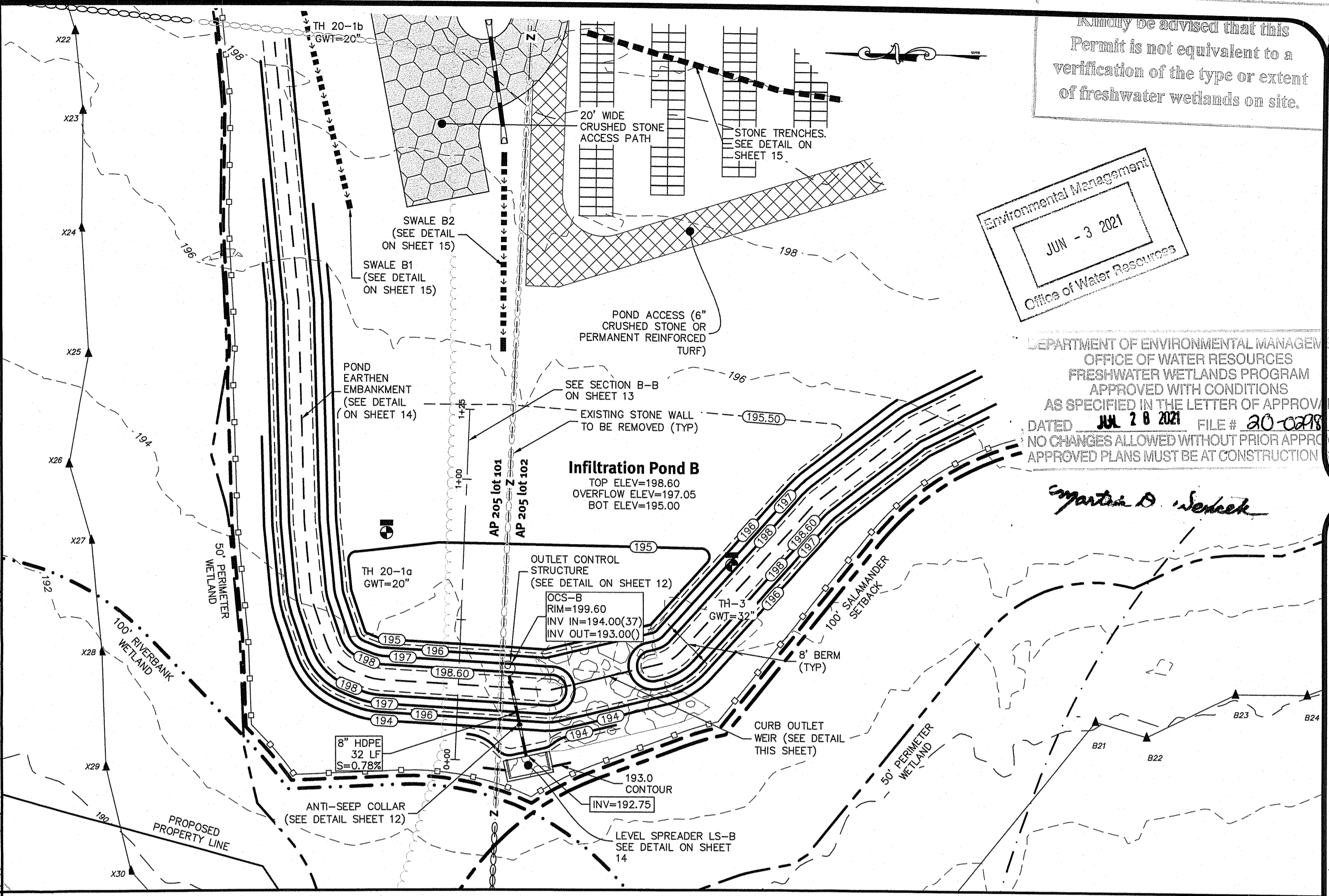
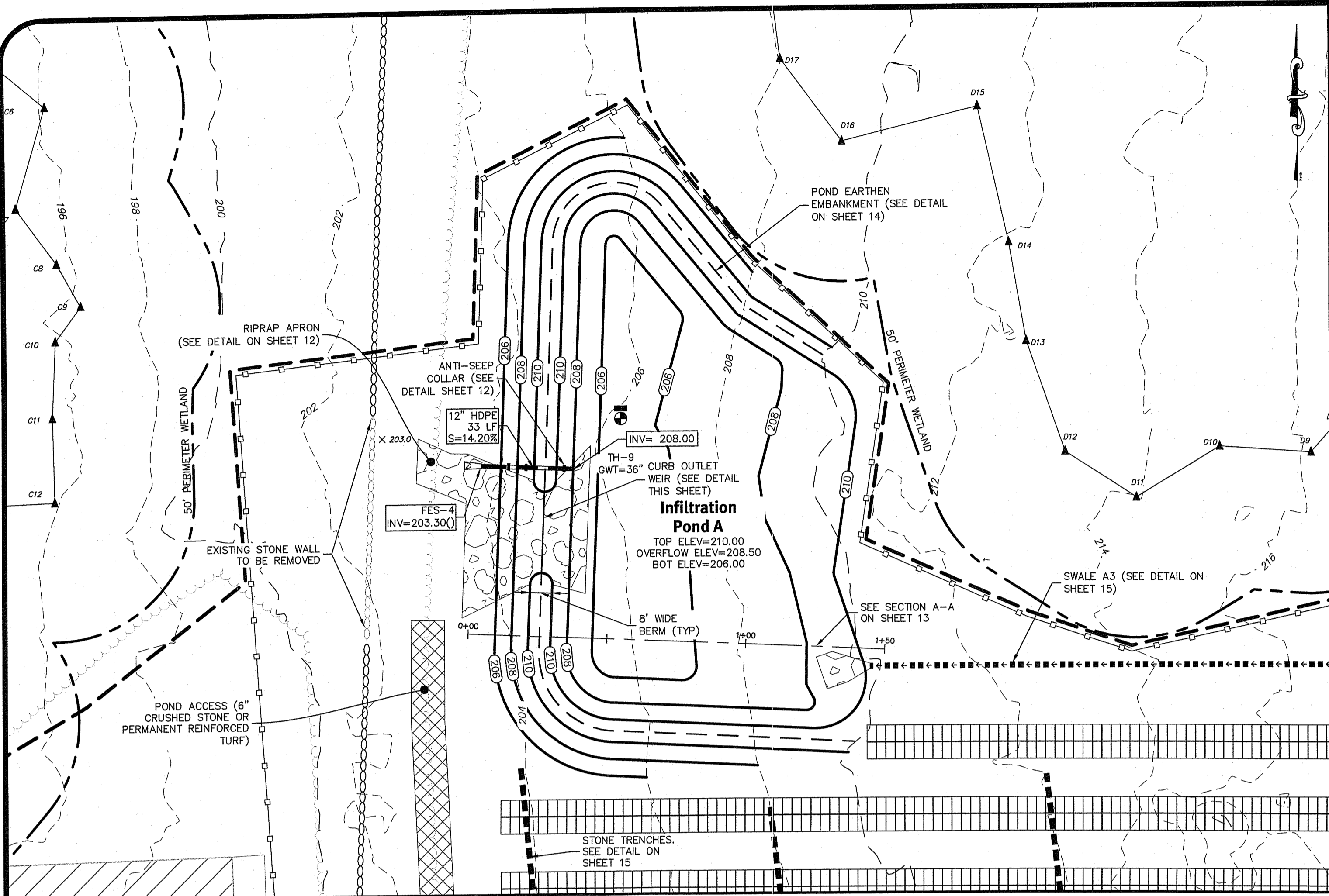
Environmental Management  
 JUN - 3 2021  
 Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUL 28 2021 FILE # 20-0028  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION

*Matthew D. Senack*

**Diprete Engineering**  
 90 Broadway Newport, RI 02840  
 Tel: 401-619-5890 Fax: 401-644-6006 www.diprete-eng.com

**BRIAN C. GROU**  
 934  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL



z:\Main\projects\3482.007-brayton-road-solar\autocad\drawings\3482.007-bmp.dwg: Plate# 6/17/2021

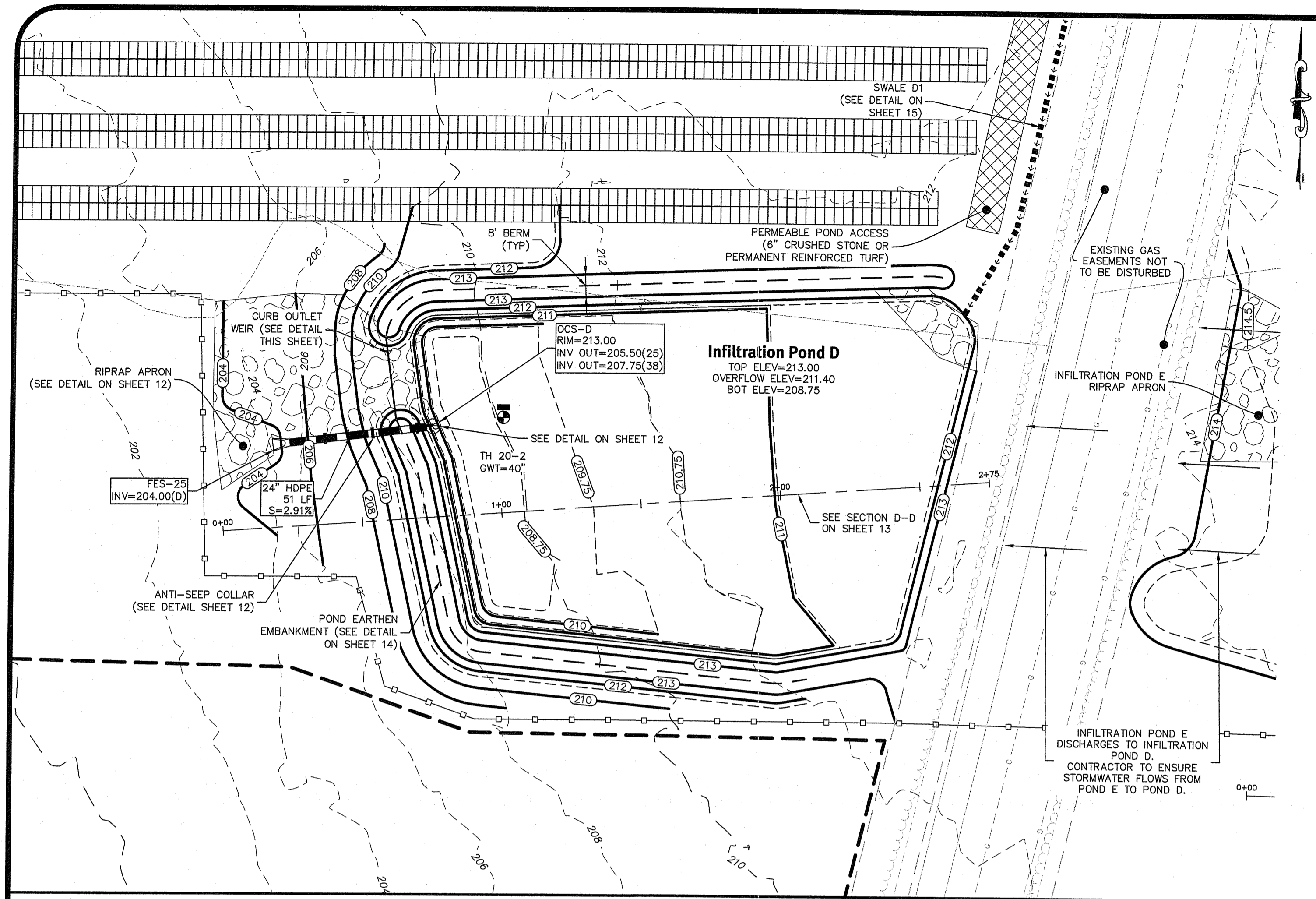
This plan set must not be used for construction purposes unless stamped, issued for construction and stamped by a registered Professional Engineer at Diprete Engineering.

Diprete Engineering only warrants plans on a Diprete Engineering stamp. Diprete Engineering does not warrant plans by any other party.

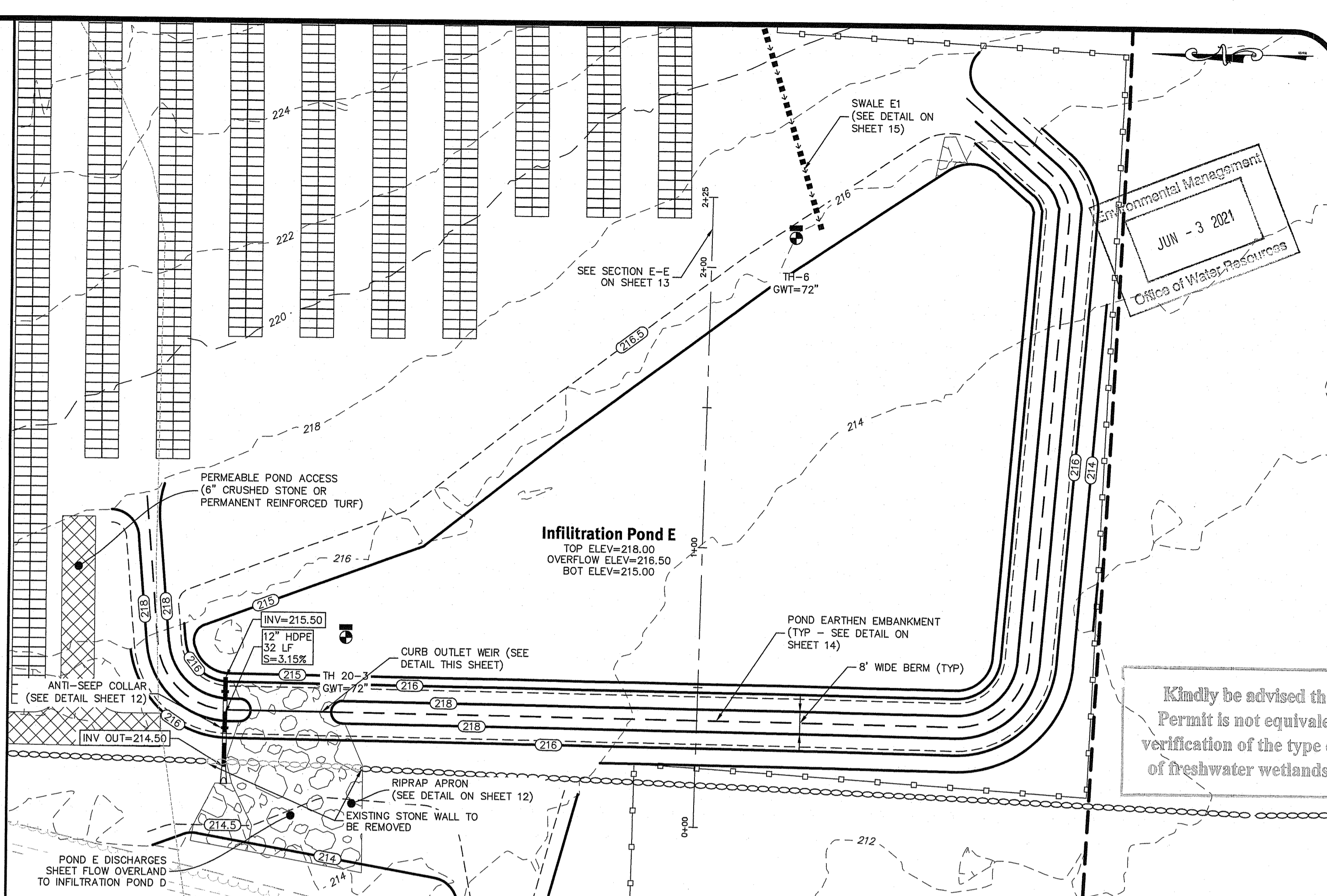
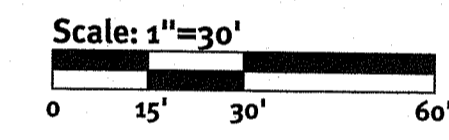
The contractor is responsible for all of the means, methods, safety and implementation of this plan set.

**Pond Details - A, B & C**  
**Brayton Road Solar**  
 AP-293 Lot 03 & AP-595 Lots 10 and 102  
 Pawtucket, Rhode Island 02878

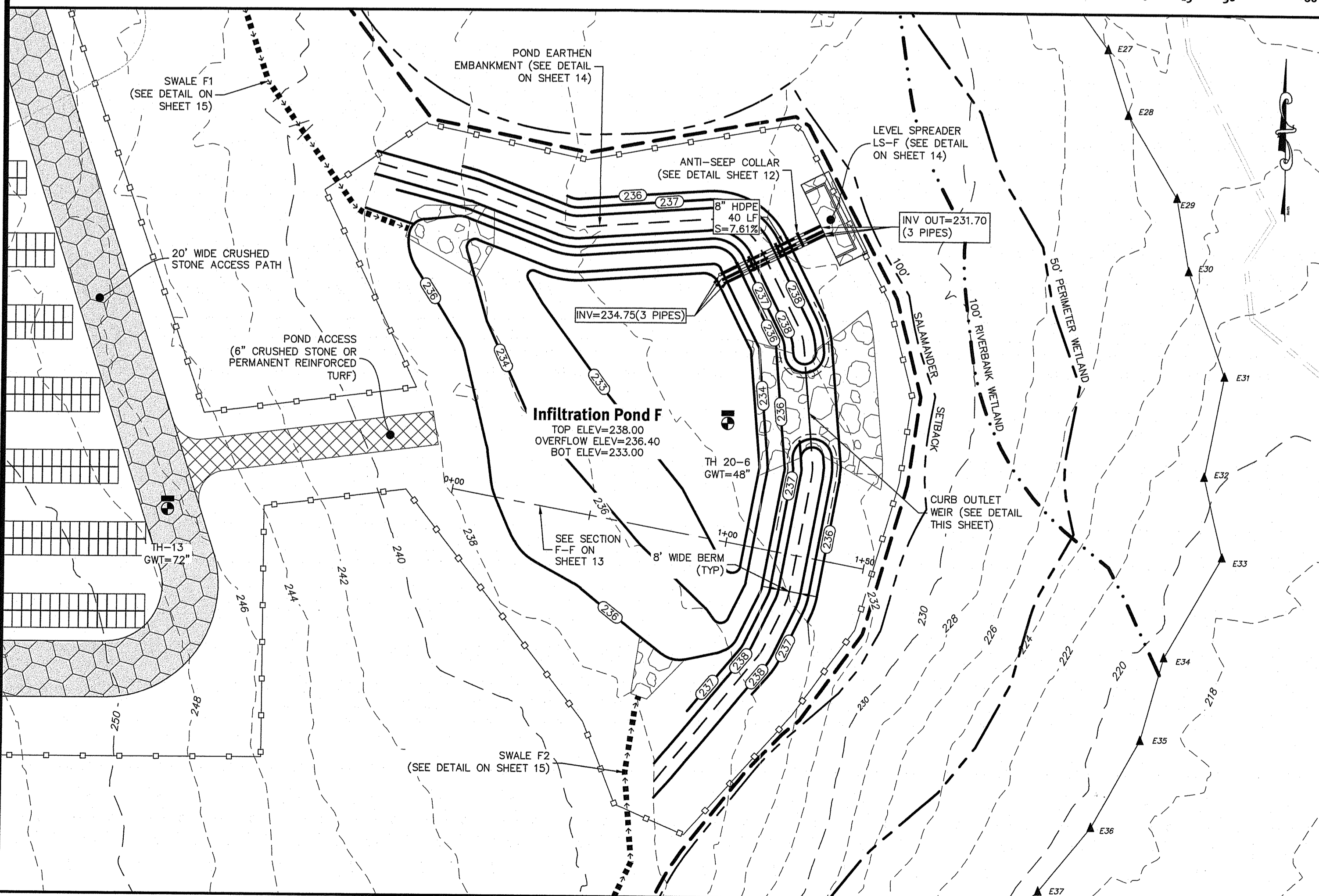
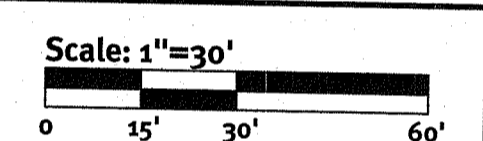
**RI Solar Renewable Energy IV, LLC**



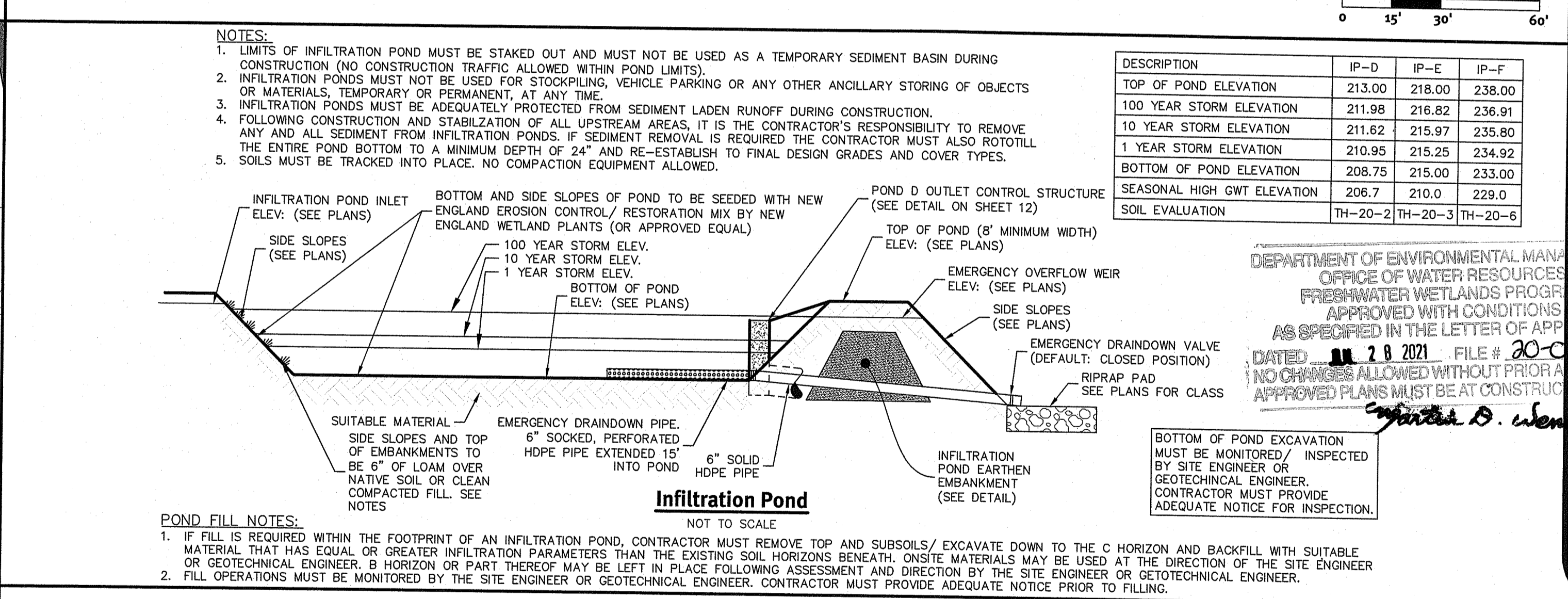
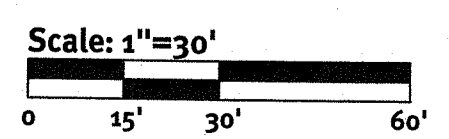
Infiltration Pond D



Infiltration Pond E



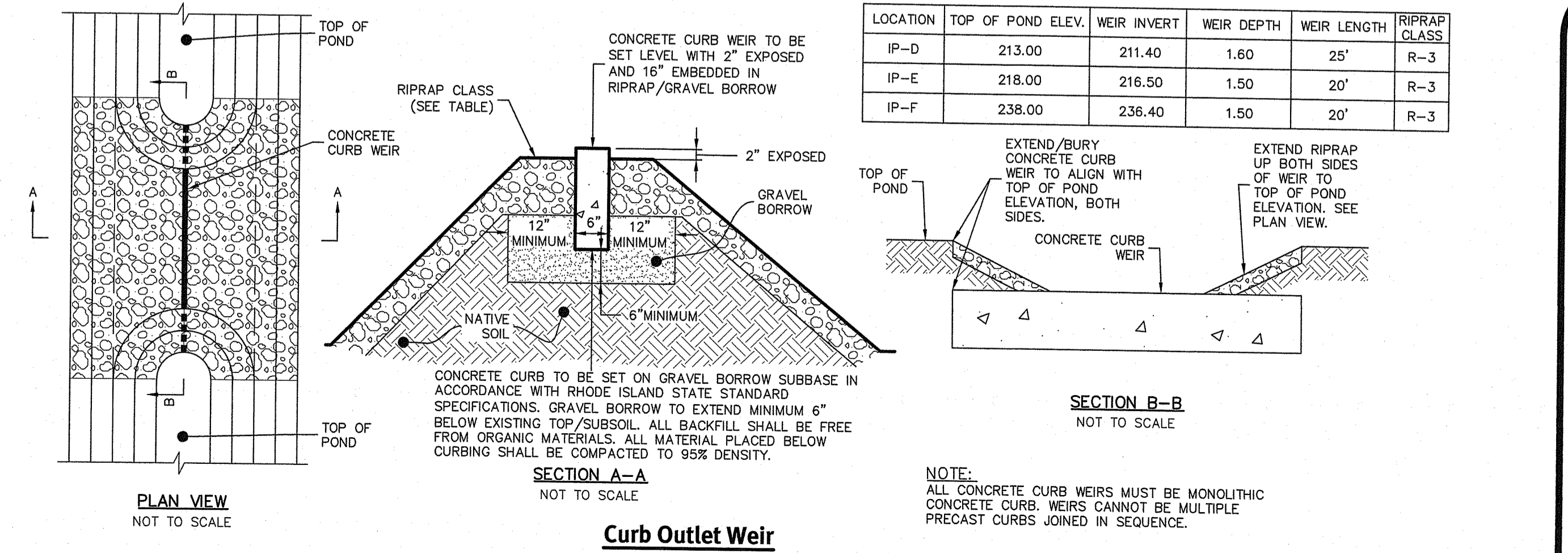
Infiltration Pond F



- NOTES:**
- LIMITS OF INFILTRATION POND MUST BE STAKED OUT AND MUST NOT BE USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN POND LIMITS).
  - INFILTRATION PONDS MUST NOT BE USED FOR STOCKPILING, VEHICLE PARKING OR ANY OTHER ANCILLARY STORING OF OBJECTS OR MATERIALS, TEMPORARY OR PERMANENT, AT ANY TIME.
  - INFILTRATION PONDS MUST BE ADEQUATELY PROTECTED FROM SEDIMENT LADEN RUNOFF DURING CONSTRUCTION.
  - FOLLOWING CONSTRUCTION AND STABILIZATION OF ALL UPSTREAM AREAS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY AND ALL SEDIMENT FROM INFILTRATION PONDS. IF SEDIMENT REMOVAL IS REQUIRED THE CONTRACTOR MUST ALSO ROTOTILL THE ENTIRE POND BOTTOM TO A MINIMUM DEPTH OF 24" AND RE-ESTABLISH TO FINAL DESIGN GRADES AND COVER TYPES.
  - SOILS MUST BE TRACKED INTO PLACE. NO COMPACTION EQUIPMENT ALLOWED.

DESCRIPTION	IP-D	IP-E	IP-F
TOP OF POND ELEVATION	213.00	218.00	238.00
100 YEAR STORM ELEVATION	211.98	216.82	236.91
10 YEAR STORM ELEVATION	211.62	215.97	235.80
1 YEAR STORM ELEVATION	210.95	215.25	234.92
BOTTOM OF POND ELEVATION	208.75	215.00	233.00
SEASONAL HIGH GWT ELEVATION	206.7	210.0	229.0
SOIL EVALUATION	TH-20-2	TH-20-3	TH-20-6

- POND FILL NOTES:**
- IF FILL IS REQUIRED WITHIN THE FOOTPRINT OF AN INFILTRATION POND, CONTRACTOR MUST REMOVE TOP AND SUBSOILS/ EXCAVATE DOWN TO THE C HORIZON AND BACKFILL WITH SUITABLE MATERIAL THAT HAS EQUAL OR GREATER INFILTRATION PARAMETERS THAN THE EXISTING SOIL HORIZONS BENEATH. ONSITE MATERIALS MAY BE USED AT THE DIRECTION OF THE SITE ENGINEER OR GEOTECHNICAL ENGINEER. B HORIZON OR PART THEREOF MAY BE LEFT IN PLACE FOLLOWING ASSESSMENT AND DIRECTION BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
  - FILL OPERATIONS MUST BE MONITORED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER. CONTRACTOR MUST PROVIDE ADEQUATE NOTICE PRIOR TO FILLING.



LOCATION	TOP OF POND ELEV.	WEIR INVERT	WEIR DEPTH	WEIR LENGTH	RIPRAP CLASS
IP-D	213.00	211.40	1.60	25'	R-3
IP-E	218.00	216.50	1.50	20'	R-3
IP-F	238.00	236.40	1.50	20'	R-3

**NOTE:**  
ALL CONCRETE CURB WEIRS MUST BE MONOLITHIC CONCRETE CURB WEIRS CANNOT BE MULTIPLE PRECAST CURBS JOINED IN SEQUENCE.

Kindly be advised that a permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

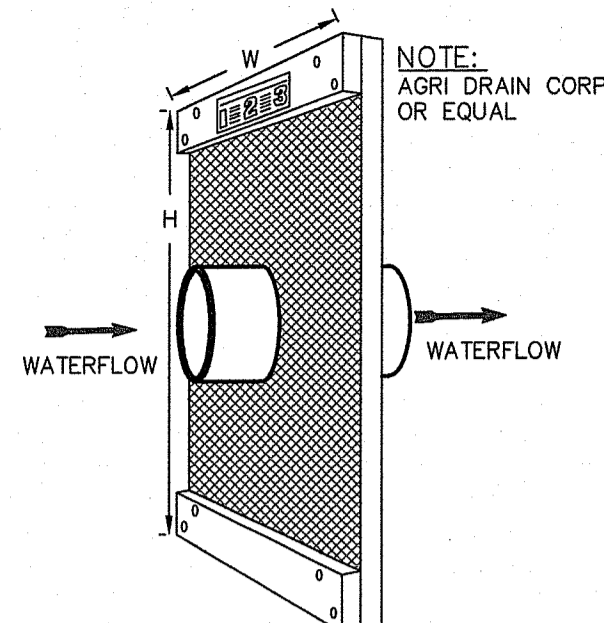
**INSTALLATION NOTES:**  
 1. UNROLL THE ANTI-SEEP COLLAR AND ALIGN THE BOARDS TO FORM A SQUARE. ATTACH METAL BRACKETS TO THE CORNER OF THE BOARDS WITH THE SCREWS PROVIDED. ATTACH THE RUBBER TO THE FRAME WITH THE NAILS PROVIDED.

2. CUT A ROUND HOLE IN THE CENTER OF THE RUBBER THAT IS SMALLER THAN THE PIPE SIZE (APPROX. 3/32" SMALLER). THIS WILL ALLOW THE RUBBER TO STRETCH OVER THE PIPE WHEN THE ANTI-SEEP IS INSTALLED ON THE PIPE. THIS WILL PROVIDE A TIGHT SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. NOTE: CUTTING AN "X" OR SLIT WILL CAUSE THE RUBBER TO TEAR.

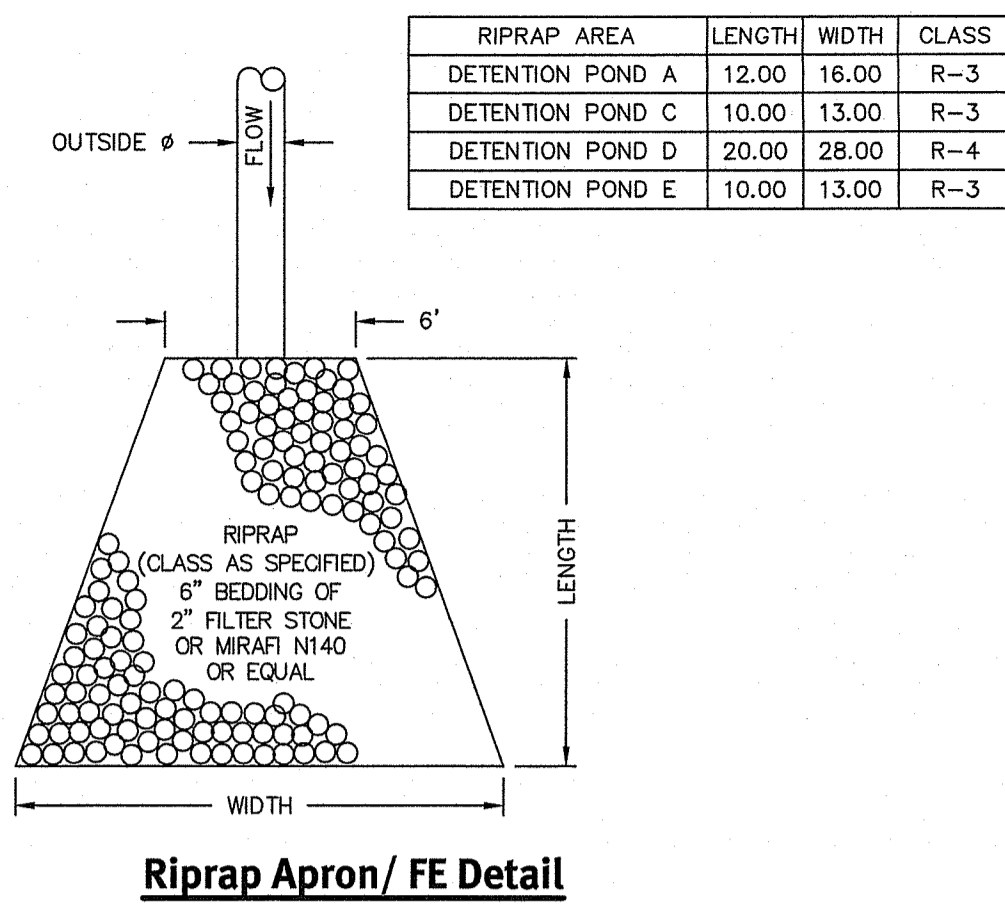
3. SUP THE PIPE THROUGH THE ANTI-SEEP COLLAR. INSPECT THE SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. CAREFULLY BACKFILL AND COMPACT WITH SUITABLE SOIL.

**CAUTION:**  
 EXCESSIVE COMPACTION OR DOWNWARD PRESSURE ON FRAME WILL CAUSE RUBBER TO STRETCH AND DISTORT, RESULTING IN LOSS OF SEAL BETWEEN RUBBER AND PIPE.

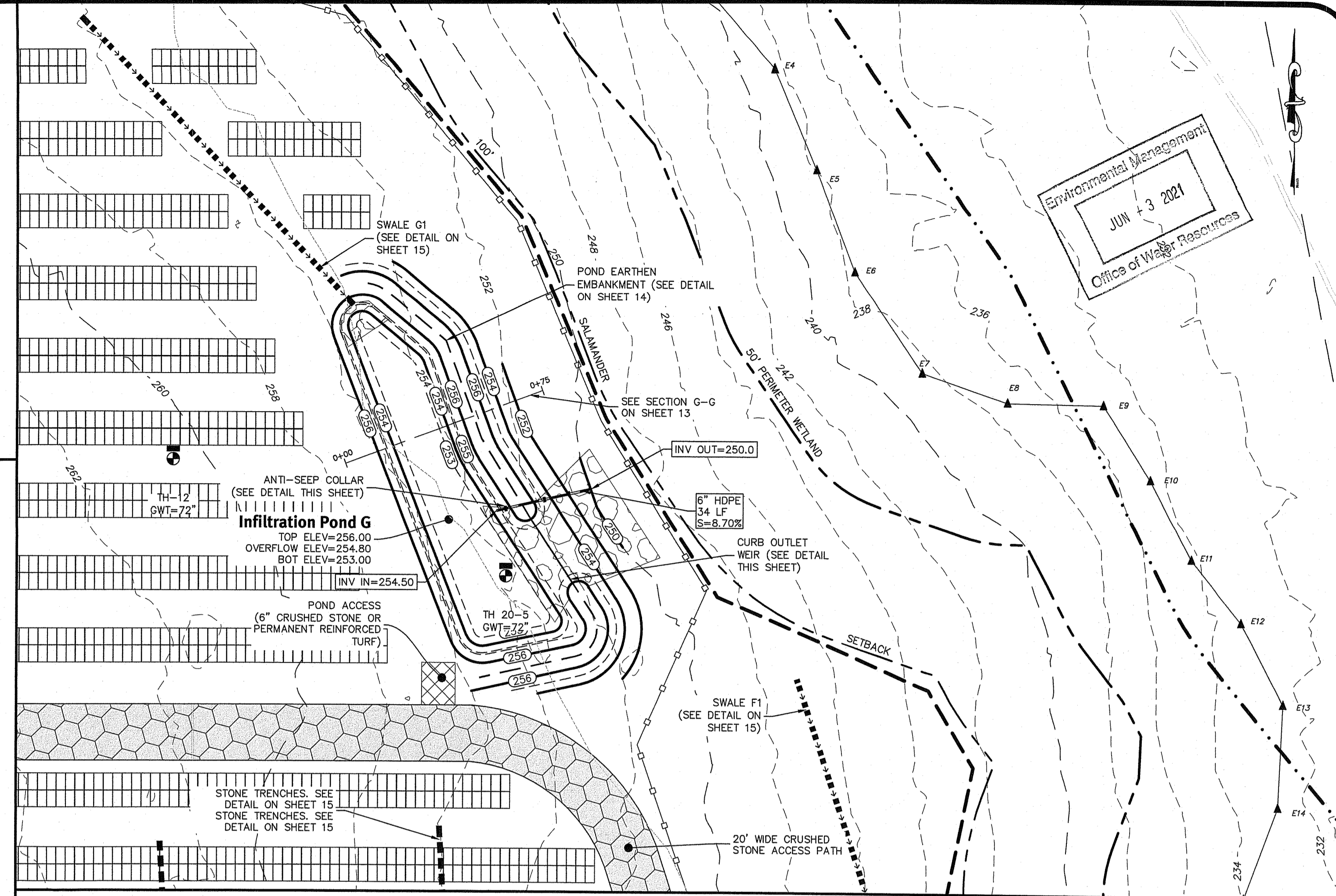
**Anti-Seep Collar**  
 NOT TO SCALE



LOCATION	WIDTH	HEIGHT	QUANTITY
IP-A	3.0'	3.0'	3
IP-B	2.0'	2.0'	2
IP-C	2.0'	2.0'	2
IP-D	3.0'	3.0'	3
IP-E	2.0'	2.0'	2
IP-F	3.0'	3.0'	5
IP-G	2.0'	2.0'	3



**Riprap Apron/ FE Detail**  
 NOT TO SCALE



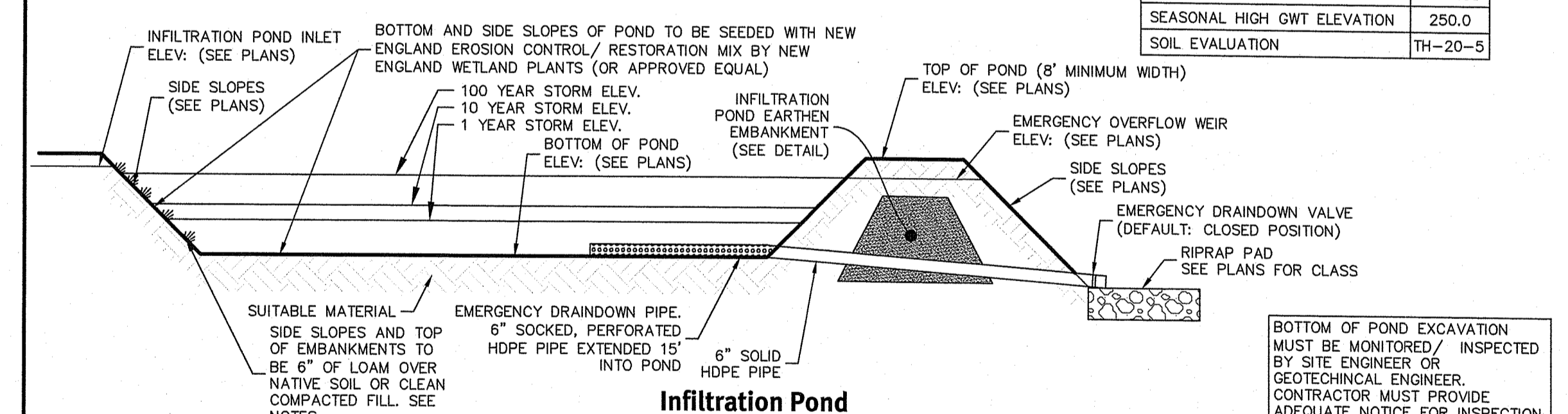
**Infiltration Pond G**

Scale: 1"=30'  
 0 15' 30' 60'

**NOTES:**

- LIMITS OF INFILTRATION POND MUST BE STAKED OUT AND MUST NOT BE USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN POND LIMITS).
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- SOILS MUST BE TRACKED INTO PLACE. NO COMPACTION EQUIPMENT ALLOWED.

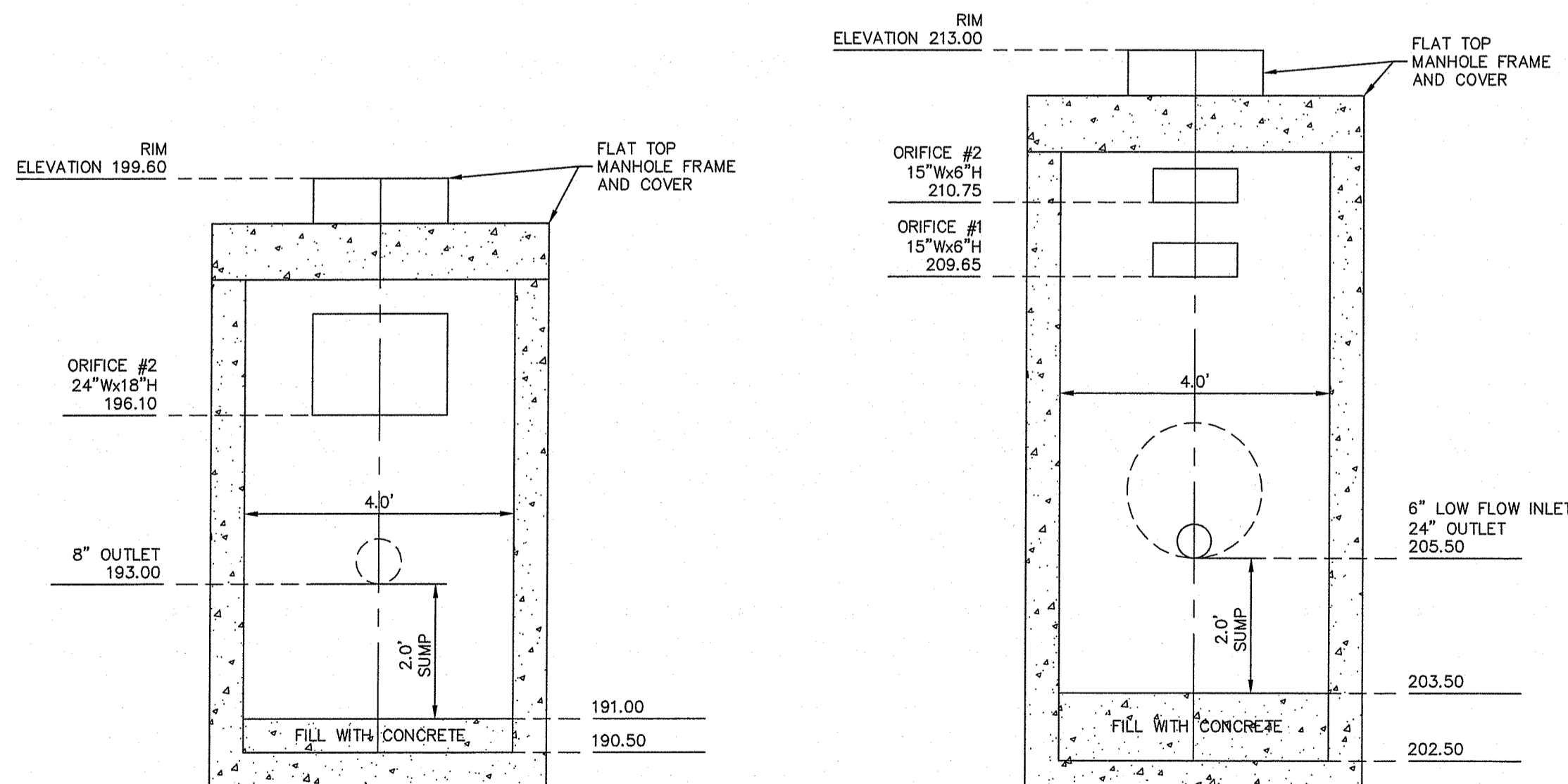
DESCRIPTION	IP-G
TOP OF POND ELEVATION	256.00
100 YEAR STORM ELEVATION	254.97
10 YEAR STORM ELEVATION	254.68
1 YEAR STORM ELEVATION	253.57
BOTTOM OF POND ELEVATION	253.00
SEASONAL HIGH GWT ELEVATION	250.00
SOIL EVALUATION	TH-20-5



**Infiltration Pond**  
 NOT TO SCALE

**POND FILL NOTES:**

- IF FILL IS REQUIRED WITHIN THE FOOTPRINT OF AN INFILTRATION POND, CONTRACTOR MUST REMOVE TOP AND SUBSOILS/ EXCAVATE DOWN TO THE C HORIZON AND BACKFILL WITH SUITABLE MATERIAL THAT HAS EQUAL OR GREATER INFILTRATION PARAMETERS THAN THE EXISTING SOIL HORIZONS BENEATH. ON-SITE MATERIALS MAY BE USED AT THE DIRECTION OF THE SITE ENGINEER OR GEOTECHNICAL ENGINEER. B HORIZON OR PART THEREOF MAY BE LEFT IN PLACE FOLLOWING ASSESSMENT AND DIRECTION BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
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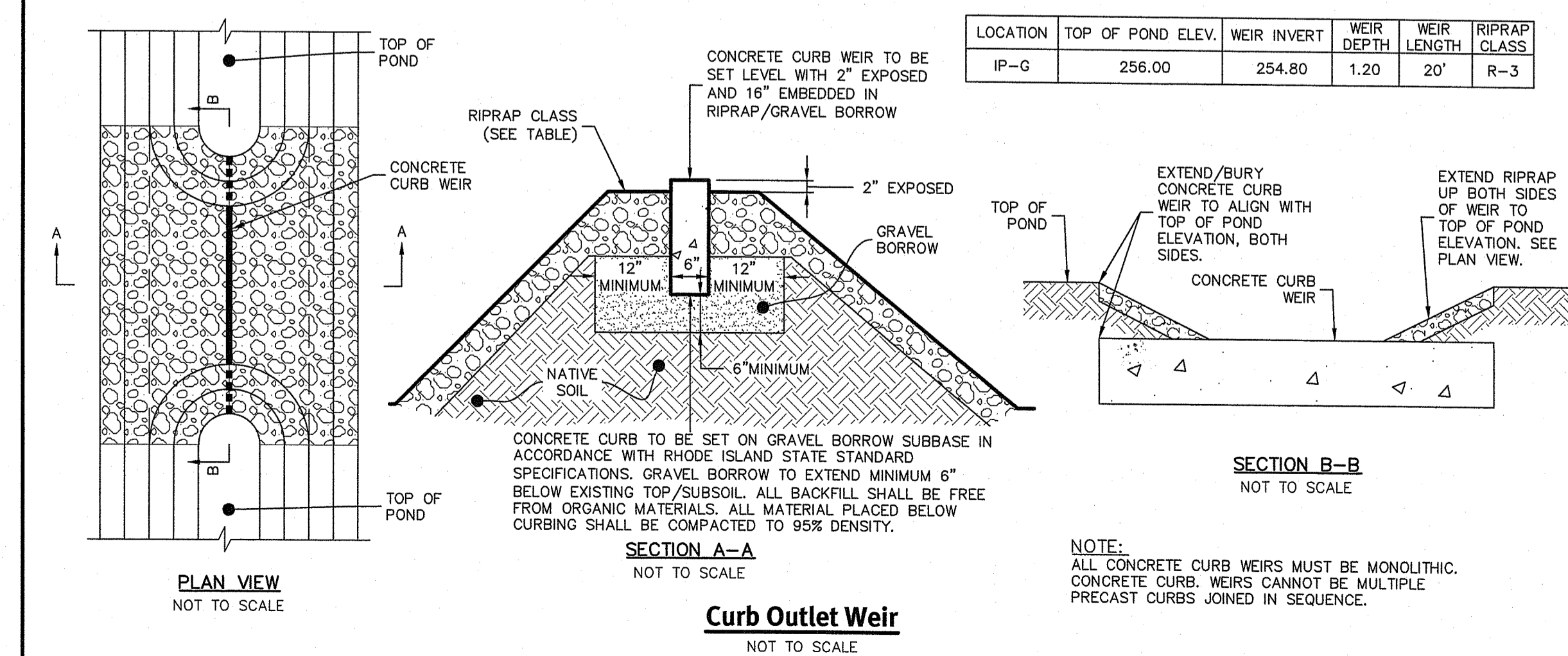
**Outlet Control Structure B**  
**4" Diameter Manhole (OCS-B)**  
 SCALE: 1"=2'

**Outlet Control Structure D**  
**4" Diameter Manhole (OCS-D)**  
 SCALE: 1"=2'

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 DATED **JUN 28 2021** FILE # **20-COETS**  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Justin D. Wencsek*

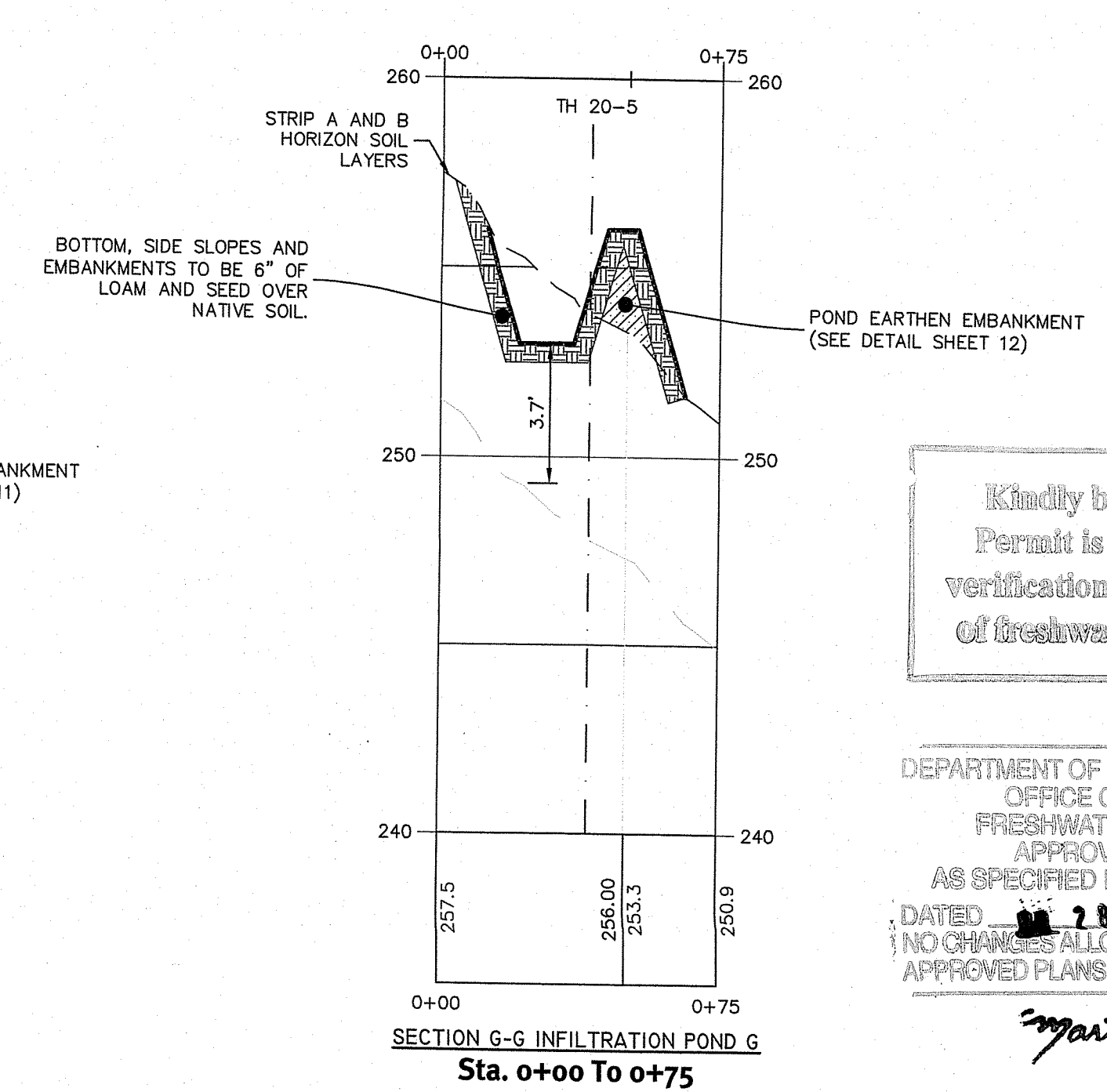
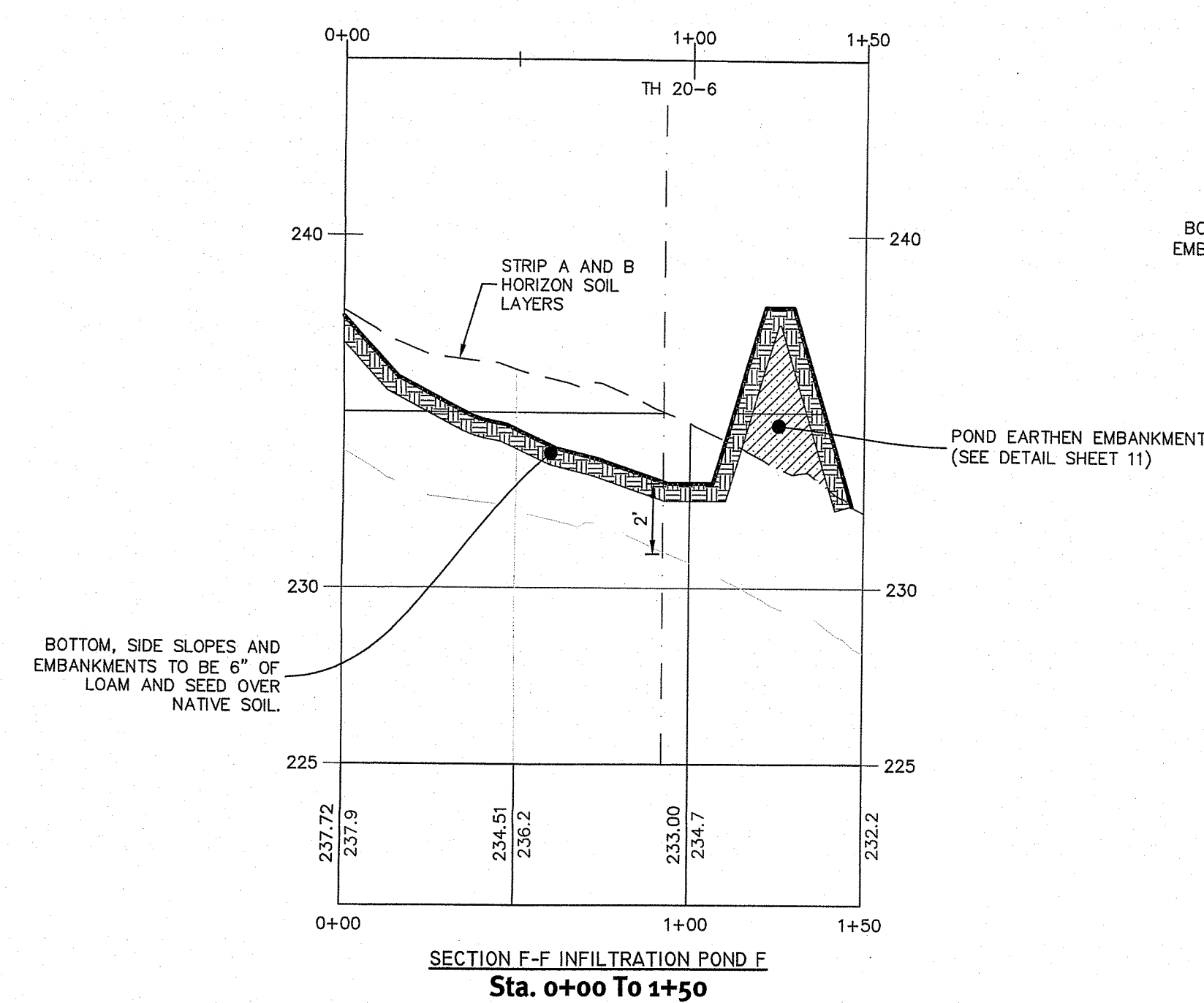
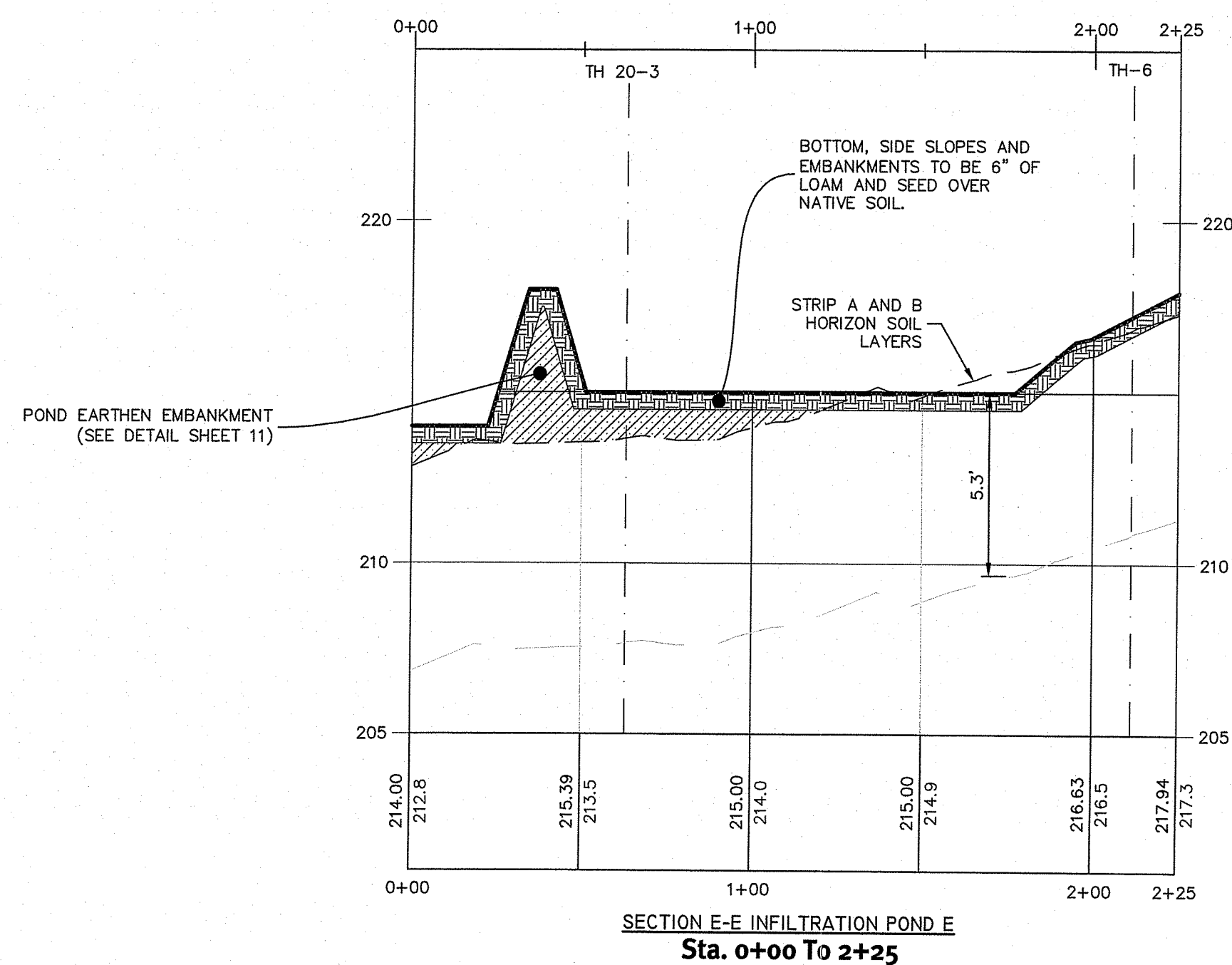
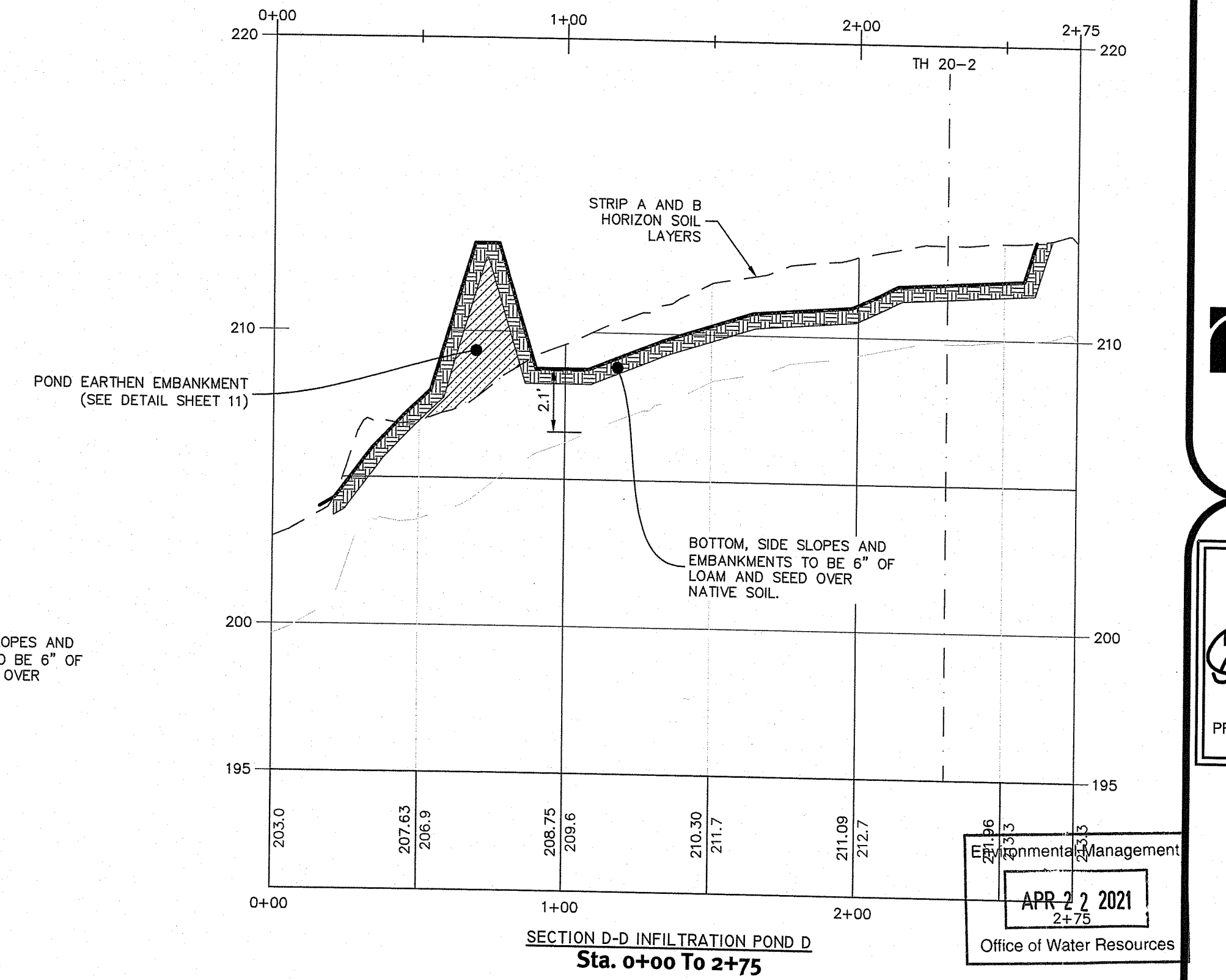
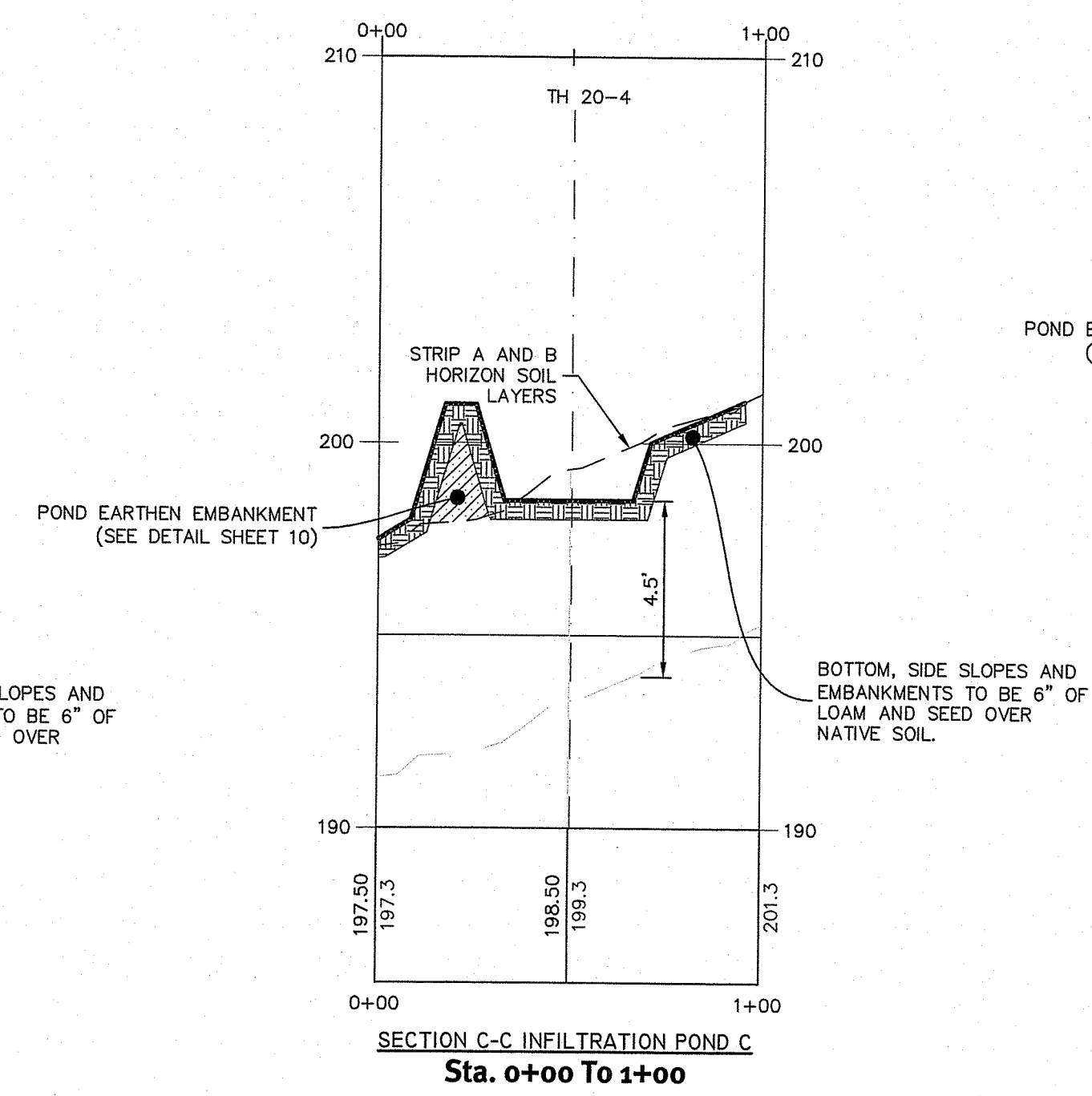
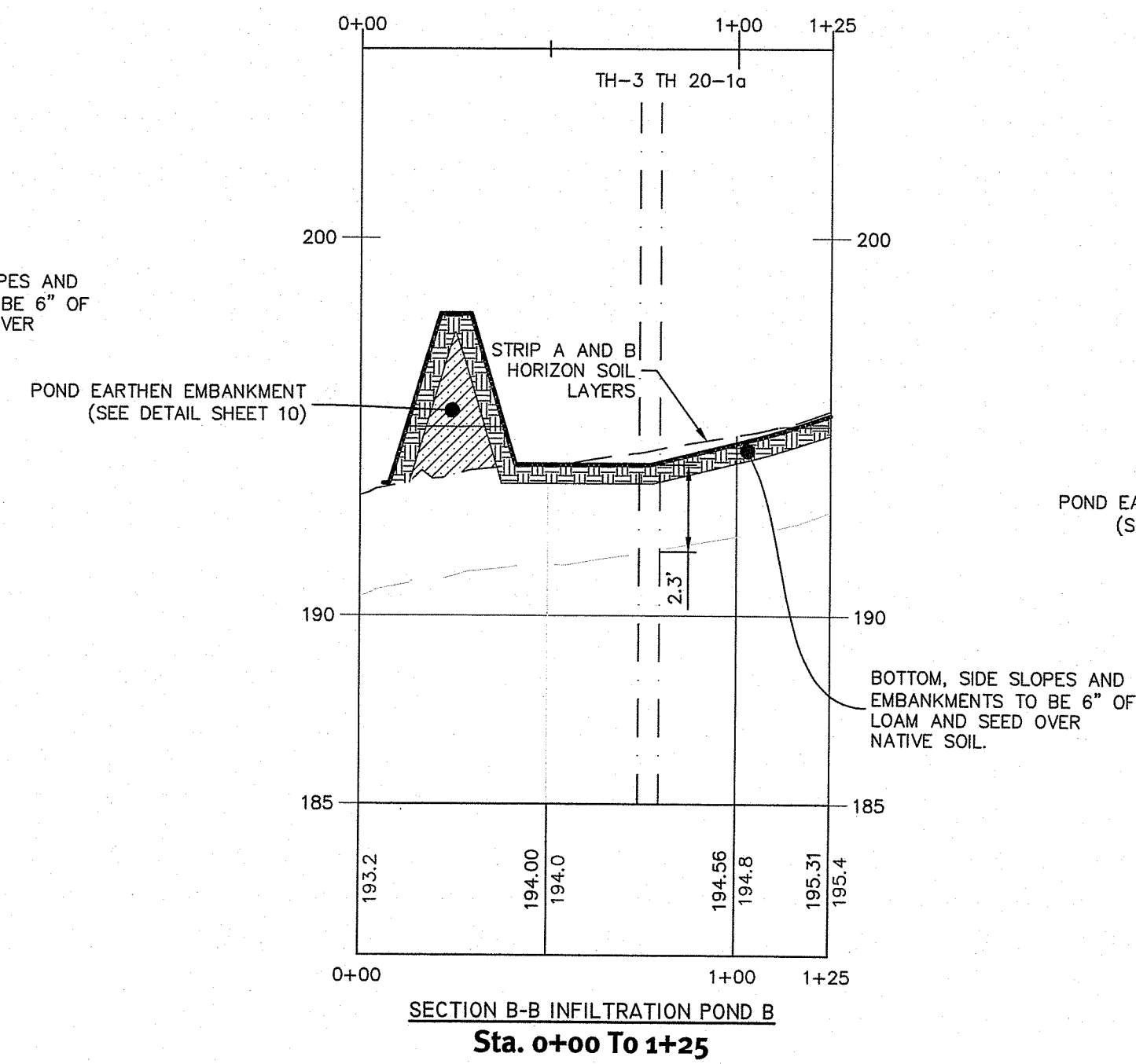
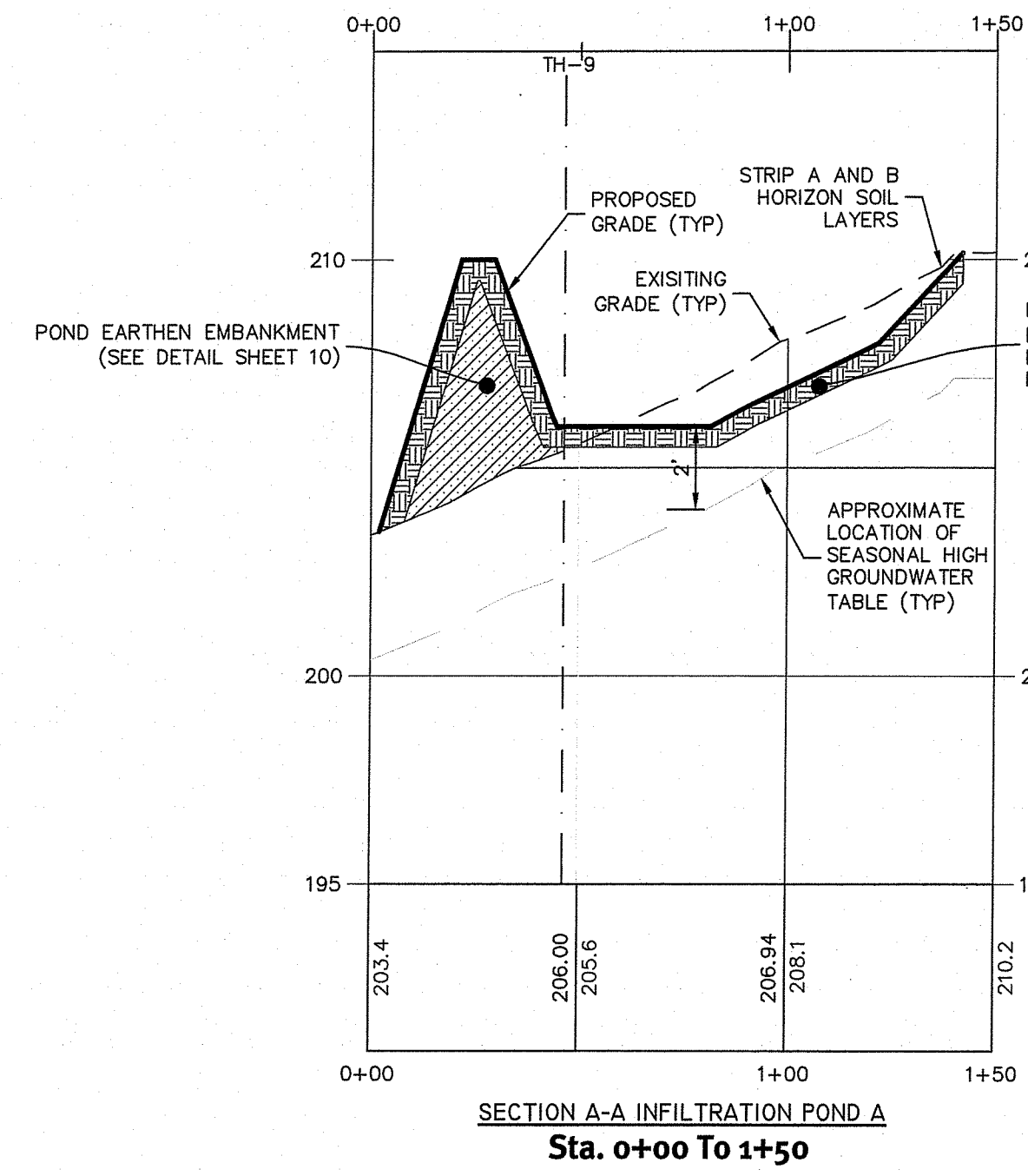


**PLAN VIEW**  
 NOT TO SCALE

**Curb Outlet Weir**  
 NOT TO SCALE

**SECTION B-B**  
 NOT TO SCALE

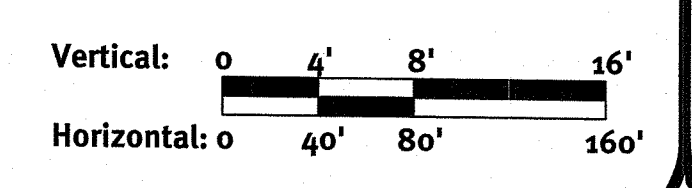
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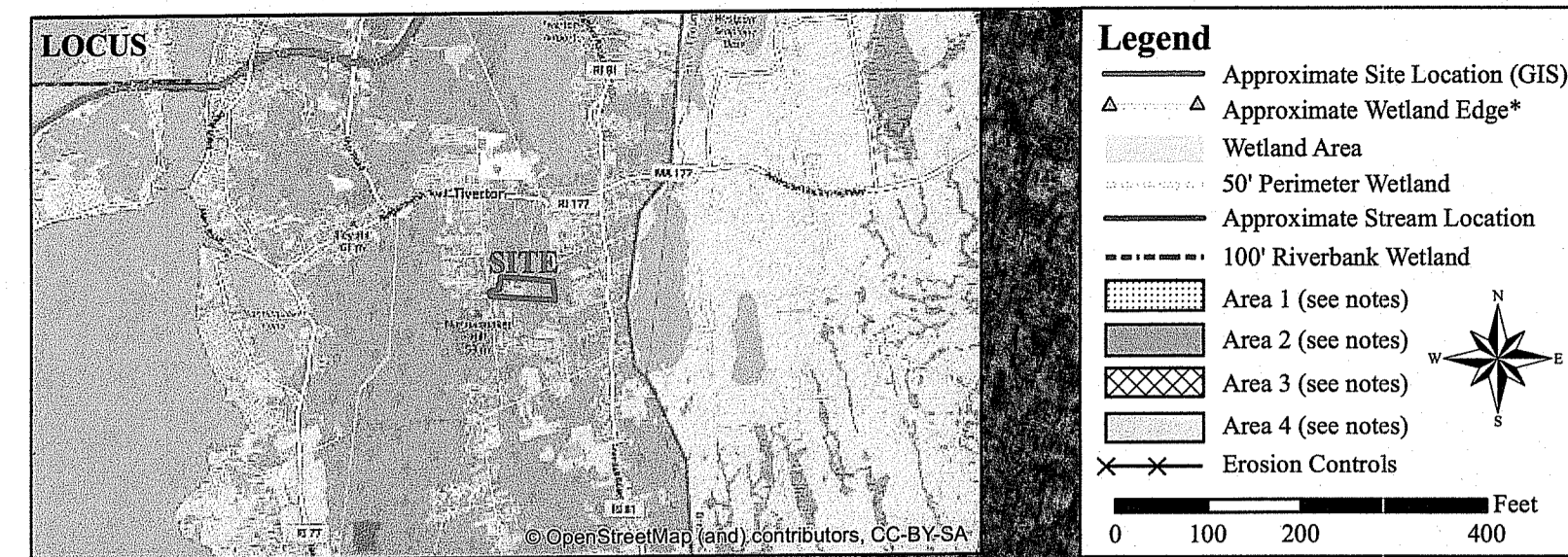
*Martin D. Seneck*



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This plan and specification shall not be used for construction purposes unless approved by the Department of Environmental Management. The contractor is responsible for the field verification of wetland boundaries and for the implementation of this plan and design.

NO.	DATE	DESCRIPTION
1	03/19/2021	REVISION: PRELIMINARY DETERMINATION
2	04/24/2021	REVISION: PERMIT SUBMISSION
3	04/28/2021	REVISION: PERMIT SUBMISSION



**Wetland Restoration Plan**  
 DEM OCI-FW-20-15  
 394 Brayton Rd  
 A.P. 505, Lot 101  
 Tiverton, RI

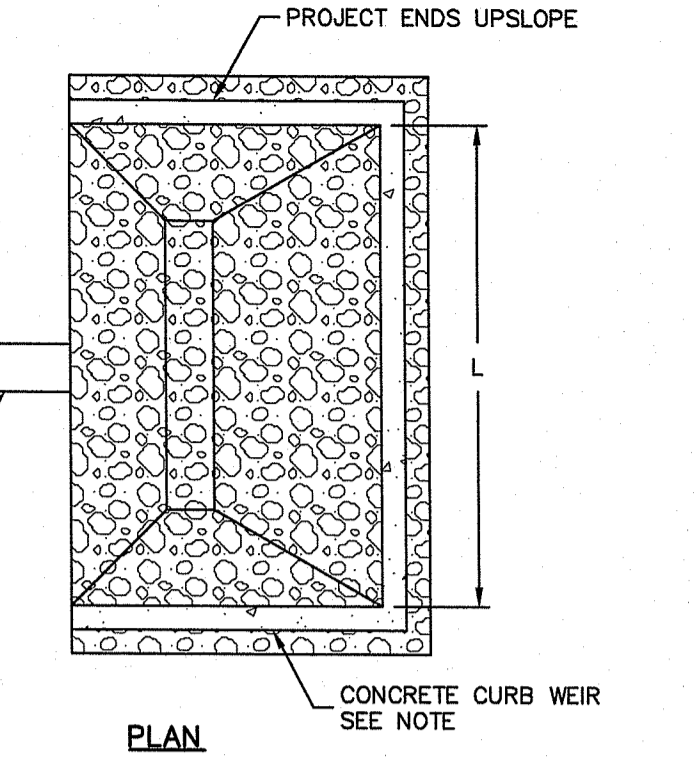
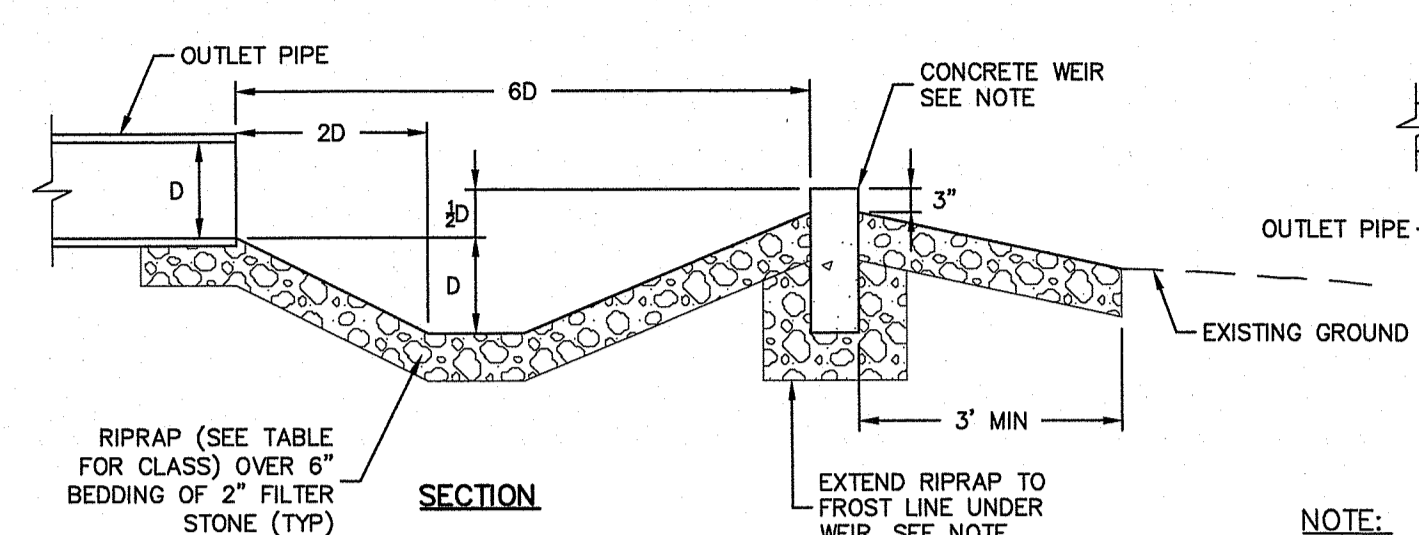
Prepared by  
 Edward J. Avizins, PWS, CPSS  
 March 5, 2020 Image  
 September 8, 2020  
 REV 10/20/2020

Information taken from  
 CAD files provided by  
 Joseph Duhamel, PE  
 DiPrete Engineering  
 March 5, 2020 Image  
 (c) nearmap

**Notes for Restoration**

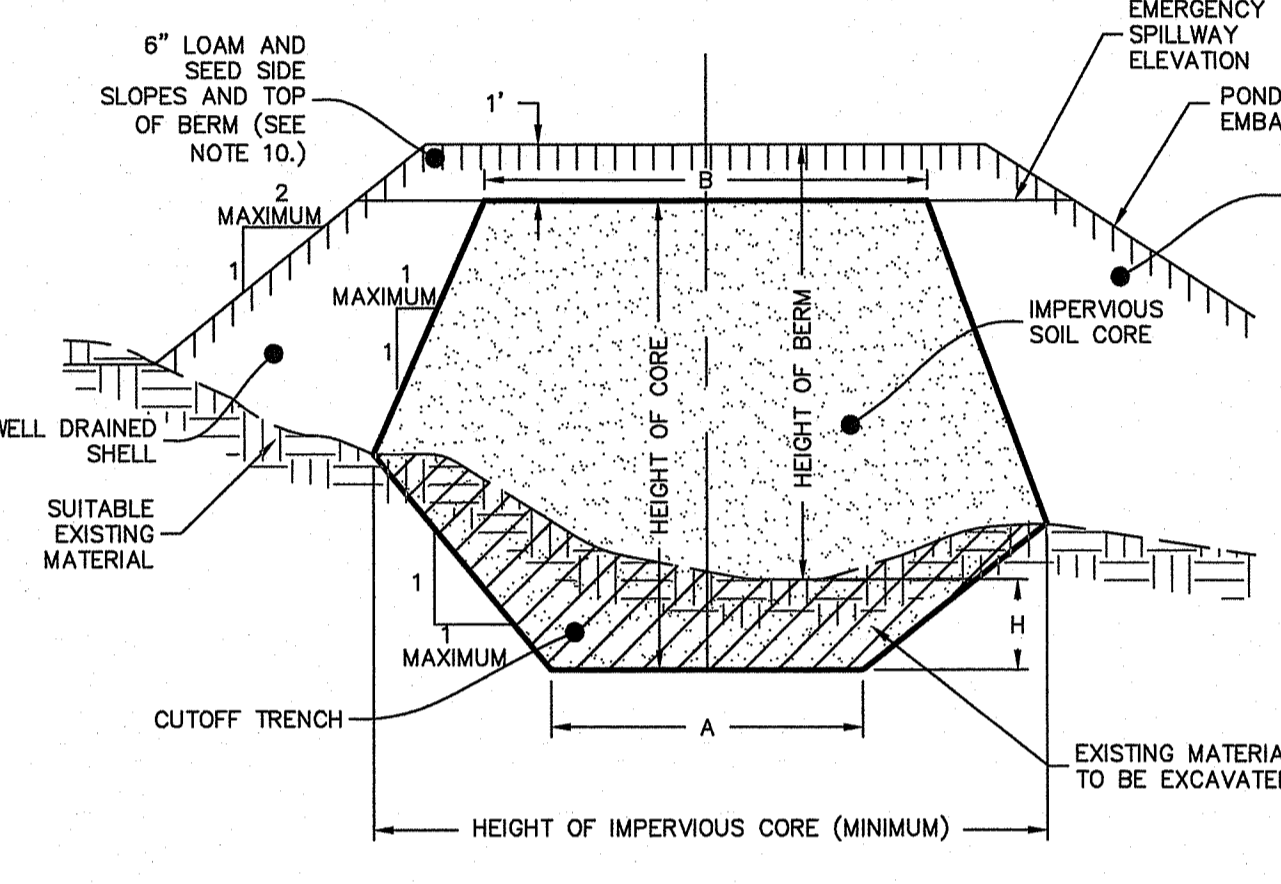
- AREA 1:**
- The portion of 50-foot perimeter wetland that is currently void of shrubs and trees shall be replanted up to within ten feet of the existing berm.
  - The restored perimeter wetland shall be planted with a combination of at least three trees planted ten feet on center, four to six feet high after planting, as selected from the following list:
    - White pine (*Pinus strobus*)
    - Red oak (*Quercus rubra*)
    - Red maple (*Acer rubrum*)
    - Sassafras (*Sassafras albidum*)
  - The restored perimeter wetland shall be planted with a combination of at least three shrubs planted six feet on center, 24 - 36 inches in height after planting, as selected from the following list:
    - Mountain laurel (*Kalmia latifolia*)
    - Highbush blueberry (*Vaccinium corymbosum*)
    - Sweet pepperbush (*Clethra alnifolia*)
    - Witch hazel (*Hamamelis virginiana*)
    - Sweet fern (*Comptonia peregrina*)
    - Black huckleberry (*Gaylussacia baccata*)
  - All unstable soil shall then be seeded with a Northeast Wildlife conservation mix and topped with loose straw mulch.
  - The area shall then be left to revert to a natural and wild state.
- AREA 2:**
- The existing driveway will shall be removed to original grade and disposed of properly in an area that is outside of jurisdiction. Erosion controls shall first be established as shown.
  - After removal of excess fill, the surface shall be regraded to achieve a naturally sloping soil surface consistent with surrounding grades.
  - Portions of the driveway may be within the wetland. A revision to the wetland line in the vicinity of C19 - C23 shall take place based on the presence or absence of hydric soils.
  - After removal of the driveway and all non-native soil/fill material, if it is determined that the impacted areas were formerly part of the adjacent Swamp (i.e., hydric soils are evident) and the original organic surface soils are not present, then the surfaces must be supplemented with a high-organic plantable soil (0" minimum). The final subsurface elevations within the restored wetland must match the grades of the adjacent undisturbed Swamp.
  - All restored/disturbed surfaces within identified Swamp areas must be seeded with an appropriate wetland seed mixture and covered with a mat of spread straw mulch, which is free of any contaminants that could promote the spread of invasive plant species.
  - At completion of regrading in the wetland/perimeter wetland, should soil need to be amended, topsoil loam mixed with leaf litter shall be added to create a plantable surface.
  - Once regrading is complete, the perimeter wetland shall be seeded with a native upland conservation mix.
  - All disturbed soil shall be covered with a loose straw mulch.
  - The restored perimeter wetland shall be planted with a combination of at least three trees planted ten feet on center, four to six feet high after planting, as selected from the following list:
    - White pine (*Pinus strobus*)
    - Red oak (*Quercus rubra*)
    - Red maple (*Acer rubrum*)
    - Sassafras (*Sassafras albidum*)
  - The restored perimeter wetland shall be planted with a combination of at least three shrubs planted six feet on center, 24 - 36 inches in height after planting, as selected from the following list:
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    - Witch hazel (*Hamamelis virginiana*)
    - Sweet fern (*Comptonia peregrina*)
    - Black huckleberry (*Gaylussacia baccata*)
  - All unstable soil shall then be seeded with a Northeast Wildlife conservation mix and topped with loose straw mulch.
  - The area shall then be left to revert to a natural and wild state.
- AREAS 3 and 4:**
- Areas 3 and 4 once held large manure/mulch stockpiles and the vast majority of the manure/mulch was removed. However, approximately 10 - 16 inches still remain in place. The remaining mulch shall be removed and stored in an upland non-jurisdictional area or removed from site. Prior to removal erosion controls shall be established as shown.
  - The bare soil surface shall be seeded with a conservation seed mix and topped with loose straw mulch.
  - All restored Swamp areas, as well as the disturbed/cleared portions of the surrounding larger Swamps, must be left in an undisturbed condition in the future and allowed to revert to a natural wild condition. Aside from those activities considered exempt under Section 1.6(F) of the Rules and Regulations, no future clearing, mowing, cutting, trimming, or other alterations shall be allowed within the restored wetlands or any other Freshwater Wetlands on the subject property, without first obtaining a valid permit from the DEM.
- All of the wetland restoration activities illustrated and described on this plan must be completed by May 15, 2021.

LOCATION	PIPE INVERT	PIPE DIA (D)	WIDTH (6D)	LENGTH (L)	CONCRETE CURB WEIR ELEV	RIPRAP CLASS
LS-B	192.75	12"	6'	14'	193.25	R-3
LS-F	231.60	15"	7.5'	25'	232.23	R-4



**Level Spreader**  
NOT TO SCALE

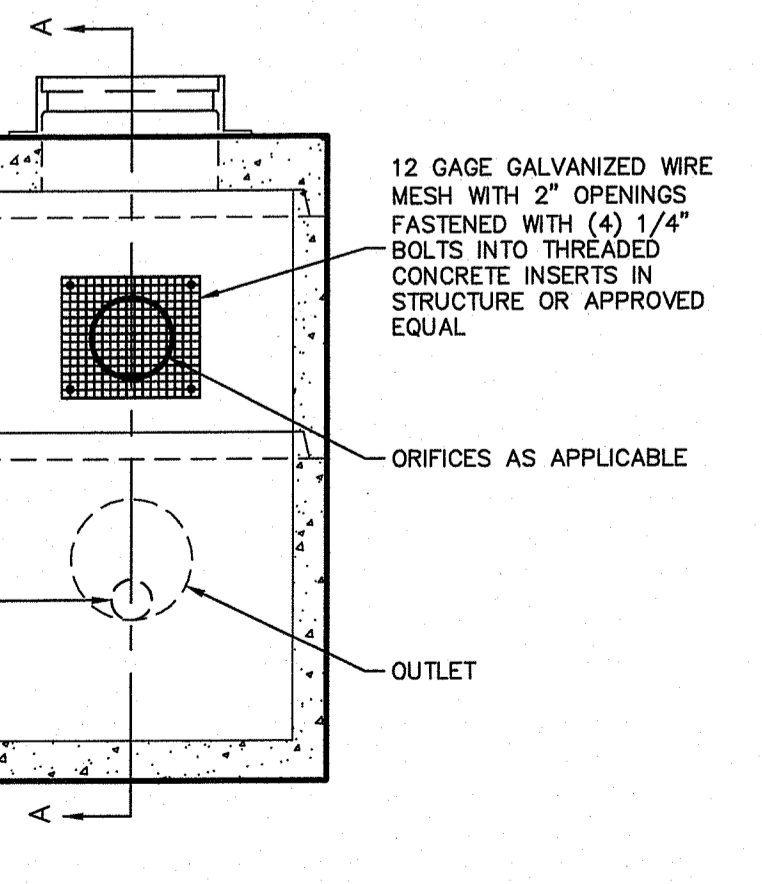
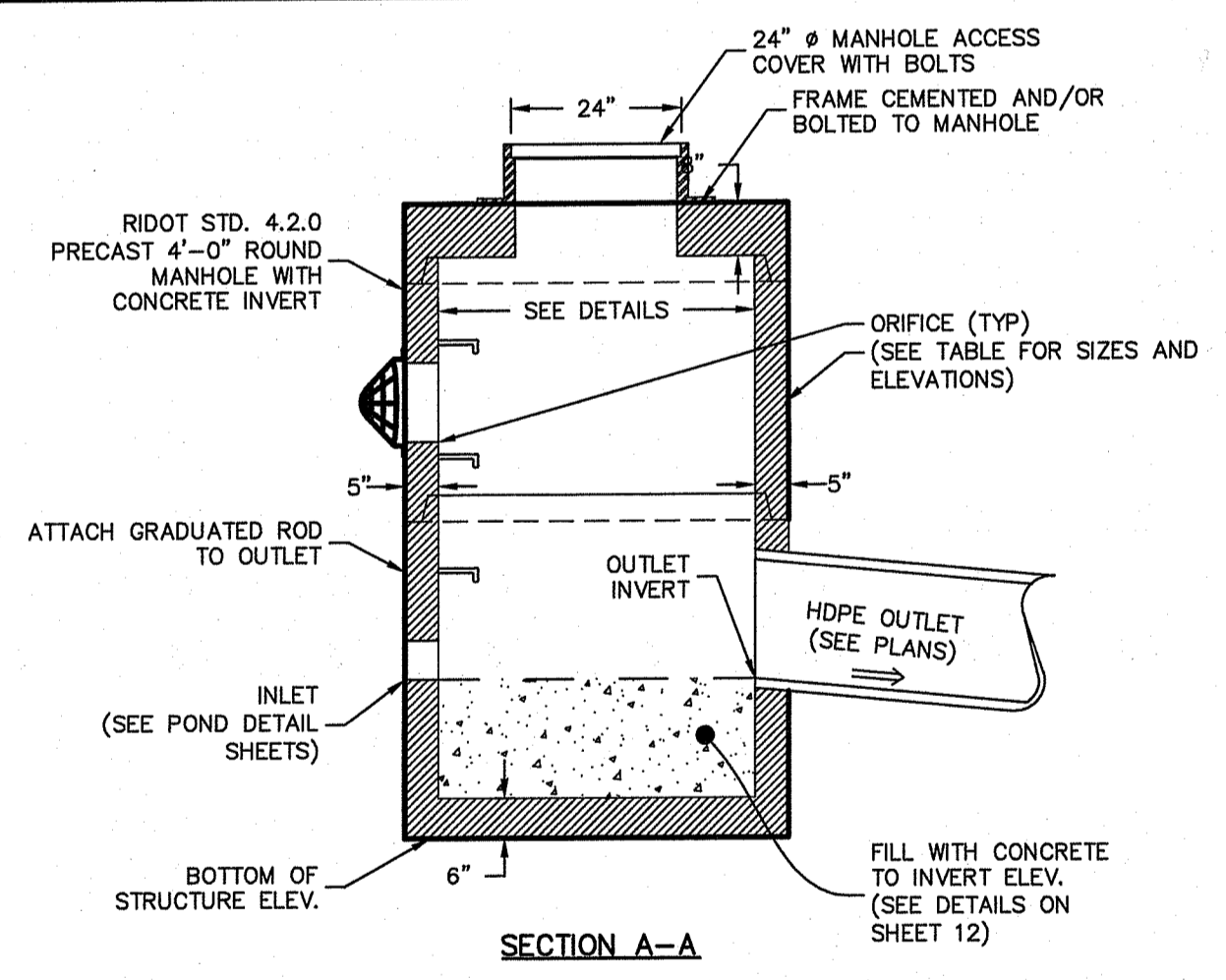
NOTE:  
 CONCRETE WEIR MAY BE:  
 - MONOLITHIC, CAST IN PLACE CONCRETE WITH INVERT BELOW THE FROST LINE (MINIMAL MAINTENANCE)  
 - SERIES OF PRECAST CONCRETE CURB SECTIONS, NO END CHAMFERS, (FREQUENT MAINTENANCE TO KEEP WEIR LEVEL) - MUST INCLUDE GRAVEL BASE DOWN TO FROST DEPTH  
 - TIMBER NOT PERMITTED



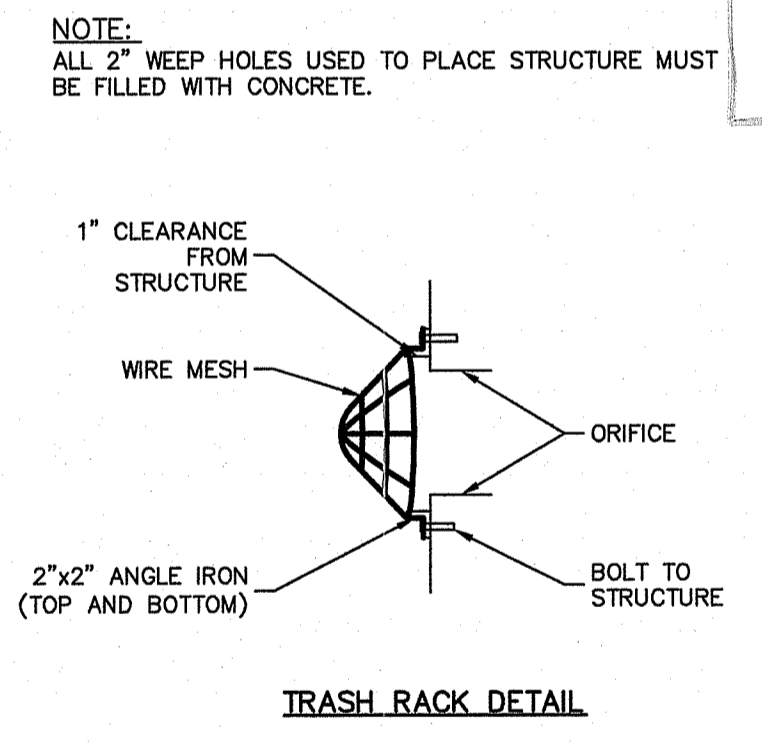
BERM HEIGHT (FT)	TOP WIDTH OF CORE - B (FT)
0-6.5	8.2
6.6-9.8	9.2
9.9-13.1	9.8
13.2-16.4	10.8
16.5-19.7	11.5

- NOTES:
- IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS.
  - IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 55% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005 CM/S.
  - WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
  - MINIMUM DEPTH OF CUTOFF TRENCH (H) SHALL BE 3/4 OF THE TOTAL BERM HEIGHT.
  - THE IMPERVIOUS CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
  - THE MINIMUM BOTTOM WIDTH (A) SHALL BE 5'-6", AND WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
  - SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
  - IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED TO 1'x1' (A4H).
  - COMPACTION REQUIREMENTS FOR THE SHELL AND IMPERVIOUS CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
  - SIDE SLOPE OF POND EMBANKMENT TO BE 2:1 MAXIMUM. IF SIDE SLOPES ARE STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL MATS.
  - THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
  - ALL EMBANKMENTS TO BE DESIGNED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER.

**Pond Earthen Embankment**  
NOT TO SCALE



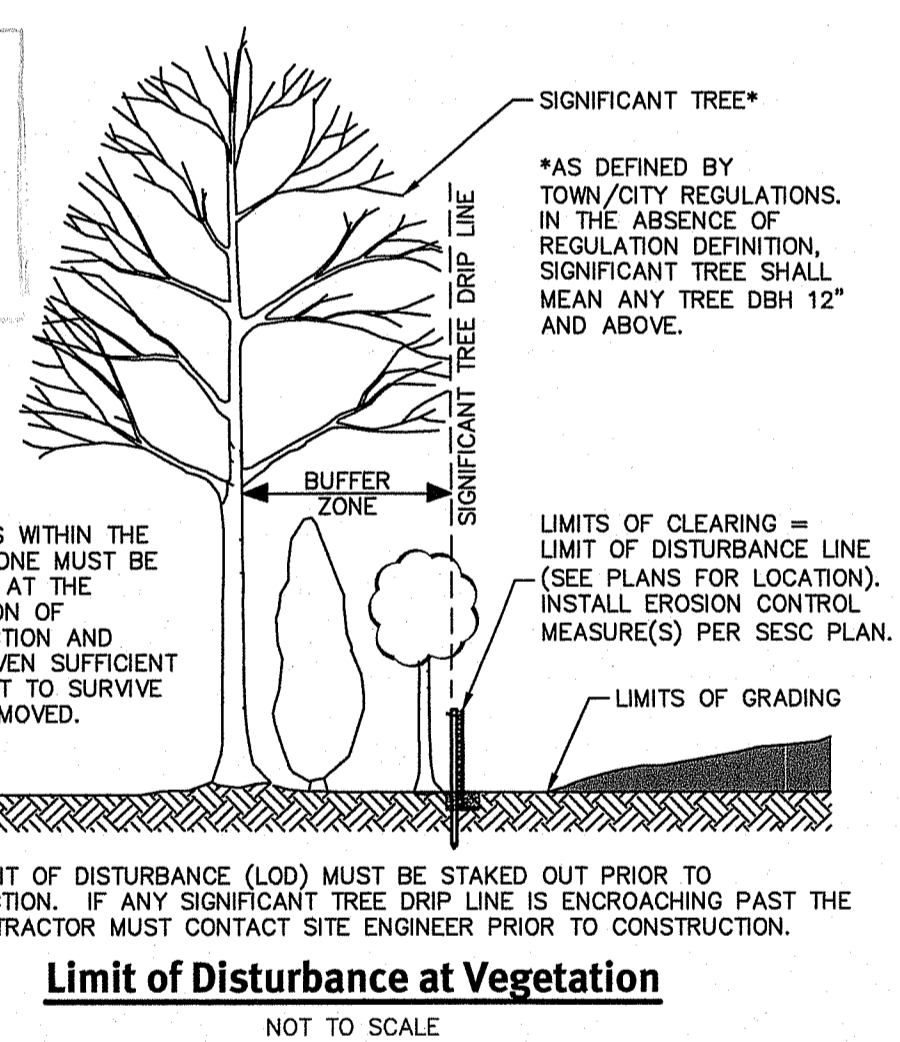
**Typical Outlet Structure Detail**  
NOT TO SCALE



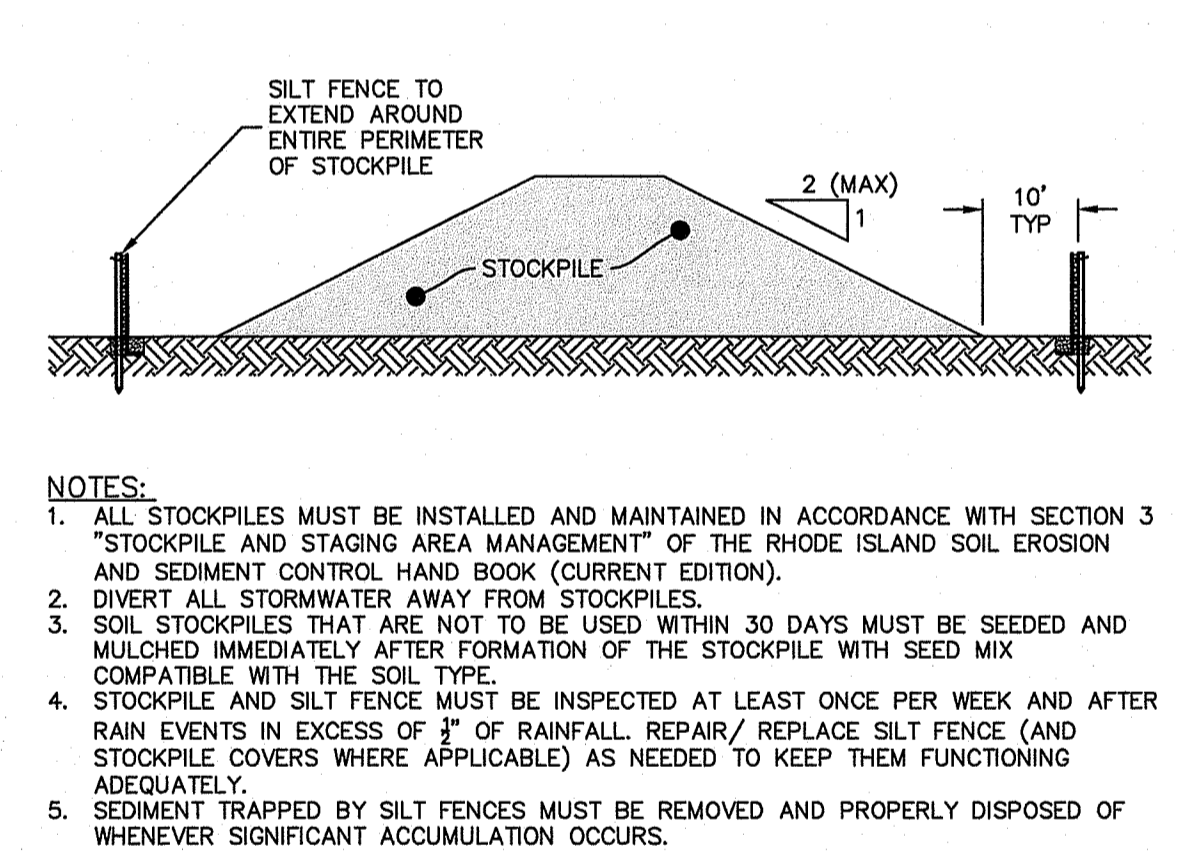
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUL 28 2021 FILE # 20-0298  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Matthew D. Senneck*

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

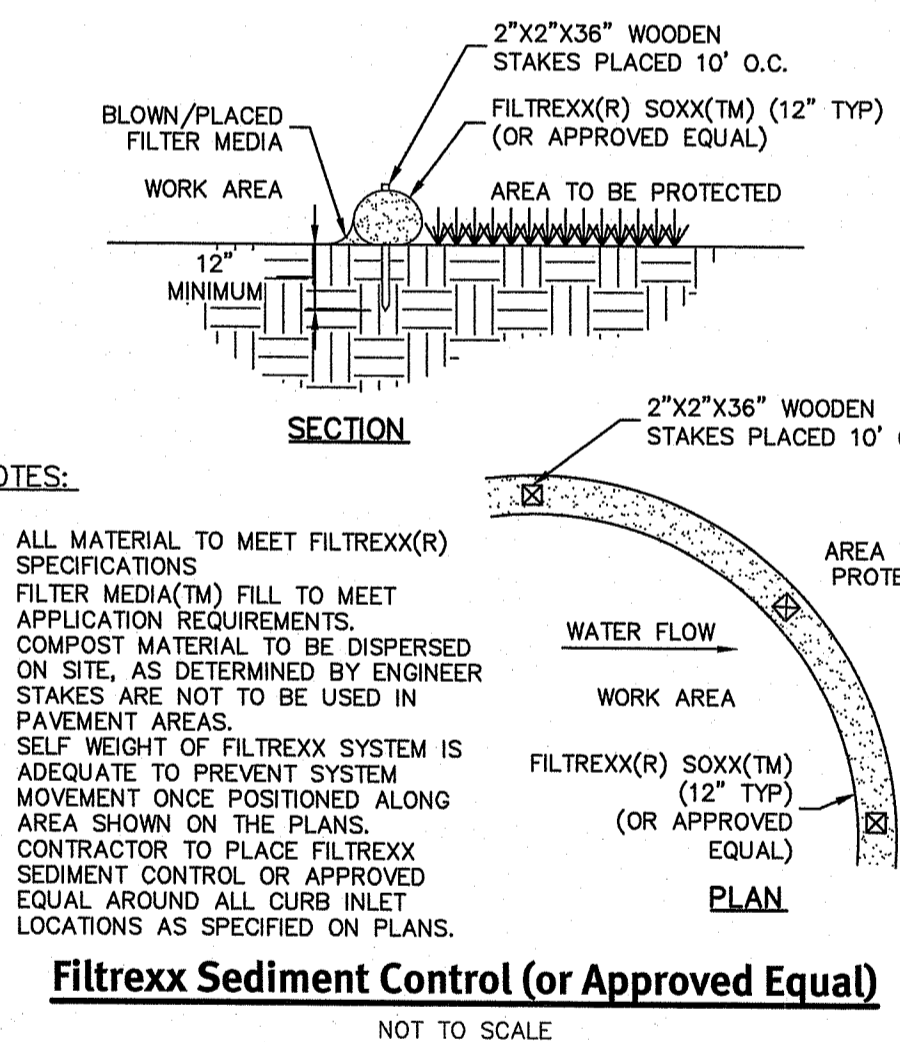


**Limit of Disturbance at Vegetation**  
NOT TO SCALE



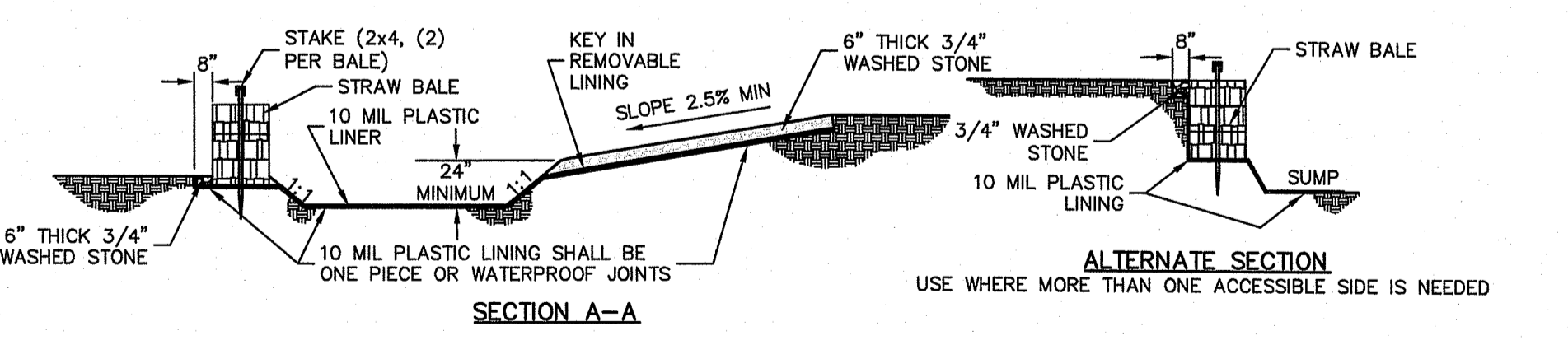
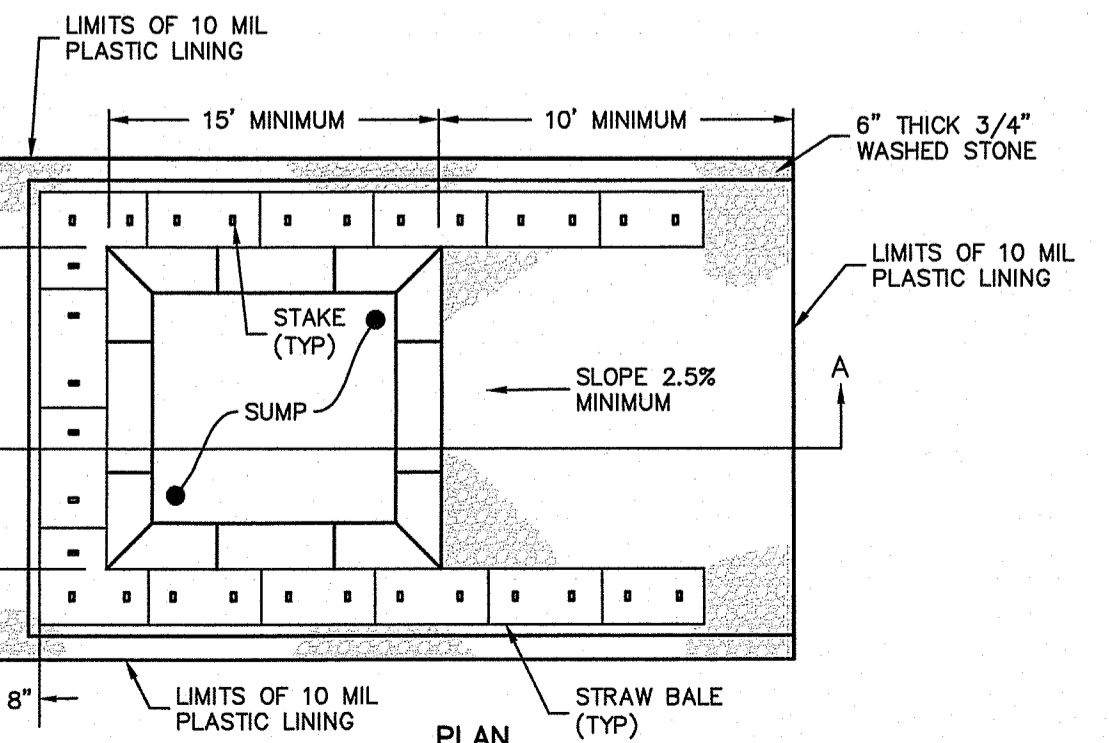
- NOTES:
- ALL STOCKPILES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 3 "STOCKPILE AND STAGING AREA MANAGEMENT" OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION).
  - DIVERT ALL STORMWATER AWAY FROM STOCKPILES.
  - SOIL STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE WITH SEED MIX COMPATIBLE WITH THE SOIL TYPE.
  - STOCKPILE AND SILT FENCE MUST BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1" OF RAINFALL. REPAIR/REPLACE SILT FENCE (AND STOCKPILE COVERS WHERE APPLICABLE) AS NEEDED TO KEEP THEM FUNCTIONING ADEQUATELY.
  - SEDIMENT TRAPPED BY SILT FENCES MUST BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.

**Stockpile Protection**  
NOT TO SCALE



- NOTES:
- ALL MATERIAL TO MEET FILTREXX(R) SPECIFICATIONS
  - FILTER MEDIA(TM) FILL TO MEET APPLICATION REQUIREMENTS.
  - COMPOST MATERIAL TO BE DISPersed ON SITE, AS DETERMINED BY ENGINEER
  - STAKES ARE NOT TO BE USED IN PAVEMENT AREAS.
  - SELF WEIGHT OF FILTREXX SYSTEM IS ADEQUATE TO PREVENT SYSTEM MOVEMENT ONCE POSITIONED ALONG AREA SHOWN ON THE PLANS.
  - CONTRACTOR TO PLACE FILTREXX SEDIMENT CONTROL OR APPROVED EQUAL AROUND ALL CURB INLET LOCATIONS AS SPECIFIED ON PLANS.

**Filtrexx Sediment Control (or Approved Equal)**  
NOT TO SCALE



- NOTES:
- PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
  - WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
  - FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12".
  - FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
  - SAWCUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT AND GRINDING TO BE DISPOSED OF IN THE PIT.
  - CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, AND SURFACE WATERS.
  - MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

**Concrete Washout Area**  
NOT TO SCALE

**GENERAL NOTES:**

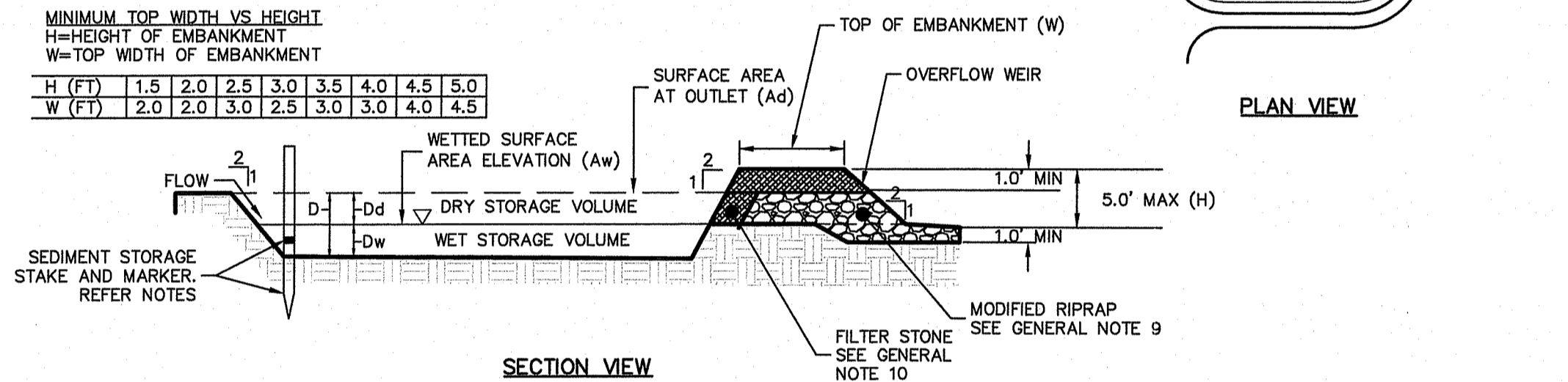
- THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
- THE TEMPORARY SEDIMENT TRAP MUST PROVIDE A STORAGE VOLUME FOR ONE INCH OF RUNOFF FROM THE CONTRIBUTING AREA. HALF OF THE STORAGE MUST BE PROVIDED IN THE FORM OF WET STORAGE. SEE DETAIL BELOW SECTION 6 OF THE RISESCH.
- ALL CUT AND FILL SLOPES MUST BE 2:1 OR FLATTER EXCEPT FOR THE EXCAVATED WET STORAGE AREA WHERE SLOPES MUST NOT EXCEED 1.5:1.
- THE OUTLET MUST BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
- THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
- TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
- MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FEET (BOTTOM OF DRY STORAGE TO TOP OF EMBANKMENT). TOTAL EMBANKMENT HEIGHT MUST NOT EXCEED 6 FEET (BOTTOM OF WET STORAGE TO TOP OF EMBANKMENT).
- SIDE SLOPES OF THE EMBANKMENT MUST BE 2:1 OR FLATTER.
- MODIFIED RIPRAP: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
- FILTER STONE: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE I, COLUMN V FILTER STONE.

SEDIMENT TRAP TRIBUTARY AREA	≤1.0 ACRE	≤2.5 ACRES	≤5.0 ACRES
TRIBUTARY DRAINAGE AREA	1.00 ac	2.50 ac	5.00 ac
WET STORAGE DEPTH (Dw)	2.0 ft	2.0 ft	2.0 ft
DRY STORAGE DEPTH (Dd)	2.0 ft	2.0 ft	2.0 ft
TOTAL DEPTH (D)	4.0 ft	4.0 ft	4.0 ft
BOTTOM OF TRAP AREA (Ab)	600 sq.ft	1,500 sq.ft	3,000 sq.ft
WETTED SURFACE AREA (Aw)	1,224 sq.ft	2,844 sq.ft	5,544 sq.ft
SURFACE AREA AT OUTLET (Ad)	1,976 sq.ft	4,316 sq.ft	8,216 sq.ft

\*TRAP DIMENSIONS AS SHOWN ABOVE REPRESENT MINIMUM REQUIRED SIZING TO MEET THE RISESCH. CONTRACTOR MAY SHAPE TRAP DIFFERENTLY THAN SHOWN AS LONG AS THE EQUIVALENT WET AND DRY VOLUMES HAVE BEEN PROVIDED AT A MINIMUM. IF NO SEDIMENT TRAPS ARE SHOWN ON THE DESIGN PLANS, SEDIMENT TRAPS MAY NOT BE REQUIRED. SEE SOLAR SESC PROTOCOL FOR MORE INFORMATION.

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

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



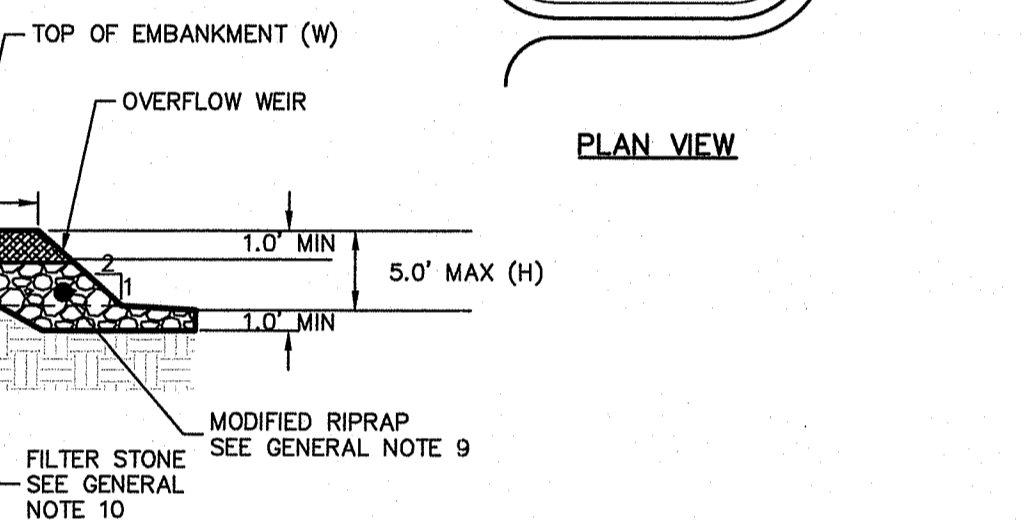
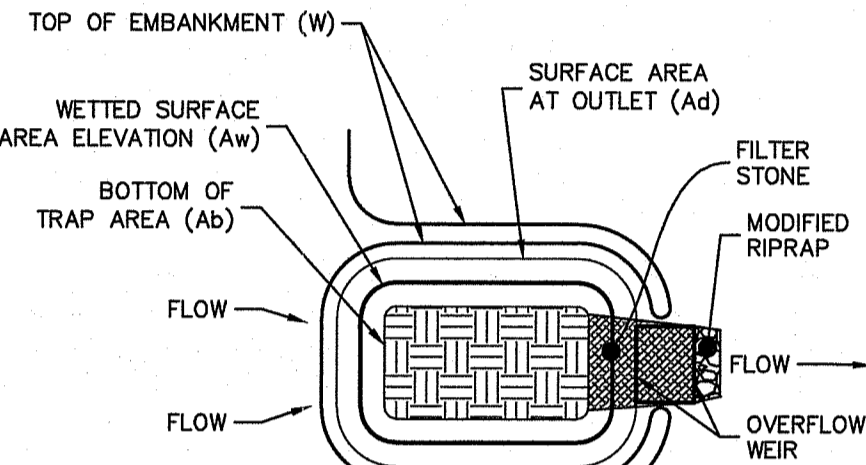
**Temporary Sediment Trap Detail**  
NOT TO SCALE

**INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:**

- INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
- INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER.
- CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
- CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
- WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
- DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AS DESIGNATED BY THE GEOTECHNICAL ENGINEER.
- THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

**INSTALLATION NOTES:**

- CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
- REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
- EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
- USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9-INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES: SEEDING FOR TEMPORARY VEGETATION COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



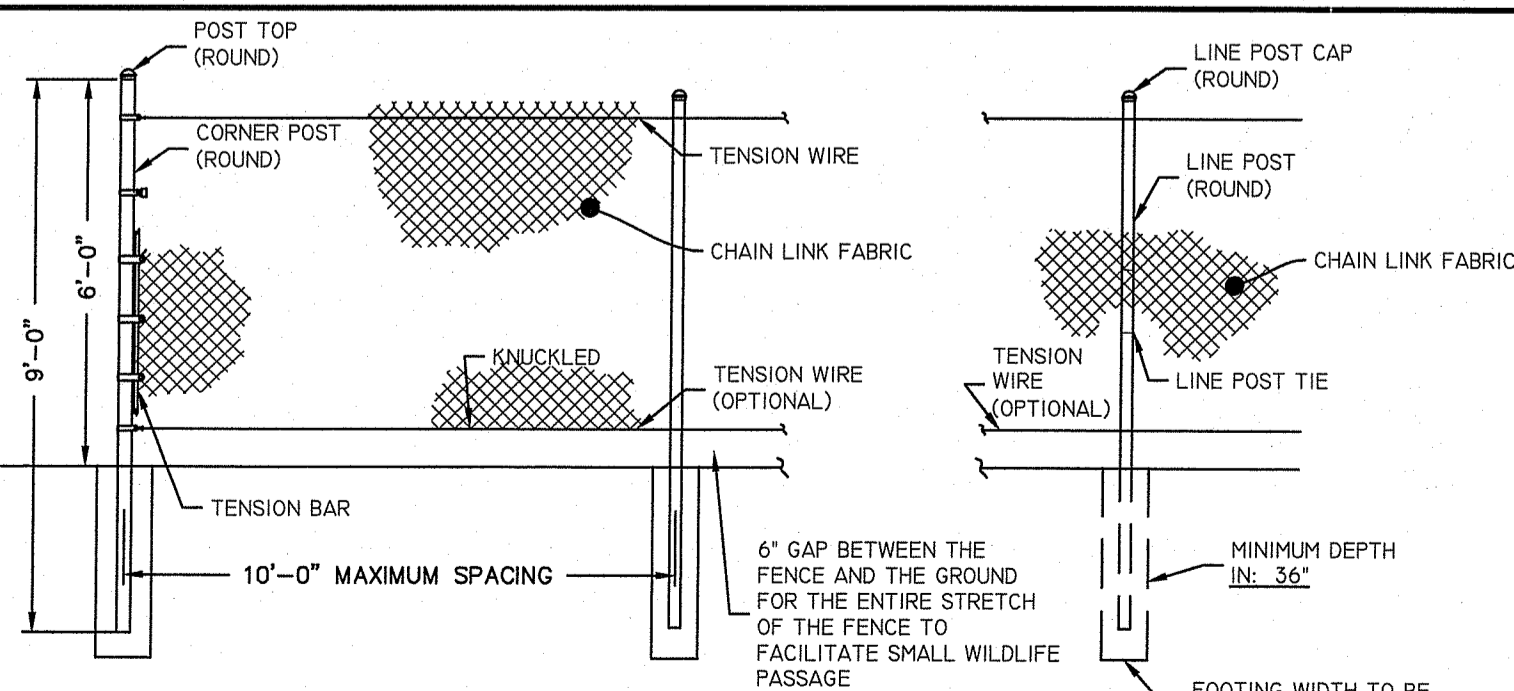
**Temporary Sediment Trap Detail**  
NOT TO SCALE

**NOTE:**

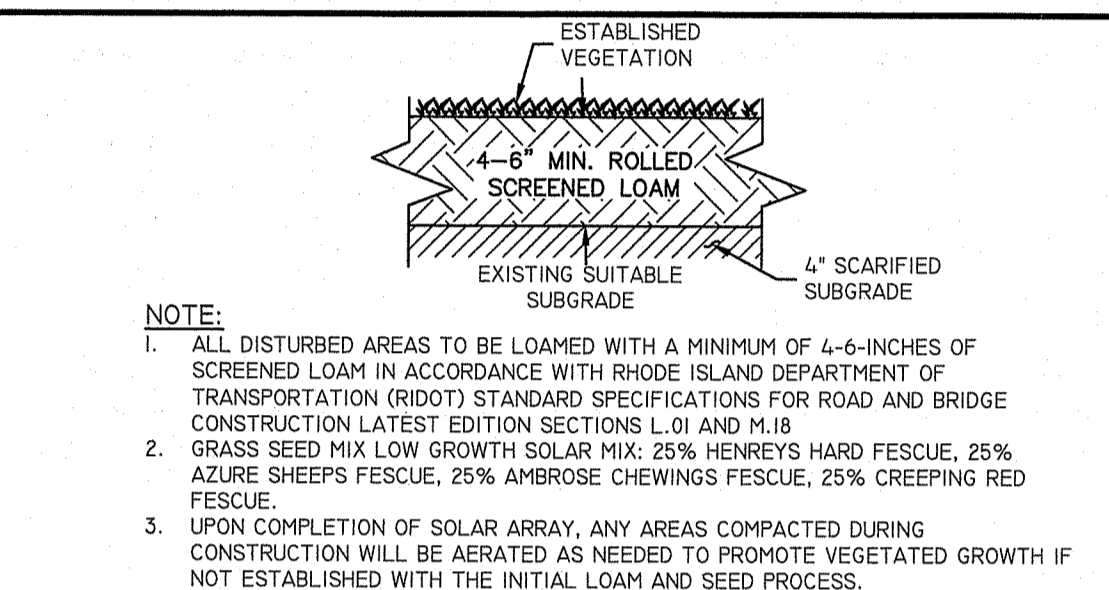
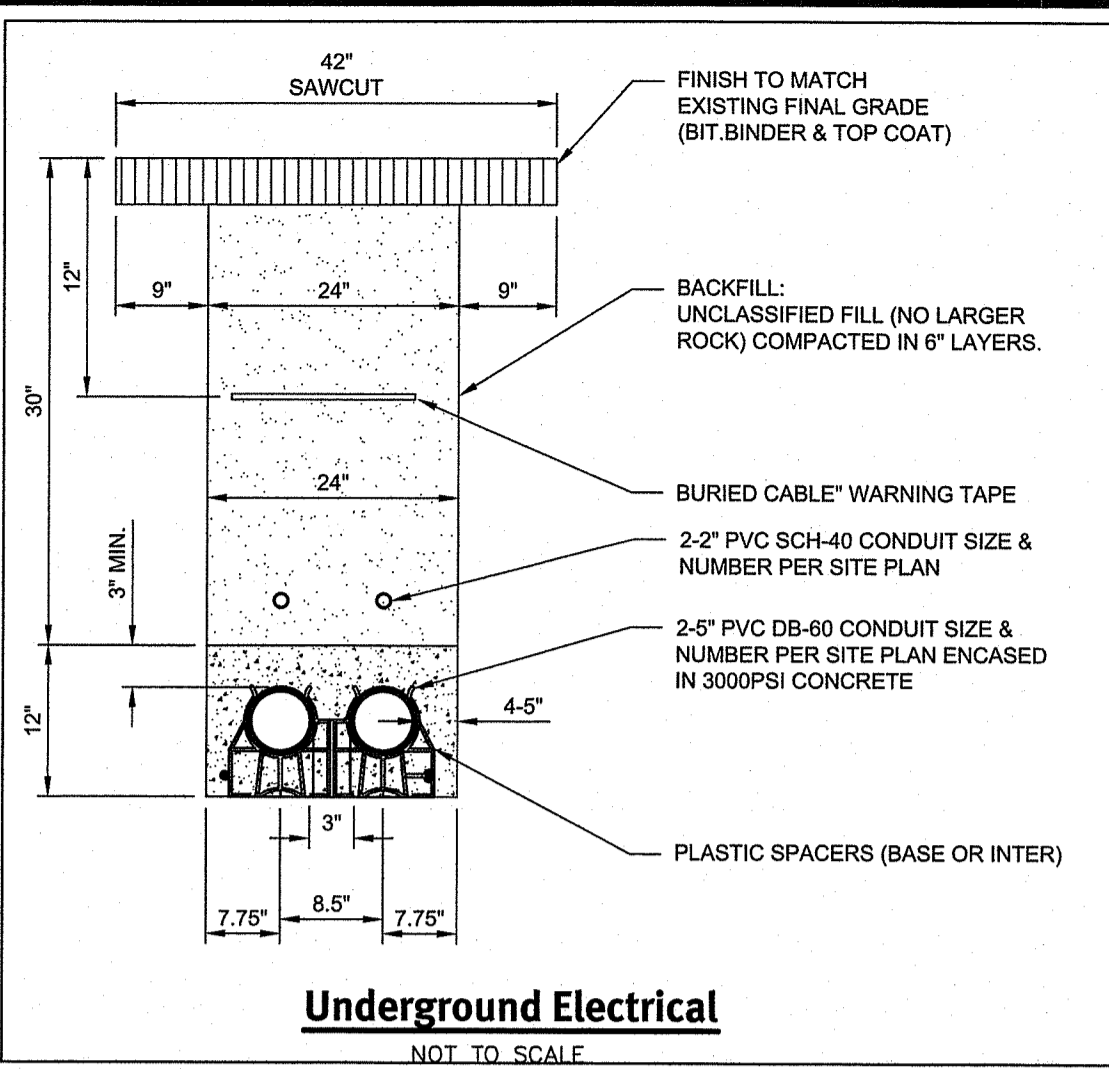
- CONTRACTOR TO WIDEN SWALE AND MATCH POND ELEVATIONS AT POINT OF SWALE'S POND CONNECTION.
- BOTTOM WIDTH OF 0' IS A V-SHAPED SWALE CHANNEL.
- CONTRACTOR TO CONFIRM DESIGN PARAMETERS PRIOR TO CONSTRUCTION. THE LEVEL OF DETAIL REQUIRED MAY NEED TO BE REVISED BASED ON FIELD CONDITIONS.

SWALE	A1	A2	A3	B1	B2	D1	E1	F1	F2	G1
WIDTH (W)	12'	12'	17'	12'	12'	12'	12'	12'	12'	12'
LONGITUDINAL SLOPE	0.9%	0.8%	5.1%	1.0%	4.2%	1.8%	6.1%	2.8%	2.2%	0.7%
SWALE LENGTH	140'±	120'±	290'±	175'±	570'±	480'±	180'±	324'±	163'±	141'±
SWALE DEPTH	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'	2.0'
BOTTOM WIDTH	0	0	5'	0	0'	0	0	0	0	0

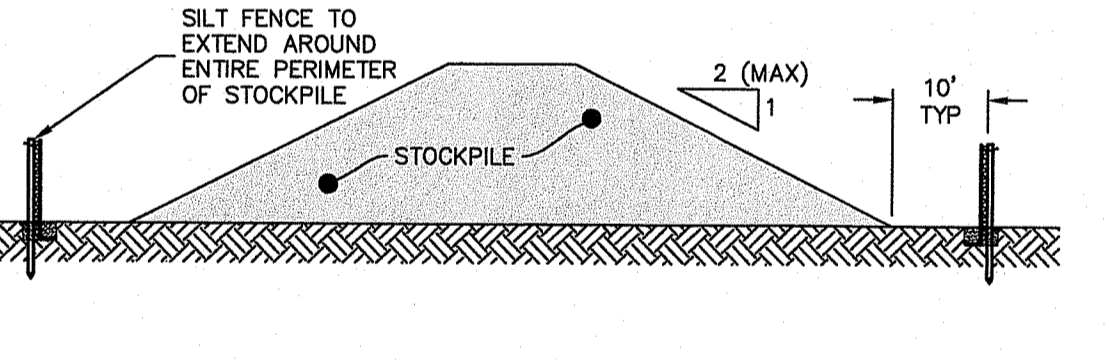
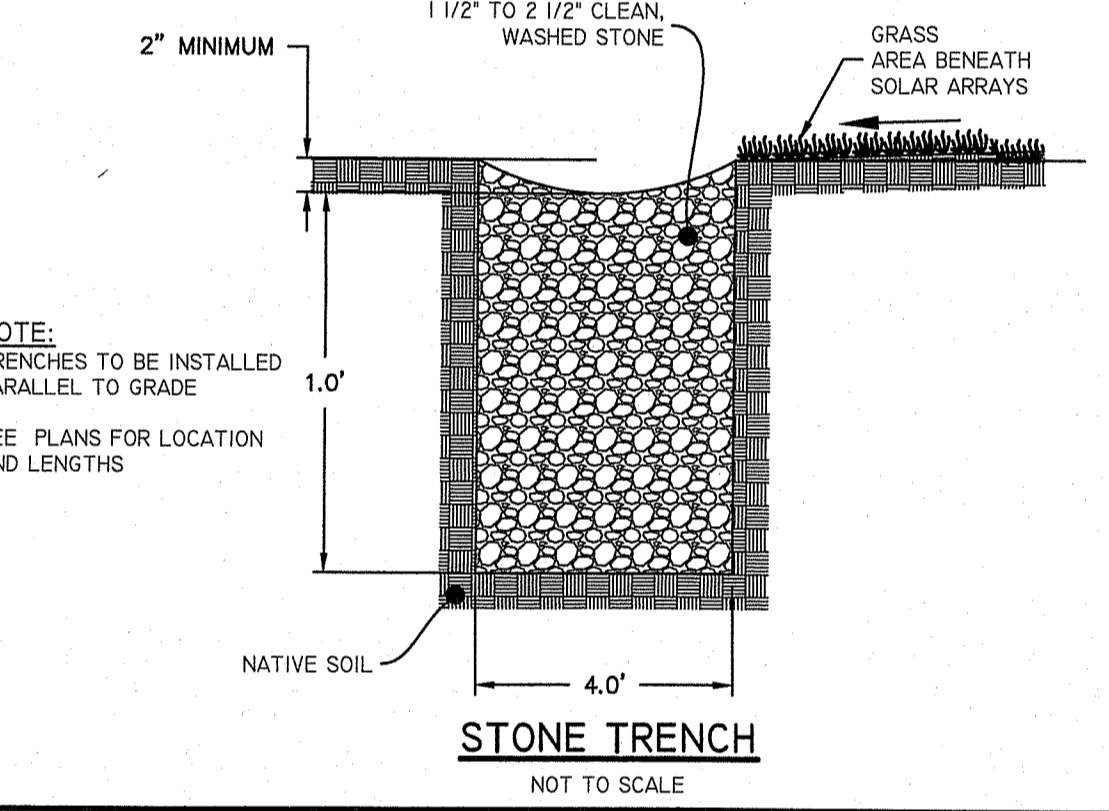
**Swale Cross Section**  
NOT TO SCALE



**FENCE DETAIL**  
NOT TO SCALE

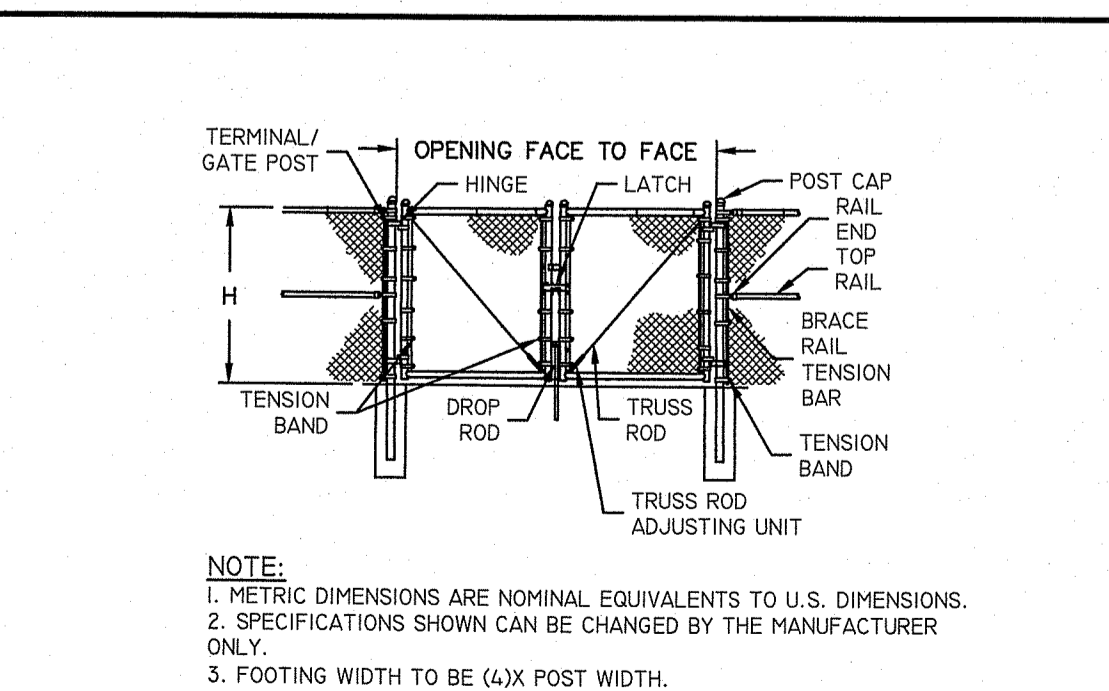


**NOTE:**  
1. ALL DISTURBED AREAS TO BE LOAMED WITH A MINIMUM OF 4-6 INCHES OF SCREENED LOAM IN ACCORDANCE WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION SECTIONS L.01 AND M.18.  
2. GRASS SEED MIX LOW GROWTH SOLAR MIX: 25% HENREYS HARD FESCUE, 25% AZURE SHEEPS FESCUE, 25% AMBROSE CHEWINGS FESCUE, 25% CREEPING RED FESCUE.  
3. UPON COMPLETION OF SOLAR ARRAY, ANY AREAS COMPACTED DURING CONSTRUCTION WILL BE AERATED AS NEEDED TO PROMOTE VEGETATED GROWTH IF NOT ESTABLISHED WITH THE INITIAL LOAM AND SEED PROCESS.

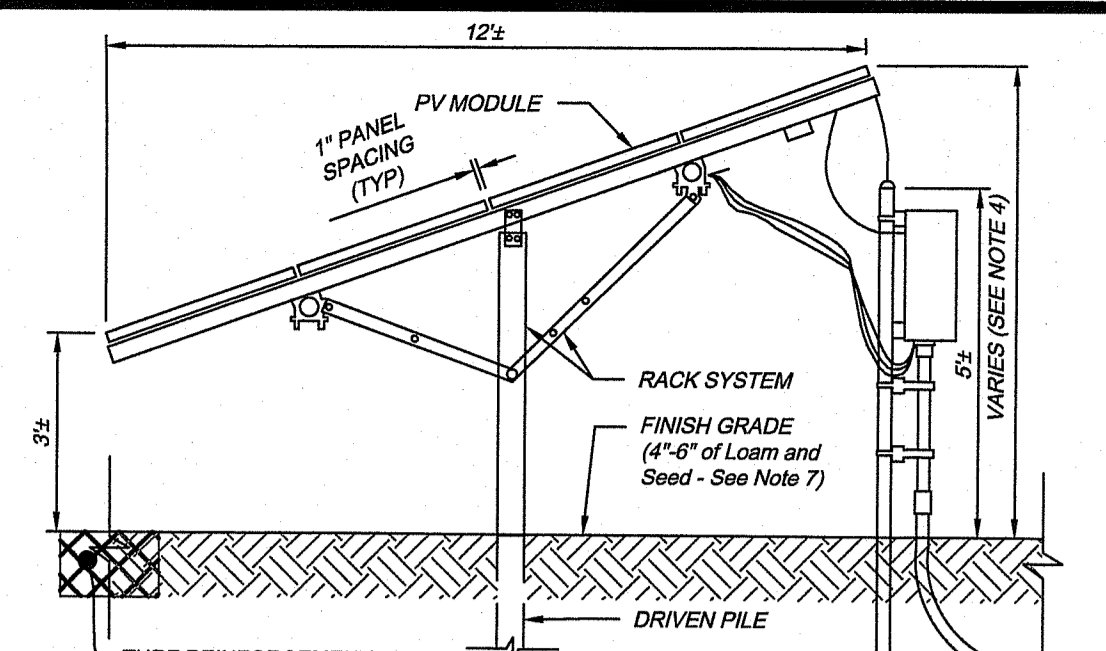


- NOTES:**
- ALL STOCKPILES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 3 "STOCKPILE AND STAGING AREA MANAGEMENT" OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION).
  - DIVERT ALL STORMWATER AWAY FROM STOCKPILES.
  - SOIL STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE WITH SEED MIX COMPATIBLE WITH THE SOIL TYPE.
  - STOCKPILE AND SILT FENCE MUST BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2" OF RAINFALL. REPAIR/ REPLACE SILT FENCE (AND STOCKPILE COVERS WHERE APPLICABLE) AS NEEDED TO KEEP THEM FUNCTIONING ADEQUATELY.
  - SEDIMENT TRAPPED BY SILT FENCES MUST BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.

**Stockpile Protection**  
NOT TO SCALE

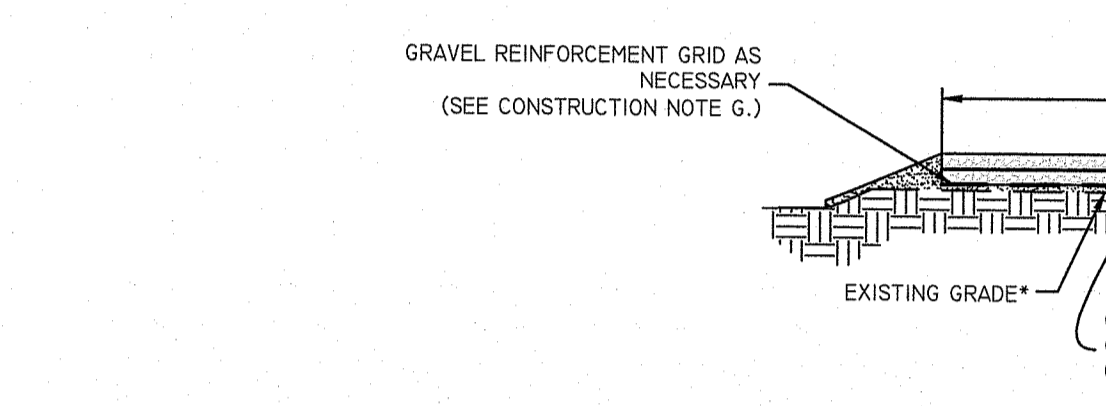


**DOUBLE SWING GATE 6-16' OPENING**  
NOT TO SCALE



- NOTES:**
- ADJACENT ARRAY TABLES SHALL BE INSTALLED WITH A MINIMUM OF 6 INCHES OF SEPARATION.
  - ROWS OF ARRAY TABLES SHALL BE INSTALLED WITH A MINIMUM OF 13 FEET OF SEPARATION.
  - TYPICAL SOLAR PANEL RACKING SYSTEM SHOWN. SELECTED RACKING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
  - INSTALLED HEIGHT WILL VARY BASED ON THE RACKING LAYOUT AND FINAL DESIGN BUT WILL BE LESS THAN 12' PER ZONING CODE REQUIREMENTS.
  - SEE PLANS FOR PANEL TYPE, QUANTITY AND LOCATIONS.
  - PERMANENT TURF MATS TO BE INSTALLED IF EROSION ISSUES PERSIST AFTER PERMANENT STABILIZATION AND/OR TO SUPPORT PERMANENT STABILIZATION.
  - SEED FOR SITE TO BE LOW GROWING, SHADE TOLERANT NATIVE GRASSES WHICH WILL NOT REQUIRE FERTILIZER FOR GROWTH.

**Solar Panel Racking**  
NOT TO SCALE

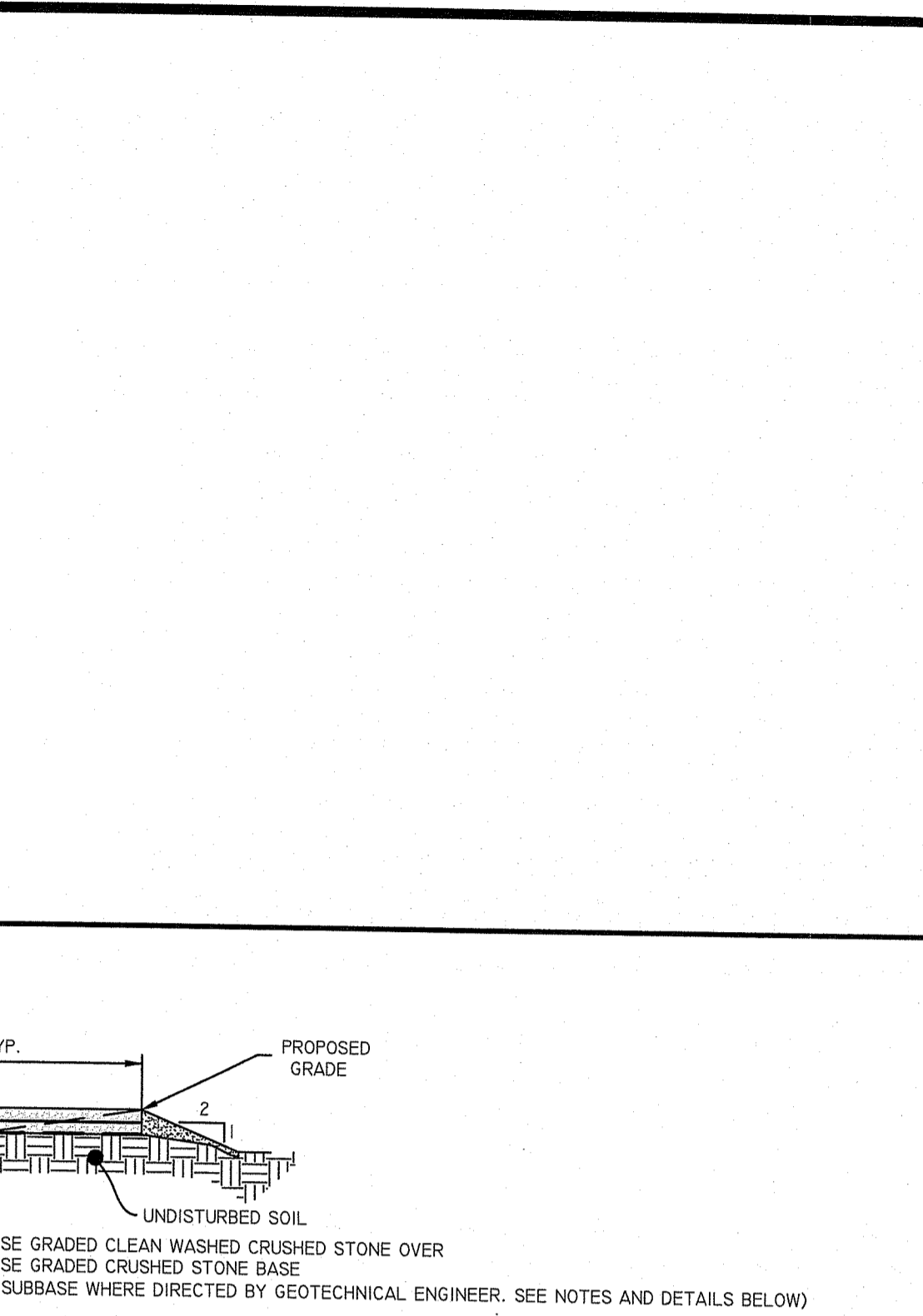


**NOTE:**  
WHERE ROAD BASE IS AT OR ABOVE EXISTING GRADE, ORGANICS MUST BE REMOVED PRIOR TO INSTALLATION OF ROAD BASE.

CLEAN CRUSHED STONE SPECIFICATIONS		DENSE GRADED CLEAN CRUSHED STONE:	
SIEVE DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES		
90mm (3.5in)	100	A. DENSE GRADED CLEAN WASHED CRUSHED STONE MUST CONSIST OF CLEAN, WASHED, HARD, UNIFORMLY GRADED, CRUSHED STONE. IT MUST BE SUFFICIENTLY FREE FROM DIRT, DELETERIOUS MATERIAL, AND PIECES THAT ARE STRUCTURALLY WEAK AND MUST MEET THE FOLLOWING REQUIREMENTS:	
75mm (3in)	90-100	B. SOURCE OF MATERIAL MUST BE OBTAINED FROM AREAS STRIPPED AND CLEANED OF SOIL AND DEBRIS BEFORE BLASTING	
50mm (2in)	75-100	C. MATERIAL COARSER THAN THE 4.75mm (No. 4) SIEVE MUST NOT BE MORE THAN 30 PERCENT, BY MASS (WEIGHT), OF THIN AND/OR ELONGATED PIECES.	
25mm (1in)	50-80		
12.5mm (0.5in)	30-60		
4.75mm (No. 4)	0-60		
7.5mm (No. 20)	0		

SUBBASE SPECIFICATIONS (WHERE DIRECTED)			
CONDITIONS:	ROAD THICKNESS	STONE SIZE	FINES
SUBBASE LAYER WITH GEOTEXTILE FABRIC (NOT EXCESSIVELY WET)	4" MIN.	3-3 1/2"	0-6%
SUBBASE LAYER WITH GEOTEXTILE FABRIC (WET CONDITIONS)	6" MIN.	3-3 1/2"	0-6%

**CRUSHED STONE ACCESS PATH DETAIL**  
NOT TO SCALE



**NOTE:**  
WHERE ROAD BASE IS AT OR ABOVE EXISTING GRADE, ORGANICS MUST BE REMOVED PRIOR TO INSTALLATION OF ROAD BASE.

BASE SPECIFICATIONS		DENSE GRADED CRUSHED STONE FOR BASE:	
SIEVE DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES		
90mm (3.5in)	100	A. DENSE GRADED CRUSHED STONE FOR BASE MUST CONSIST OF CLEAN, HARD, UNIFORMLY GRADED, CRUSHED STONE. IT MUST BE SUFFICIENTLY FREE FROM DIRT, DELETERIOUS MATERIAL, AND PIECES THAT ARE STRUCTURALLY WEAK AND MUST MEET THE FOLLOWING REQUIREMENTS:	
75mm (3in)	90-100	B. SOURCE OF MATERIAL MUST BE OBTAINED FROM AREAS STRIPPED AND CLEANED OF SOIL AND DEBRIS BEFORE BLASTING	
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25mm (1in)	50-80		
12.5mm (0.5in)	30-60		
4.75mm (No. 4)	15-40		
7.5mm (No. 20)	0-6		

- CONSTRUCTION NOTE:**
- CONSTRUCTION OPERATIONS MUST BE CARRIED OUT IN SUCH A MANNER TO MINIMIZE POTENTIAL EROSION AND WATER QUALITY DEGRADATION.
  - FIXED EROSION CONTROLS AND SITE STABILIZATION MUST BE CONDUCTED IN ACCORDANCE WITH APPROVED BMP'S OR PURSUANT TO PROJECT SPECIFIC PERMITS.
  - TREES, STUMPS, ROOTS, BRUSH AND WEEDS MUST BE REMOVED FROM THE WORK AREA IF DETERMINED NECESSARY TO SAFELY CONSTRUCT ROADWAY.
  - ON WEAK BEARING SOIL SUCH AS LOOSE ALLUVIAL, OR WETLAND SOILS, SURFACE TREATMENTS SHOULD BE UNDERLAIN WITH WOVEN GEOTEXTILES.
  - AT MINIMUM, ROADSIDE DITCHES MUST BE 1 FT BELOW ROAD SURFACE.
  - DISCHARGE POINTS, FOR DITCHES MUST NOT BE NEAR WETLANDS OR STREAMS, AND OR BE LOCATED AT THE DIRECTION OF THE DESIGN ENGINEER.
  - CONTRACTOR TO INSTALL GRAVEL REINFORCEMENT GRID AS NECESSARY TO PREVENT EROSION AND/OR VEHICULAR DAMAGE TO THE ACCESS ROAD.

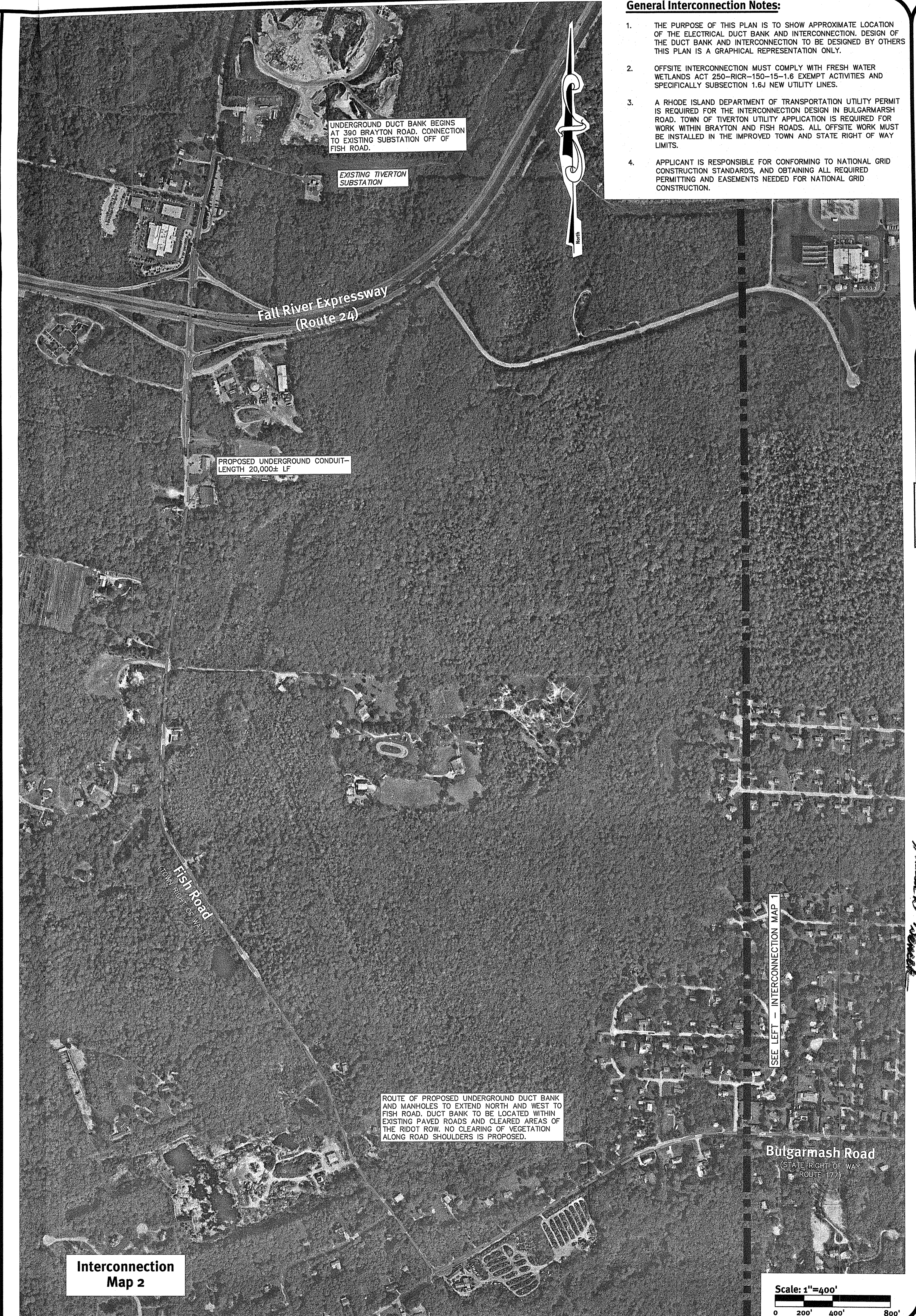
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED **APR 27 2021** FILE # **20-0298**  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

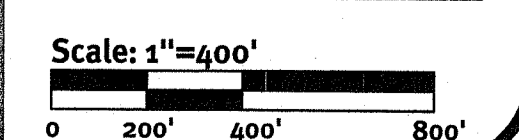
*Matthew D. Senack*

NO.	DATE	DESCRIPTION
1	08-19-2021	FINAL PLAN SUBMITTAL
2	11-04-2021	FINAL SUBMITTAL
3	08-08-2020	REVISED SUBMITTAL
4	08-08-2020	REVISED SUBMITTAL

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- General Interconnection Notes:**
1. THE PURPOSE OF THIS PLAN IS TO SHOW APPROXIMATE LOCATION OF THE ELECTRICAL DUCT BANK AND INTERCONNECTION. DESIGN OF THE DUCT BANK AND INTERCONNECTION TO BE DESIGNED BY OTHERS THIS PLAN IS A GRAPHICAL REPRESENTATION ONLY.
  2. OFFSITE INTERCONNECTION MUST COMPLY WITH FRESH WATER WETLANDS ACT 250-RICR-150-15-1.6 EXEMPT ACTIVITIES AND SPECIFICALLY SUBSECTION 1.6J NEW UTILITY LINES.
  3. A RHODE ISLAND DEPARTMENT OF TRANSPORTATION UTILITY PERMIT IS REQUIRED FOR THE INTERCONNECTION DESIGN IN BULGARMARSH ROAD. TOWN OF TIVERTON UTILITY APPLICATION IS REQUIRED FOR WORK WITHIN BRAYTON AND FISH ROADS. ALL OFFSITE WORK MUST BE INSTALLED IN THE IMPROVED TOWN AND STATE RIGHT OF WAY LIMITS.
  4. APPLICANT IS RESPONSIBLE FOR CONFORMING TO NATIONAL GRID CONSTRUCTION STANDARDS, AND OBTAINING ALL REQUIRED PERMITTING AND EASEMENTS NEEDED FOR NATIONAL GRID CONSTRUCTION.



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 tel 401-659-5890 fax 401-464-6006 www.diprete-eng.com

**BRIAN C. GILBERT**  
 REGISTERED PROFESSIONAL CIVIL ENGINEER

Environmental Management  
 APR 22 2021  
 Office of Water Resources

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DATE: JUL 28 2021  
 FILE # 20-0002  
 PROJECT # 2482.007

AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUL 28 2021  
 FILE # 20-0002  
 PROJECT # 2482.007

**Interconnection Plan**  
**Brayton Road Solar**  
 AP 003 Lot 103 & AP 505 Lots 101 and 102  
 Tiverton, Rhode Island 02878

SHEET 16