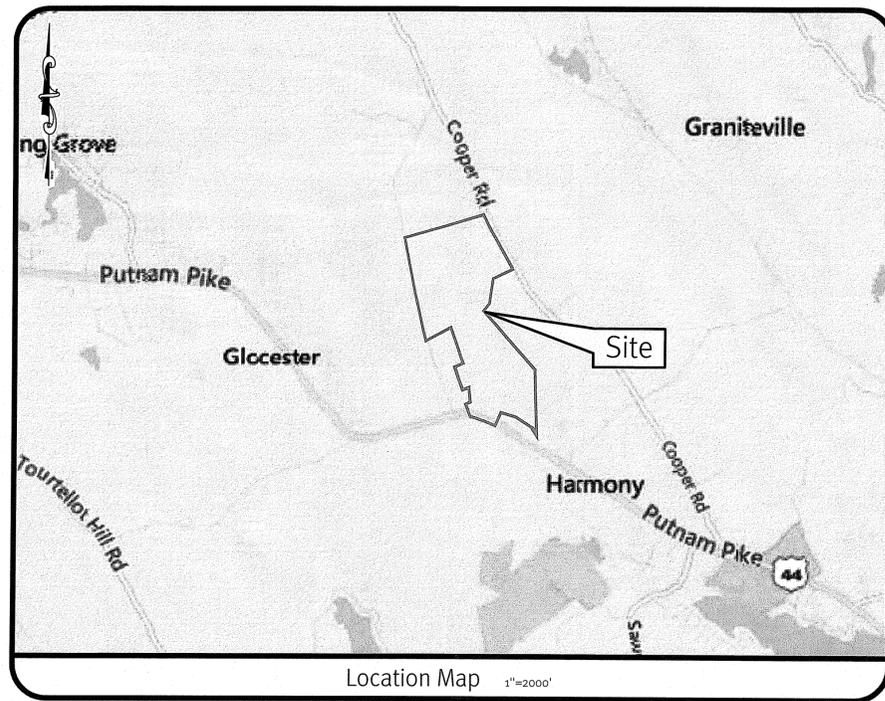


# RIDEM Preliminary Determination Submission

# Absalona Hill Road Solar

Absalona Hill Road  
Glocester, Rhode Island

Assessor's Plat 17 Lots 26 and 35



## Sheet Index

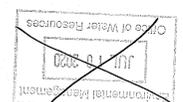
- 1 Cover Sheet
- 2 Aerial Half-Mile Radius and USGS Map
- 3 Notes and Legend
- 4 Existing Analysis Plan
- 5 Soil Erosion and Sediment Control Plan
- 6 Site Layout Plan
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- 9 Pole Locations-1
- 10 Pole Locations-2

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  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED AUG 18 2020 FILE # 19-0350  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*

Environmental Management  
JUL 9 2020  
Office of Water Resources



Cover Sheet  
Absalona Hill Road Solar  
Glocester, Rhode Island  
Assessor's Map 17 Lots 26 and 35  
Applicants  
Edward J. & Eva M. Kelley  
128 Cove Point Lane  
Williamsburg, VA 23185  
James E. & Lucille L. Petersen  
451 Putnam Pike  
Chepachet, RI 02814  
DE Job No: 2612-001, 2612-003 Copyright 2020 by DiPrete Engineering Associates, Inc.

KEVIN DEMERS  
*[Signature]*  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.  
The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	Drawn By: J.A.R.	Design By: J.A.R.
1	08-18-2020	RIDEM P.D. Response to Comments	J.A.R.	J.A.R.
2	08-26-2020	RIDEM Preliminary Determination Submission	J.A.R.	J.A.R.

DiPrete Engineering  
Two Stafford Court, Cranston, RI 02920  
Tel: 401-943-1000 Fax: 401-943-6006 www.diprete-eng.com  
Boston • Providence • Newport

z:\demain\projects\2612-001 kelly property solar\aircadd drawings\2612-001\_cvr.dwg Plotted: 6/18/2020

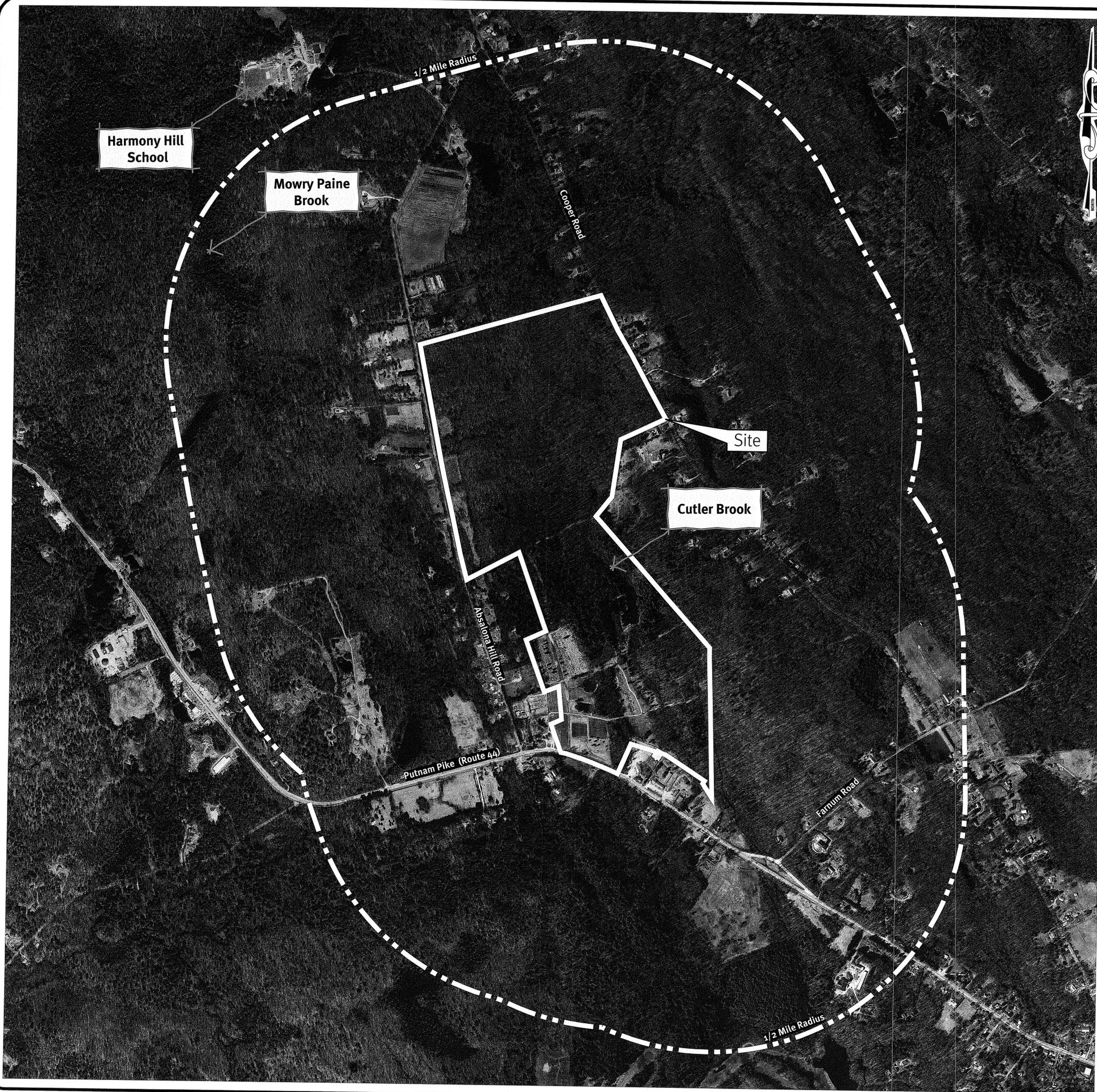
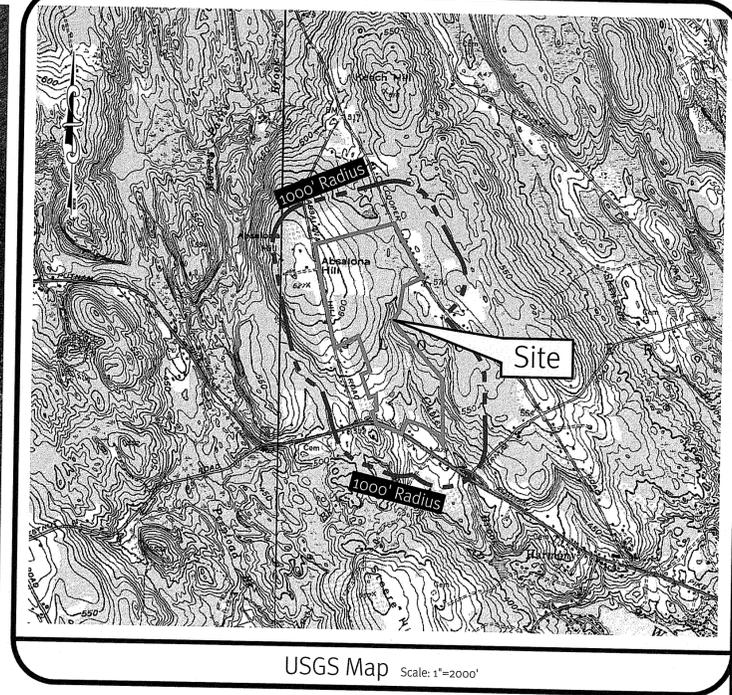


Photo Obtained from the RIGIS.  
 Scale: 1"=500'  
 0 250' 500' 1000'



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
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*Nancy L. Freeman*

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 JUL - 9 2020  
 OFFICE OF WATER RESOURCES

**Aerial Half-Mile Radius and USGS Map**  
**Absalona Hill Road Solar**  
 Gloucester, Rhode Island  
 Assessor's Map 17 Lots 26 and 35  
 Applicants  
**Edward J. Jr. & Eva M. Kelley**  
 538 Cross Street  
 Williamsburg, VA 23185  
**James E. & Lucille L. Petersen**  
 451 Putnam Pike  
 Chappaquiddick, RI 02884  
 DE Job No: 2612-001, 2612-002 Copyright 2020 by DiPrete Engineering Associates, Inc.

No.	Date	Description	Drawn By: J.A.R.	Design By: J.A.R.
1	05-08-2020	RIGIS PD Response to Comments	J.A.R.	J.A.R.
2	12-03-2019	RIGIS Preliminary Determination Submission	J.A.R.	J.A.R.

This regulatory submission set shall not be used for construction purposes unless stamped, issued for construction, and signed by a DiPrete Engineering representative.  
 The contractor is responsible for all of the means, methods, safety precautions and OSHA compliance in the implementation of this plan and design.

**KEVIN DEMERS**  
*Kevin Demers*  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

**DiPrete Engineering**  
 Two Stafford Court Cranston, RI 02920  
 tel. 401-943-1000 fax. 401-464-6006 www.diprete-eng.com  
**Boston • Providence • Newport**

General Notes:

- 1. THE SITE IS LOCATED ON THE TOWN OF GLOCESTER ASSESSOR'S PLAT 17 LOTS 26 AND 35.
2. THE SITE IS APPROXIMATELY 193.98± ACRES AND IS ZONED A-4.
3. THE OWNER OF AP 17 LOT 26 IS: EDWARD J. JR. & EVA M. KELLEY
THE OWNER OF AP 17 LOT 35 IS: JAMES E. & LUCILLE L. PETERSEN
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONES X SHADED AND X UNSHADED.
5. THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
6. ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
7. THE SITE IS WITHIN A: NON-COMMUNITY WELLHEAD PROTECTION AREA (RIDEM)
8. 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:
9. THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.).
10. THE SITE IS NOT PROPOSED TO BE SERVICED BY PUBLIC WATER OR SEWER.
11. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF GLOCESTER SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF DRAINAGE SWALES AND DETENTION PONDS.
12. THE SITE IS PROPOSED TO BE BUILT IN 1 PHASE.
13. SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON JUNE 21, 2019.
14. WETLAND FLAGGING PERFORMED BY DIPRETE ENGINEERING ON APRIL 12, 2018.
15. ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE IT PROPOSES TO SERVE.
16. THIS PLAN SET MAY REFERENCE AND/ OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS/ DETAILS BY OTHERS, AND/ OR THEIR ASSOCIATED SPECIFICATIONS.

Soil Information:

(REFERENCE: SOIL MAPPING OBTAINED FROM RIGIS. SOIL GEOGRAPHIC DATA DEVELOPED BY THE RHODE ISLAND SOIL SURVEY PROGRAM IN PARTNERSHIP WITH THE NATIONAL COOPERATIVE SOIL SURVEY)

Table with 2 columns: SOIL NAME, DESCRIPTION. Rows include CHB, PaA, PaB, PaC, Re, Rf, Sub, WhA, WhB, WoB.

Soil Erosion and Sedimentation Control Notes:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION.
2. ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, ETC. TO BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION AND THE SOIL EROSION SEDIMENTATION CONTROL PLAN (SESC).
3. TEMPORARY SWALES ARE TO BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED ROADWAY, TEMPORARY SWALES TO BE VEGETATED AFTER CONSTRUCTION.
4. ONCE THE SEDIMENT TRAPS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENTATION BASIN TO BE CLEANED AND BROUGHT TO FINAL DESIGN GRADES.
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 WASHOUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.

Demolition Notes:

- 1. CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR TO PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
3. 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.
4. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HERE IN.
5. 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.
6. 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 SWING TIES. COPIES OF LOCATION DOCUMENTATION MUST BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF DEMOLITION AND PRIOR TO START OF NEW CONSTRUCTION.

As-Built Notes:

ALL COMPONENTS OF THE DRAINAGE SYSTEM MUST BE ASBUILT PRIOR TO COVERING. ENGINEER TO BE NOTIFIED PRIOR TO COVERING TO SURVEY ASBUILT LOCATIONS. ENGINEER WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

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.
2. SEE SOLAR PANEL DRAWINGS FOR EXACT CONSTRUCTION DIMENSIONS AND DETAILS CONTIGUOUS TO THE SOLAR PANELS, INCLUDING UTILITY LOCATIONS, CONCRETE PADS, SOLAR PANEL POST FOOTINGS, ETC.
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.

Grading and Utility Notes:

- 1. CONSTRUCTION TO COMMENCE SPRING 2020 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
2. THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED SOLAR SITE.
3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE SOLAR PANELS TO ENSURE SURFACE WATER AND/OR GROUNDWATER ARE DIRECTED AWAY FROM THE STRUCTURES.
4. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE ARE TO BE COORDINATED WITH OWNER, SOLAR PANEL ENGINEER, AND CIVIL ENGINEER PRIOR TO INSTALLATION.
5. NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE ACCESS ROAD AREA AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
6. ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
7. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION.
8. NO STUMP DUMPS ARE PROPOSED ON SITE.

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.

DRAINAGE STRUCTURES TO BE AS FOLLOWS (UNLESS OTHERWISE NOTED ON PLANS):

- MANHOLES TO BE RIDOT STD. 4.2.0, 4.2.1 OR 4.2.2 AS REQUIRED
DRAINAGE MANHOLE COVERS TO BE RIDOT STD 6.2.1
APRON STONE, WHERE REQUIRED, TO BE RIDOT STD 7.1.7 OR 7.1.8.

ALL DRAINAGE STRUCTURES MUST BE WATERTIGHT.

ELECTRIC/TELECOM/GAS

PROPOSED ELECTRIC UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE UNDERGROUND. OWNER & 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.

Abbreviations Legend

Table listing abbreviations and their meanings: ADA, AHJ, AP, BC, BT, BIT, BIO, BS, BW, CB, (C), (CA), CLDIP, CO, CONC, (D), DCB, DI, DMH, DP, ELEV, EOP, ESC, EX, FES, FFE, GS, GWT, HW, HC, HDPE, ID, INV, IP, LF, LOD, LP, (M), N/F.

Abbreviations Legend

Table listing abbreviations and their meanings: AMERICANS WITH DISABILITY ACT, AUTHORITY HAVING JURISDICTION, ASSESSOR'S PLAT, BOTTOM OF CURB, BOTTOM OF TESTHOLE, BITUMINOUS (BERM), BIORETENTION, BASEMENT SLAB ELEVATION, FINISHED GRADE AT BOTTOM OF WALL, CATCH BASIN, CALCULATED, CENTERLINE, CHORD ANGLE, CONCRETE LINED DUCTILE IRON PIPE, CLEAN OUT, CONCRETE, DEED, DOUBLE CATCH BASIN, DROP INLET, DRAINAGE MANHOLE, DETENTION POND, ELEVATION, EDGE OF PAVEMENT, EROSION AND SEDIMENT CONTROL, EXISTING, FLARED END SECTION, FINISH FLOOR ELEVATION, GARAGE SLAB ELEVATION, GROUND WATER TABLE, HEADWALL, HIGH CAPACITY CATCH BASIN GRATE, HIGH DENSITY POLYETHYLENE, INLINE DRAIN, INVERT, INFILTRATION POND, LINEAR FEET, LIMIT OF DISTURBANCE, LIGHT POLE, MEASURED, NOW OR FORMERLY, OVERHEAD WIRE, POLYETHYLENE, PROPERTY LINE, PROPOSED, POLYVINYL CHLORIDE, REMOVE AND DISPOSE, REINFORCED CONCRETE PIPE, RHODE ISLAND, HIGHWAY WAD, ROOF LEADER, RADIUS, SLOPE, SUBDRAIN, SEDIMENT FOREBAY, SQUARE FOOT, STATE FREEWAY LINE, SEWER FORCE MAIN, SLAB ON GRADE ELEVATION, STATE HIGHWAY LINE, SEWER MANHOLE, SAND FILTER, SIDE SLOPE, STATION, TOP OF CURB, TRENCH DRAIN, TOP OF FOUNDATION, TRANSITION, TOP OF WALL (FINISHED), UNDERGROUND, DETENTION SYSTEM, UNDERGROUND, INFILTRATION SYSTEM, UTILITY POLE, WALKOUT ELEVATION, WATER QUALITY.

Existing Legend

(AS SHOWN ON PROPOSED PLANS) NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

Table listing existing features and their symbols: PROPERTY LINE, ASSESSORS LINE, BUILDING, BRUSHLINE, TREELINE, GUARDRAIL, FENCE, RETAINING WALL, STONE WALL, MINOR CONTOUR LINE, MAJOR CONTOUR LINE, WATER LINE, SEWER LINE, SEWER FORCE MAIN, GAS LINE, ELECTRIC LINE, OVERHEAD WIRES, DRAINAGE LINE, SOILS LINES, 100' PERIMETER WETLAND, 100' RIVERBANK WETLAND, 200' RIVERBANK WETLAND, FEMA BOUNDARY, STREAM, WETLAND LINE & FLAG, STATE HIGHWAY LINE, STATE FREEWAY LINE, NAIL FOUND/SET, DRILL HOLE FOUND/SET, BOUND FOUND/SET, SIGN, BOLLARD, CATCH BASIN, SOIL EVALUATION, DOUBLE CATCH BASIN, DRAINAGE MANHOLE, FLARED END SECTION, GUY POLE, ELECTRIC MANHOLE, UTILITY/POWER POLE, LIGHTPOST, SEWER/SEPTIC MANHOLE, SEWER VALVE, CLEANOUT, HYDRANT, IRRIGATION VALVE, WATER VALVE, WELL, MONITORING WELL, UNKNOWN MANHOLE, GAS VALVE, BENCH MARK, STREAM FLOW DIRECTION.

Proposed Legend

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

Table listing proposed features and their symbols: PROPERTY LINE, BUILDING SETBACKS, CHAINLINK FENCE, GUARD RAIL, RETAINING WALL, MINOR CONTOUR LINE, MAJOR CONTOUR LINE, SPOT ELEVATION, EDGE OF PAVEMENT, BITUMINOUS BERM, CONCRETE CURB, BUILDING FOOTPRINT, BUILDING OVERHANG, ASPHALT PAVEMENT, HEAVY DUTY ASPHALT PAVEMENT, HEAVY DUTY CONCRETE, CONCRETE, ASPHALT SIDEWALK, SAWCUT LINE, SIGN, SINGLE LIGHT, DOUBLE LIGHT, OVERHANGING LIGHT, ACCESSIBLE PARKING SPACE SYMBOLS, BUILDING INGRESS/EGRESS, DRAINAGE LINE, PERFORATED SUBDRAIN, SWALE, SEWER FORCE MAIN, GAS LINE, WATER LINE, HYDRANT ASSEMBLY, WATER SHUT OFF, WATER VALVE, THRUST BLOCK, SEWER LINE, OVERHEAD WIRE, ELECTRIC, TELEPHONE, CABLE LINE, LIMIT OF DISTURBANCE/LIMIT OF CLEARING, SEDIMENTATION BARRIER, SILT FENCE, COMPOST SOCK OR APPROVED EQUAL, SLOPES STEEPER THAN 3:1 (2:1 OR 1:1 SLOPES), UNDERGROUND INFILTRATION OUTLINE, POND ACCESS, RIPRAP, SAND FILTER, BIO RETENTION, CATCH BASIN, DOUBLE CATCH BASIN, MANHOLE, FLARED END SECTION, HEADWALL.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL. DATED AUG 18 2020 FILE # 19-0350 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Handwritten signature: Nancy L. Freeman

Utility Note:

ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATION, BLASTING, UTILITY INSTALLATION, BACKFILLING, GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS.

PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION.

DIPRETE ENGINEERING IS NOT A PROFESSIONAL UTILITY LOCATION COMPANY, AND IS NOT RESPONSIBLE FOR UNDERGROUND UTILITIES, DEPICTED OR NOT, EITHER IN SERVICE OR ABANDONED, ANY SIZES, LOCATIONS, EXISTENCE, OR LACK OF EXISTENCE OF UTILITIES SHOWN ON THESE PLANS SHOULD BE CONSIDERED APPROXIMATE UNTIL VERIFIED BY A PROFESSIONAL UTILITY LOCATION COMPANY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.

Diprete Engineering logo and contact information: Two Stafford Court Cranston, RI 02920, tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

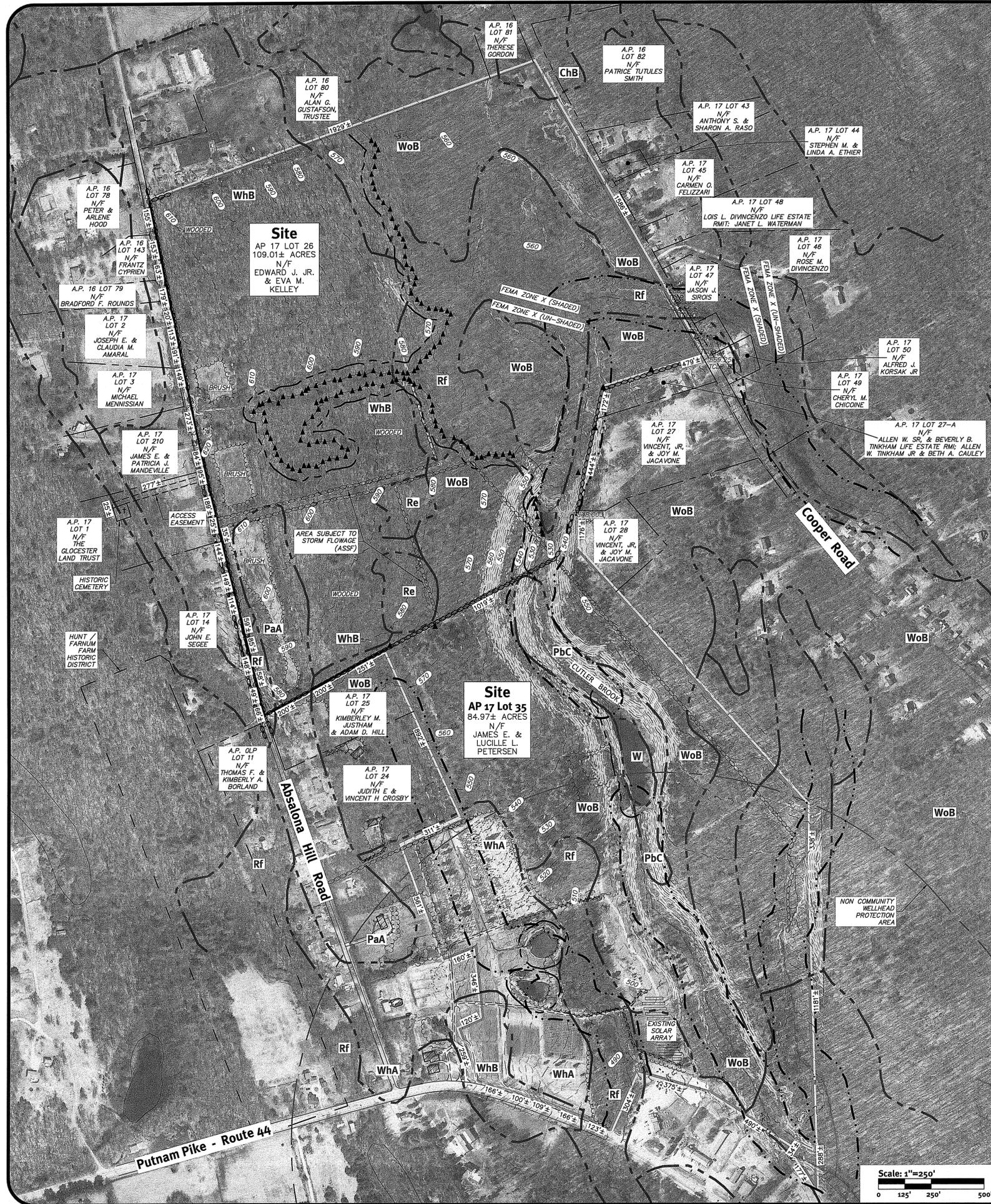
Professional Engineer seal for Kevin Demers, Registered Professional Engineer Civil.

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a Diprete Engineering representative.

Table with 4 columns: No., Date, Description, Drawn By. Includes a date stamp: JUL 9 2020.

Notes and Legend section header and Absalona Hill Road Solar project information: James E. & Lucille L. Petersen, 451 Putnam Pike, Chepachet, RI 02814.

z:\demman\projects\2612-001\_willy\_property\_solar\autocad drawings\2612-001\_plan.dwg Plotmed: 6/18/2020



**Lidar Note:**

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.

**Existing Legend:**

ITEMS SHOWN BELOW SUPERCEDE ITEMS SHOWN ON NOTES AND LEGEND SHEET



Slopes Table			
	MIN SLOPE	MAX SLOPE	COLOR
1	15.00%	20.00%	
2	20.01%	VERTICAL	

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

JUL - 9 2020

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED AUG 18 2020 FILE # 19-055D  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*

**Diprete Engineering**  
Two Stafford Court Cranston, RI 02920  
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**Boston • Providence • Newport**

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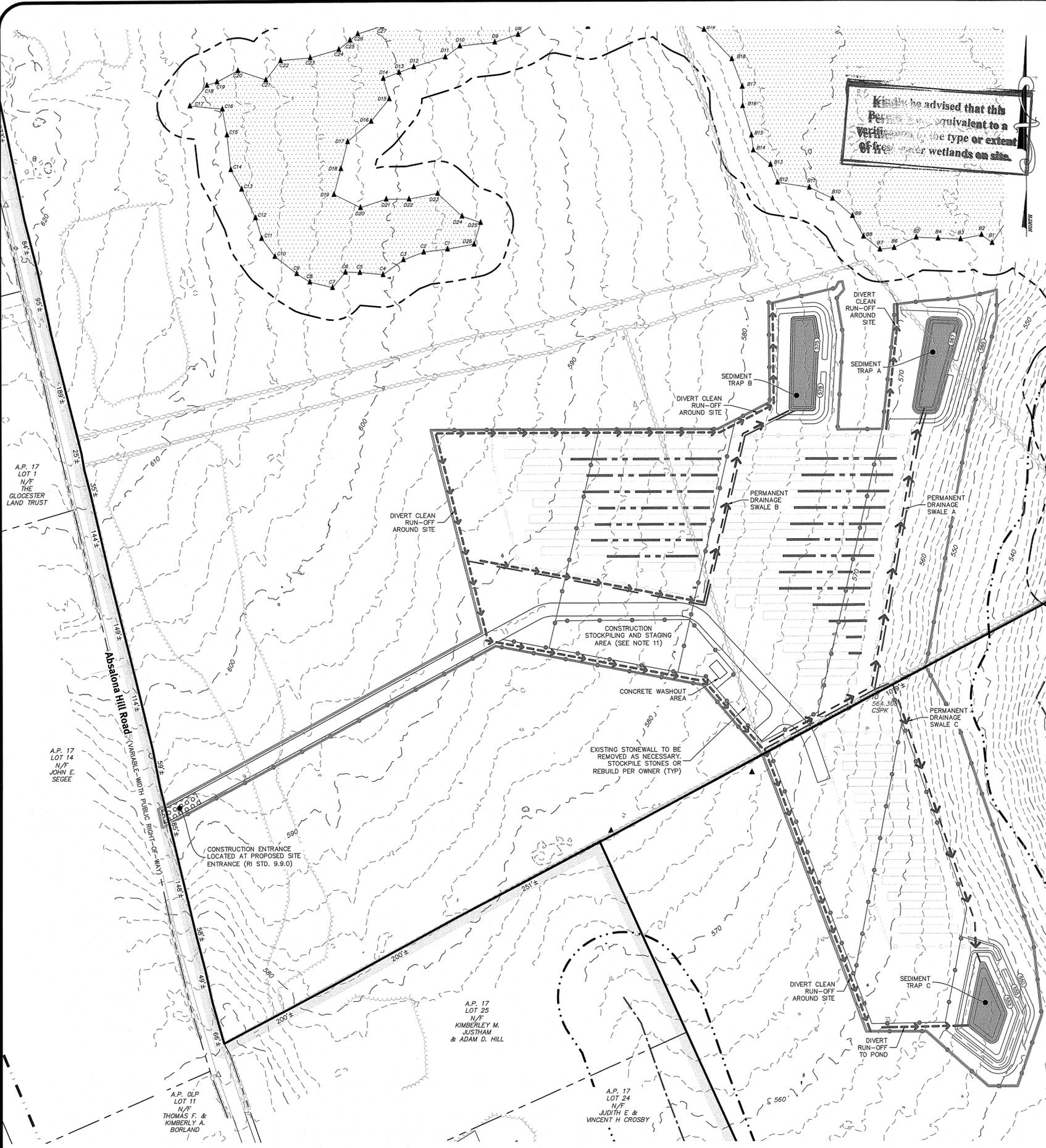
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The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By	Design By: J.A.R.
1	06-18-2020	RI/RI/01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100	J.A.R.	J.A.R.

**Existing Analysis Plan**  
**Absalom Hill Road Solar**  
Assessor's Map 17 LOTS 26 and 35

James E. & Lucille L. Peterson  
451 Putnam Pike  
Chepachet, RI 02854



Kindly be advised that this Permit is equivalent to a Wetland Delineation Report for wetlands on site.

**General Notes:**

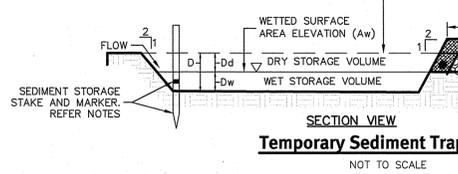
1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
2. THE TEMPORARY SEDIMENT TRAP MUST PROVIDE A STORAGE VOLUME FOR ONE INCH OF RUNOFF 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.
3. 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.
4. THE OUTLET MUST BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. 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).
8. SIDE SLOPES OF THE EMBANKMENT MUST BE 2:1 OR FLATTER.
9. MODIFIED RIPRAP: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
10. 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.
11. CONSTRUCTION STOCKPILING AND STAGING AREA TO INCLUDE CONCRETE WASHOUT AREA AND VEHICLE FUELING/ STORAGE/ MAINTENANCE AREA.

SEDIMENT TRAP DIMENSIONS*	TRAP A	TRAP B	TRAP C
TRIBUTARY DRAINAGE AREA	4.15 ac	2.25 ac	2.84 ac
WET STORAGE DEPTH (Dw)	2.00 ft	1.00 ft	2.00 ft
DRY STORAGE DEPTH (Dd)	1.00 ft	1.00 ft	1.00 ft
TOTAL DEPTH (D)	3.00 ft	2.00 ft	3.00 ft
BOTTOM OF TRAP AREA (Ab)	3,467 sq.ft	3,878 sq.ft	2,225 sq.ft
WETTED SURFACE AREA (Aw)	5,500 sq.ft	4,870 sq.ft	3,753 sq.ft
SURFACE AREA AT OUTLET (Ad)	6,626 sq.ft	5,933 sq.ft	4,636 sq.ft

\*TRAP DIMENSIONS REPRESENT MINIMUM REQUIRED SIZING TO MEET THE RISESCH. CONTRACTOR MAY SHAPE TRAP DIFFERENTLY THAN SHOWN ON PLANS AS LONG AS THE MINIMUM SIZING HAS BEEN PROVIDED. PROPOSED SEDIMENT TRAP MUST FIT WITHIN FOOTPRINT OF PROPOSED PERMANENT BMP POND. PROPOSED SEDIMENT TRAP MUST NOT BE LARGER THAN PROPOSED PERMANENT BMP POND.

MINIMUM TOP WIDTH VS HEIGHT

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



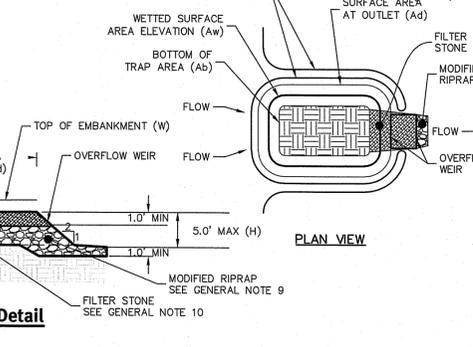
**INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:**

1. INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. 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.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. 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.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AS DESIGNATED BY THE GEOTECHNICAL ENGINEER.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

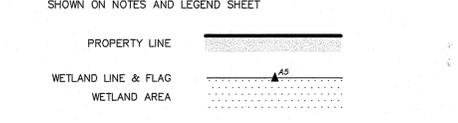
**INSTALLATION NOTES:**

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. 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.
5. 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

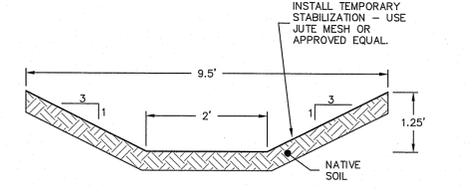
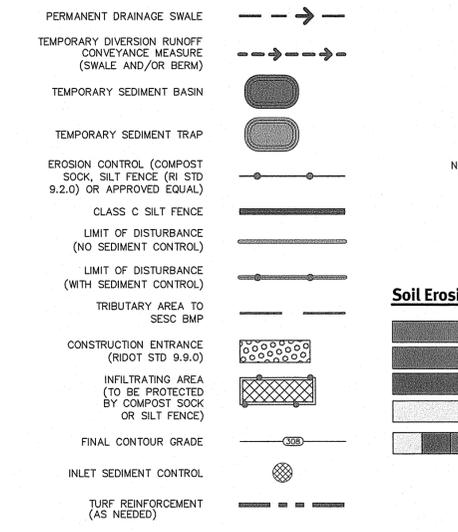
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED JUL 18 2020 FILE # 19-035D  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



**Existing Legend**

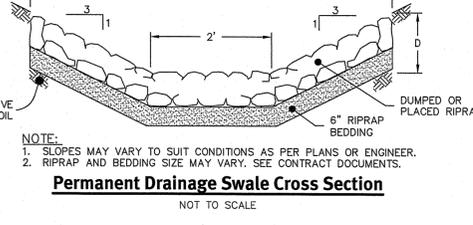


**Soil Erosion Control Legend:**



**Temporary Sediment Diversion Channel**

LOCATION	(W) WIDTH	(D) DEPTH
SWALE A	15.06'	2.01'
SWALE B	11.42'	1.57'
SWALE C	12.80'	1.80'



**Soil Erosion Control Implementation Phasing**

**Phase IA** - INSTALL EROSION CONTROL SILT FENCE & STONE CONSTRUCTION ENTRANCE.

**Phase IB** - INSTALL TEMPORARY SEDIMENTATION TRAP. CONSTRUCT CLEAN WATER DIVERSIONS.

**Phase IC** - CONSTRUCT PROPOSED DIVERSIONS.

**Phase IIA** - CLEAR AND GRUB LOD AREA. INSTALL BMP DRAINAGE PIPING AND RIP RAP WORKING FROM THE DOWN GRADIENT OF THE BMP AREA TO THE UP GRADIENT LIMITS OF THE BMP AREA. INSTALL STONE ACCESS ROAD.

**Phase IIB** - STABILIZE ALL DISTURBED AREAS, DE-CONSTRUCT DIVERSIONS AND TEMPORARY SEDIMENTATION TRAPS.

**Note** - SOIL EROSION CONTROL IMPLEMENTATION PHASING SHOULD NOT BE MISCONSTRUED WITH CONSTRUCTION PHASING/ SEQUENCING. ALL MEASURES DEPICTED ON THIS PLAN ARE TO BE INSTALLED WITH THE FIRST PHASE OF CONSTRUCTION.

**Note: This Plan Must Be Reproduced In Color**

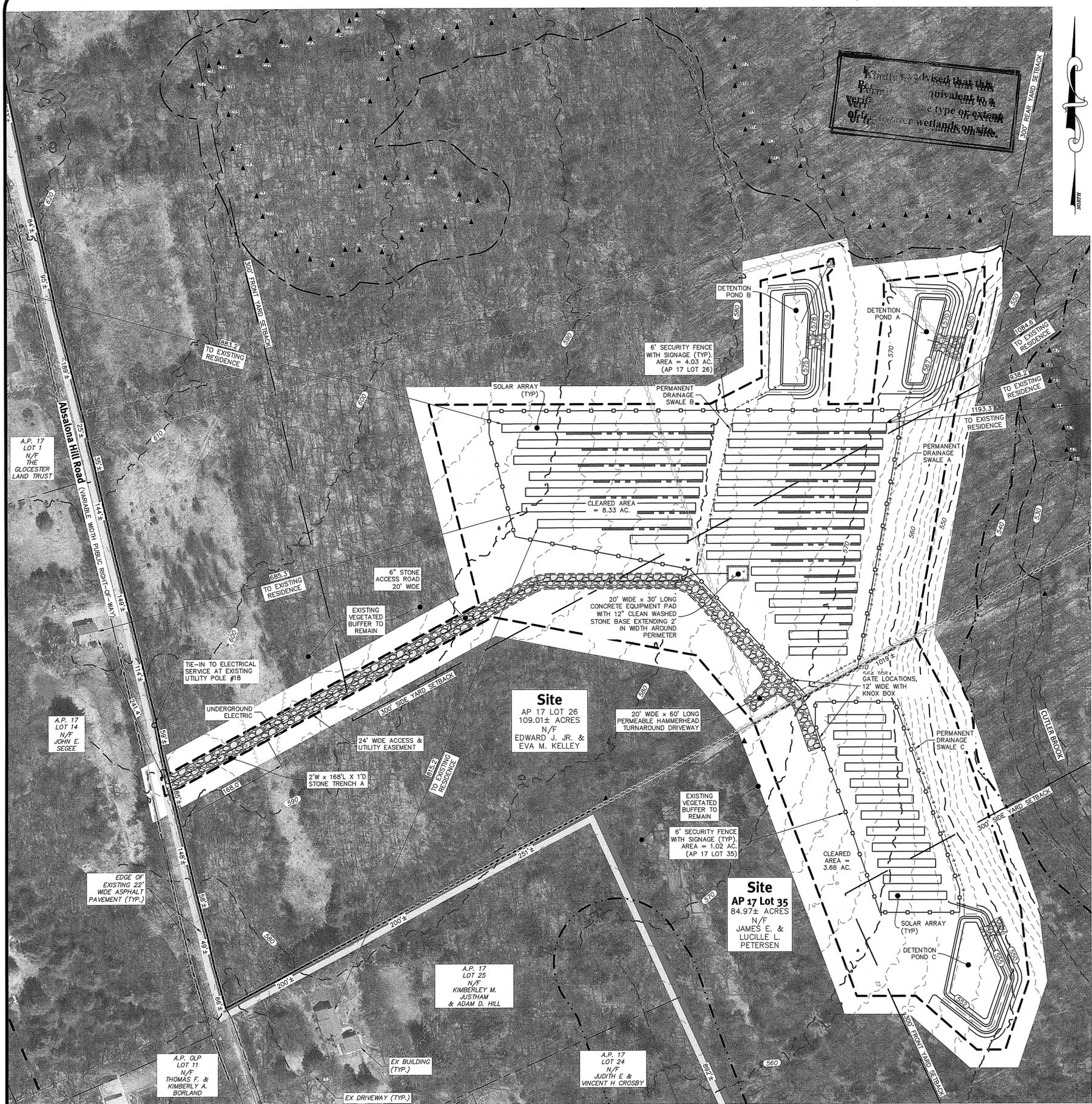
**Diprete Engineering**  
Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com  
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**KEVIN DEMERS**  
REGISTERED PROFESSIONAL ENGINEER CIVIL  
No. 8557

This regulatory submission set shall not be used for construction purposes unless stamped, issued for construction and signed by a Diprete Engineering representative.  
The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

Environmental Assessment  
JUL - 9 2020  
Office of Water Resources

**Soil Erosion and Sediment Control Plan**  
**Abalona Hill Road Solar**  
Glocester, Rhode Island  
Assessors: Map 17, Lots 26 and 35  
**James E. & Lucille L. Petersen**  
45 Putnam Pike  
128 Cove Point Lane  
Chepachet, RI 02814  
Williamsburg, VA 23185  
DE Job No: 2612-001, 2612-003 Copyright 2020 by Diprete Engineering Associates, Inc.  
Drawn By: J.A.R. Design By: J.A.R.



Kindly be advised that this is a preliminary plan. It is not to be used for construction. It is subject to change without notice. The contractor is responsible for all of the means, methods, safety precautions and requirements, and shall obtain all necessary permits and approvals for the implementation of this plan and design.

**Site Layout Notes:**

- NO NEW WELLS OR OWTS PROPOSED. THE SITE IS NOT PROPOSED TO BE SERVICED BY PUBLIC WATER OR SEWER.
- ALL ELECTRICAL CONNECTION AND DISTRIBUTION LINES WITHIN THE FACILITY MUST BE UNDERGROUND. ELECTRICAL EQUIPMENT BETWEEN THE FACILITY AND THE UTILITY CONNECTION MAY BE ABOVE GROUND IF REQUIRED BY THE UTILITY.
- THE PROPOSED WORK IS ADJACENT TO, BUT NOT WITHIN, A NON-COMMUNITY WELLHEAD PROTECTION AREA. REFER TO EXISTING ANALYSIS PLAN ON SHEET 4.
- NO NEW LIGHTING INSTALLATIONS ARE PROPOSED.
- PROPOSED SIGNAGE IS LIMITED TO SECURITY SIGNS (OR SIMILAR) INSTALLED ON THE FACILITY PERIMETER FENCING.
- PROJECT WORK WILL BE UNDERTAKEN IN ONE PHASE AND IS ANTICIPATED TO BEGIN SPRING 2020 AND CONCLUDE WINTER 2020, INCLUDING ALL ASSOCIATED WORKS.
- NO PRIME AGRICULTURAL SOILS ARE TO BE REMOVED DURING CONSTRUCTION AND INSTALLATION OF THE SYSTEM.
- 20' MINIMUM SEPARATION IS REQUIRED BETWEEN THE SOLAR ARRAY AND PERIMETER FENCE.
- PERIMETER FENCE TO BE 6 FEET IN HEIGHT MINIMUM AND MAINTAIN 8" OF GROUND CLEARANCE TO ALLOW FOR WILDLIFE PASSAGE.
- GROUND MOUNTED SOLAR INSTALLATIONS MUST NOT EXCEED 12 FEET IN HEIGHT.
- TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO WELLS WITHIN 400 FEET OF THE SOLAR ARRAYS.

**Dimensional Regulations:**

CURRENT ZONING:	A-4 (AGRICULTURAL)
MINIMUM LOT AREA:	4 ACRES
MINIMUM FRONTAGE AND LOT WIDTH:	350'
MINIMUM FRONT YARD:	300'*
MINIMUM SIDE YARD:	300'*
MINIMUM REAR YARD:	300'*
MAXIMUM STRUCTURE HEIGHT:	12'***
MAXIMUM LOT COVERAGE:	15% (6.3% PROPOSED)****
MAXIMUM CLEARING:	30% OF EXISTING FORESTED AREA (7.5% PROPOSED)

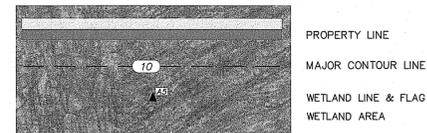
- \* - LARGE-SCALE SOLAR INSTALLATIONS SHALL BE SET BACK AT LEAST 300 FEET FROM ANY ROADWAY AND FROM ANY SIDE OR REAR PROPERTY LINES.
- \*\* - THIS LAYOUT WILL REQUIRE RELIEF FROM THE 300' SIDE YARD SETBACK.
- \*\*\* - SYSTEMS, EQUIPMENT AND STRUCTURES SHALL NOT EXCEED 12 FEET IN HEIGHT WHEN GROUND-MOUNTED.
- \*\*\*\* - THE TOTAL FOOT PRINT OF LAND OCCUPIED BY ALL COMPONENTS OF THE SYSTEM, INTER-ROW AND PANEL/COLLECTOR SPACING, ACCESS, AND ALL OTHER AREA WITHIN THE REQUIRED PERIMETER SECURITY FENCING.

**Viewshed Analysis:**

THE PROPOSED SOLAR DEVELOPMENT WILL BE SCREENED FROM ABSALONA HILL ROAD ALONG WITH NEIGHBORING PARCELS WITH A VEGETATED BUFFER AND/OR LANDSCAPE SCREENING ALONG WITH EXISTING UNDISTURBED TREELINE PER TOWN OF GLOUCESTER ORDINANCE REQUIREMENTS.

**Existing Legend**

ITEMS SHOWN BELOW SUPERCEDE ITEMS SHOWN ON NOTES AND LEGEND SHEET



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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DATED AUG 10 2020 FILE # 19-0350  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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*Nancy L. Petersen*

Environmental Management  
JUL - 9 2020  
Office of Water Resources

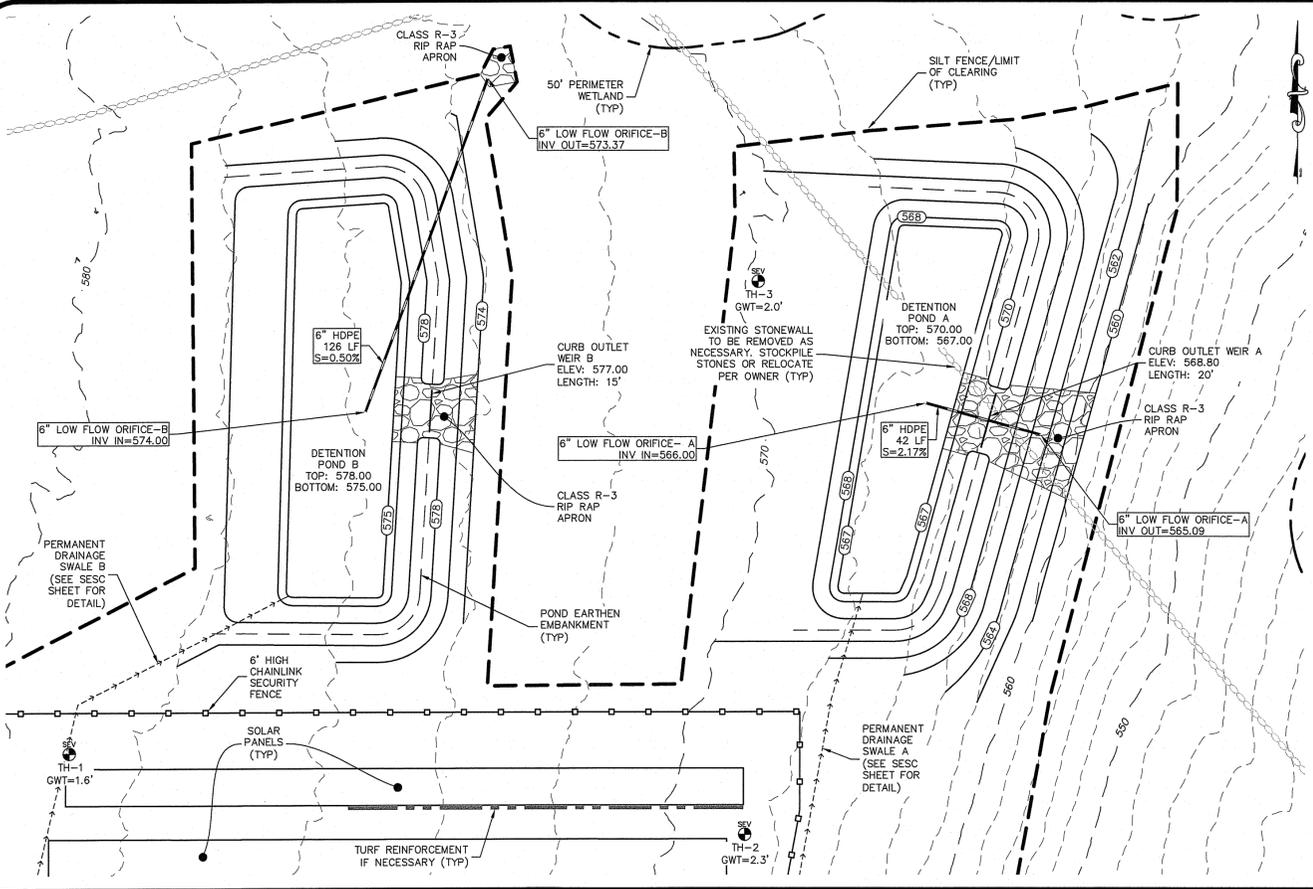
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**KEVIN DEMERS**  
*Kevin Demers*  
REGISTERED PROFESSIONAL ENGINEER CIVIL

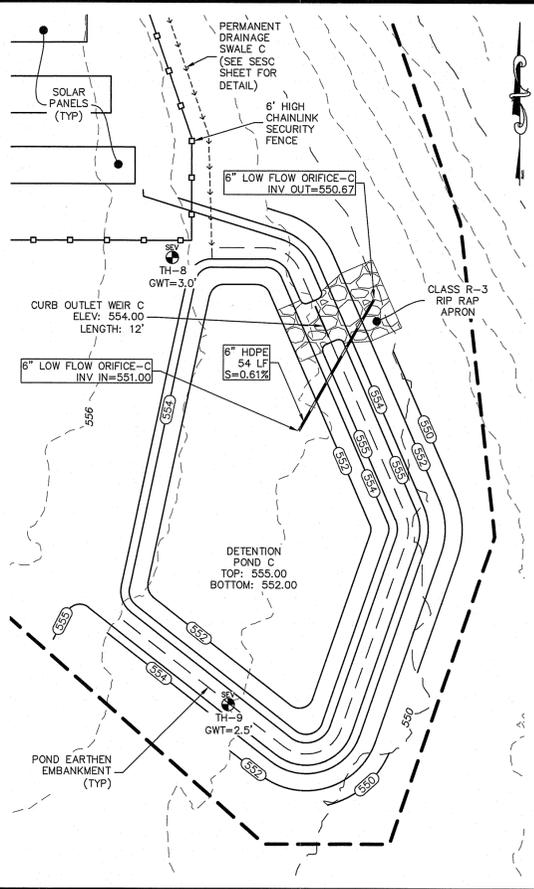
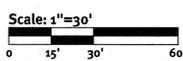
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No.	Date	Description	By:
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2	08-18-2020	ISSUED FOR CONSTRUCTION	J.A.R.
3	08-18-2020	ISSUED FOR CONSTRUCTION	J.A.R.
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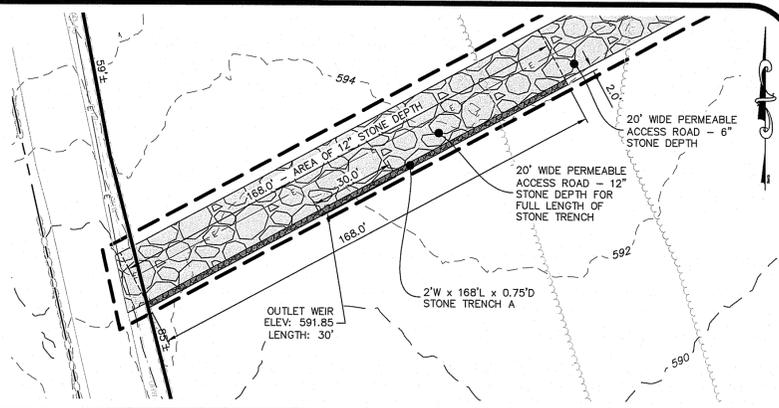
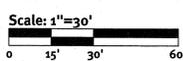
**Site Layout Plan**  
**Absalona Hill Road Solar**  
Glocester, Rhode Island  
Assessor's Map 17 Lots 26 and 35  
Applicants: **Edward J. Jr. & Eva M. Kelley**  
451 Fournham Pike  
1238 Cove Point Lane  
Williamsburg, VA 23185  
**James E. & Lucille L. Petersen**  
451 Fournham Pike  
Chilpancingo, Mexico 22824  
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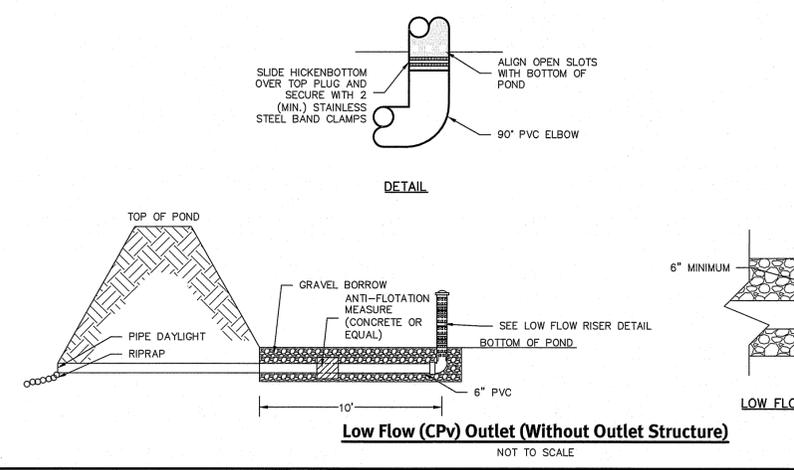
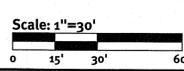
Detention Ponds A and B



Detention Pond C

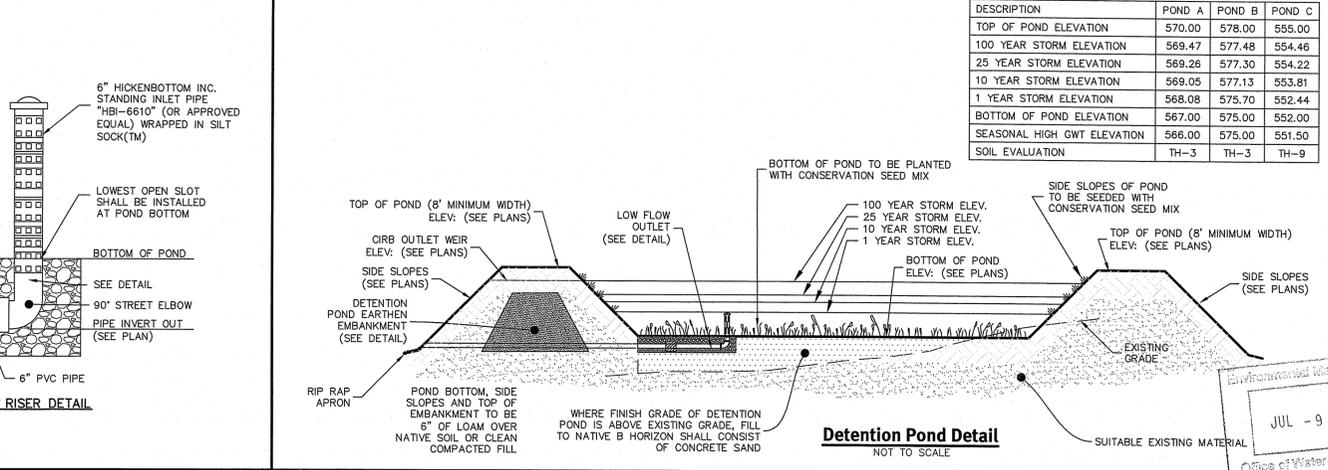


Stone Trench A



Low Flow (CPV) Outlet (Without Outlet Structure)

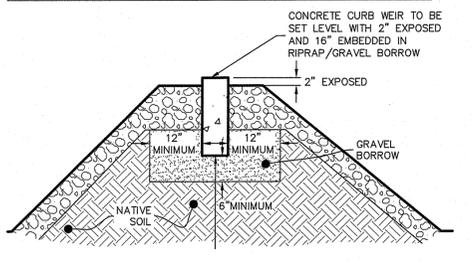
NOT TO SCALE



Detention Pond Detail

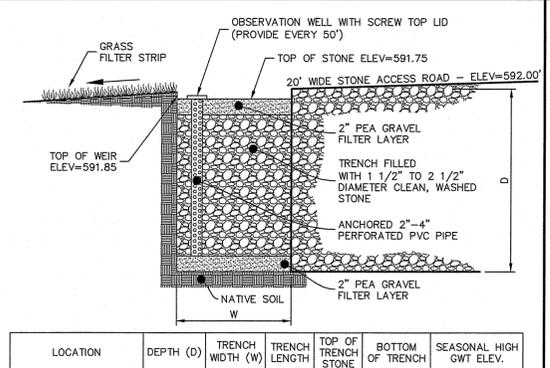
NOT TO SCALE

LOCATION	TOP OF POND ELEV.	WEIR INVERT	WEIR DEPTH	RIPRAP CLASS
POND A	570.00	568.80	1.20'	R-3
POND B	578.00	577.00	1.00'	R-3
POND C	555.00	554.00	1.00'	R-3



Curb Outlet Weir Cross Section

NOT TO SCALE



Stone Trench

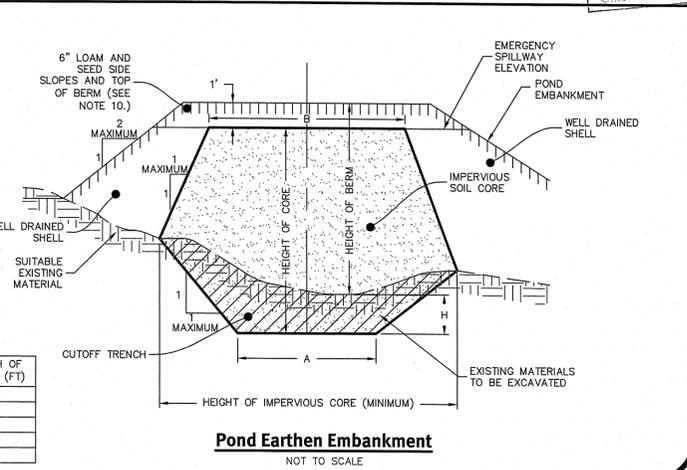
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LOCATION	DEPTH (D)	TRENCH WIDTH (W)	TRENCH LENGTH	TOP OF TRENCH STONE	BOTTOM OF TRENCH	SEASONAL HIGH GWT ELEV.
STONE TRENCH A	1'	2'	168'	591.75	591.00	590.00

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'-8", 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' (A:H)
- 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.

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



Pond Earthen Embankment

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

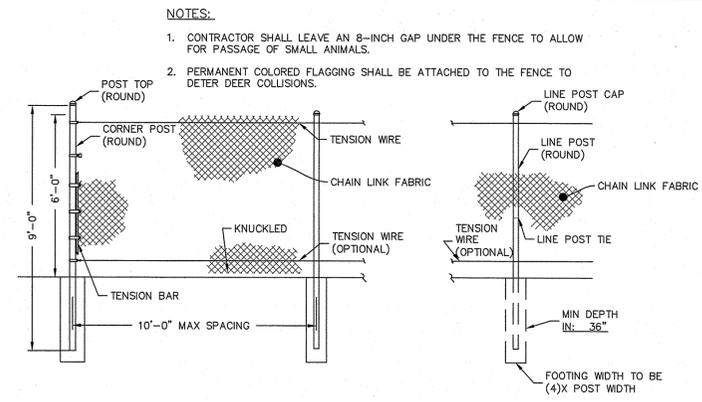
KEVIN DEMERS  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

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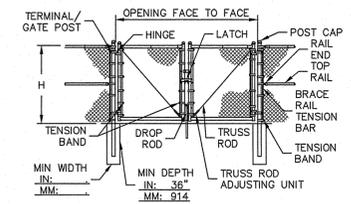
No.	Date	Description	By
1	06-08-2020	ROW PD Response to Comments	J.A.R.
2	07-28-2020	ROW PD Preliminary Determination Submission	J.A.R.

Design By: J.A.R.  
Drawn By: J.A.R.

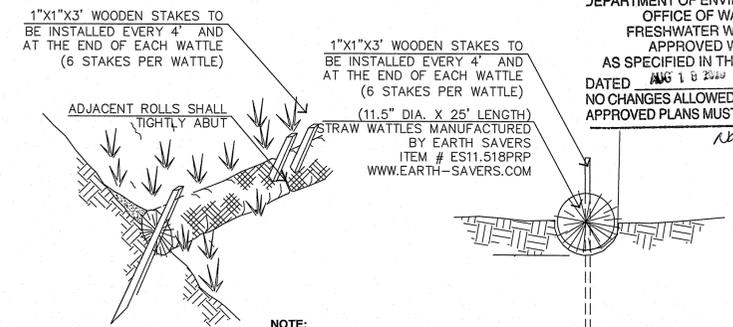
Drainage Details  
Absalona Hill Road Solar  
Glocester, Rhode Island  
Assessor's Map 17, LOTS 26 and 35  
James E. & Lucille L. Petersen  
Edward J. Jr. & Eva M. Kelley  
451 Putnam Pike  
128 Cove Point Lane  
Williamsburg, VA 23185  
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**Typical Fence Detail**  
NOT TO SCALE

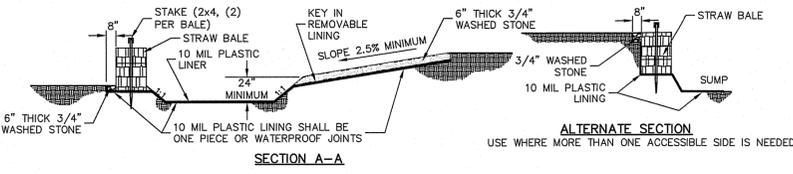
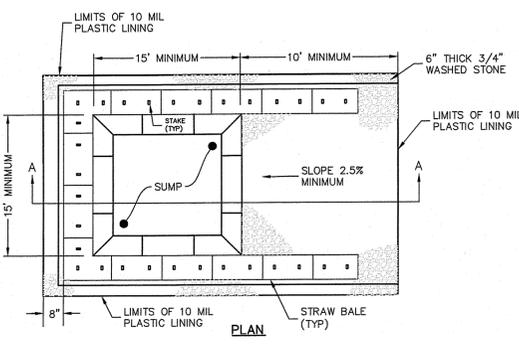


**Double Swing Gate 12' Opening**  
NOT TO SCALE



**Straw Wattle Sediment Barrier**  
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 AUG 18 2020 FILE # 19-0350  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy C. Freeman*

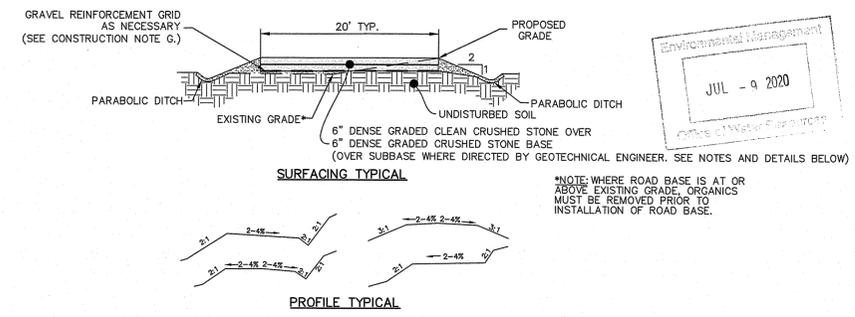


**Concrete Washout Area**  
(NOT TO SCALE)

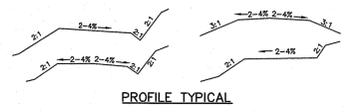
**WASHOUT SIGN**

**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.



**SURFACING TYPICAL**



**PROFILE TYPICAL**

**CLEAN CRUSHED STONE SPECIFICATIONS**

SEIVE DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES
90mm (3.5in)	100
75mm (3in)	90-100
50mm (2in)	75-100
25mm (1in)	50-80
12.5mm (0.5in)	30-60
4.75mm (No.4)	0-40
7.5um (No. 200)	0

**DENSE GRADED CLEAN CRUSHED STONE:**

A. DENSE GRADED CLEAN 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:

B. SOURCE OF MATERIAL MUST BE OBTAINED FROM AREAS STRIPPED AND CLEANED OF SOIL AND DEBRIS BEFORE BLASTING

C. MATERIAL COARSER THAN THE 4.75mm (No. 4) SEIVE MUST NOT BE MORE THAN 30 PERCENT, BY MASS (WEIGHT), OF THIN AND/OR ELONGATED PIECES.

**BASE SPECIFICATIONS**

SEIVE DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES
90mm (3.5in)	100
75mm (3in)	90-100
50mm (2in)	75-100
25mm (1in)	50-80
12.5mm (0.5in)	30-60
4.75mm (No.4)	0
7.5um (No. 200)	0

**DENSE GRADED CRUSHED STONE FOR SUBBASE:**

A. DENSE GRADED CRUSHED STONE FOR SUBBASE 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:

B. SOURCE OF MATERIAL MUST BE OBTAINED FROM AREAS STRIPPED AND CLEANED OF SOIL AND DEBRIS BEFORE BLASTING

C. MATERIAL COARSER THAN THE 4.75mm (No. 4) SEIVE MUST NOT BE MORE THAN 30 PERCENT, BY MASS (WEIGHT), OF THIN AND/OR ELONGATED PIECES.

**SUBBASE SPECIFICATIONS (WHERE DIRECTED)**

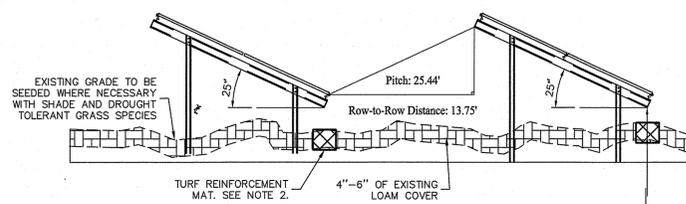
CONDITIONS:	ROAD THICKNESS	STONE SIZE	FINES
SUBBASE LAYER WITH GEOTEXTILE FABRIC (NOT EXCESSIVELY WET)	4" MIN.	3-3 1/2	0-6%
SUBBASE LAYER WITH GEOTEXTILE FABRIC (WET CONDITIONS)	6" MIN.	3-3 1/2	0-6%

**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 1FT 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.

**NOTE:**

- CLEAN WASHED STONE IS REQUIRED FOR THE PERMEABLE ACCESS ROAD TO PROMOTE INFILTRATION.



**NOTE:**

- TOPSOIL ON SITE SHALL BE PRESERVED. TOPSOIL SHALL NOT BE EXPORTED FROM THE SITE.
- PERMANENT TURF MATS TO BE INSTALLED IF EROSION ISSUES PERSIST AFTER PERMANENT STABILIZATION AND/OR TO SUPPORT PERMANENT STABILIZATION.

**Onsite Grading Material and PV Array Distance Scheme - Tilt, Angle, and Shading Detail**  
NOT TO SCALE

**6" - 12" Stone Permeable Access Drive**  
NOT TO SCALE

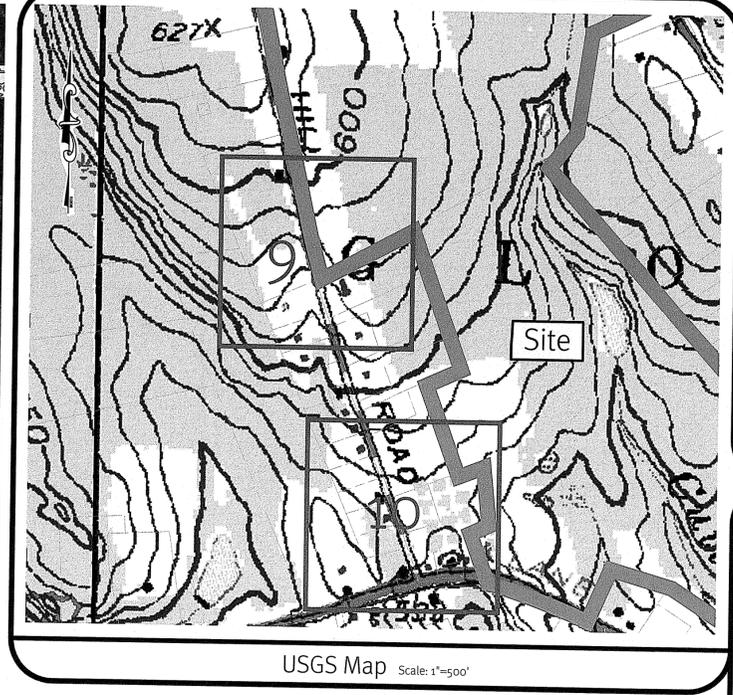
**KEVIN DEMERS**  
*Kevin Demers*  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

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No.	Date	Description	By	Design By
1	06-18-2020	REVISION TO RESPONSE TO COMMENTS	J.A.R.	J.A.R.
2	12-08-2020	REVISION PRELIMINARY DETERMINATION SUBMISSION	J.A.R.	J.A.R.

**Detail Sheet**  
**Absalona Hill Road Solar**  
Gilester, Rhode Island  
Assessors Map 17 Lots 2-6 and 35  
**James E. & Lucille L. Petersen**  
James E. Petersen  
491 Putnam Pike  
128 Cove Point Lane  
Williamsburg, VA 23185  
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USGS Map Scale: 1"=500'

**Note:**

NO WETLANDS OR WATER BODIES PRESENT IN THE VICINITY OF THE PROPOSED POLE REPLACEMENTS.

**Existing Legend**

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	PROPERTY LINE
	ASSESSOR'S LINE
	50' PERIMETER WETLAND
	100' RIVERBANK WETLAND
	200' RIVERBANK WETLAND
	APPROXIMATE STREAM OR RIVER LOCATION
	WETLAND LINE
	WETLAND AREA
	EXISTING UTILITY POLE TO BE REPLACED OR NEW POLE (SEE CALL OUT)

Photo Obtained from RIGIS 2014 Imagery



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*Nancy C. Freeman*



**Pole Locations-1**  
**Absalona Hill Road Solar**  
Applicants: Edward J. & Eva M. Kelley  
Glocester, Rhode Island  
Assessor's Map 17 Lots 26 and 35  
128 Cove Point Lane  
Williamsburg, VA 23185  
James E. & Lucille L. Petersen  
131 Putnam Pike  
Chapel Hill, NC 27514  
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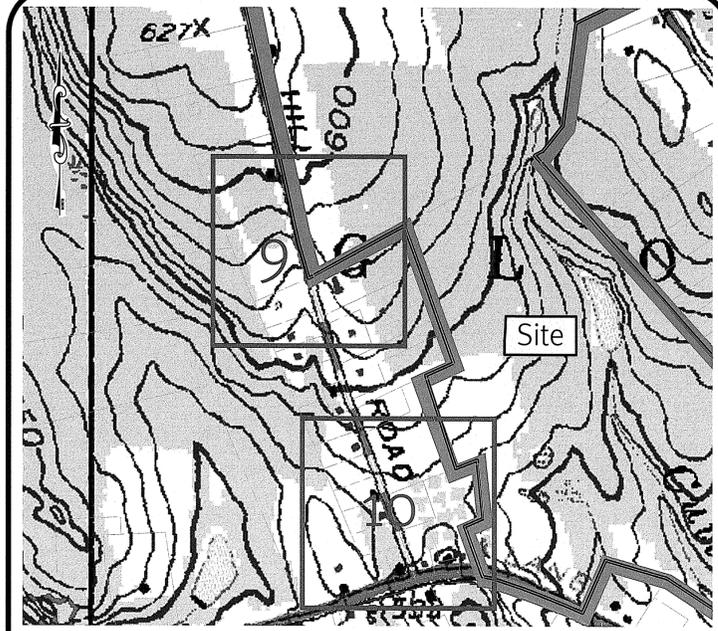
KEVIN DEMERS  
*Kevin Demers*  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

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No.	Date	Description	Drawn By: J.A.R.	Design By: J.A.R.
1	06-18-2020	Final Response to Comments	J.A.R.	J.A.R.
2	07-01-2020	Final Primary Determination Submission	J.A.R.	J.A.R.

**DiPrete Engineering**  
Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-943-6006 www.diprete-eng.com  
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USGS Map Scale: 1"=500'

**Note:**

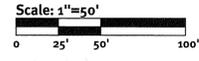
NO WETLANDS OR WATER BODIES PRESENT IN THE VICINITY OF THE PROPOSED POLE REPLACEMENTS.

**Existing Legend**

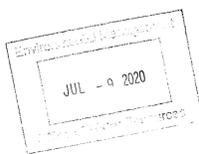
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- PROPERTY LINE
- ASSESSORS LINE
- 50' PERIMETER WETLAND
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- 200' RIVERBANK WETLAND
- APPROXIMATE STREAM OR RIVER LOCATION
- WETLAND LINE
- WETLAND AREA
- EXISTING UTILITY POLE TO BE REPLACED OR NEW POLE (SEE CALL OUT)

Photo Obtained from RIGIS 2014 Imagery



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*Nancy C. Premeaux*



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**KEVIN DEMERS**  
  
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No.	Date	Description	By
1	06-08-2020	RIBEM PD Response to Comments	J.A.R.
2	12-08-2019	RIBEM Preliminary Determination Submission	J.A.R.

Drawn By: J.A.R. Design By: J.A.R.

**Pole Locations-2**  
**Absalona Hill Road Solar**  
 Applicants: **Edward J. Jr. & Eva M. Kelley**  
 Gloucester, Rhode Island  
 128 Cove Point Lane  
 Williamsburg, VA 23185  
 James E. & Lucille L. Petersen  
 451 Putnam Pike  
 Chepachet, RI 02814  
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