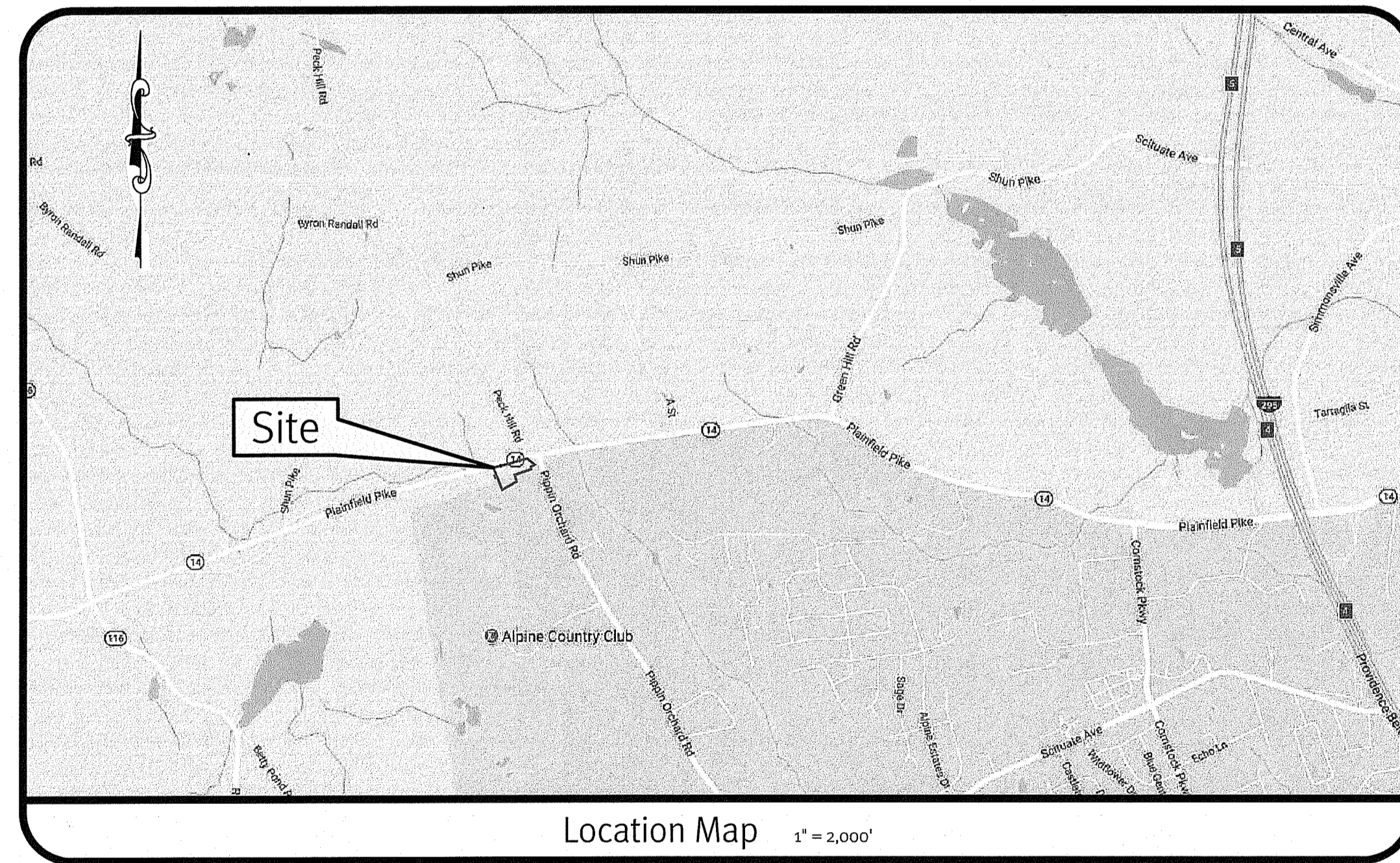


# State Permitting Submission

# Peck Hill Road Solar

Johnston, Rhode Island 02919

Assessor's Plat 33 Lot 4

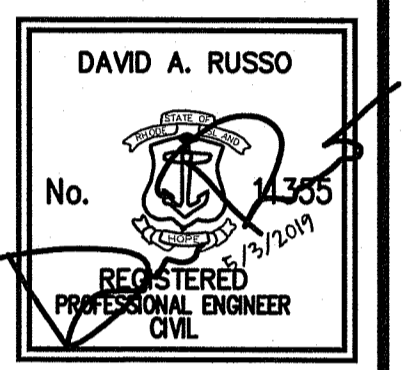


## Sheet Index

1. Cover Sheet
2. Half Mile Aerial & USGS Map
3. Overall Site Plan
4. Solar Panel System Layout
5. Detail Sheet - Erosion Control

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED MAY 29 2019 FILE # 19-0063  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles A. Hester*



Engineering Management  
 MAY - 9 2019

No.	Date	Description	By:
3	03-30-2019	State Permitting Re-Submission	S.E.K.
2	02-13-2019	State Permitting Re-Submission	D.A.R.
1	02-13-2019	State Permitting Re-Submission	D.A.R.
0	02-13-2019	Plan of Submission	D.A.R.

Drawn By: D.A.R. Design By: D.A.R.

z:\deman\projects\2437-013 salisbury farm plan\field plan\unocad drawings\2437-013-dsm-sk-rl.dwg Plotted: 5/2/2019

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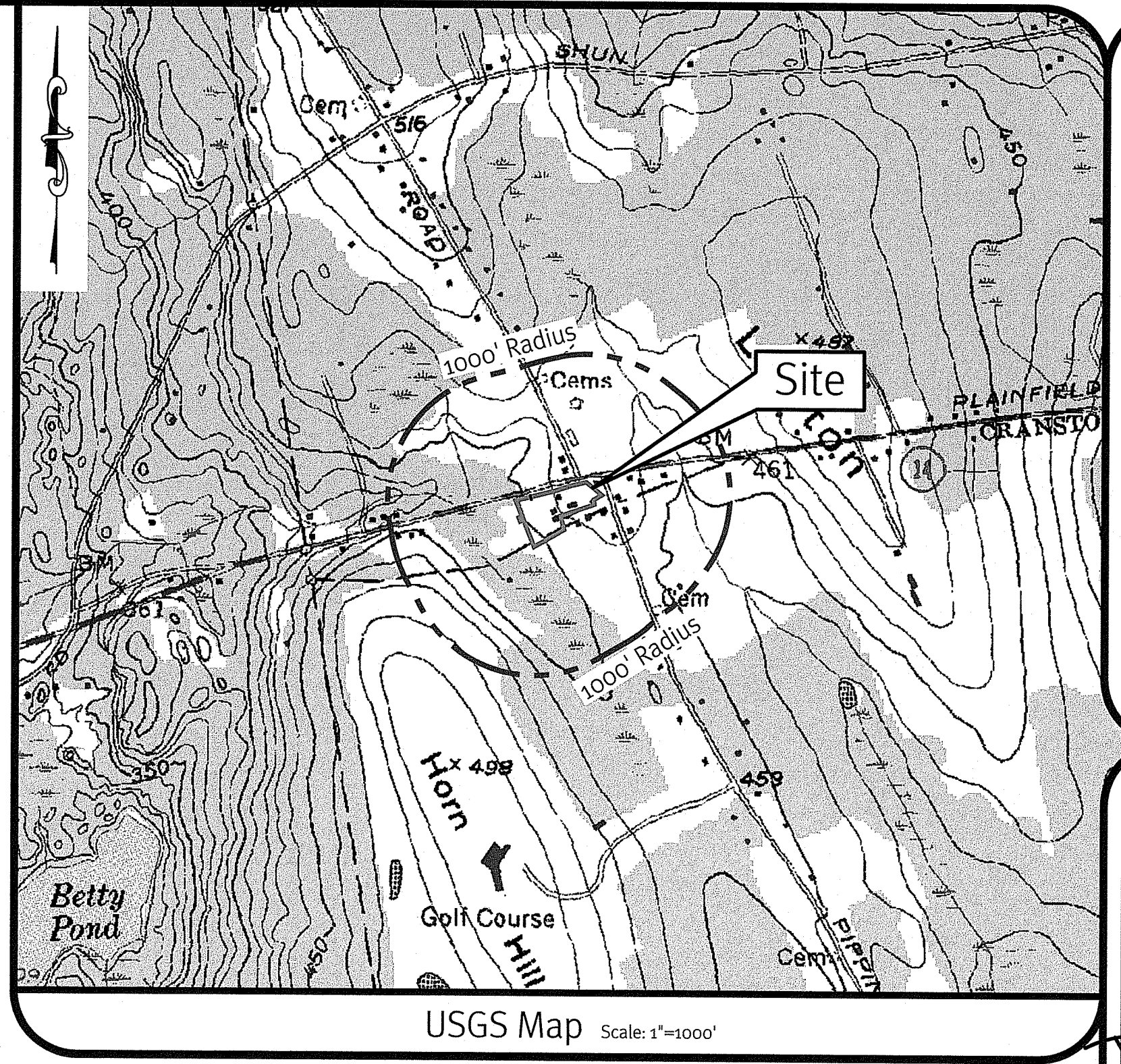
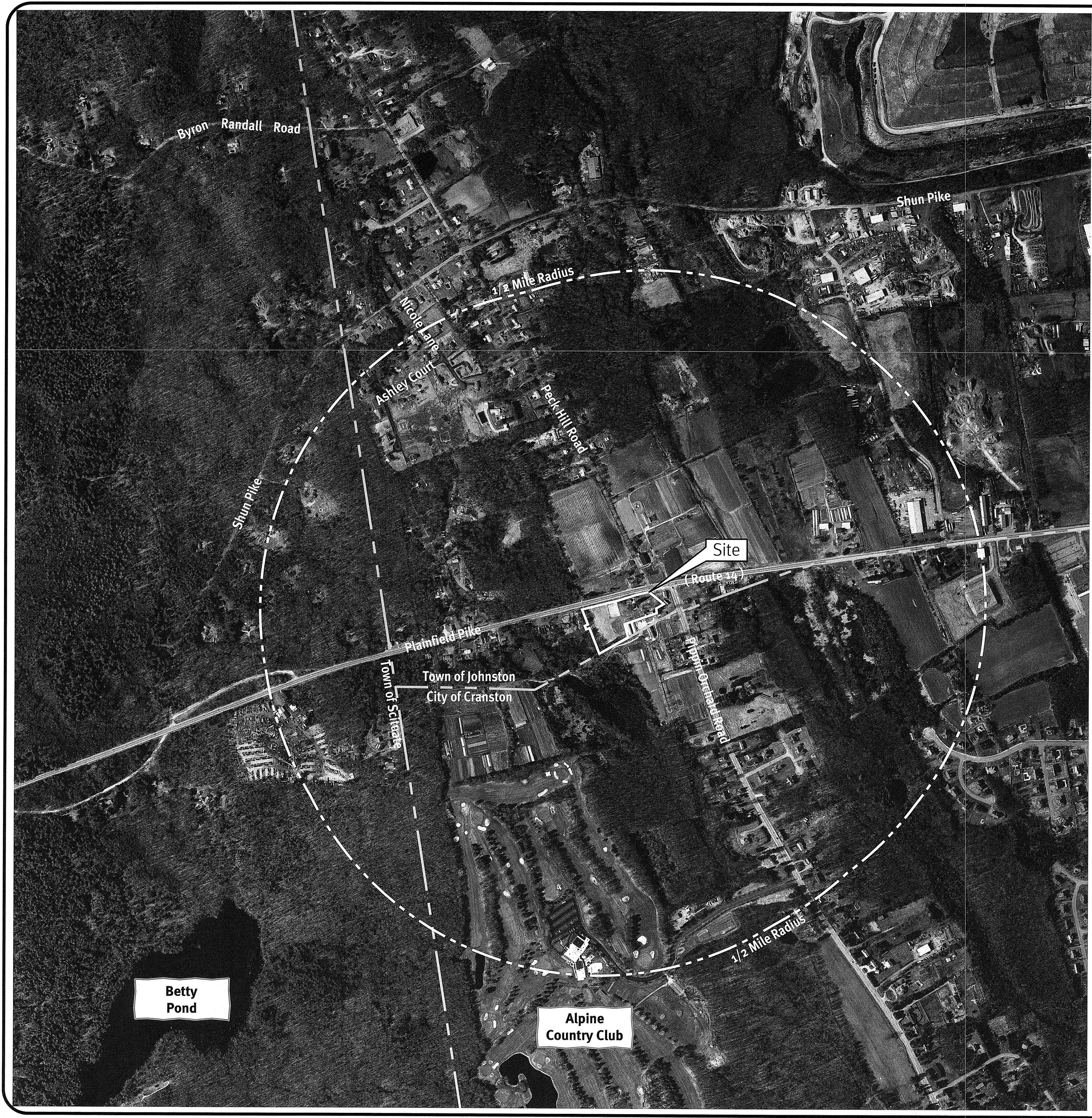
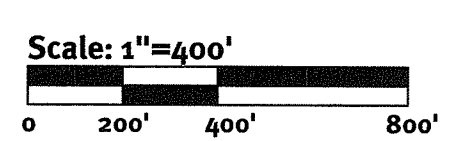


Photo obtained from the RI-GIS.



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*Charles A. Holst*

Environmental Management  
 MAY - 9 2019  
 Office of Water Resources

Half Mile Aerial & USGS Map  
**Peck Hill Road Solar**  
 AP 33, Lot 4  
 Johnston, Rhode Island 02919  
 Client  
**Southern Sky Renewable Energy RI, LLC**  
 117 Main Street, Cranston, Rhode Island, Suite 2007, Warwick, RI 02886  
 Tel: 401-592-5243

No.	Date	Description	By:
1	03-29-2019	Site Meeting Re: Site	C.S.K.
2	02-13-2019	8000 Physical Abstract Submission	J.A.K.
3	02-13-2019	8020 Preliminary Determination Submission	J.A.K.
4	02-13-2019	8020 Final Determination Submission	J.A.K.
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DAVID A. RUSSO  
 No. 14355  
 REGISTERED PROFESSIONAL ENGINEER CIVIL

z:\delman\project\2437-019 salisbury farm plainfield.pile\unacad.drawing\2437-019-dm-dwg.plt:ref: 5/2/2019



**General Notes:**

- THE SITE IS LOCATED ON THE TOWN OF JOHNSTON, RHODE ISLAND ASSESSOR'S PLAT 33 LOT 4.
- THE SITE IS APPROXIMATELY 3.6 ACRES AND IS ZONED R-40.
- THE OWNER OF AP 33 LOT 4 IS: KEITH AND PAULA SALISBURY  
2344 PLAINFIELD PIKE  
JOHNSTON, RI 02919
- THIS SITE IS LOCATED IN FEMA FLOOD ZONE X UNSHADED. ZONE X UNSHADED AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C02950, DATED MARCH 2, 2009.
- THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SITE.
- WETLAND DELINEATION COMPLETED BY NATURAL RESOURCE SERVICES, INC., ON 2-02-18.
- SOIL MAPPING OBTAINED FROM WEBSOIL SURVEY, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- THE SITE NOT WITHIN A:  
GROUNDWATER PROTECTION AREA (RIDEM)  
GAA GROUNDWATER QUALITY CLASSIFICATION (RIDEM)  
GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)  
NATURAL HERITAGE AREA (RIDEM)  
NON COMMUNITY WELLHEAD PROTECTION AREA (RIDEM)  
SPECIAL AREA MANAGEMENT PLAN (SAMP) AREAS (CRMC)
- DETAILED SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE INCORPORATED AT THE PRELIMINARY DESIGN STAGE AND WILL CONFORM TO RIDEM BEST MANAGEMENT PRACTICES.
- THE SITE PROPOSED DOES NOT REQUIRE WATER OR SEWER SERVICE.
- 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.
- 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 2019 AND CONCLUDE FALL 2019.
- NO PRIME AGRICULTURAL SOILS ARE TO BE REMOVED DURING CONSTRUCTION AND INSTALLATION OF THE SYSTEM.
- (1) GRAVEL ACCESS DRIVE SITUATED ON PLAINFIELD PIKE WILL BE UTILIZED FOR CONSTRUCTION AND FUTURE OPERATION.
- A 6 FT HIGH SECURITY FENCE WILL BE INSTALLED AROUND THE PERIMETER OF THE SOLAR FIELD.
- 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.

**Soil Information:**

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

SOIL NAME	DESCRIPTION
PaA	PAXTON FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES
Rf	RIDGEBURY, LEICESTER, AND WHITMAN SOILS, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY
Sub	SUTTON FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES, VERY STONY
UD	UDORHTHENS-URBAN LAND COMPLEX
WbB	WOODBIDGE FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES
Wb	WOODBIDGE VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES

**Existing Legend:**

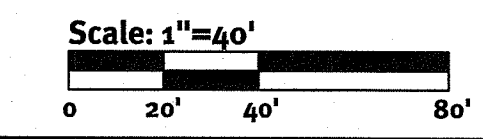
PROPERTY LINE	[Symbol]
STATE HIGHWAY LINE	[Symbol]
ASSESSOR LINE	[Symbol]
TOWN LINE	[Symbol]
SETBACK LINE	[Symbol]
10 FOOT CONTOUR	[Symbol]
2 FOOT CONTOUR	[Symbol]
SOIL BOUNDARY LINE	[Symbol]
SOIL TYPES	[Symbol]
WETLAND LINE	[Symbol]
WETLAND HATCH	[Symbol]
50' PERIMETER WETLAND	[Symbol]
100' RIVERBANK WETLAND	[Symbol]
STREAM	[Symbol]
ZONING BOUNDARY	[Symbol]
STONE WALL	[Symbol]

**Proposed Legend:**

SOLAR FIELD ARRAY	[Symbol]
LIMIT OF WORK	[Symbol]
STAKED SILT FENCE	[Symbol]
ACCESS DRIVE	[Symbol]
ACCESS EASEMENT	[Symbol]

**This Plan Should Be Indexed By The Following Streets:**

- Plainfield Pike (Route 14)
- Peck Hill Road



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**DAVID A. RUSSO**  
No. [Signature] 4305  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 2 8 2019 FILE # 19-00603  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*David A. Russo*

No.	Date	Description	By:
1	5-2-2019	Issue Permitting Re-Submission	S.E.K.
2	6-21-2019	Issue Final Re-Submission	D.A.R.
3	12-18-2018	Issue Preliminary Determination Submission	D.A.R.
4		Issue Final Determination Submission	D.A.R.

Drawn By: D.A.R.

**Overall Site Plan**  
Peck Hill Road Solar  
Johnston, Rhode Island 02919

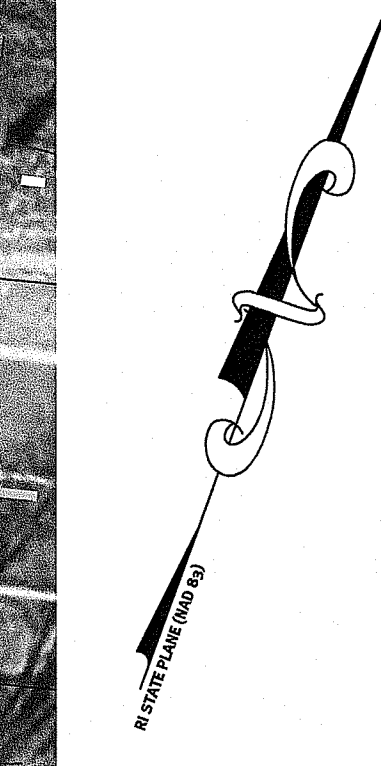
Office of Water Resources  
**Southern Sky Renewable Energy RI, LLC**  
117 Metro Center Boulevard, Suite 2007, Warwick, RI 02886  
Tel: 401-562-0213

May - 9 2019  
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SHEET 3 OF 5

THIS RIDOT PAPA APPLICATION IS NOT A SUBSTITUTE FOR A UTILITY PERMIT AND RIDOT APPROVAL OF THIS APPLICATION DOES NOT CONSTITUTE APPROVAL OF ANY UTILITY WORK SHOWN OR UNSHOWN WITHIN THE STATE'S ROW.

EX 2.25' DEEP HEAVILY VEGETATED SWALE (ASSF) NO WORK TO TAKE PLACE IN EX SWALE BESIDES CONSTRUCTION OF ACCESS DRIVE. RESTORATION MUST OCCUR TO ANY ALTERATION OF THIS AREA ASSOCIATED WITH CONSTRUCTION OF THE ACCESS DRIVE. THIS INCLUDES SEEDING AND REMOVAL OF SOIL.



**General Notes:**

1. THE SITE IS LOCATED ON TOWN OF JOHNSTON, RHODE ISLAND ASSESSOR'S PLAT 33, LOT 4 AND IS APPROXIMATELY 3.6± ACRES.
2. THE SITE PROPOSED DOES NOT REQUIRE WATER OR SEWER SERVICE.
3. GRAVEL ACCESS DRIVE SITUATED ON PLAINFIELD PIKE WILL BE UTILIZED FOR CONSTRUCTION AND FUTURE OPERATION.
4. A 8FT HIGH SECURITY FENCE WILL BE INSTALLED AROUND THE LIMITS OF THE SOLAR FIELD.

**Dimensional Regulations:**

CURRENT ZONING:	R-40
REQUIRED MINIMUM LOT AREA:	40,000 SF
MINIMUM FRONTAGE AND LOT WIDTH:	140'
MINIMUM FRONT AND CORNER SIDE YARD:	40'
MINIMUM SIDE YARD:	35'
MINIMUM REAR YARD:	75'
MAXIMUM MAIN STRUCTURE HEIGHT:	35'
MAXIMUM BUILDING COVERAGE:	15%

**Plan References:**

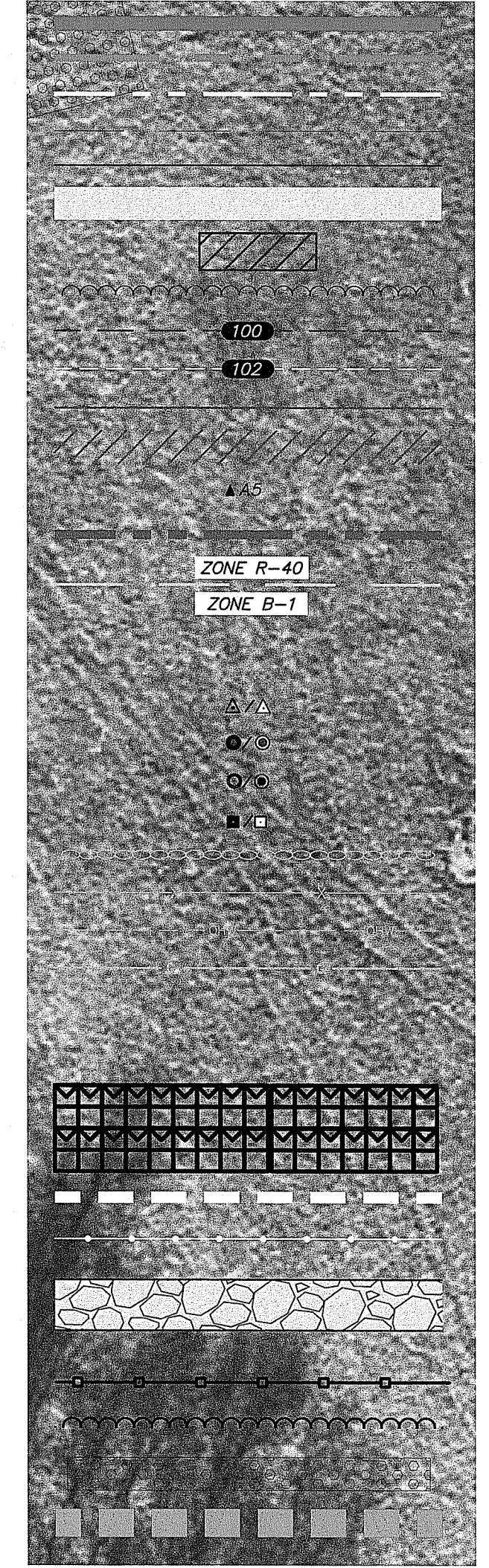
1. RHODE ISLAND STATE HIGHWAY PLAT #1269.

**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:**

- PROPERTY LINE
- TOWN LINE
- ASSESSOR LINE
- SETBACK LINE
- EDGE OF PAVEMENT
- ASPHALT PAVEMENT
- BUILDING
- TREELINE
- 10 FOOT CONTOUR
- 2 FOOT CONTOUR
- WETLAND LINE
- WETLAND HATCH
- WETLAND FLAG
- 50' PERIMETER WETLAND
- ZONING BOUNDARY
- NAIL FOUND/SET
- DRILL HOLE FOUND/SET
- IRON ROD/PIPE FOUND/SET
- BOUND FOUND/SET
- STONEWALL
- WIRE FENCE
- OVERHEAD WIRES
- GAS LINE



**Proposed Legend:**

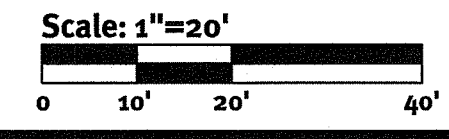
- SOLAR FIELD ARRAY
- LIMIT OF WORK
- STAKED SILT FENCE OR STRAW WADDLE
- ACCESS DRIVE
- 6' HIGH CHAIN LINK FENCE
- TREELINE
- CONSTRUCTION ACCESS
- LEASE AREA

**RIDOT Notes:**

1. THIS RIDOT PAPA APPLICATION IS NOT A SUBSTITUTE FOR A UTILITY PERMIT AND RIDOT APPROVAL OF THIS APPLICATION DOES NOT CONSTITUTE APPROVAL OF ANY UTILITY WORK SHOWN OR UNSHOWN WITHIN THE STATES ROW.
2. ALL WORK WITHIN THE STATE'S ROW WILL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2013, WITH ALL REVISIONS AND R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS
3. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009, INCLUDING ALL REVISIONS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 29 2019 FILE # 19-0063  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Charles A. Russo*



**DiPrete Engineering**

Two Stafford Court Cranston, RI 02920  
tel 401-943-1000 fax 401-943-6006 www.DiPrete-Eng.com

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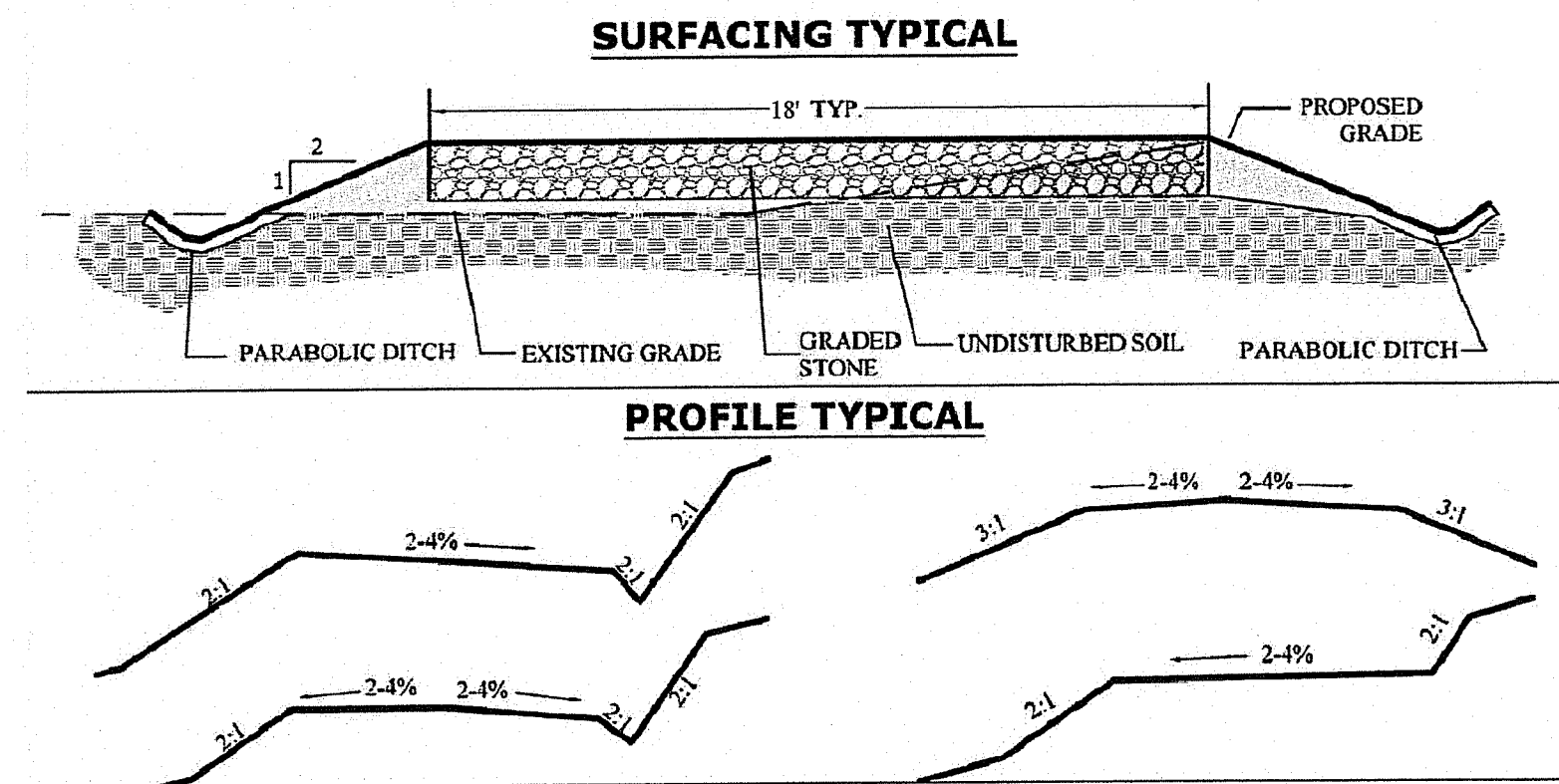
DAVID A. RUSSO  
No. 14305  
REGISTERED PROFESSIONAL ENGINEER CIVIL

No.	Date	Description	By:
1	05-29-2019	State Permitting, Re-Submission	D.A.R.
2	06-03-2019	RIDOT Professional Review Submission	D.A.R.
3	06-18-2019	Form of Submission	D.A.R.
4	06-18-2019	Form of Submission	D.A.R.

Design By: D.A.R.  
Drawn By: D.A.R.

**Solar Panel System Layout**  
**Peck Hill Road Solar**

Client: Southern Sky Renewable Energy RI, LLC  
117 Metro Center Boulevard, Suite 2007, Warwick, RI 02886  
tel 401-562-0213



**SURFACING SPECIFICATIONS**

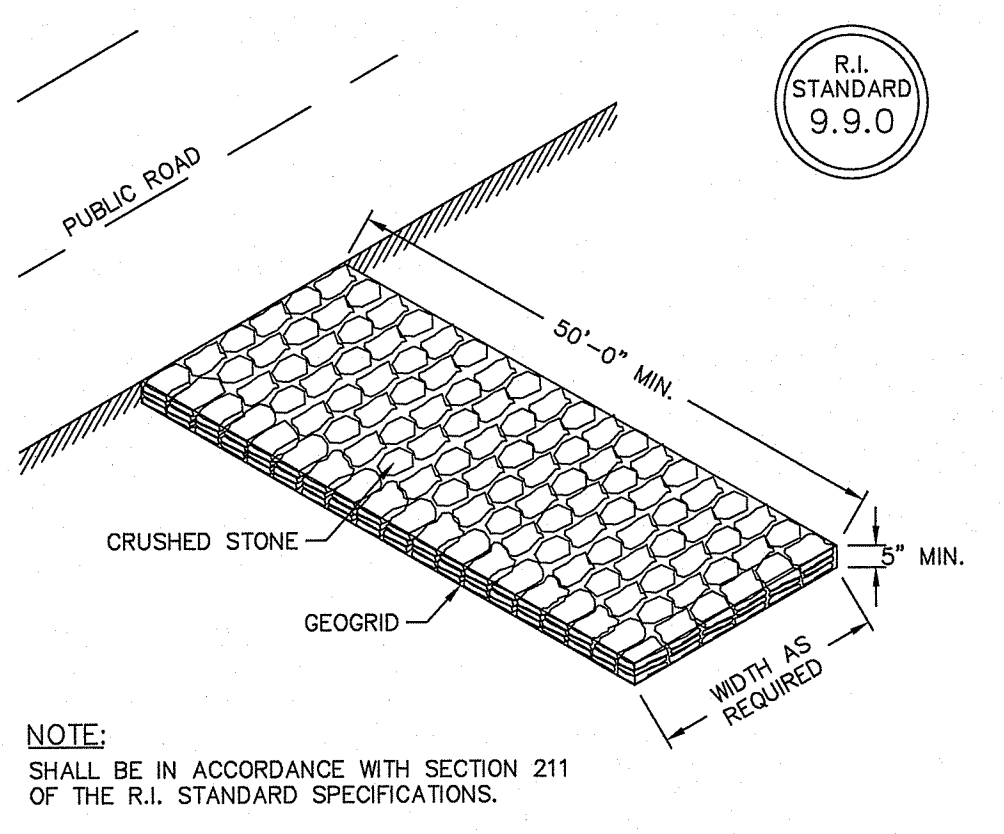
Conditions:	Road Thickness	Stone Size	Fines
Base Layer with Geotextile Fabric (not excessively wet)	4" Min.	3-3 1/2	0-6%
Base Layer with Geotextile Fabric (wet conditions)	5" Min.	3-3 1/2	0-6%

**MATERIAL SPECIFICATIONS**

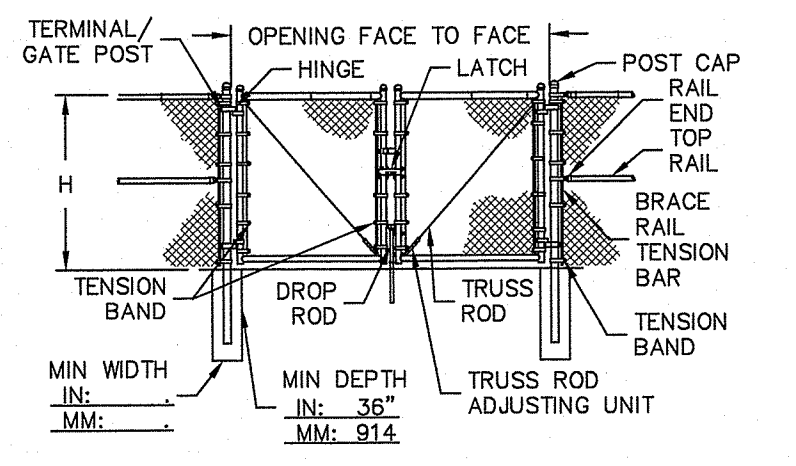
Sieve Designation	Percentage by Mass (Weight) Passing Square Mesh Sieves
90mm (3.5 inch)	100
75 mm (3 inch)	90-100
50 mm (2 inch)	75-100
25 mm (1 inch)	50-80
12.5mm (1/2 inch)	30-60
4.75 mm (No. 4)	15-40
75um (No. 200)	0-6

SOURCES:  
 • Surfacing Typical and Surfacing Specs: Derived from USDA NRCS drawing "Access Road; ME-ENG-AR1"  
 • Profile Typical: Derived from USDA Forest Service Publication "Forest Road Construction and Maintenance"  
 • Material Specs: Derived from VTrans 704.05 Subbase

**PERMEABLE ACCESS DETAIL**  
NTS

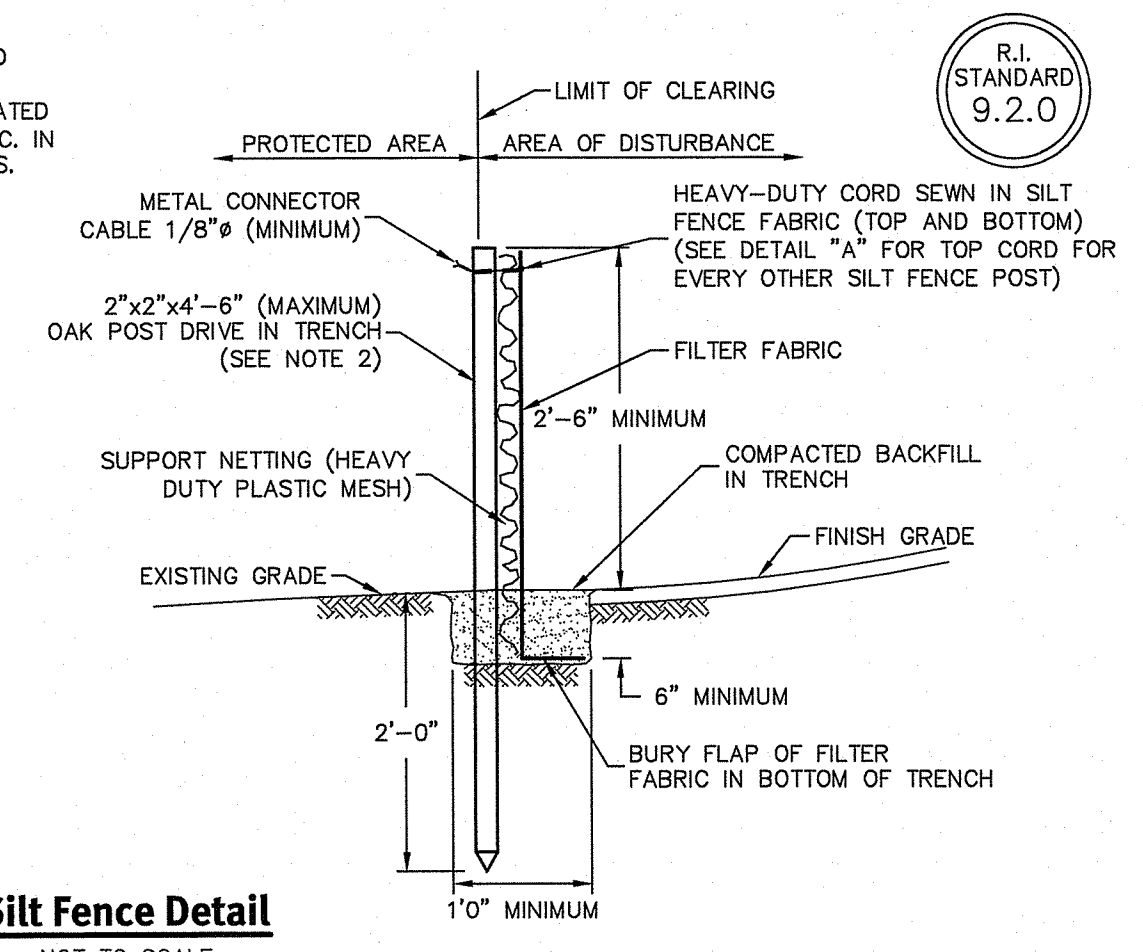
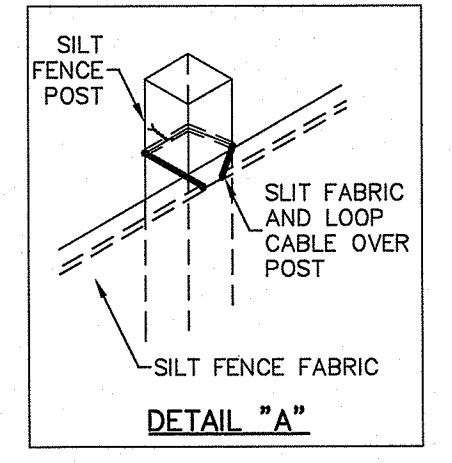


**CONSTRUCTION ACCESS**  
NOT TO SCALE

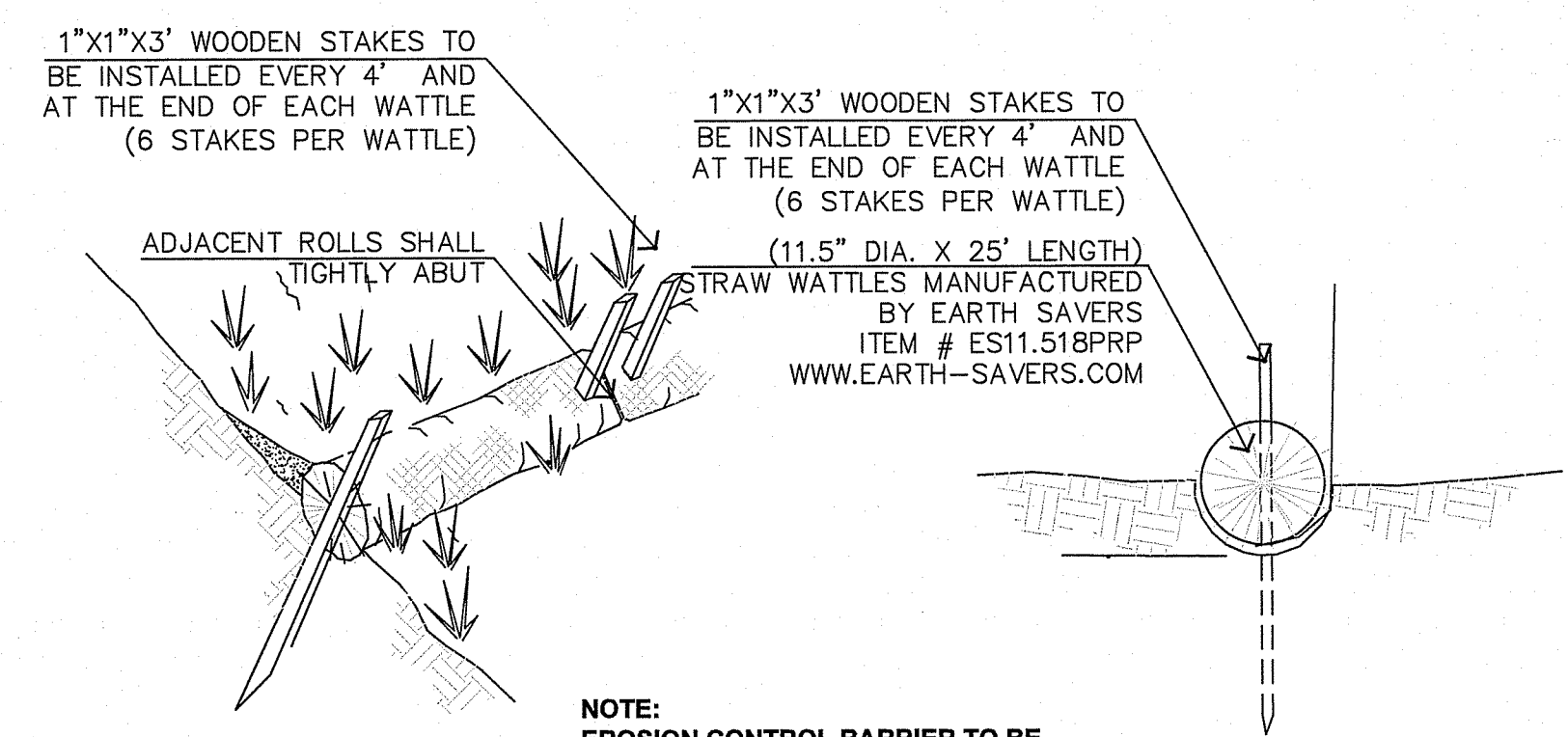


**DOUBLE SWING GATE 12' OPENING**  
NOT TO SCALE

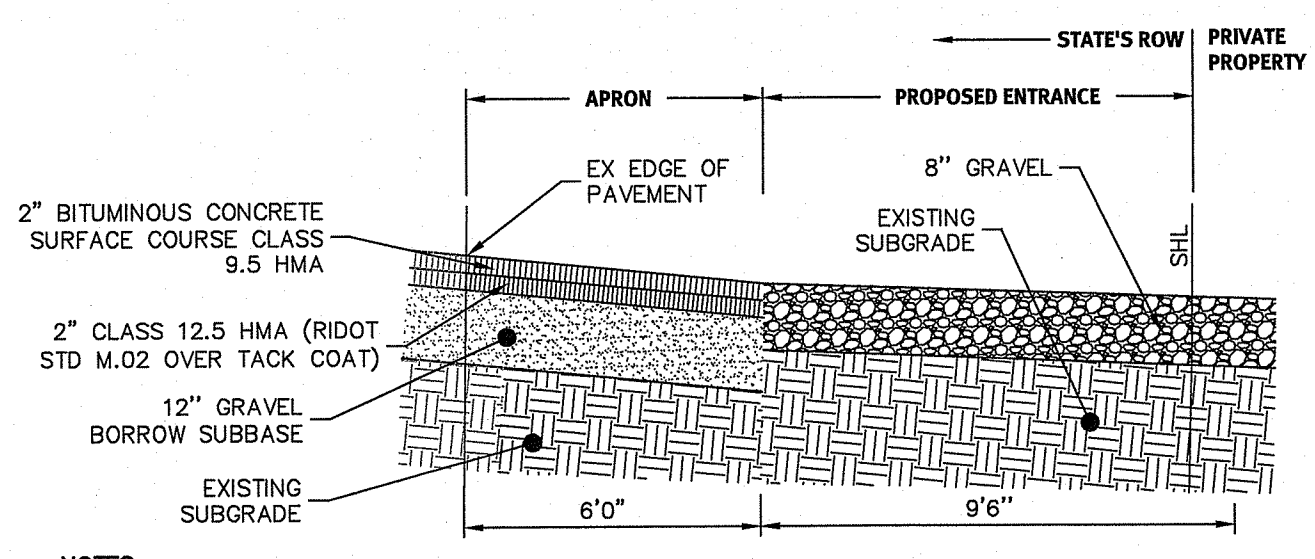
- NOTES:  
 1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.  
 2. 2"x2"x4'-6" (MAXIMUM) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAXIMUM) O.C. IN WETLAND AREAS AND 4'-0" (MAXIMUM) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.  
 3. 1"x1"x4'-6" (MINIMUM) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.  
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



**Silt Fence Detail**  
NOT TO SCALE

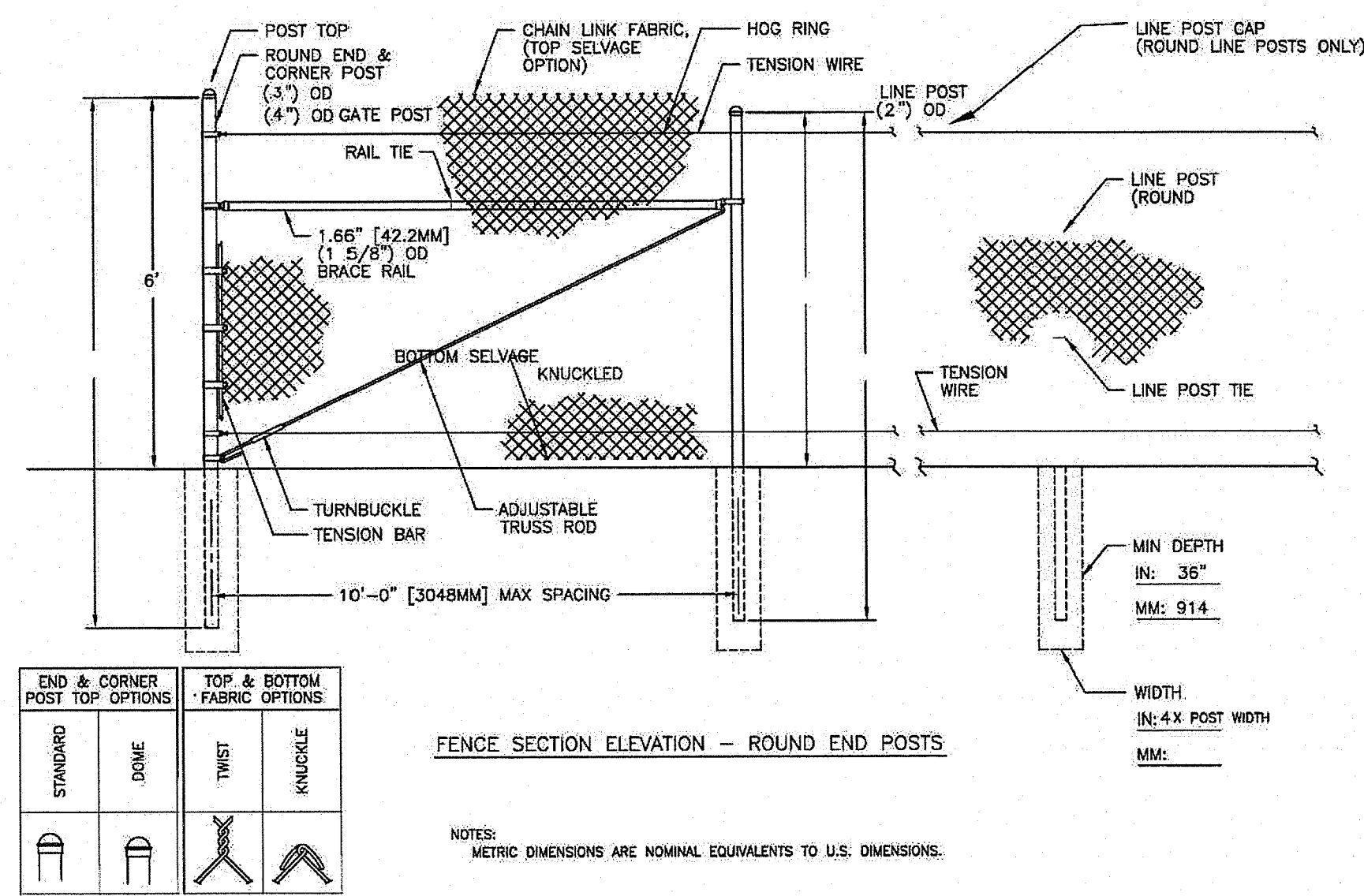


**STRAW WATTLE SEDIMENT BARRIER**  
NOT TO SCALE



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.

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



END & CORNER POST TOP OPTIONS	TOP & BOTTOM FABRIC OPTIONS
STANDARD	STANDARD
DOME	KNUCKLED
TWIST	

**TYPICAL HIGH FENCE**  
NOT TO SCALE

ROUND END POSTS, WITHOUT TOP RAIL & WITHOUT BARBED WIRE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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 DATED MAY 29 2019 FILE # 19-00163  
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*Charles A. Hester*

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DAVID A. RUSSO  
 No. 1335  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

No.	Date	Description	By
1	5-12-2019	State Permitting Re-Submission	D.A.R.
2	02-13-2019	100% Physical Alteration Submission	D.A.R.
3	02-13-2019	100% Physical Alteration Submission	D.A.R.
4	02-13-2018	100% Physical Alteration Submission	D.A.R.
5	02-13-2018	100% Physical Alteration Submission	D.A.R.

Design By: D.A.R.  
 Drawn By: D.A.R.

**Detail Sheet - Erosion Control**  
**Peck Hill Road Solar**  
 AP 33, Lot 4  
 Johnston, Rhode Island 02919  
 Client: Southern Sky Renewable Energy RI, LLC  
 100 Metro Center Boulevard, Suite 2007, Warwick, RI 02886  
 Tel: 401-943-1000 Fax: 401-641-6006  
 DE Job No: 2437-019 Copyright 2019 by DiPrete Engineering Associates, Inc.

z:\main\projects\2437-019\_salisbury farm plan\field plan\autocad drawings\2018\0109-dtbl-dwg\_Plot.dwg Plotted: 5/17/2019