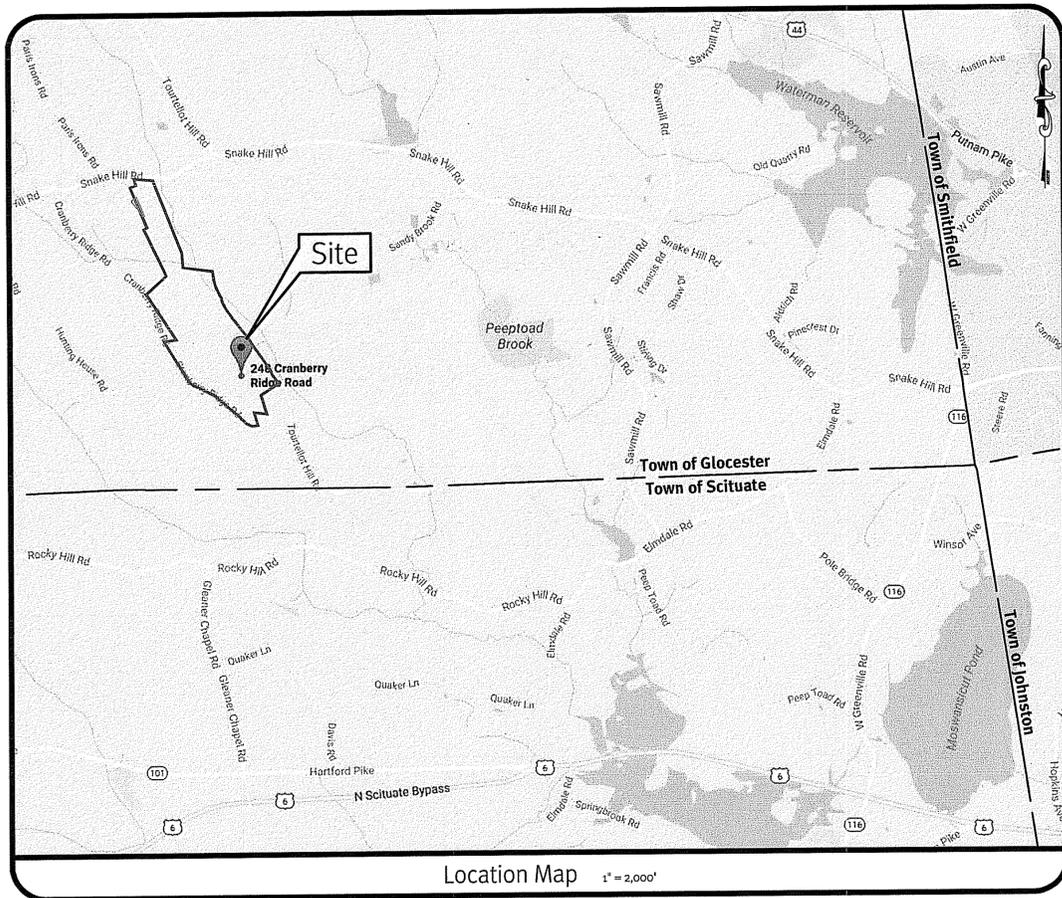


RIDEM Preliminary Determination Submission

Cranberry Ridge Road Solar

248 Cranberry Ridge Road
Glocester, Rhode Island 02814

Assessor's Plat 15 Lot 21



Sheet Index

1. Cover Sheet
2. Half Mile Aerial & USGS Map
3. Existing Conditions Plan
4. Site Layout Plan
5. Soil Erosion Control Plan
6. Drainage Details
7. Detail Sheet

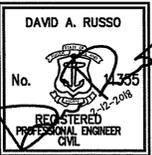
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 28 2018 FILE # 18-0005
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Cynthia D. Wemck



Cover Sheet
Cranberry Ridge Road Solar

AP-15, Lot 21
Glocester, Rhode Island 02814
Owner: **SSRE-RI, LLC**
117 Metro Center Boulevard, Suite 2007, Warwick, RI 02886
tel. 401-562-0213

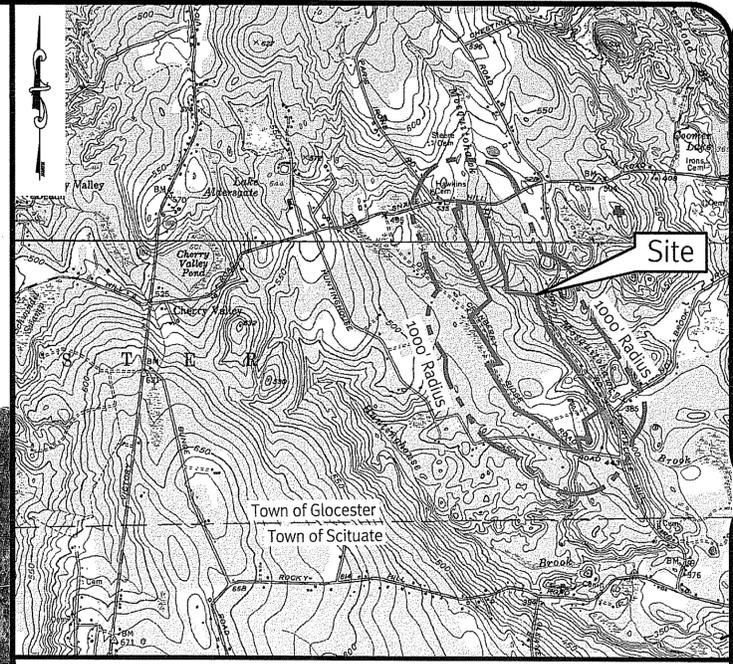
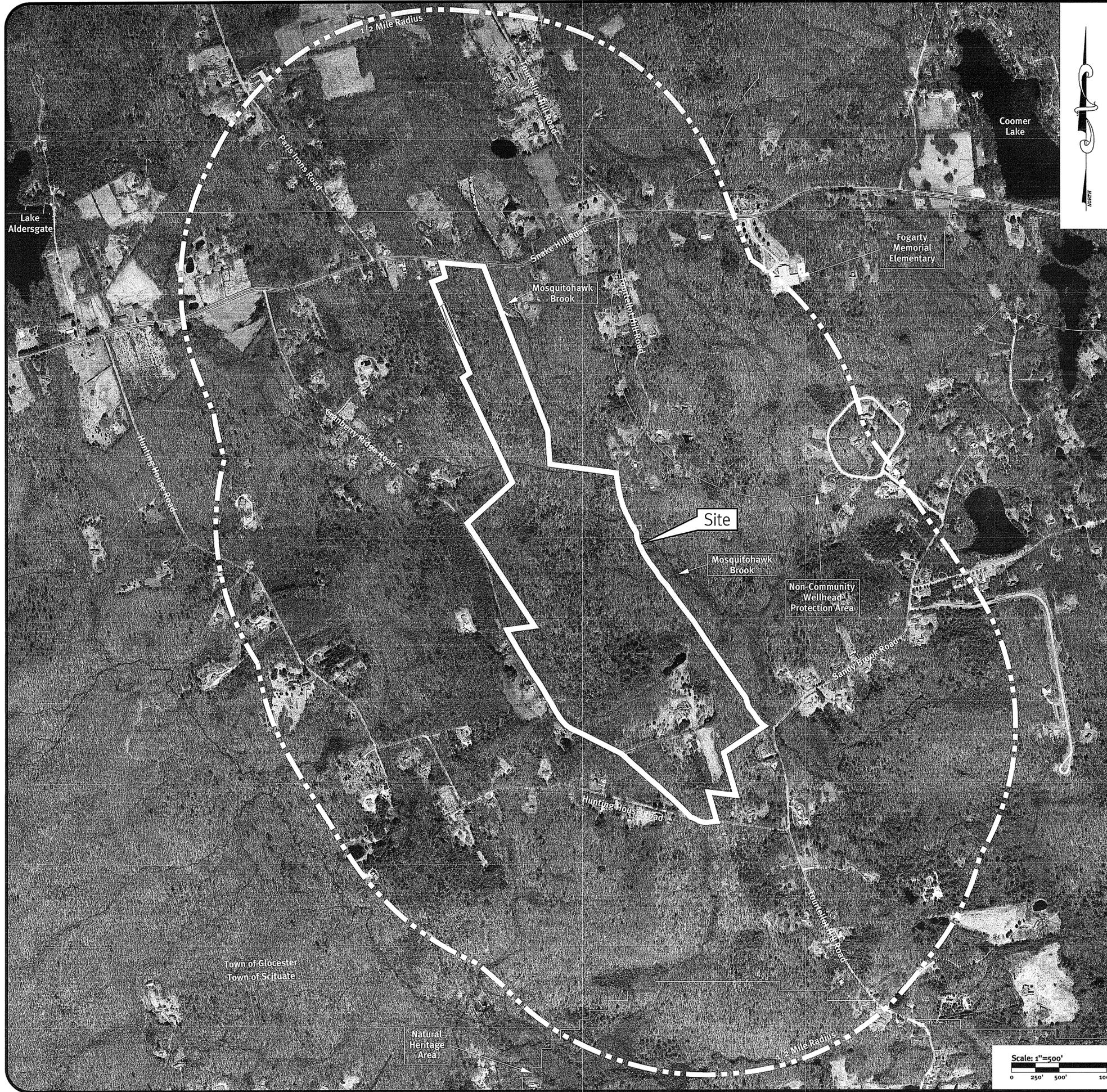


DiPrete Engineering
Two Stafford Court, Cranston, RI 02920
tel. 401-943-1000 fax. 401-944-6006 www.DiPrete-Eng.com
Engineers • Planners • Surveyors

| No. | Date | Description | S.C.K. | Design By: D.A.R. |
|-----|-----------|--|--------|-------------------|
| 0 | 2-23-2018 | RIDEM Preliminary Determination Submission | S.C.K. | |
| 1 | 3-2-2018 | RIDEM Preliminary Determination Submission | S.C.K. | |

z:\demain\projects\1837-012 cranberry ridge road solar\autocad drawings\1837-012-dem.dwg Plotted: 2/12/2018

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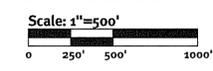


USGS Map Scale: 1"=2000'

Photo obtained from the RI-GIS.

Environmental Management
FEB 16 2018
Office of Water Resources

Legend



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Martin D. Wencek

DiPrete Engineering
Two Stafford Court Cranston, RI 02926
tel 401-943-1000 fax 401-464-0006 www.DiPrete-Eng.com

Engineers • Planners • Surveyors

DAVID A. RUSSO
No. 14355
REGISTERED PROFESSIONAL ENGINEER
CIVIL

| No. | Date | Description | By |
|-----|-----------|--|--------|
| 1 | 2-15-2018 | ISSUE FOR PERMITTING AND CONSTRUCTION | S.E.K. |
| 2 | 2-15-2018 | ISSUE FOR PERMITTING AND CONSTRUCTION SUBMISSION | S.E.K. |

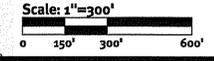
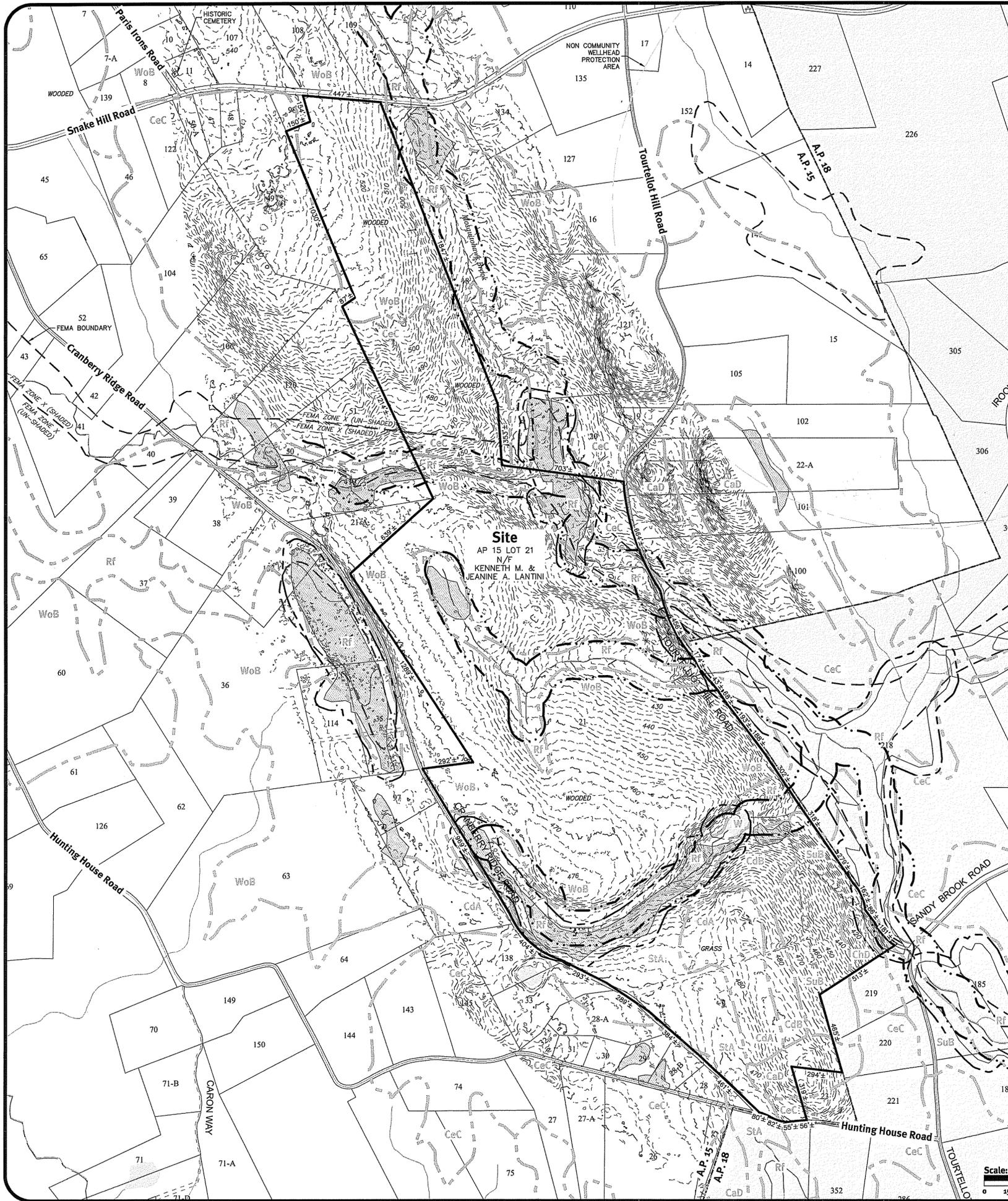
Drawn By: S.E.K. Design By: D.A.R.

**Half Mile Aerial & USGS Map
Cranberry Ridge Road Solar**

AP 15, Lot 21
Gloucester, Rhode Island 02814

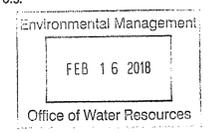
SSRE-RI, LLC
117 Metcalf Center Boulevard, Suite 3007, Warwick, RI 02886
Tel 401-562-0213

SHEET 2 OF 7



General Notes:

- THE SITE IS LOCATED ON THE TOWN OF GLOUCESTER, RHODE ISLAND ASSESSOR'S PLAT 15 LOT 21.
- THE SITE IS APPROXIMATELY 163.82± ACRES AND IS ZONED A-4.
- THE OWNER OF AP 15 LOT 21 IS: KENNETH M. & JEANINE A. LANTINI
P.O. BOX 779
NORTH SCITUATE, RI 02857
- THIS SITE IS LOCATED IN FEMA FLOOD ZONE X SHADED AND UNSHADED. ZONE X UNSHADED AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN. ZONE X SHADED AREAS DETERMINED TO BE WITHIN THE 0.2% ANNUAL CHANCE FLOOD PLAIN. REFERENCE FEMA FLOOD INSURANCE RATE MAP 4407020260G, MAP REVISED MARCH 2, 2009.
- 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. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.
- SOIL MAPPING OBTAINED FROM WEBSOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- THE SITE NOT WITHIN A:
GROUNDWATER PROTECTION AREA (RIDEM)
COMMUNITY WELHEAD PROTECTION AREA (RIDEM)
NATURAL HERITAGE AREA (RIDEM)
GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
S.A.M.P. AREA (CRMC)
- THE SITE IS WITHIN:
MOSQUITOHAWK BROOK SURFACE WATER PROTECTION AREA (RIDEM)
- THE SITE DOES NOT CONTAIN ANY HISTORICALLY SIGNIFICANT SITES OR STRUCTURES; STATE OR LOCAL HISTORIC SITES, DISTRICTS, CEMETERIES OR LANDSCAPES; ARCHAEOLOGICALLY SIGNIFICANT SITES; OR STATE DESIGNATED SCENIC AREAS. THIS WAS DETERMINED THROUGH FILE REVIEW AND SITEWALK COMPLETED BY DIPRETE ENGINEERING 12/13/2017 AND IS CORRECT TO THE BEST OF OUR BELIEF.
- MINOR LEDGE/OUTCROPS WERE IDENTIFIED ONSITE AND WILL BE FURTHER LABELED ON THE PRELIMINARY SUBMISSION PLANSET AFTER SURVEY IS COMPLETED.



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.

Legend:

| | |
|------------------------|--------------------------------|
| CONTOUR | ---300--- |
| SOIL BOUNDARY LINE | -----HkC----- -----CaD----- |
| EDGE OF PAVEMENT | ----- |
| BUILDING | [Hatched Box] |
| TREELINE | [Wavy Line] |
| FEMA BOUNDARY | -----FEMA ZONE X----- |
| PROPERTY LINE | ----- |
| ASSESSOR LINE | ----- |
| SETBACK | ----- |
| EASEMENT | ----- |
| WETLAND EDGE | ----- |
| WETLAND HATCH | [Hatched Box] |
| 50' PERIMETER WETLAND | ----- |
| 100' RIVERBANK WETLAND | ----- |
| STREAM | ----- |

Abbreviations:

| | |
|-----------------|-----|
| EXISTING | EX |
| PROPOSED | PR |
| TYPICAL | TYP |
| ASSESSOR'S PLAT | AP |
| NOW OR FORMERLY | N/F |

Soil Information:

(REFERENCE: WEB SOIL SURVEY, U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE)

| SOIL NAME | DESCRIPTION |
|-----------|--|
| CdA | CANTON AND CHARLTON FINE SANDY LOAMS, 0 TO 3 PERCENT SLOPES |
| CdB | CANTON AND CHARLTON FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES |
| CeC | CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES |
| CdD | CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 15 TO 25 PERCENT SLOPES |
| Rf | RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS |
| SIA | SUTTON FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES |
| SuB | SUTTON VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES |
| WoB | WOODBIDGE VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES |

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
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Myrtina D. Wenzel

Diprete Engineering
Two Stafford Court Cranston, RI 02920
tel: 401-949-1000 fax: 401-464-6000 www.Diprete-Eng.com

Engineers • Planners • Surveyors

DAVID A. RUSSO
No. 14355
REGISTERED PROFESSIONAL ENGINEER CIVIL

| No. | Date | Description | By: | Design By: D.A.R. |
|-----|----------|--|--------|-------------------|
| 0 | 12-20-18 | PROJECT REVISIONS | S.E.K. | |
| 1 | 02-28-18 | RHODE ISLAND PRELIMINARY LABORATORY SUBMISSION | S.E.K. | |
| 2 | 02-28-18 | RHODE ISLAND PRELIMINARY LABORATORY SUBMISSION | S.E.K. | |

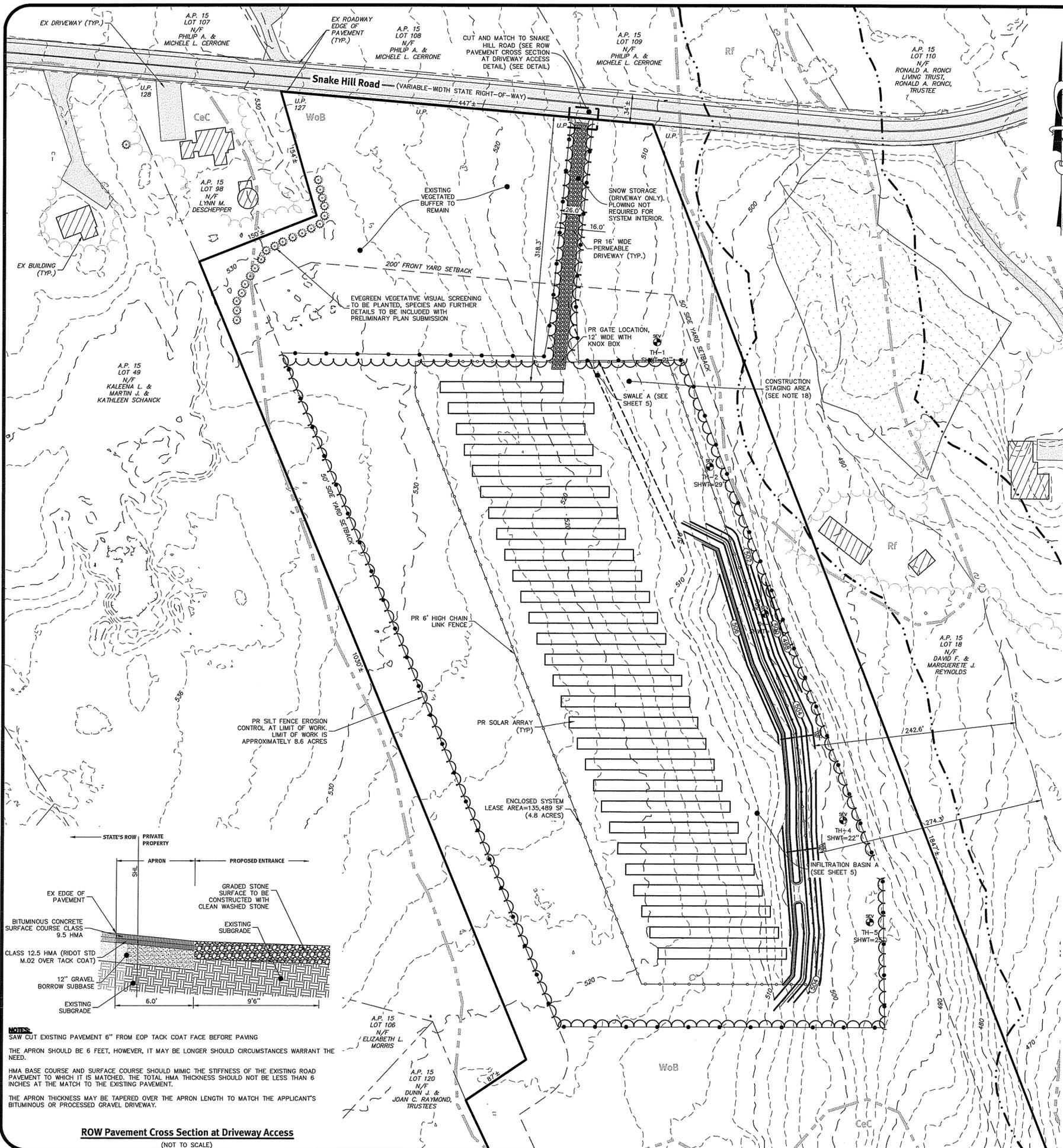
Drawn By: S.E.K.

Existing Conditions Plan
Cranberry Ridge Road Solar
AP 15, Lot 21
GloUCEster, Rhode Island 02814

SSRE-RI, LLC
117 Metro Center Boulevard, Suite 2007, Warwick, RI 02886
tel: 401-562-0233

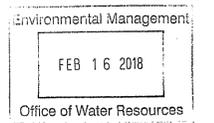
DE Job No: 2437-032 Copyright 2018 by Diprete Engineering Associates, Inc.

z:\main\projects\2437-032_cranberry ridge road solar\autocad drawings\2437-032.dwg Plotter: 2/12/2018



General Notes:

- THE SITE IS LOCATED ON THE TOWN OF GLOCESTER, RHODE ISLAND ASSESSOR'S PLAT 15 LOT 21.
- THE SITE IS APPROXIMATELY 163.82± ACRES AND IS ZONED A-4.
- THE OWNER OF AP 15 LOT 21 IS: KENNETH M. & JEANINE A. LANTINI, P.O. BOX 779, NORTH SCITUATE, RI 02857
- THIS SITE IS LOCATED IN FEMA FLOOD ZONE X SHADED AND UNSHADED. ZONE X UNSHADED AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN. ZONE X SHADED AREAS DETERMINED TO BE WITHIN THE 0.2% ANNUAL CHANCE FLOOD PLAIN. REFERENCE FEMA FLOOD INSURANCE RATE MAP 440702020G, MAP REVISED MARCH 2, 2009.
- 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. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND MAY BE SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.
- SOIL MAPPING OBTAINED FROM WEBSOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- THE SITE NOT WITHIN A:
 - GROUNDWATER PROTECTION AREA (RIDEM)
 - COMMUNITY WELLHEAD PROTECTION AREA (RIDEM)
 - NATURAL HERITAGE AREA (RIDEM)
 - GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
 - S.A.M.P. AREA (CRMC)
- THE SITE IS WITHIN: MOSQUITOHAWK BROOK SURFACE WATER PROTECTION AREA (RIDEM)
- DETAILED SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE INCORPORATED AT THE PRELIMINARY DESIGN STAGE AND WILL CONFORM TO RIDEM BEST MANAGEMENT PRACTICES.
- NO NEW WELLS OR OWTS PROPOSED. THE SITE IS NOT PROPOSED TO BE SERVICED BY PUBLIC WATER.
- ALL ELECTRICAL CONNECTION AND DISTRIBUTION LINES WITHIN THE FACILITY SHALL 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 AND A NATURAL HERITAGE AREA. REFER AERIAL 1/2 MILE RADIUS MAP ON SHEET 2.
- 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 ARE ANTICIPATED TO BEGIN SPRING 2018 AND CONCLUDE WINTER 2018, INCLUDING ALL ASSOCIATED WORKS SESC IMPLEMENTATION PER NOTE 9. SEE SHEET 5 FOR SESC DETAILS.
- NO PRIME AGRICULTURAL SOILS ARE TO BE REMOVED DURING CONSTRUCTION AND INSTALLATION OF THE SYSTEM.
- 10' MINIMUM SEPARATION IS REQUIRED BETWEEN THE SOLAR ARRAY AND PERIMETER FENCE.
- CONSTRUCTION STAGING AREA TO INCLUDE CONCRETE WASHOUT AREA AND VEHICLE FUELING/ STORAGE/ MAINTENANCE AREA.
- GROUND MOUNTED SOLAR INSTALLATIONS SHALL NOT EXCEED 12 FEET IN HEIGHT (ZONING ORDINANCE 350-46.H.1). HEIGHT OF PROPOSED SOLAR PANEL INSTALLATION RANGES FROM 3 FEET TO 12 FEET.
- TOTAL OUTPUT OF SOLAR INSTALLATION = 1 MW DC.



Dimensional Regulations:

| | |
|---------------------------------|------------------------|
| CURRENT ZONING: | A-4 (AGRICULTURAL) |
| MINIMUM LOT AREA: | 4 ACRES |
| MINIMUM FRONTAGE AND LOT WIDTH: | 350' |
| MINIMUM FRONT YARD: | 200' |
| MINIMUM SIDE YARD: | 50' |
| MINIMUM REAR YARD: | 100' |
| MAXIMUM STRUCTURE HEIGHT: | 12** |
| MAXIMUM LOT COVERAGE: | 20% (1.3% PROPOSED)*** |
| MAXIMUM CLEARING: | 40% (5.6% PROPOSED) |

* - LARGE SOLAR INSTALLATIONS SHALL BE SET BACK AT LEAST 200 FEET FROM ANY ROADWAY.
 ** - SYSTEMS, EQUIPMENT AND STRUCTURES SHALL NOT EXCEED 12 FEET IN HEIGHT WHEN GROUND-MOUNTED.
 *** - ALL SOLAR STRUCTURES ON THE LOT SHALL NOT EXCEED A MAXIMUM LOT COVERAGE OF 20% OF THE LAND SUITABLE FOR DEVELOPMENT OF THE LOT. (ZONING ORDINANCE 350-46.H.3).

| | |
|--|---------------|
| SITE = | 163.82± ACRES |
| LAND UNSUITABLE = (WETLANDS, 50' BUFFERS, 100' BUFFERS, 20%+ SLOPES) | -45.34± ACRES |
| SUITABLE LAND = | 118.48± ACRES |

MAXIMUM LOT COVERAGE = 118.48± ACRES x 20% = 23.70± ACRES
 PROPOSED ENCLOSED SOLAR INSTALLATION AREA = 4.8± ACRES
 PROPOSED CLEARING AREA = 8.6± ACRES

Abbreviations:

| | |
|-----------------|-----|
| EXISTING | EX |
| PROPOSED | PR |
| TYPICAL | TYP |
| ASSESSOR'S PLAT | AP |
| NOW OR FORMERLY | N/F |

Existing Legend:

| | |
|------------------------|-----------------------|
| CONTOUR | ---300--- |
| SOIL BOUNDARY LINE | HkC |
| EDGE OF PAVEMENT | CaD |
| BUILDING | [Hatched Box] |
| TREELINE | [Wavy Line] |
| WETLAND EDGE | [Dotted Line] |
| WETLAND HATCH | [Dotted Area] |
| 50' PERIMETER WETLAND | 50' PERIMETER WETLAND |
| 100' RIVERBANK WETLAND | [Dashed Line] |
| STREAM | [Double Line] |
| UTILITY POLE (AERIAL) | CP |

Proposed Legend:

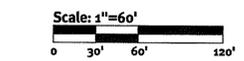
| | |
|----------------------|---------------------|
| EASEMENT | [Cross-hatched Box] |
| TREELINE | [Wavy Line] |
| UNDERGROUND ELECTRIC | [Dashed Line] |

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

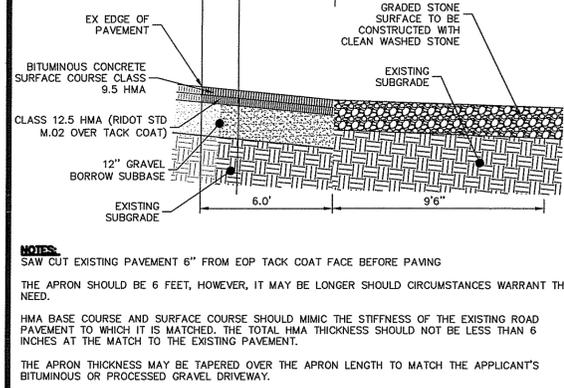
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Cynthia D. Wenczek

| | |
|---------------------------|------------------|
| CONSTRUCTION STAGING AREA | [Dotted Area] |
| CONSTRUCTION ENTRANCE | [Circle Pattern] |
| PR UTILITY POLE | [Circle] |



ROW Pavement Cross Section at Driveway Access
(NOT TO SCALE)

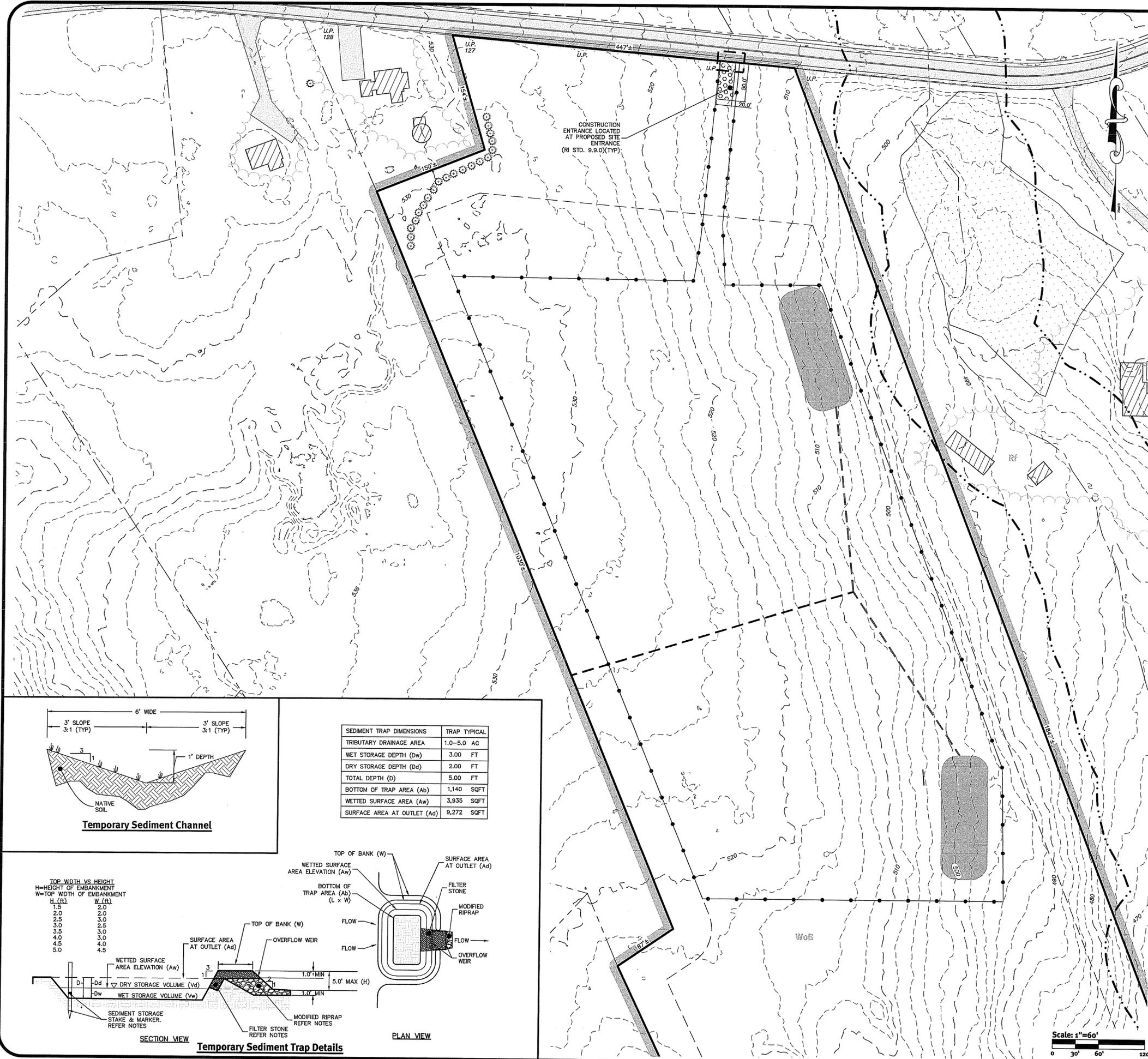


NOTES:
 SAW CUT EXISTING PAVEMENT 6" FROM EOP TACK COAT FACE BEFORE PAVING
 THE APRON SHOULD BE 6 FEET, HOWEVER, IT MAY BE LONGER SHOULD CIRCUMSTANCES WARRANT THE NEED.
 HMA BASE COURSE AND SURFACE COURSE SHOULD MIMIC THE STIFFNESS OF THE EXISTING ROAD PAVEMENT TO WHICH IT IS MATCHED. THE TOTAL HMA THICKNESS SHOULD NOT BE LESS THAN 6 INCHES AT THE MATCH TO THE EXISTING PAVEMENT.
 THE APRON THICKNESS MAY BE TAPERED OVER THE APRON LENGTH TO MATCH THE APPLICANT'S BITUMINOUS OR PROCESSED GRAVEL DRIVEWAY.

DiPrete Engineering
 Two Stafford Court, Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-464-6006 www.DiPrete-Eng.com
Engineers • Planners • Surveyors

DAVID A. RUSSO
 No. 11355
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

Site Layout Plan
Cranberry Ridge Road Solar
 AP 15, Lot 21
 Gloucester, Rhode Island 02884
SSRE-RI, LLC
 117 Metro Center Boulevard, Suite 2007, Warwick, RI 02886
 Tel: 401-562-0213
 DE Job No.: 2457-02 Copyright 2018 by DiPrete Engineering Associates, Inc.

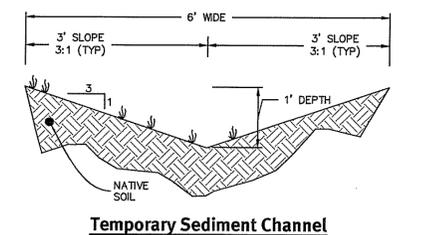


- Erosion Control Notes:**
- ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, ETC. SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION AND THE SOIL EROSION SEDIMENTATION CONTROL (SESC) PLAN BY DIPRETE ENGINEERING, LATEST REVISION.
 - SEE SECTION 2.2 OF THE SESC PLAN BY DIPRETE ENGINEERING, LATEST REVISION, FOR PROJECT PHASING & SEQUENCE OF CONSTRUCTION ACTIVITY.
 - CONSTRUCTION STORAGE AREAS MAY BE RELOCATED WITH APPROVAL FROM THE ENGINEER OF RECORD AND THE GENERAL CONTRACTOR.
 - CONTRACTOR SHALL STABILIZE AREAS PER THE SESC PLAN. AREAS MAY BE STABILIZED WITH SEEDING, STONE, JUTE MESH, SOLTAC, OR APPROVED EQUAL.
 - CLEARING AND GRUBBING IS NOT TO EXTEND BEYOND THE LIMIT OF DISTURBANCE.
 - THE SITE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION (SILT FENCE, STRAW WATTLE, RIDOT STD 9.2.0, OR APPROVED EQUAL) AND SEDIMENT CONTROL ON SITE. THE SITE CONTRACTOR IS TO NOTIFY THE CIVIL ENGINEER, TOWN OF HOPKINTON, AND RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
 - STOCKPILE AND CONCRETE WASHOUT LOCATIONS TO BE DETERMINED BY CIVIL ENGINEER, AND SITE CONTRACTOR PRIOR TO CONSTRUCTION. NO STOCKPILING OF MATERIAL TO BE LOCATED IN RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT. ALL EXCESS SOIL, TREES, ROCKS, BOULDERS, AND OTHER REFUSE, SHALL BE DISCARDED OFF SITE AS DIRECTED BY THE OWNER. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.
 - SITE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL. DUST CONTROL TREATMENTS SHALL BE APPLIED AS NECESSARY TO CONTROL AND REDUCE THE AMOUNT OF DUST THAT MAY CAUSE OFF SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE, AND PLANT LIFE, OR POSE A HAZARD TO TRAFFIC SAFETY. DUST CONTROL TREATMENTS SHALL BE CONSISTENT WITH RIDEM BEST MANAGEMENT PRACTICES.
 - SITE CONTRACTOR TO MAINTAIN SESC PLAN DOCUMENTATION ON THE SITE THROUGHOUT THE DURATION OF THE PROJECT.
 - SITE CONTRACTOR SHALL STAKEOUT AND PROTECT ANY PROPOSED INFILTRATION AREAS PRIOR TO CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL BE AVOIDED WITHIN INFILTRATION AREAS. THIS INCLUDES WQ INFILTRATION BASINS A, B, C, D, & E AND STONE TRENCH. AREAS SHALL BE PROTECTED FROM RUNOFF DURING CONSTRUCTION AND SHALL BE AVOIDED AS TEMPORARY SEDIMENTATION AREAS DURING CONSTRUCTION TO THE EXTENT PRACTICABLE. SILT FENCE OR EQUAL SHALL BE USED TO PROTECT INFILTRATION AREAS FROM RUNOFF. CONSTRUCTION FENCING CAN BE USED TO PROTECT AREAS FROM CONSTRUCTION TRAFFIC.
 - IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS SHALL BE RESTORED TO MATCH THE DESIGN PLANS OR PRE-CONSTRUCTION CONDITIONS.
 - SEQUENCE OF CONSTRUCTION PROVIDED IN SESC PLAN SHALL BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE AND THE ENGINEER OF RECORD.
 - ALL LOAM IN DISTURBED AREAS IS TO BE STOCKPILED FOR FUTURE USE.
 - STUMPS SHALL BE GROUND AND USED ONSITE OR REMOVED. NO STUMP DUMPS ARE ALLOWED ONSITE.
 - APPROXIMATE PHASE LINES AND SEDIMENT TRAP LOCATIONS ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD FIT AND DETERMINE ACTUAL SEDIMENT TRAP SIZES ALONG WITH ALL NECESSARY DIVERSION BERMS, SWALES, SILT FENCES OR OTHER APPROPRIATE SEDIMENT CONTROL MEASURES.
 - EACH PROPOSED TEMPORARY SEDIMENT TRAP SHOWN SHALL BE DESIGNED TO ACCOMMODATE DRAINAGE FROM CONTRIBUTING AREAS RANGING FROM 1 TO 5 ACRES.

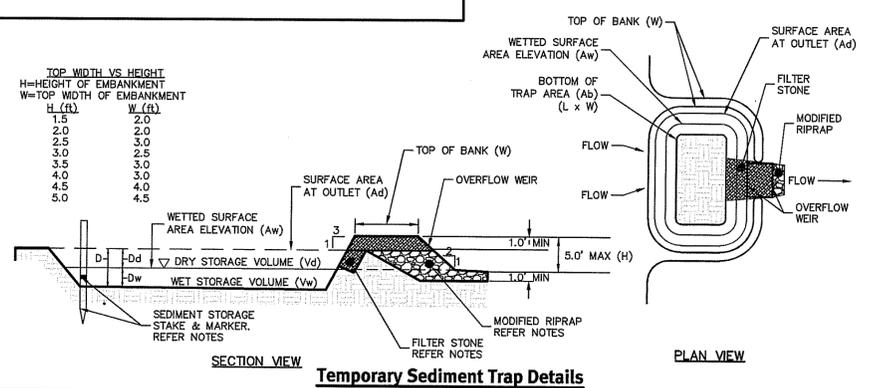
Legend:

- DIVERSION CHANNEL/BERM
- SILT FENCE
- APPROXIMATE PHASE LINES (5 ACRE MAX)
- TEMPORARY SEDIMENT TRAPS
- Environmental Management

FEB 16 2018
Office of Water Resources



| SEDIMENT TRAP DIMENSIONS | TRAP TYPICAL |
|-----------------------------|--------------|
| TRIBUTARY DRAINAGE AREA | 1.0-5.0 AC |
| WET STORAGE DEPTH (Dw) | 3.00 FT |
| DRY STORAGE DEPTH (Dd) | 2.00 FT |
| TOTAL DEPTH (D) | 5.00 FT |
| BOTTOM OF TRAP AREA (Ab) | 1,140 SQFT |
| WETTED SURFACE AREA (Aw) | 3,935 SQFT |
| SURFACE AREA AT OUTLET (Ad) | 9,272 SQFT |



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 FEB 28 2018 FILE # 18-0005
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencsek

Diprete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-949-1000 fax 401-949-6006 www.Diprete-Eng.com
Engineers • Planners • Surveyors

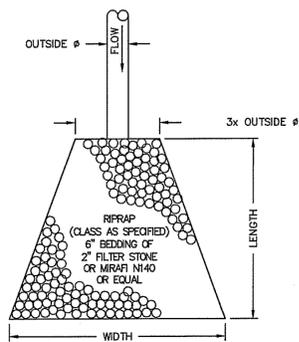
DAVID A. RUSSO
No. 14355
REGISTERED PROFESSIONAL ENGINEER CIVIL

| No. | Date | Description | By |
|-----|-----------|---|--------|
| 1 | 2-15-2018 | RI DEPT. OF ENVIRONMENTAL MGMT. COMMENTS | S.E.K. |
| 2 | 2-15-2018 | RI DEPT. PRELIMINARY DETERMINATION SUBMISSION | S.E.K. |
| 3 | | | |
| 4 | | | |
| 5 | | | |

Drawn By: S.E.K. Design By: D.A.R.

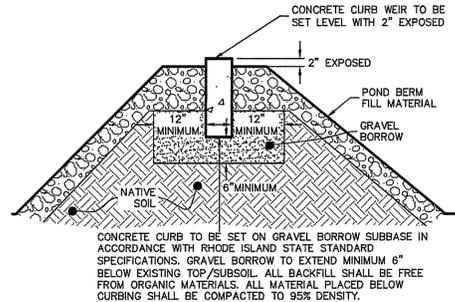
Soil Erosion Control Plan
Cranberry Ridge Road Solar
AP 15, lot 21
Glocester, Rhode Island 02834
Owner: **SSRE-RI, LLC**
117 Metro Center Boulevard, Suite 2007, Warwick, RI 02886
tel 401-562-0213
DESIGNED BY: S.E.K. Copyright 2018 by Diprete Engineering Associates, Inc.

| RIP RAP AREA | LENGTH | WIDTH | CLASS |
|---------------------|--------|-------|-------|
| INFILTRATION POND A | 15.00 | 10.00 | R-2 |

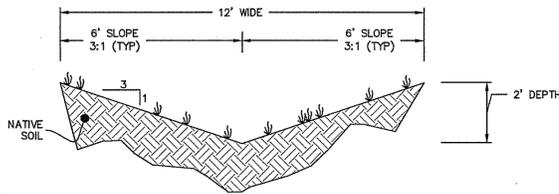


Riprap Apron/ FE Detail
NOT TO SCALE

| LOCATION | TOP OF POND ELEV. | WEIR INVERT | WEIR DEPTH | WEIR LENGTH |
|---------------------|-------------------|-------------|------------|-------------|
| INFILTRATION POND A | 510.00 | 509.00 | 0.50 | 20 |



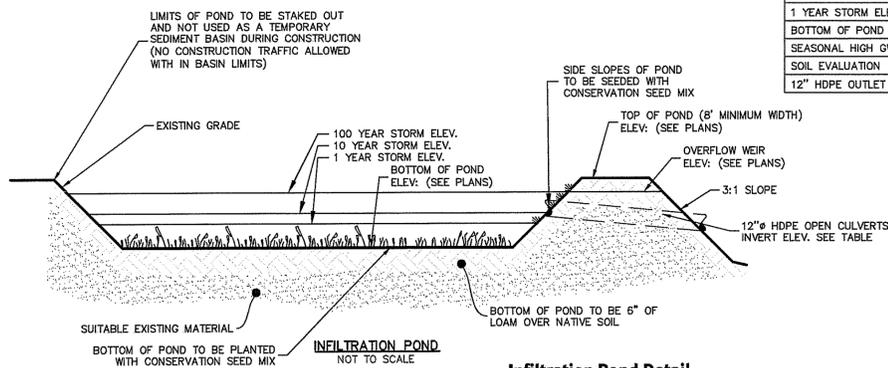
Curb Outlet Weir Cross Section
NOT TO SCALE



| DESCRIPTION | SWALE |
|---------------------|-------|
| SWALE LENGTH | 242± |
| SLOPE | 1.7% |
| CHECK DAMS REQUIRED | NO |

Swale Cross Section
NOT TO SCALE

| DESCRIPTION | B-5 |
|-----------------------------|--------|
| TOP OF POND ELEVATION | 510.00 |
| 100 YEAR STORM ELEVATION | 509.52 |
| 10 YEAR STORM ELEVATION | 509.03 |
| 1 YEAR STORM ELEVATION | 507.24 |
| BOTTOM OF POND ELEVATION | 504.00 |
| SEASONAL HIGH GWT ELEVATION | 502.50 |
| SOIL EVALUATION | TH-3 |
| 12" HDPE OUTLET PIPE INVERT | 507.6 |



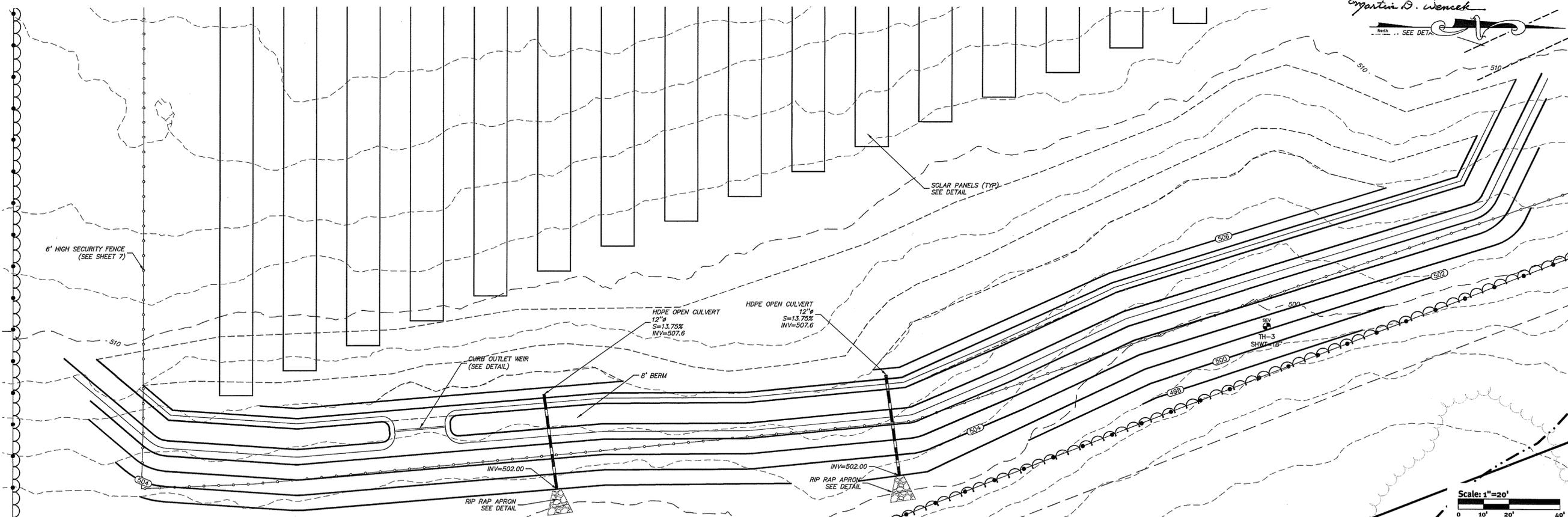
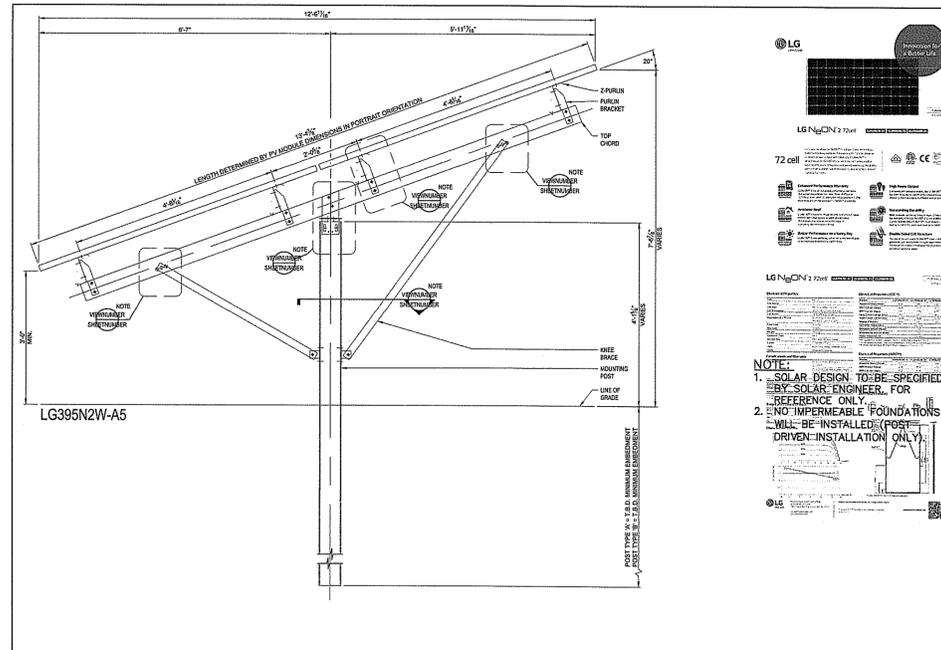
Infiltration Pond Detail
NOT TO SCALE

Environmental Management
Office of Water Resources
FEB 16 2018

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SOLAR RACK
NOT TO SCALE

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Scale: 1"=20'
0 10' 20' 40'

Drainage Details
Cranberry Ridge Road Solar

AP 15, Lot 21
Gleicester, Rhode Island 02814
Owner: **SSRE-RI, LLC**
117 Metro Center Boulevard, Suite 2007, Warwick, RI 02886
Tel: 401-562-0213
Job No: 2437-012 Copyright 2018 by DiPrete Engineering, Associates, Inc.

DAVID A. RUSSO
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CIVIL

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Tel: 401-943-1000 Fax: 401-943-6006 www.DiPrete-Eng.com

Engineers • Planners • Surveyors

Z:\Main\projects\2437-012_cranberry_ridge_road_solar\autocad drawings\2437-012_drain.dwg Plotter: 2/12/2018

