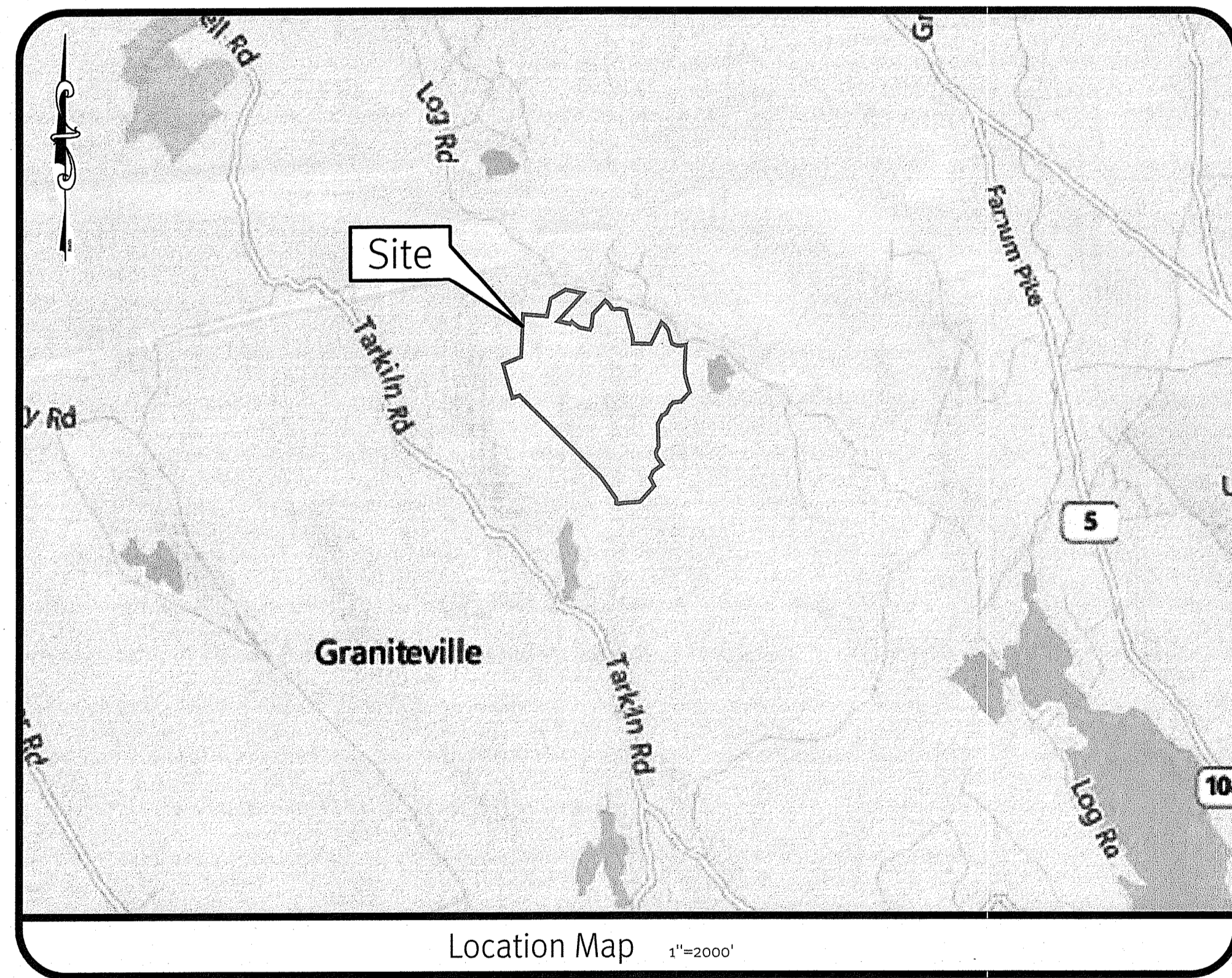


RIDEM Preliminary Determination Submission

Log Road Solar

512 Log Road
Smithfield, Rhode Island

Assessor's Plat 50 Lot 29



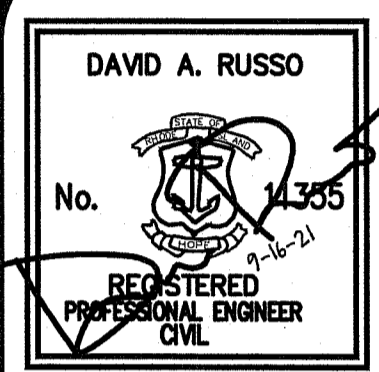
Sheet Index

1. Cover Sheet
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **OCT 15 2021** FILE # **19-0322**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin J. Jenczek

Environmental Management
SEP 20 2021
Office of Water Resources



THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTING AGENCIES AND AGENCIES SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTING AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTING AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTING AGENCIES.

No.	Date	Description	By:
1	10/15/2021	RIDEM Response to Comments	M.A.H.
2	10/15/2021	RIDEM Preliminary Determination Submission	M.A.H.
3	10/15/2021	RIDEM Preliminary Determination Submission	M.A.H.

Drawn By: M.A.H. Design By: M.A.H.

Cover Sheet
Log Road Solar
Smithfield, Rhode Island
Assessor's Plat 50 Lot 29
Applicant
ISM Solar Development, LLC
940 Waterman Ave, East Providence, RI 02914

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z:\dmain\projects\2265-002_log_road_solar\autocad\drawings\2265-002_cvr.dwg Plotted: 9/16/2021

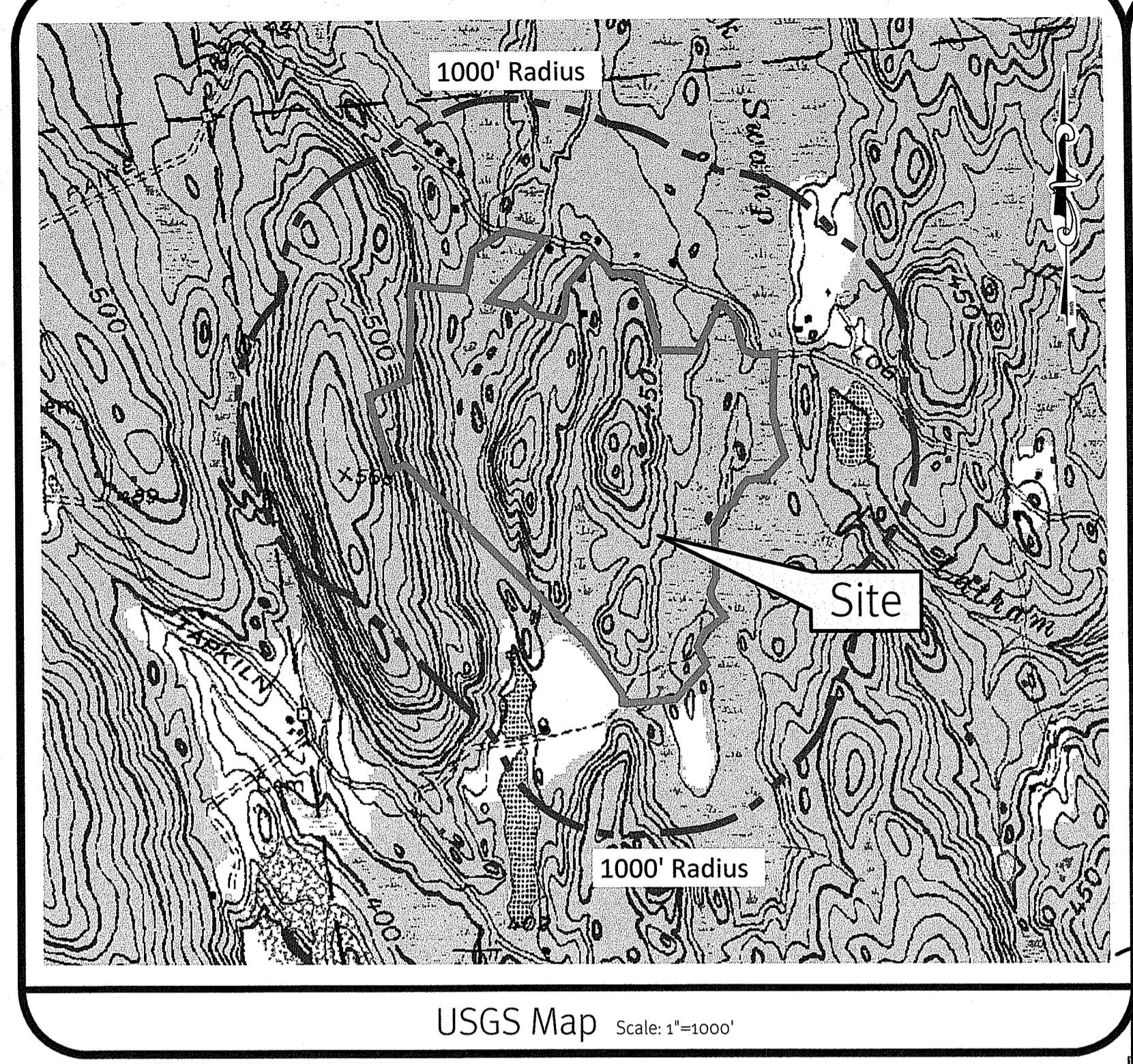
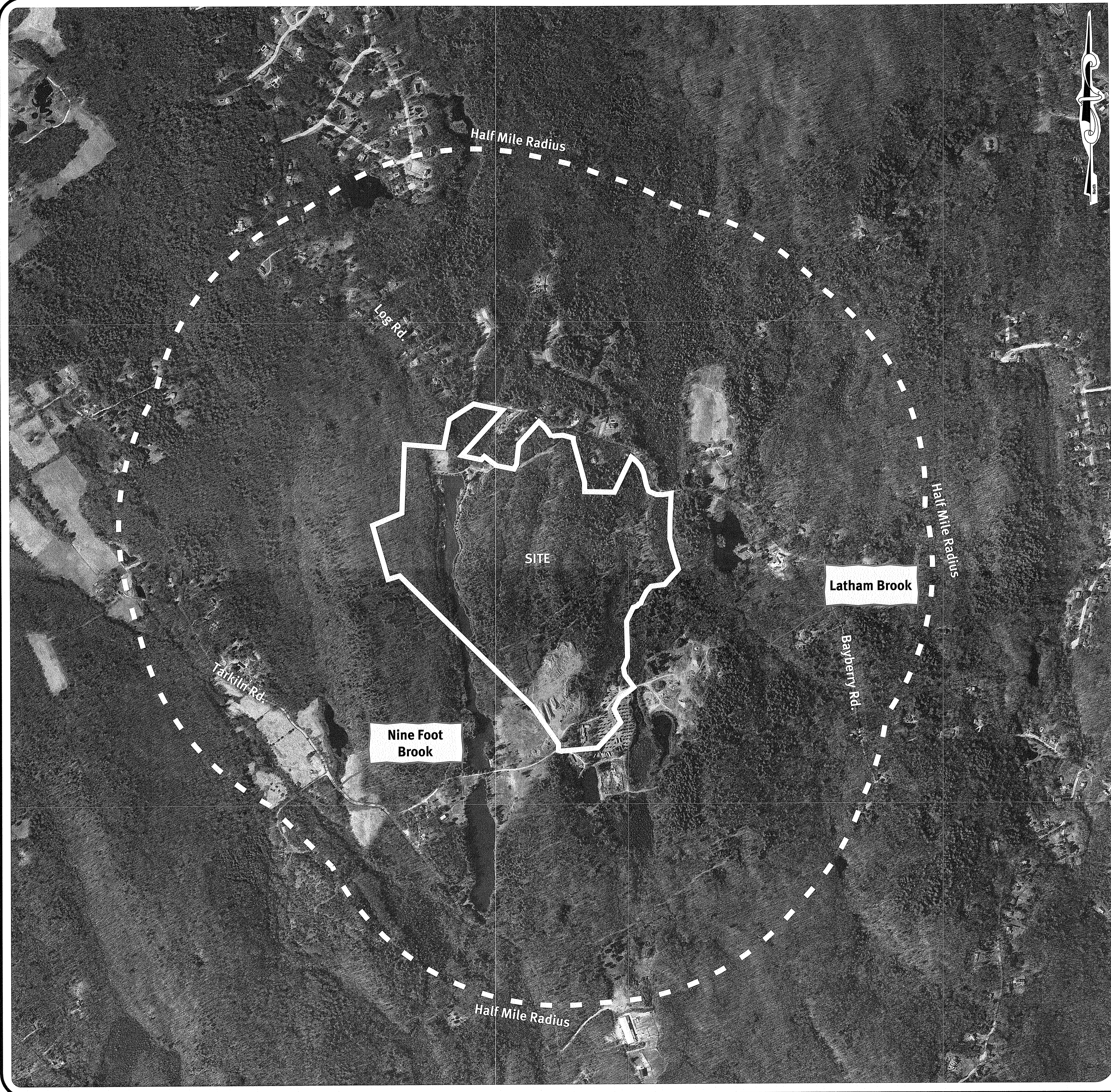


Photo Obtained from RI-GIS.

Scale: 1"=500'

0 250' 500' 1000'

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 OCT 15 2021 FILE # 19-0322
 ANY CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANNING & CONSTRUCTION SITE

Martin Senek

DiPrete Engineering
 Two Stafford Court Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-664-6006 www.diprete-eng.com

Boston • Providence • Newport

DAVID A. RUSSO
 No. 14355
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

Environmental Management
 SEP 20 2021
 Office of Water Resources

THE PLAN SET AND NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS APPROVED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS OF UTILITIES. SEE UTILITY NOTES ON SHEET 3.

NO.	DATE	DESCRIPTION	DESIGN BY
2	09-16-2021	RDMA Response to Comments	M.A.H.
1	05-11-2021	RDMA Response to Comments	M.A.H.
0	11-09-2019	RDMA Preliminary Determination/ Submission	By: M.A.H.
1		Drawn	By: M.A.H.
		Design	By: M.A.H.

Half Mile Radius Aerial & USGS Map
Log Road Solar
 Smithfield, Rhode Island
 Assessors Par 50 Lot 29
ISM Solar Development, LLC
 940 Waterman Ave, East Providence, RI 02914

General Notes:

- THE SITE IS LOCATED ON THE TOWN OF SMITHFIELD ASSESSOR'S PLAT 50 LOT 29.
- THE SITE IS APPROXIMATELY 1444 ACRES AND IS ZONED R-200.
- THE OWNER OF AP 50 LOT 29 IS:
WILLIAM M. DAVIS, JR.
171 TARKLIN ROAD
SMITHFIELD, RI 02814
- THIS SITE IS LOCATED IN FEMA FLOOD ZONES X AND A. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C0165G, MAP REVISED MONTH 2, 2009. (FLOOD PLAN DESCRIPTIONS SHOWN BELOW)
ZONE A - THIS SITE IS LOCATED IN FEMA FLOOD ZONE A. ZONE A ARE AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED.
ZONE X (UNSHADED) - THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. ZONE X ARE AREAS WHERE THERE IS MINIMAL FLOODING.
- PROPERTY LINE SHOWN IS FROM A PLAN ENTITLED "SURVEY PLAN OF 854 LOG ROAD" BY NYBERG & ASSOCIATES, DATED 9/9/2019. THIS SURVEY BY OTHERS HAS CERTIFIED THE PROPERTY LINE AS A CLASS I BOUNDARY AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
- ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, TOWN OF SMITHFIELD 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.
- THE SITE IS NOT WITHIN A:
GROUNDWATER PROTECTION AREA (RIDEM)
NARROW RIVER SPECIAL AREA MANAGEMENT PLAN (CRMC)
SALT PONDS SPECIAL AREA MANAGEMENT PLAN (CRMC)
GROUNDWATER PROTECTION OVERLAY DISTRICT (TOWN)
*WHILE THE SITE IS NOT WITHIN A NATURAL HERITAGE AREA (RIDEM), THERE IS SCARLET BLUET IN A SMALL POND ABOUT 1,800 SF SOUTHWEST OF THE PARCEL LINE (INFORMATION FROM PAUL JORDAN AT RIDEM).
- 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
- THIS PLAN SET REFERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD X.X.X.). RIDOT STANDARD DETAILS ARE AVAILABLE FROM RIDOT AND ONLINE AT: HTTP://WWW.DOT.RI.GOV/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP.
- NO NEW WELLS OR OWTS PROPOSED. THE SITE IS NOT PROPOSED TO BE SERVICED BY PUBLIC WATER AND/OR PUBLIC SEWER.
- THERE ARE NO PUBLIC DRINKING WELLS WITHIN 400' OF THE PROPOSED SOLAR ARRAY.
- THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF SMITHFIELD SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF CATCH BASINS, SWALES AND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM MEETS THE RIDEM BEST MANAGEMENT PRACTICES.
- PROJECT WORK WILL BE UNDERTAKEN IN MULTIPLE PHASES AND IS ANTICIPATED TO BEGIN SPRING 2020 AND CONCLUDE SPRING 2021.
- TEST PITS AND SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON JULY 15-16, 2019.
- ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE IT PROPOSES TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS/ DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCT SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- 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.
- SOIL MAPPING OBTAINED FROM WEBSOIL SURVEY OF RHODE ISLAND, PREPARED BY U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- THE SITE LOCATION AND LIMITS OF WORK PROVIDE SIGNIFICANT VEGETATED BUFFERS FROM SURROUNDING DEVELOPED PROPERTIES. SELECTIVE SCREENING VEGETATION MAY BE INCORPORATED WITHIN THE APPROVED LIMITS OF DISTURBANCE AS DETERMINED DURING THE TOWN'S PRELIMINARY PLAN REVIEW AND PUBLIC HEARING PROCESS AFTER RIDEM REVIEW IS COMPLETE.
- ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE IT PROPOSES TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS/ DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCT SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- THIS PLAN SET MAY REFERENCE AND/ OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS AND THEIR ASSOCIATED DETAILS. ANY REFERENCED OR REPRODUCED PROPRIETARY PRODUCT SHOWN ON DIPRETE PLANS IS STRICTLY FOR INFORMATION/ SPECIFICATION PURPOSES ONLY. DIPRETE ENGINEERING DOES NOT WARRANT ANY PROPRIETARY PRODUCTS OR THEIR DESIGN. IF A DIPRETE ENGINEERING PLAN INCLUDES PROPRIETARY PRODUCT INFORMATION (EITHER EXPLICITLY OR IMPLIED) AND IS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING, SAID STAMP DOES NOT EXTEND TO ANY PORTION OF A PROPRIETARY PRODUCT OR ITS DESIGN.

Soil Erosion and Sedimentation Control Notes:

- 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. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE TOWN PUBLIC WORKS DIRECTOR, THE TOWN ENGINEER, AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, TEMPORARY SEDIMENTATION PONDS, ETC. TO BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION AND THE SOIL EROSION SEDIMENTATION CONTROL PLAN (SESC).
- TEMPORARY SWALES ARE TO BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED ROADWAY. 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.
- ONCE THE TEMPORARY SEDIMENT TRAPS AND BASINS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENT TRAPS AND BASINS TO BE CLEANED AND BROUGHT TO FINAL DESIGN GRADERS.
- INLET PROTECTION IS TO BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.
- FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING SEE SESC PLAN.
- CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER AND OWNER.
- IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.

Demolition Notes:

- CONTRACTOR TO OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
- 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.
- 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.
- 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.
- 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. 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.

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. CONTACT DIG SAFE A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR CONTACTING MEMBER UTILITY COMPANIES. DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON DIG SAFE MEMBER COMPANIES ARE NOT NOTIFIED BY DIG SAFE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.

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. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED.

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.

Grading and Utility Notes:

- CONSTRUCTION TO COMMENCE FALL 2021 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
- THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED SITE. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING GROUND 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.
- ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE TO BE COORDINATED WITH OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION.
- ALL RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN. DIPRETE ENGINEERING IS NOT PROVIDING THE STRUCTURAL DESIGN OF THESE ITEMS. ALL WALLS AND STEEP 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. FINAL STRUCTURAL DESIGN MUST INCORPORATE THE INTENT OF THE GRADING SHOWN ON THESE PLANS AND ALL WORK MUST BE WITHIN THE LIMIT OF DISTURBANCE SHOWN ON THE PLANS.
- 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.
- NO STOCKPILING OF MATERIAL TO BE LOCATED IN THE RIGHT OF WAY AND NO OPEN TRENCHES ARE TO BE LEFT OVERNIGHT.
- ALL LOAM IN DISTURBED AREAS TO BE STOCKPILED FOR FUTURE USE.
- 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.
- NO STUMP DUMPS ARE PROPOSED ON SITE.
- GRADING SHOWN ON THE PLANS IS APPROXIMATE AND MAY BE FIELD MODIFIED WITH APPROVAL FROM DESIGN ENGINEER.

Site Layout Notes:

- 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 LIGHTING IS PROPOSED AT THIS TIME.
- PROPOSED SIGNAGE IS LIMITED TO SECURITY SIGNS AND VOLTAGE WARNING SIGNS (OR SIMILAR) INSTALLED ON THE FACILITY PERIMETER FENCING.
- PROJECT WORK WILL BE UNDERTAKEN IN MULTIPLE PHASES AND SUB-PHASES AND MAY BE BUILT OUT OF SEQUENCE.
- THE SOLAR ARRAY SHALL BE ENCLOSED BY A 6' HIGH CHAINLINK PERIMETER FENCE WITH 12" WIDE GATES WITH KNOX BOXES.
- GROUND MOUNTED SOLAR INSTALLATIONS SHALL NOT EXCEED 12 FEET IN HEIGHT (ZONING ORDINANCE 5.11.B.D.). TYPICALLY, HEIGHT OF PROPOSED SOLAR PANEL INSTALLATION RANGES FROM 3 FEET TO 12 FEET.

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.

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)

SOIL NAME	DESCRIPTION
A1B	AGAWAM FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES
CaD	CANTON-CHARLTON-ROCK OUTCROP COMPLEX, 15 TO 35 PERCENT SLOPES
CeC	CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES
ChC	CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
FeA	FREETOWN MUCK, 0 TO 1 PERCENT SLOPES
MmB	MERRIMAC SANDY LOAM, 3 TO 8 PERCENT SLOPES
Nt	NINIGRET FINE SANDY LOAM
Rf	RIDGEURBY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS

Abbreviations Legend

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

Existing Legend

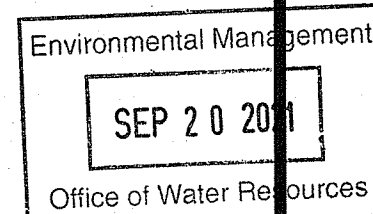
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	PROPERTY LINE		NAIL FOUND/SET
	PROPOSED		DRILL HOLE FOUND/SET
	BUILDING		BOUND FOUND/SET
	BRUSHLINE		SIGN
	GUARDRAIL		SOIL EVALUATION
	FENCE		CATCH BASIN
	RETAINING WALL		DOUBLE CATCH BASIN
	STONE WALL		DRAINAGE MANHOLE
	MINOR CONTOUR LINE		FLARED END SECTION
	MAJOR CONTOUR LINE		GUY POLE
	WATER LINE		ELECTRIC MANHOLE
	SEWER LINE		UTILITY/POWER POLE
	SEWER FORCE MAIN		LIGHTPOST
	GAS LINE		SEWER/SEPTIC MANHOLE
	ELECTRIC LINE		SEWER VALVE
	OVERHEAD WIRES		CLEANOUT
	DRAINAGE LINE		HYDRANT
	SOILS LINES		IRRIGATION VALVE
	50' PERIMETER WETLAND		WATER VALVE
	100' RIVERBANK WETLAND		WELL
	200' RIVERBANK WETLAND		MONITORING WELL
	FEMA BOUNDARY		UNKNOWN MANHOLE
	STREAM		GAS VALVE
	WETLAND LINE & FLAG		BENCH MARK
	STATE HIGHWAY LINE		STREAM FLOW DIRECTION
	STATE FREEWAY LINE		
	15% AND STEEPER SLOPES		

Proposed Legend

NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

	MAJOR CONTOUR LINE		DRAINAGE LINE
	MINOR CONTOUR LINE		PERFORATED SUBDRAIN SWALE
	SPOT ELEVATION		OVERHEAD WIRE
	2:1 AND STEEPER SLOPES		ELECTRIC, TELEPHONE, CABLE LINE
	EDGE OF PERMEABLE ACCESS PATH		POND EARTHEN EMBANKMENT
	PERMEABLE ACCESS PATH		LIMIT OF DISTURBANCE/ LIMIT OF CLEARING (NO EROSION CONTROL)
	DRAINAGE AREAS		SILT FENCE (SEE DETAIL SHEET 13)
	6' HIGH CHAINLINK FENCE		STRAW WATTLE (SEE DETAIL SHEET 13)
	CONCRETE PADS FOR INVERTERS		COMPOST FILTER SOCK (6" DIAMETER) (SEE DETAIL SHEET 11)
	SOLAR PANELS		RIP RAP
	ELECTRIC LINE (DESIGN BY OTHERS)		



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **SEP 15 2021** FILE # **19-0322**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Semek

UTILITY NOTE:

ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS 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. CONTACT DIG SAFE A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR CONTACTING MEMBER UTILITY COMPANIES. DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON DIG SAFE MEMBER COMPANIES ARE NOT NOTIFIED BY DIG SAFE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.

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. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED.

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.

Notes and Legend
Log Road Solar
Smithfield, Rhode Island
Assessors Plat 50 Lot 29

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

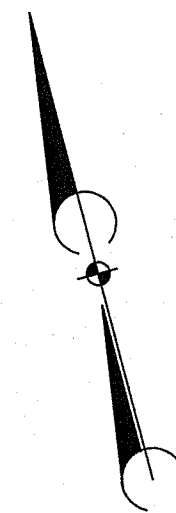
DAVID A. RUSSO
No. 1355
REGISTERED PROFESSIONAL ENGINEER
CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS ACCOMPANIED BY THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.
DIPRETE ENGINEERING IS NOT A PROFESSIONAL UTILITY LOCATION COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEASUREMENTS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA COMPLIANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.
EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES. SEE UTILITY NOTE ON SHEET 3.

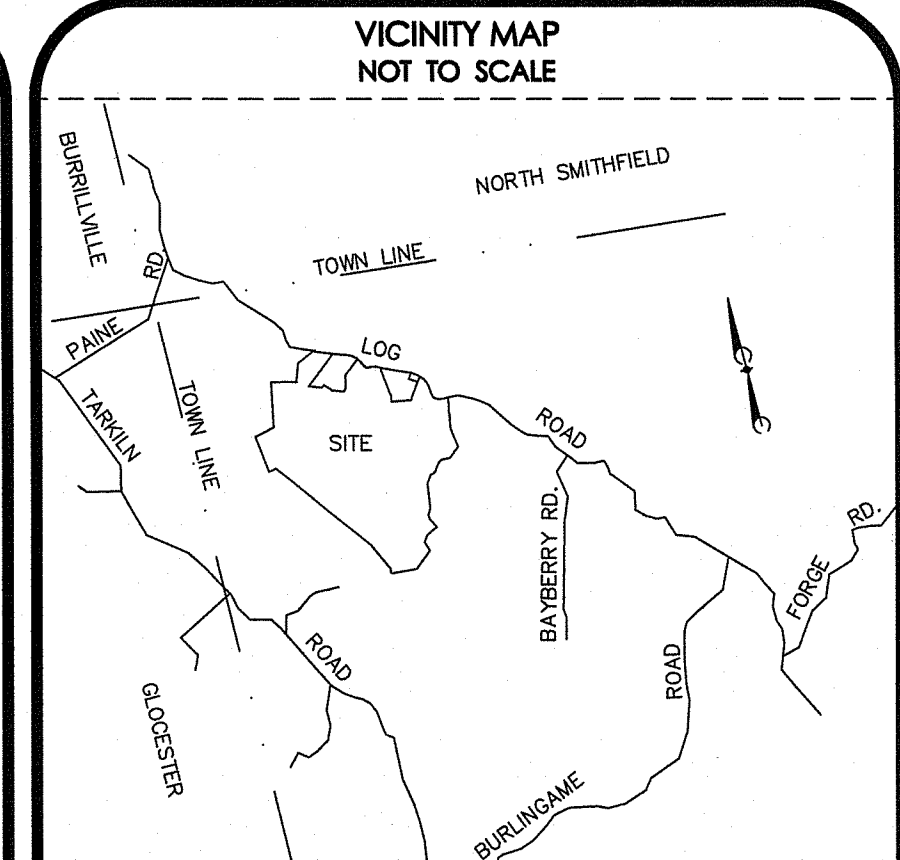
NO.	DATE	DESCRIPTION	BY:	CHK:
2	09/15/2021	DATA RESPONSE TO Comments	M.A.H.	D.Y.
1	09/10/2021	RI&M RESPONSE TO Comments	M.A.H.	D.Y.
0	10/25/2019	RI&M PRELIMINARY Determination/ Submission	M.A.H.	D.Y.

Drawn By: M.A.H. Design By: M.A.H.

ISM Solar Development, LLC
940 Waterman Ave, East Providence, RI 02914
Applicant
Assessors Plat 50 Lot 29



Environmental Management
SEP 20 2021
Office of Water Resources



STREET INDEX
LOG ROAD
SMITHFIELD, RI

FILE NAME: 19-105 WORKSHEET.DWG

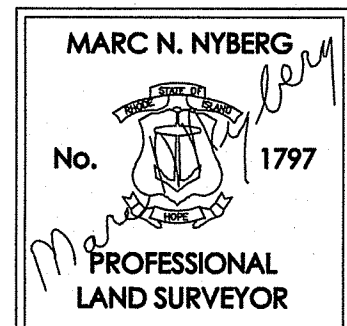
CREATED: 9/9/19	SAVED: 9/9/19	COMP'D: GTE
CADD: GTE	REVW'D: MNN	STATUS: WorkSheet

REV.	DESCRIPTION	DATE
NONE	N/A	9/9/19

APPLICANT(S)/OWNER(S):
DANIEL T. & NANCY COOLONG
P.O. BOX 399
GREENVILLE, RI 02828

ZONE: R-200
 MINIMUM LOT AREA: 20,000 Sq. Ft.
 MINIMUM LOT FRONTAGE: 300 Ft.
 MINIMUM SETBACKS:

- FRONT: 50 Ft.
- SIDE: 40 Ft.
- REAR: 100 Ft.



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:

- LIMITED CONTENT BOUNDARY SURVEY: CLASS 1
- TOPOGRAPHIC ACCURACY: N/A

Marc N. Nyberg
 MARC N. NYBERG LICENSE No. 1797 COA No. A52

STATEMENT OF PURPOSE
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND THE PREPARATION OF THE PLAN IS AS FOLLOWS:

- SURVEY PLAN

PREPARED BY:
 Nyberg & Associates A subsidiary of
INSITE Engineering Services, LLC
 PROFESSIONAL ENGINEERS | LAND SURVEYORS
 Precision. Clarity. Certainty.

501 Great Road Tel: (401) 762-2870
 Unit 104 Fax: (401) 762-2871
 North Smithfield, RI 02896 Web: InsiteEngineers.com

SURVEY PLAN
 OF
854 LOG ROAD
 ASSESSOR'S PLAT 50 LOT 29
 SMITHFIELD, RHODE ISLAND
 PREPARED FOR
DANIEL T. & NANCY COOLONG
 P.O. BOX 399
 GREENVILLE, RI 02828

SCALE: 1" = 160' DATED: September 9, 2019

GRAPHIC SCALE

JOB NUMBER: 19-105 SHEET NUMBER: 4 OF 15

It should be advised that this Plat 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
 APPLIED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED OCT 15 2021 FILE # 19-0322
 (NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL)
 APPROVED FOR CONSTRUCTION SITE

Martin D. Wenczek

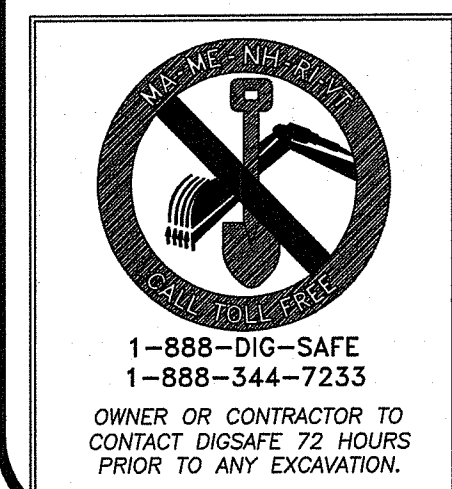
RIGHT OF WAY REFERENCE: DEED BK. 26, PG. 325

PLAN REFERENCES:

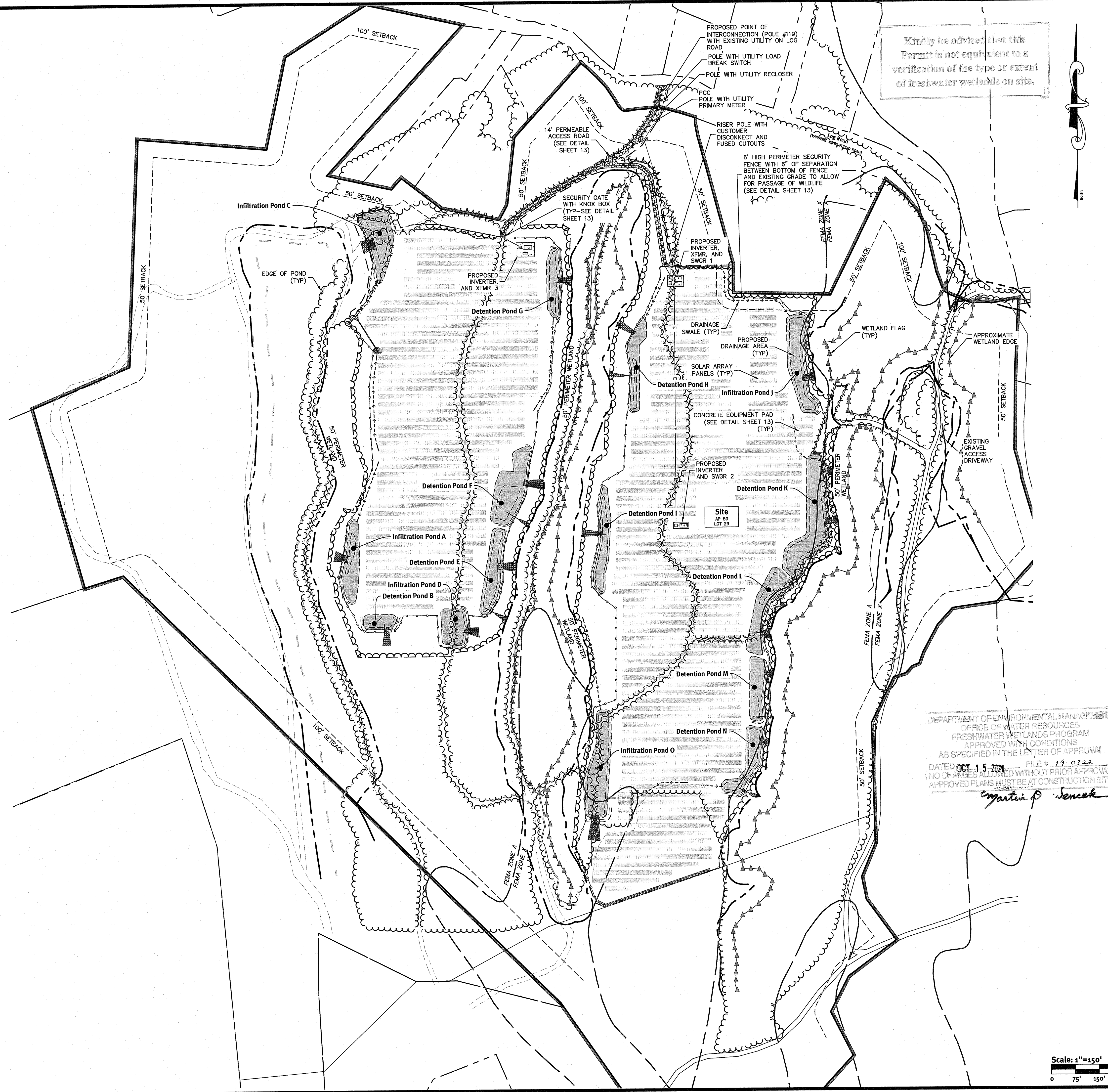
"ADMINISTRATIVE SUBDIVISION, LOG ROAD, SMITHFIELD, R.I., PLAT 50, LOTS 27B, 27C & 29, SCALE: 1 INCH EQUALS 100 FEET, SCALE: 1 INCH EQUALS 100 FEET, SEPTEMBER 6, 2002, REVISED: 10/10/02" (TWO SHEETS) RECORDED IN PLAN BOOK 5, PAGES 99 & 100

"SURVEY OF NORTHERLY LINE OF A.P. 50 LOT 29 FOR NANCY COOLONG IN SMITHFIELD, R.I., DATED: 11-9-88, SCALE: 1"=100', BY ANTHONY E. MUSCATELLI & ASSOCIATES, INC. (UNRECORDED)

"DAVIS LIQUID WASTE SUPERFUND SITE, SURVEY PLAN OF LOTS 27B & 27C PLAT 50 IN SMITHFIELD, R.I., DATE: 9/29/95, SCALE: 1"=100', SHEET 1 OF 1, JOB NO. F-130010, PREPARED FOR THE DEPT. OF THE ARMY, N.E. DIV. CORPS OF ENGINEERS, 424 TRAFALGO RD., WALTHAM, MA." BY GUERRIERE & HALNOR, INC. (UNRECORDED)



Z:\Main\projects\2265-002_log_road_solar\autocad drawings\2265-002-plan.dwg Plotdate: 9/16/2021



Dimensional Regulations:

CURRENT ZONING:	R-200	Environmental Management
MINIMUM LOT AREA:	200,000 SF	SEP 20 2021
MINIMUM FRONTAGE AND LOT WIDTH:	300'	Office of Water Resources
MINIMUM FRONT YARD:	50'	
MINIMUM SIDE YARD:	40'	
MINIMUM REAR YARD:	100'	
MAXIMUM LOT COVERAGE:	10% **	

MAXIMUM CLEARING ALLOWED: 40% OF FORESTED AREA
 119± FORESTED ACRES x 40% = 47.6± AC.

MAXIMUM CLEARING PROPOSED: 47.5 ACRES / 119 = 39.9% OF FORESTED AREA

MAXIMUM LOT COVERAGE**: 20% OF LOT COVERED WITH PANELS AND INTER-ROW SPACING

PROPOSED SOLAR PANEL COVERAGE: 28.63± AC.
 28.63± AC. / 144± AC. = 19.9 % OF LOT

* ZONING ORDINANCE 5.11.5 - PRINCIPAL SOLAR ENERGY SYSTEMS

ALL PANELS, EQUIPMENT, AND STRUCTURES ASSOCIATED WITH A PRINCIPAL SOLAR ENERGY SYSTEM SHALL MEET THE PRINCIPAL SETBACK REQUIREMENTS PRESCRIBED BY THE ZONING DISTRICT IN WHICH THEY ARE LOCATED, EXCEPT THAT GROUND-MOUNTED SOLAR ENERGY SYSTEMS SHALL BE SET BACK FROM PROPERTY LINES ADJUTING RESIDENTIALLY ZONED PARCELS, OR PARCELS CONTAINING RESIDENTIAL USES, A MINIMUM OF FIFTY FEET (50'), AND FROM PROPERTY LINES ADJUTING PUBLIC AND PRIVATE ROADS A MINIMUM OF ONE-HUNDRED FEET (100').

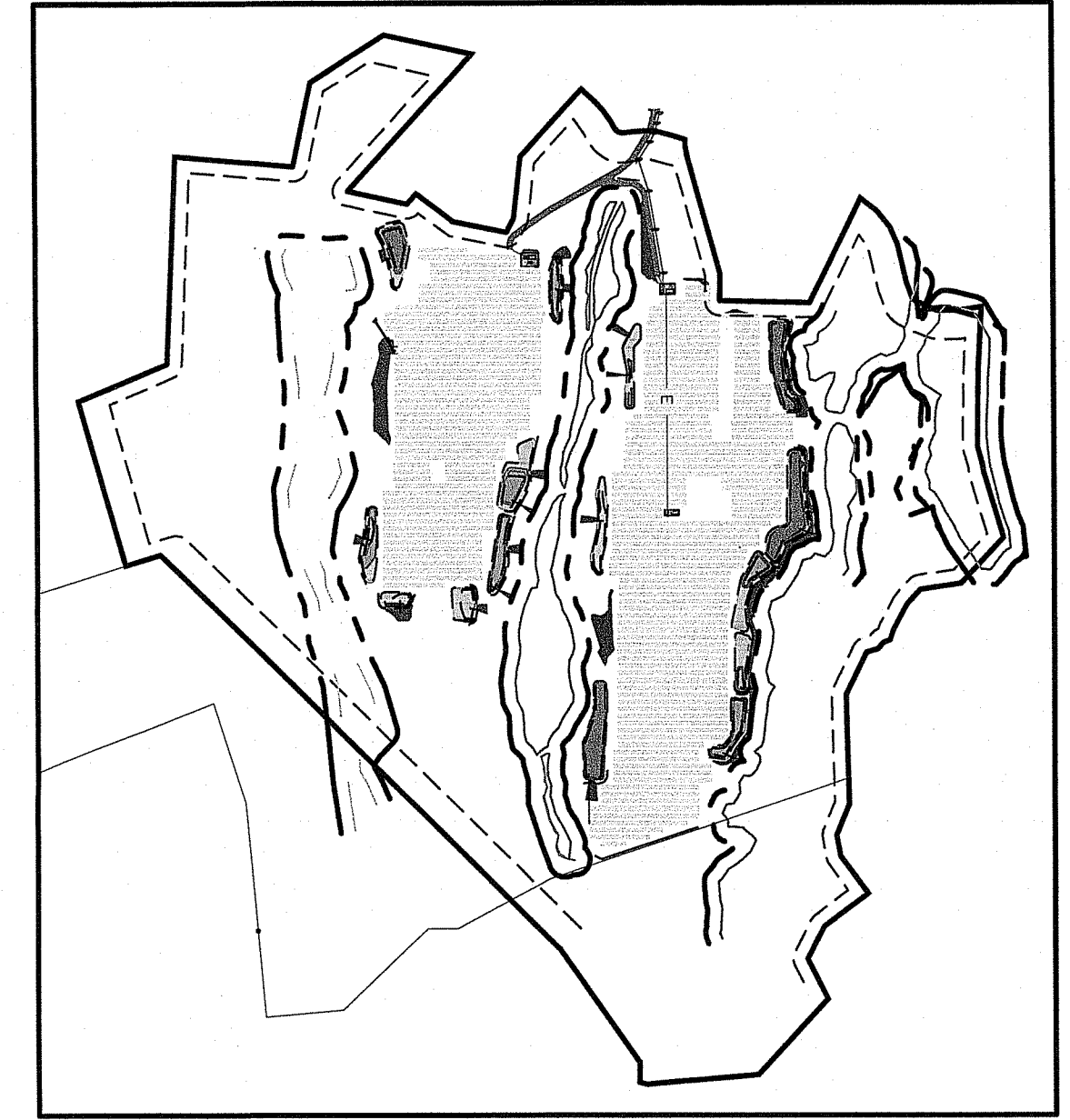
** ZONING ORDINANCE 5.11.7 - ADDITIONAL REQUIREMENTS FOR PRINCIPAL SOLAR ENERGY SYSTEMS IN RESIDENTIAL ZONING DISTRICTS (R-20, R-20M, R-MED, R-80 AND R-200)

(F) GROUND-MOUNTED SOLAR ENERGY SYSTEMS IN A RESIDENTIAL ZONING DISTRICT AND OTHERWISE ALLOWED PURSUANT TO THIS ORDINANCE SHALL OCCUPY NO MORE THAN TWENTY PERCENT (20%) OF THE PARCEL ON WHICH THEY ARE LOCATED.

Phasing Plan:

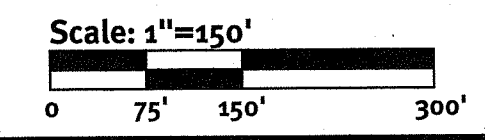
PHASE I (ACCESS ROAD AND WEST SIDE)

PHASE II (EAST SIDE)



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED OCT 15 2021 FILE # 19-0322
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin P. Senech



DiPrete Engineering
 Two Stafford Court Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-664-6006 www.diprete-eng.com

DAVID A. RUSSO
 No. 14355
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE DEPARTMENT OF WATER RESOURCES. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS DUE TO THE LIMITATIONS OF EXISTING UTILITIES. SEE UTILITY NOTE ON SHEET 3.

No.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	DATE
1	09/16/2021	DESIGN	M.A.H.		
2	09/16/2021	DESIGN	M.A.H.		
3	09/16/2021	DESIGN	M.A.H.		
4	09/16/2021	DESIGN	M.A.H.		
5	09/16/2021	DESIGN	M.A.H.		
6	09/16/2021	DESIGN	M.A.H.		
7	09/16/2021	DESIGN	M.A.H.		
8	09/16/2021	DESIGN	M.A.H.		
9	09/16/2021	DESIGN	M.A.H.		
10	09/16/2021	DESIGN	M.A.H.		

Overall Site Layout Plan
Log Road Solar
 Smithfield, Rhode Island
 Assessors Plat 50 Lot 29
 Applicant: **ISM Solar Development, LLC**
 940 Waterman Ave, East Providence, RI 02914

Design By: M.A.H.

DE Job No: 2265-002 Copyright: 2021 by DiPrete Engineering Associates, Inc.

SHEET 5 OF 15

z:\demetri\project\12265-002_log_road_solar\background drawings\12265-002-plan.dwg Plot Date: 9/16/2021



General Notes:

- CONTRACTOR MUST INSTALL FILTER SOCKS ALONG PROPOSED SLOPES. SEE DETAIL ON SHEET 11.
- CONTRACTOR MUST INSTALL DOUBLE ROWS OF PROTECTION (STRAW WATTLE AND SILT FENCE) WITH MAXIMUM 20' SEPARATION AT TOE OF SLOPE WHERE NO SEDIMENT TRAP OR BASIN IS PROVIDED.
- SEE SESC PLAN FOR CONSTRUCTION PHASING AND SOIL EROSION CONTROL IMPLEMENTATION PHASING.

Soil Erosion Control Legend:

PERMANENT DIVERSION RUNOFF CONVEYANCE MEASURE (SWALE AND/OR BERM)

INITIAL DIVERSION RUNOFF CONVEYANCE MEASURE (EXISTING GRADE SWALE AND/OR BERM)

SEDIMENT CONTROL WATERSHED AREAS

TEMPORARY SEDIMENT TRAP

LIMIT OF DISTURBANCE (NO EROSION CONTROL)

SILT FENCE (SEE DETAIL SHEET 13)

STRAW WATTLE (SEE DETAIL SHEET 13)

COMPOST FILTER SOCK (8" DIAMETER) (SEE DETAIL SHEET 11)

CONSTRUCTION ENTRANCE (RIDOT STD 9.9.0)

PR CONTOUR

3:1 SLOPES REQUIRING TEMPORARY SLOPE PROTECTION

2:1 AND STEEPER SLOPES WITH SLOPE PROTECTION

EXISTING SLOPES >15%

INLET SEDIMENT CONTROL

Erosion Control SESC Trap Disturbance Area Notes:

THE FOLLOWING STEPS MUST BE FOLLOWED WHEN CLEARING AND STUMPING THE SESC TRAP DISTURBANCE AREAS:

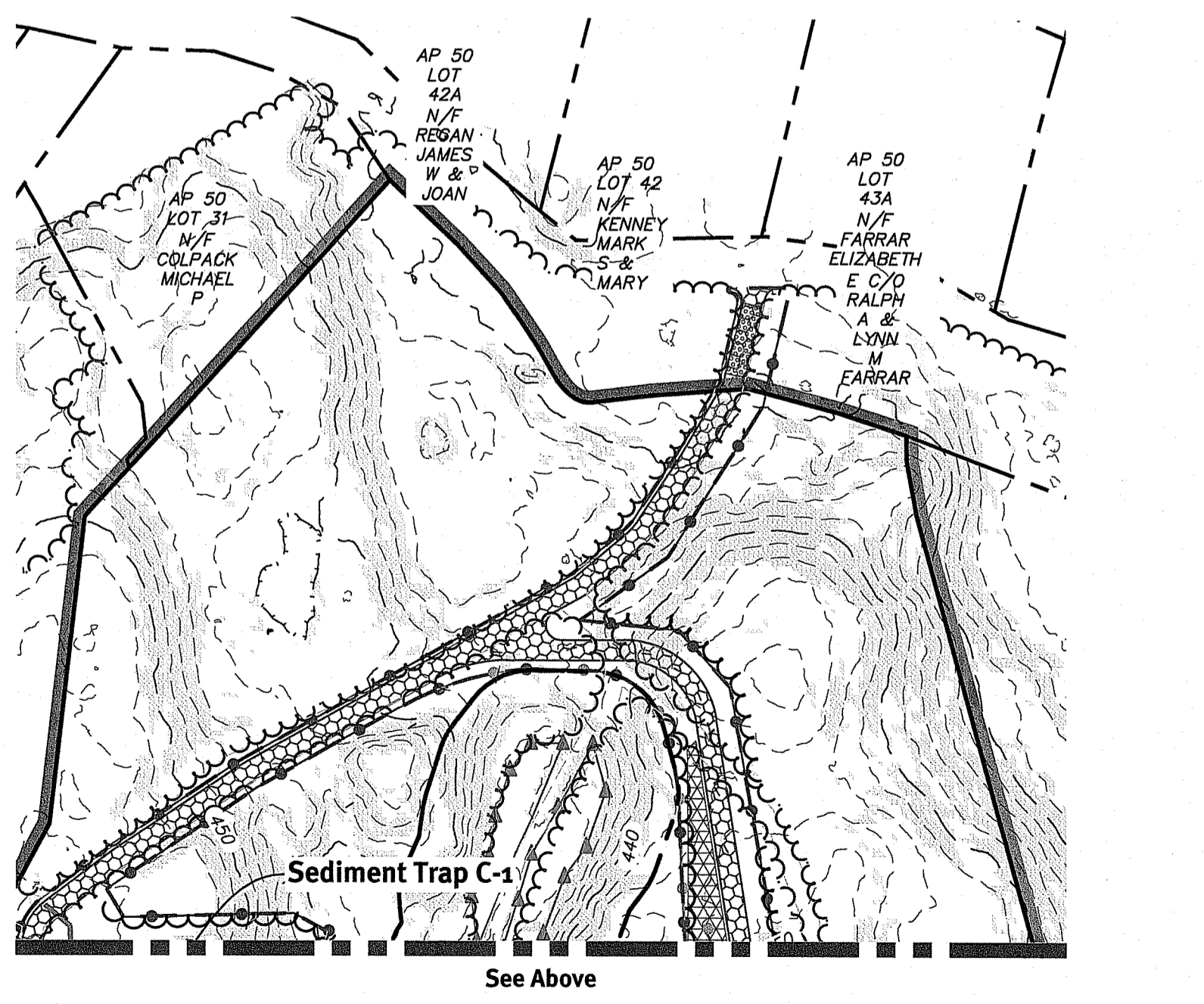
TREE CLEARING AND EARTHWORK

- TREE CLEARING WILL COMMENCE LEAVING ALL STUMPS IN PLACE.
- THE ENTIRETY OF ALL PHASE 1 AND 2 EROSION CONTROL MUST BE INSTALLED (SEE PLANS).
- STUMPING MUST BE PERFORMED WITHIN THE APPROXIMATE DISTURBANCE AREAS LINES (INSIDE THE FENCED AREAS) AND DIVERSION CHANNELS (ALONG WITH PERMANENT SWALES) AND TRAPS MUST BE INSTALLED BEFORE MOVING TO THE NEXT STUMPING AREA.
- ONCE TRAPS AND RIP RAP OUTLETS ARE IN PLACE COMPOST FILTER SOCKS MUST BE INSTALLED AS SHOWN ON THIS SHEET.
- CONTRACTOR TO THEN BEGIN FINAL SITE GRADING.
- ONCE GRADING IS COMPLETED, AREA MUST BE SEEDED WITHIN 72 HOURS.
- ONCE GRASS HAS BEEN ESTABLISHED, TEMPORARY MEASURES CAN BE TAKEN OFFLINE.
- ONCE TEMPORARY MEASURES ARE REMOVED THE CONTRACTOR MUST SCARIFY THE BOTTOM OF THE LINED TRAPS UNDER THE SUPERVISION OF THE ENGINEER OF RECORD TO ENSURE INFILTRATION CAN OCCUR IN BMP AREAS REQUIRING SUCH.
- PERMANENT DRAINAGE FEATURES CAN THEN BE CONSTRUCTED.

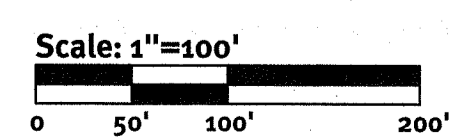
Kindly be advised that this permit is not equivalent to a certification of the type or extent of freshwater wetlands on site.

OCT 15 2021 19-0322

Martin D. Sencak



Note: This Plan Must Be Reproduced In Color



DiPrete Engineering

Two Stafford Court Cranston, RI 02920
Tel 401-943-1000 Fax 401-664-6006 www.diprete-eng.com

Boston • Providence • Newport

DAVID A. RUSSO

No. 1435

REGISTERED PROFESSIONAL ENGINEER CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE ENGINEER OF RECORD AND A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE.

DIPRETE ENGINEERING ONLY WARRANTS PLANS AND CONSTRUCTION TITLE BLOCK, STAMPED BY REGISTERED ENGINEERS. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEASUREMENTS, SURVEYING, CALCULATIONS AND REQUIREMENTS AND OSHA SAFETY PRECAUTIONS AND REQUIREMENTS AND OSHA DESIGN.

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS. CONTRACTOR MUST VERIFY THE LOCATION OF EXISTING UTILITIES. SEE UTILITY NOTE ON SHEET 5.

No.	Date	Description	By:
1	09-16-2021	REVISION TO COMMENTS	M.A.H.
2	09-16-2021	REVISION TO COMMENTS	M.A.H.
3	09-16-2021	REVISION TO COMMENTS	M.A.H.
4	09-16-2021	REVISION TO COMMENTS	M.A.H.

Drawn By: M.A.H. Design By: M.A.H.

Overall SESC Plan

Log Road Solar

Smithfield, Rhode Island
Assessor's Plat 50 Lot 29

Applicant: **ISM Solar Development, LLC**

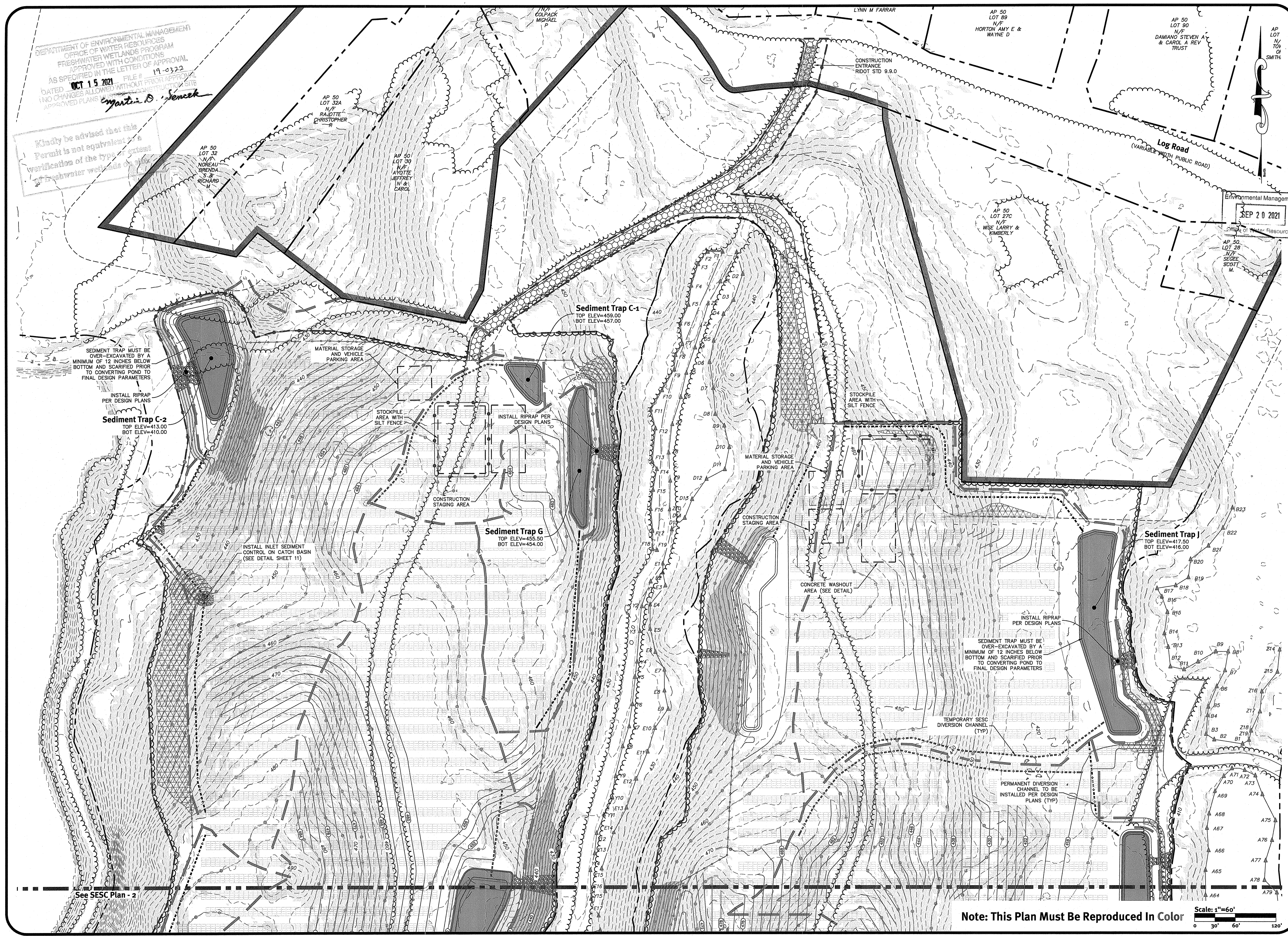
940 Waterman Ave, East Providence, RI 02914

DE Job No: 2265-002 Copyright 2021 by DiPrete Engineering Associates, Inc.

SHEET 6 OF 15

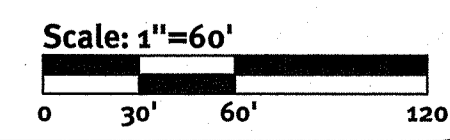
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED OCT 15 2021 FILE # 19-0322
 (NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL)
 APPROVED PLANS FOR CONSTRUCTION SITE
 Martin D. Senek

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



See SESC Plan - 2

Note: This Plan Must Be Reproduced In Color



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DAVID A. RUSSO
 No. 1235
 REGISTERED PROFESSIONAL ENGINEER CIVIL

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No.	Date	Description	By
1	09-16-2021	Initial Response to Comments	M.A.H.
2	09-16-2021	Final Response to Comments	M.A.H.
3	09-16-2021	Final Response to Comments	M.A.H.

Drawn By: M.A.H. Design By: M.A.H.

SESC Plan-1
Log Road Solar
 Smith Road, Rhode Island
 Assessors Plat 50 Lot - 29
ISM Solar Development, LLC
 940 Waterman Ave, East Providence, RI 02914
 DE Job No: 2265-002. Copyright 2021 by Diprete Engineering Associates, Inc.

See SESC Plan-1

SEDIMENT TRAP MUST BE OVER-EXCAVATED BY A MINIMUM OF 12 INCHES BELOW BOTTOM AND SCARIFIED PRIOR TO CONVERTING POND TO FINAL DESIGN PARAMETERS

Sediment Trap A
TOP ELEV=475.75
BOT ELEV=474.25

Sediment Trap E
TOP ELEV=447.50
BOT ELEV=446.00

Sediment Trap F
TOP ELEV=448.50
BOT ELEV=448.50

Sediment Trap E
TOP ELEV=447.50
BOT ELEV=446.00

Sediment Trap L
TOP ELEV=416.00
BOT ELEV=413.00

Sediment Basin K
TOP ELEV=415.25
BOT ELEV=413.75

Sediment Trap M
TOP ELEV=417.00
BOT ELEV=414.00

Sediment Trap O
TOP ELEV=418.00
BOT ELEV=416.50

Sediment Trap N
TOP ELEV=413.50
BOT ELEV=411.00

SEDIMENT TRAP MUST BE OVER-EXCAVATED BY A MINIMUM OF 12 INCHES BELOW BOTTOM AND SCARIFIED PRIOR TO CONVERTING POND TO FINAL DESIGN PARAMETERS

PERMANENT DIVERSION CHANNEL PER DESIGN PLANS (TYP)

INSTALL RIPRAP PER DESIGN PLANS

ENTIRETY OF EXISTING AREA WITHIN THE SOUTHERN WATERSHED CONSISTS OF GRAVEL COVER (NO CLEARING NEEDED). ONLY EARTH MOVEMENT WILL BE FOR REMOVAL OF EXISTING STOCKPILES. NO SIGNIFICANT EARTH DISTURBANCES ARE ANTICIPATED.

Environmental Management
SEP 20 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
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Martin D. Senech

THIS PLAN IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY, PRECAUTIONS AND REQUIREMENTS, AND OSHA EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. DAMAGES INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES. SEE UTILITY RATE ON SHEET 3.

No.	Date	Description	By:
2	09-16-2021	DESIGN RESPONSIBLE COMMENTS	M.A.H.
1	09-15-2021	DESIGN RESPONSIBLE COMMENTS	M.A.H.
1	09-15-2021	DESIGN RESPONSIBLE COMMENTS	M.A.H.

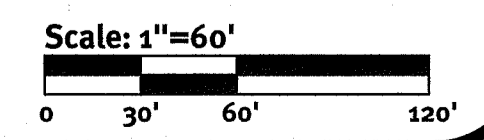
DESIGNED BY: M.A.H.
DRAWN BY: M.A.H.

SESC Plan-2
Log Road Solar
Smithfield, Rhode Island
Assessors Plat 50 Lot 29
ISM Solar Development, LLC
940 Waterman Ave, East Providence, RI 02914

Diprete Engineering
Two Stafford Court Cranston, RI 02920
Tel: 401-943-1000 Fax: 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

DAVID A. RUSSO
No. 1335
REGISTERED PROFESSIONAL ENGINEER CIVIL

Note: This Plan Must Be Reproduced In Color



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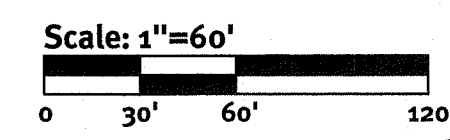
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 of freshwater wetlands on site.

Christopher D. Seneck



See Grading Plan-2



Diprete Engineering
 Two Stafford Court, Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-404-6006 www.diprete-eng.com
 Boston • Providence • Newport

DAVID A. RUSSO
 No. 1335
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

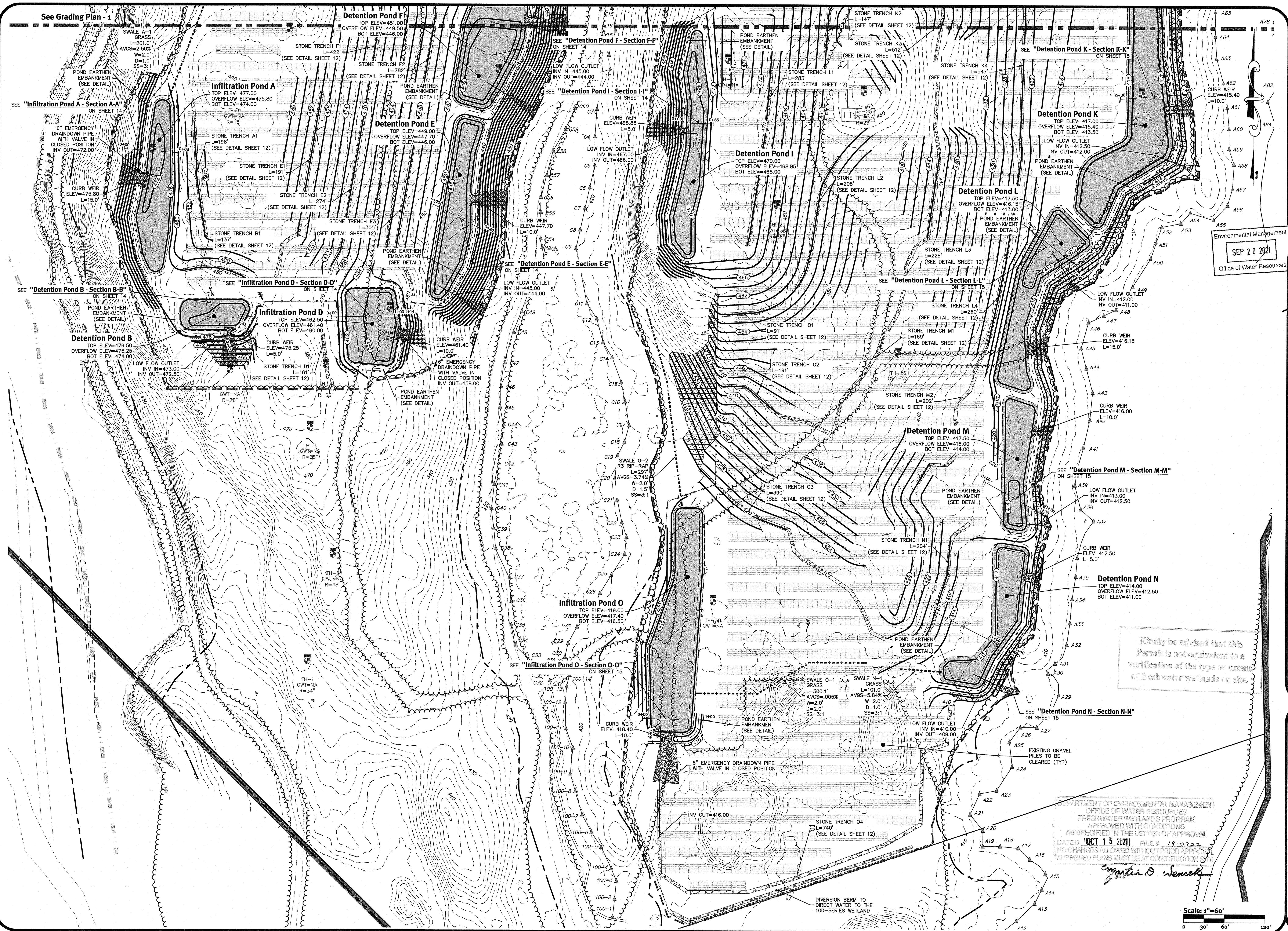
Environmental Management
 Office of Water Resources
SEP 20 2021

No.	Date	Description	Drawn By: M.A.H.	Design By: M.A.H.
1	09-13-2021	Initial Response to Comments		
2	09-13-2021	Final Response to Comments		
3	09-13-2021	Final Response to Comments		

Grading Plan-1
Log Road Solar
 Smithfield, Rhode Island
 Assessors Plat 50 Lot 29
ISM Solar Development, LLC
 940 Waterman Ave, East Providence, RI 02914
 SHEET 9 OF 15

z:\main\projects\2265-002_log_road_solar\autocad drawings\2265-002_plan.dwg Plotdate: 9/16/2021

THIS PLAN SET MUST BE USED FOR CONSTRUCTION PURPOSES ONLY. ANY CHANGES TO THE PLAN SET MUST BE APPROVED BY THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY, PRECAUTIONS AND REQUIREMENTS, AND OSHA DESIGN. EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND DAMAGE INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES, SEE UTILITY MAPS FOR SHEET 3.



See Grading Plan - 1

Environmental Management
 SEP 20 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 OCT 15 2021 FILE # 19-0322
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 IMPROVED PLANS MUST BE AT CONSTRUCTION SITE

Walter D. Seneca

Scale: 1"=60'
 0 30' 60' 120'

DiPrete Engineering
 Two Stafford Court Cranston, RI 02920
 Tel: (401) 943-1000 Fax: (401) 464-6000 www.diprete-eng.com
 Boston • Providence • Newport

DAVID A. RUSSO
 No. 1335
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

UNLESS STATED OTHERWISE, THIS PLAN AND ALL INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF DIPRETE ENGINEERING, INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DIPRETE ENGINEERING, INC.

DIPRETE ENGINEERING, INC. WARRANTS THAT THIS PLAN WAS PREPARED BY A REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT.

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE FEASIBILITY, DESIGN, AND CONSTRUCTION OF THIS PLAN AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES.

EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

No.	Date	Description	By
1	09-16-2021	Initial Response to Comments	M.A.H.
2	10-08-2021	Final Plan/Information Submission	M.A.H.

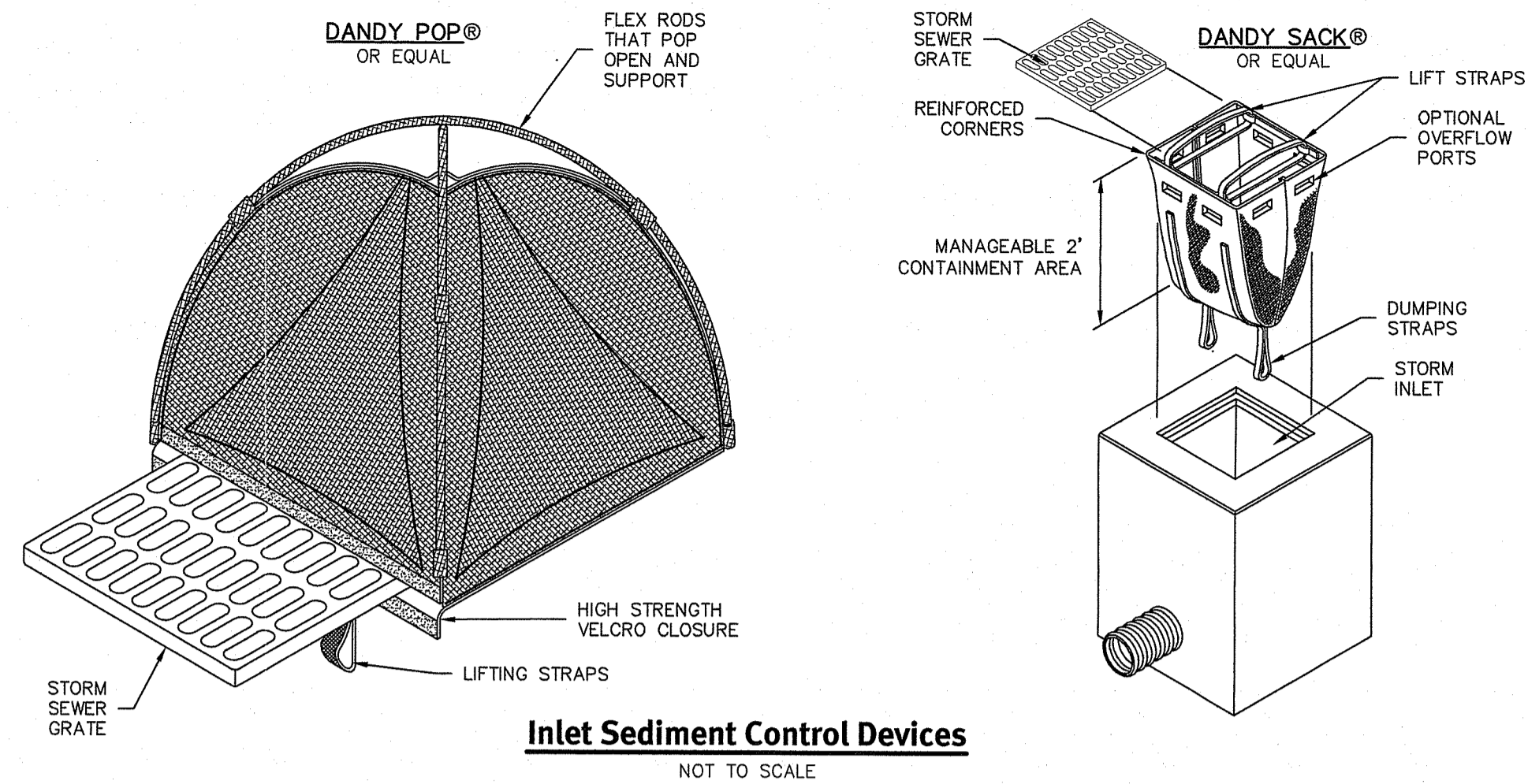
Drawn By: M.A.H. Design By: M.A.H.

Grading Plan-2
Log Road Solar
 Smithfield, Rhode Island
 Assessors Plot 50 Lot 29
 Applicant: **ISM Solar Development, LLC**
 940 Waterman Ave, East Providence, RI 02944

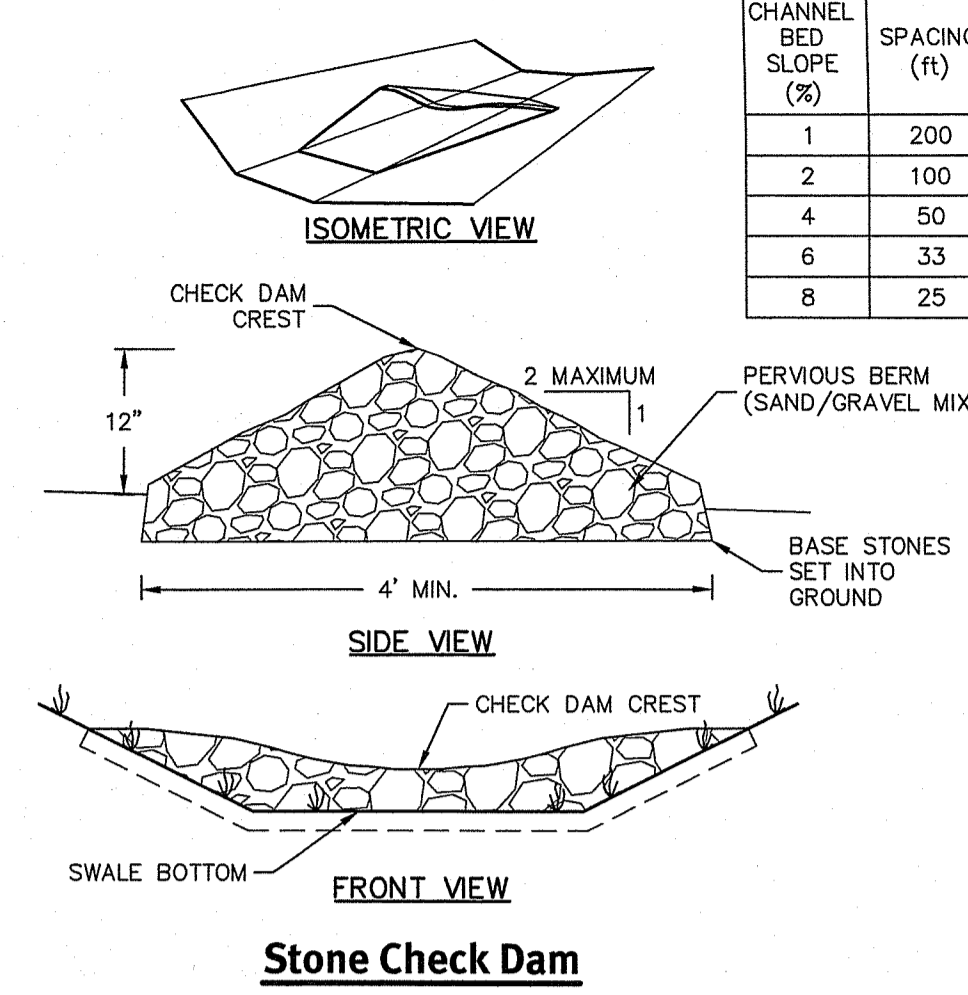
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SHEET 10 OF 15

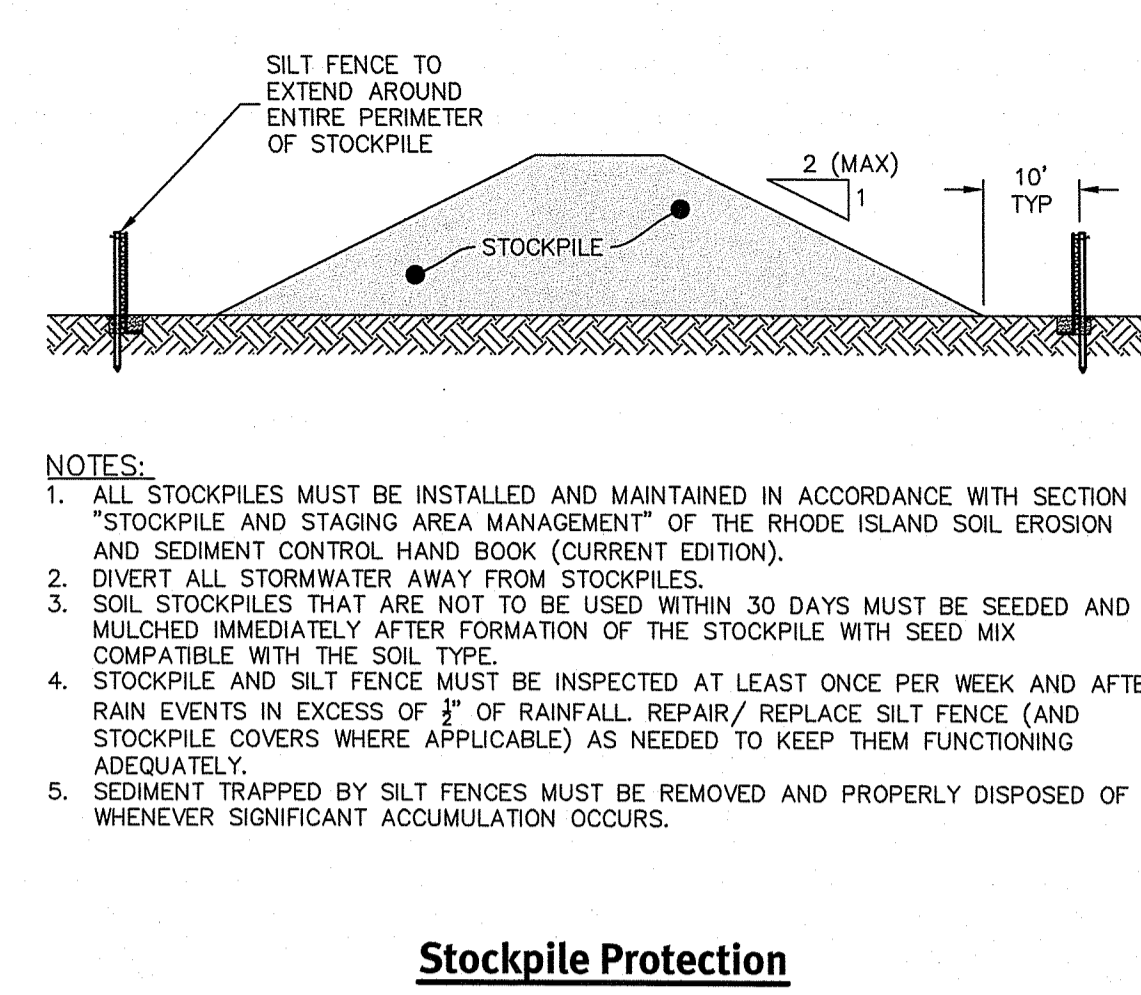
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Inlet Sediment Control Devices
NOT TO SCALE



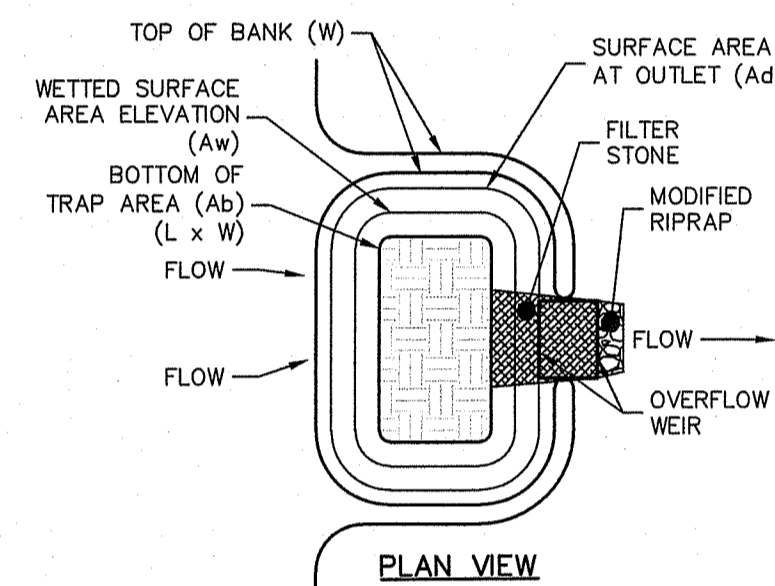
Stone Check Dam
NOT TO SCALE



Stockpile Protection
NOT TO SCALE

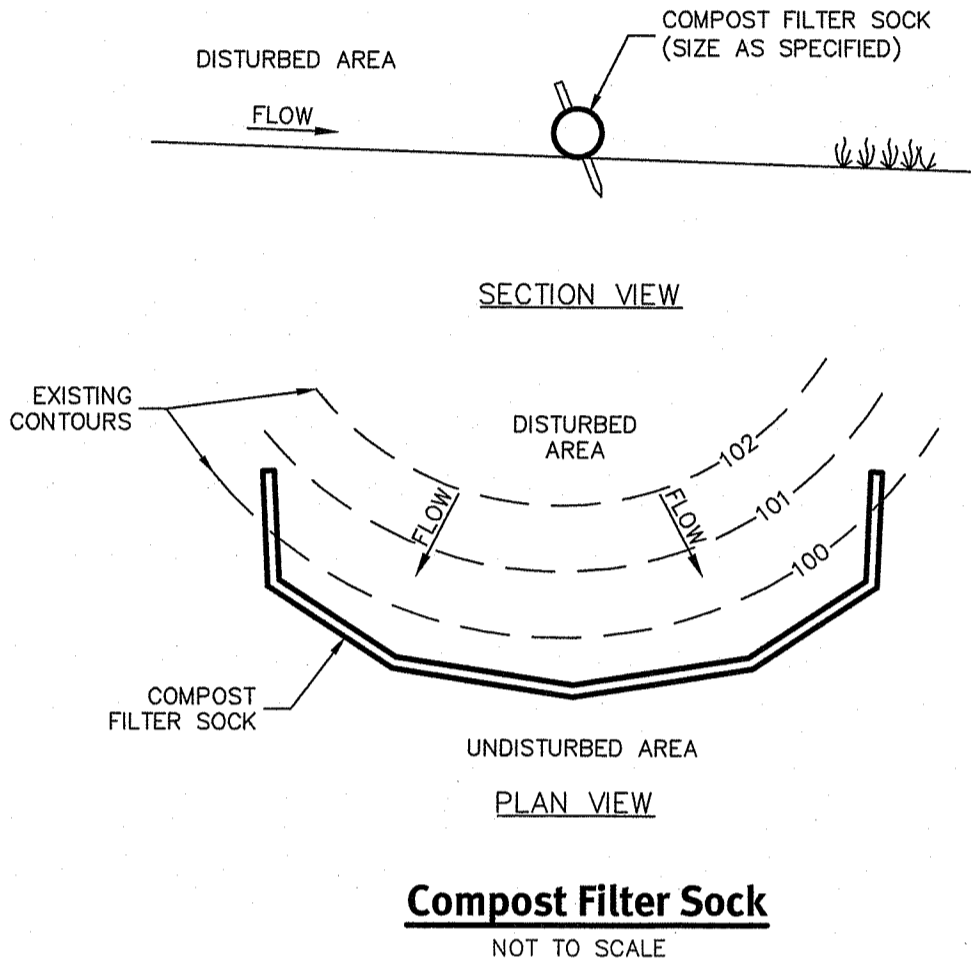
- NOTES:**
1. ALL STOCKPILES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 3 "STOCKPILE AND STAGING AREA MANAGEMENT" OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION).
 2. DIVERT ALL STORMWATER AWAY FROM STOCKPILES.
 3. SOIL STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE WITH SEED MIX COMPATIBLE WITH THE SOIL TYPE.
 4. 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.
 5. SEDIMENT TRAPPED BY SILT FENCES MUST BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.

SEDIMENT TRAP DIMENSIONS	Trap A	Trap C-1	Trap C-2	Trap E	Trap F	Trap G	Trap J	Trap K	Trap L	Trap M	Trap N	Trap O
TRIBUTARY DRAINAGE AREA (Ac)	1.23	0.76	4.919	1.871	4.322	1.475	4.610	4.973	3.065	1.693	1.234	4.274
WET STORAGE DEPTH (Dw)(FT)	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	2	2	1.00	1.00
DRY STORAGE DEPTH (Dd)(FT)	0.50	1.00	1.00	0.50	0.50	0.50	1.00	0.50	1	1	0.50	1.00
TOTAL DEPTH (D)(FT)	1.50	2.00	3.00	1.50	2.50	1.50	2.00	1.50	3.00	3.00	1.50	2.00
BOTTOM OF TRAP AREA (Ab)(SF)	1,682	1,379	5,667	6,426	5,426	3,625	9,176	15,659	3,125	1,215	5,337	7,292
WETTED SURFACE AREA (Aw)(SF)	5,676	1,887	7,921	8,094	7,983	4,889	11,222	18,233	4,943	2,305	6,940	9,501
SURFACE AREA AT OUTLET (Ad)(SF)	6,342	2,451	9,134	8,950	8,527	5,542	13,326	19,541	5,927	2,935	7,762	11,743
MAX TRIBUTARY AREA	1.50	1.00	5.00	2.00	5.00	2.00	5.00	5.00	3.50	2.00	1.50	5.00



TOP WIDTH VS. HEIGHT

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

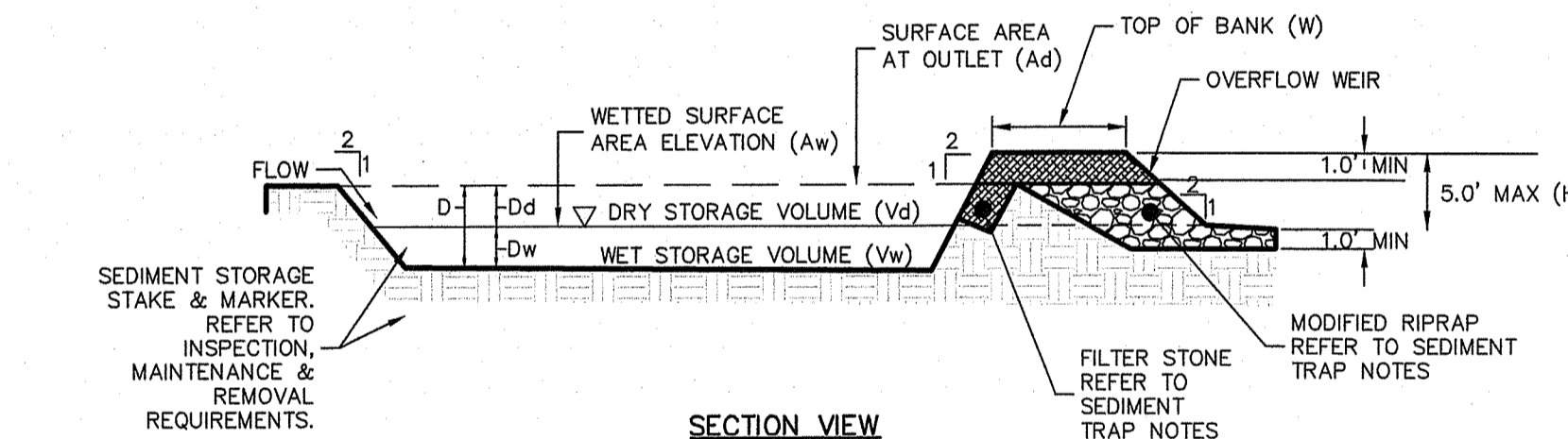


Compost Filter Sock
NOT TO SCALE

Notes:

1. COMPOST FILTER SOCKS MUST BE USED TO CONSTRUCT THE FILTER BERMS ON SITE.
2. 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).
3. TALL GRASSES MUST BE CUT PRIOR TO INSTALLATION TO MINIMIZE POTENTIAL FOR UNDERCUTTING. COMPOST FILTER SOCKS MUST BE NETTED OR OTHERWISE ANCHORED AFTER INSTALLATION.
4. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE SOCK.
5. 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.
6. CONTRACTOR MUST FIELD ADJUST FILTER SOCKS AS NECESSARY. CERTAIN AREAS MAY BE OMITTED AS NECESSARY OR ADDITIONAL MEASURES ADDED BASED ON FIELD CONDITIONS.
7. 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.
8. COMPOST FILTER SOCK PLACED AT THE TOE OF SLOPES STEEPER THAN 5:1 MUST BE MINIMUM 20" DIAMETER.

SLOPE %	MAXIMUM 8" DIAMETER SOCK SPACING
2 (OR LESS)	300 FEET
5	200 FEET
10	100 FEET
15	70 FEET
20	50 FEET
25	40 FEET
30	30 FEET
35	30 FEET
40	30 FEET
45	20 FEET
50	20 FEET



SECTION VIEW

Sediment Trap Notes:

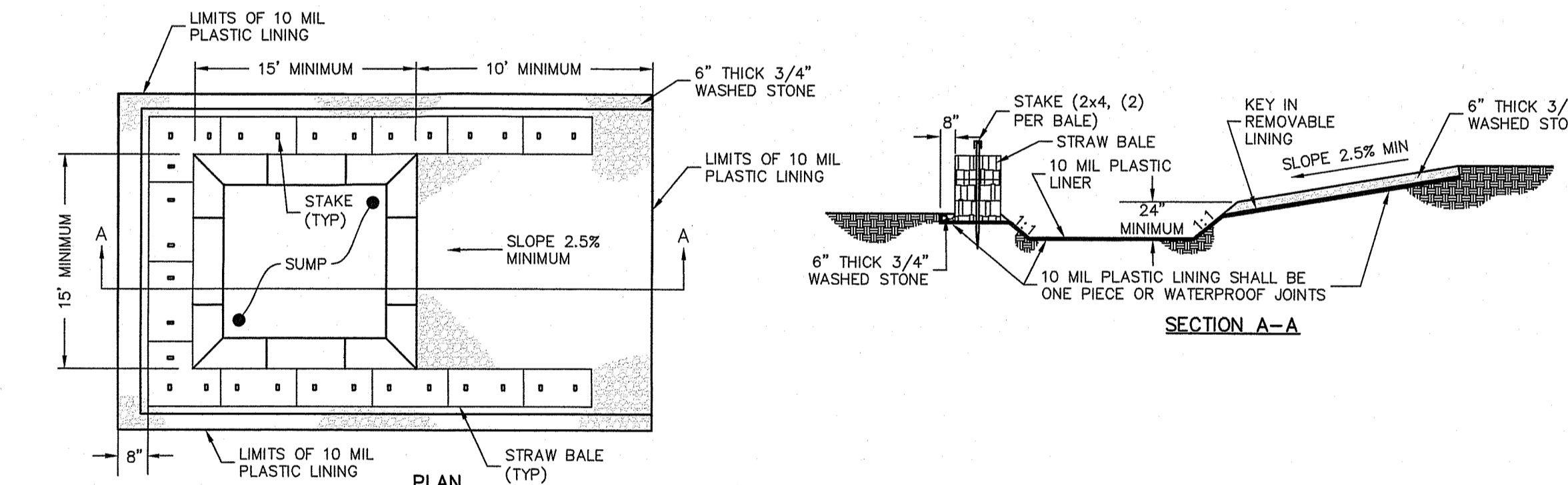
1. THE TEMPORARY SEDIMENT TRAPS SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
2. THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER EXCEPT FOR THE EXCAVATED WET STORAGE AREA WHERE SLOPES SHALL NOT EXCEED 1.5:1.
4. THE OUTLET SHALL 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.
8. SIDE SLOPES OF THE EMBANKMENT SHALL 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.

Inspection, Maintenance, and Removal Requirements:

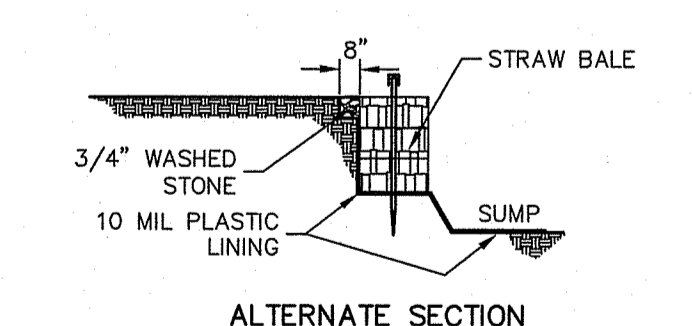
1. INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND 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.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

Temporary Sediment Trap Details

NOT TO SCALE



WASHOUT SIGN



ALTERNATE SECTION

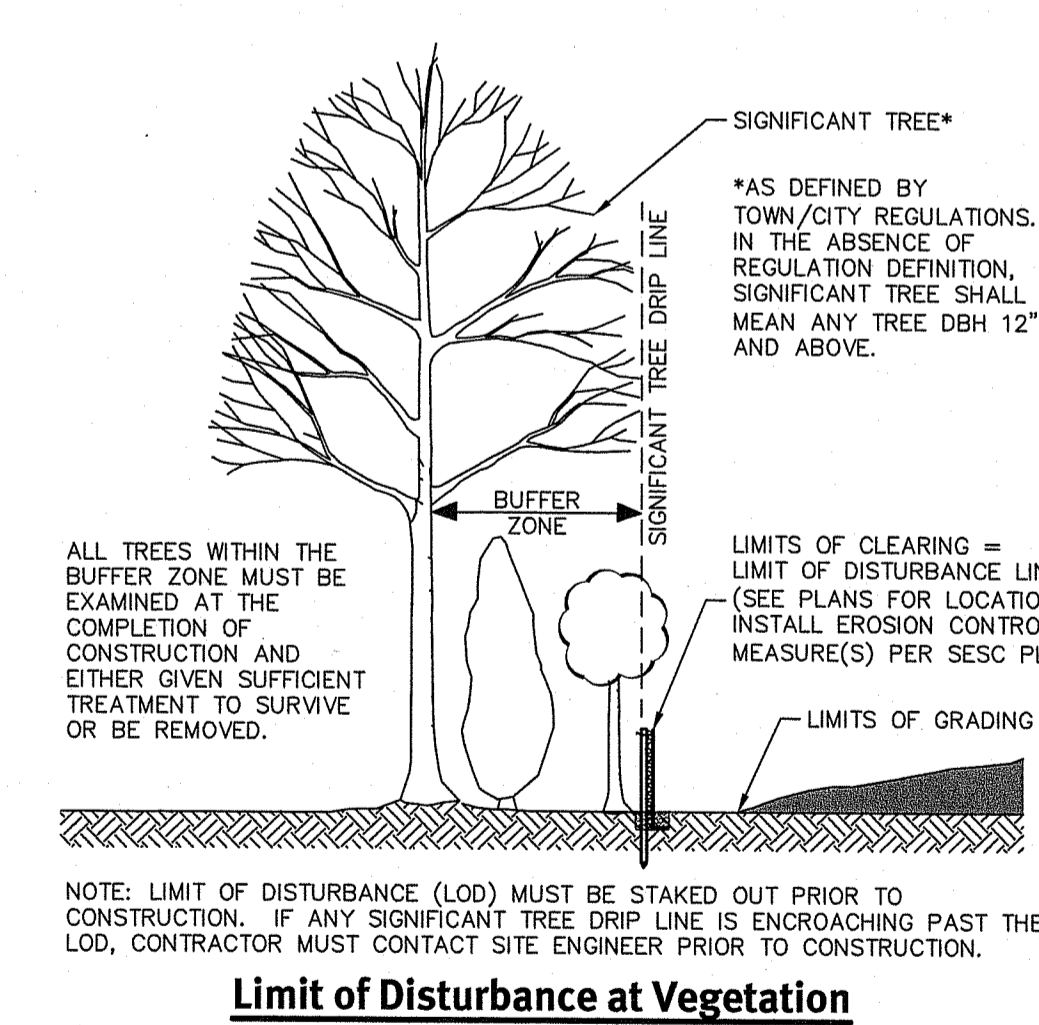
USE WHERE MORE THAN ONE ACCESSIBLE SIDE IS NEEDED

Concrete Washout Area

NOT TO SCALE

NOTES:

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



Limit of Disturbance at Vegetation

NOT TO SCALE

NOTE: LIMIT OF DISTURBANCE (LOD) MUST BE STAKED OUT PRIOR TO CONSTRUCTION. IF ANY SIGNIFICANT TREE DRIP LINE IS ENCRANCHING PAST THE LOD, CONTRACTOR MUST CONTACT SITE ENGINEER PRIOR TO CONSTRUCTION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 13 2021 FILE # 19-0322
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANNING & PERMITTING SECTION

DiPrete Engineering
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Environmental Management
SEP 20 2021
Office of Water Resources

DAVID A. RUSSO
No. 1335
REGISTERED PROFESSIONAL ENGINEER CIVIL

NOTE: ALL TEMPORARY SEDIMENT CHANNELS MUST BE FIT WITH STONE CHECK DAMS SHOWN ON THIS SHEET.

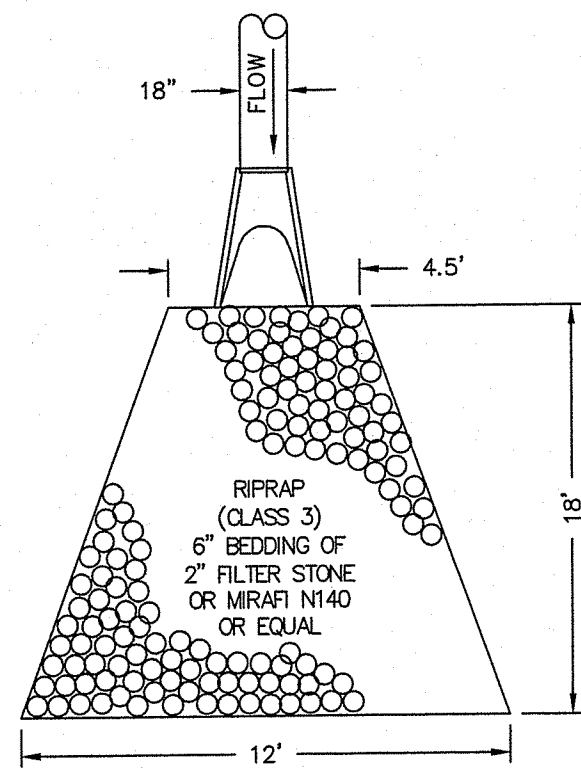
U.S. STATE	U.S. LICENSE NO.	U.S. LICENSE EXPIRES	U.S. LICENSE TYPE
RI	02925-0221	03/31/2025	M.A.H.
RI	13-03-0393	03/31/2025	M.A.H.

Design By: M.A.H.

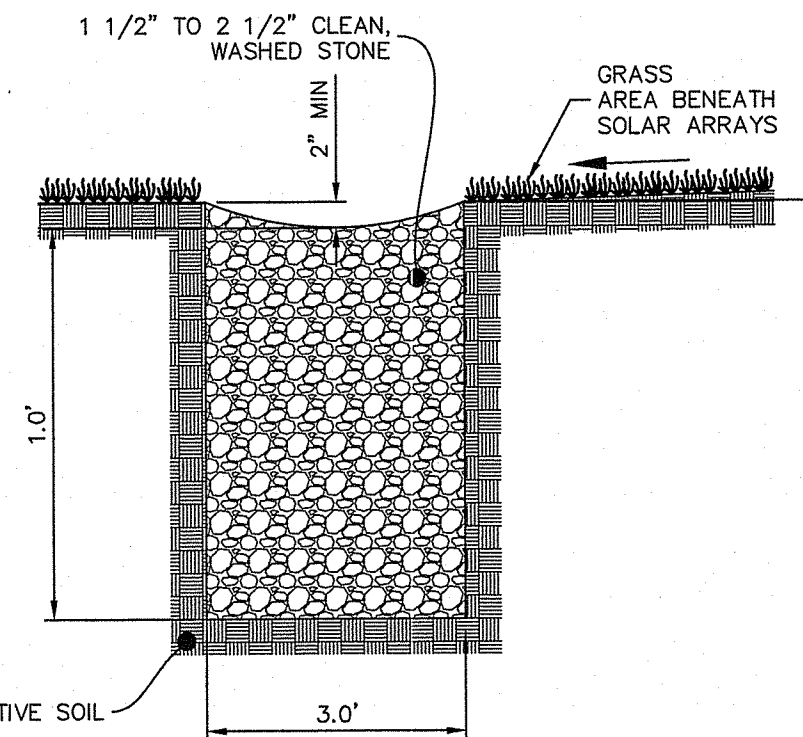
SESC Detail Sheet
Log Road Solar
Smithfield, Rhode Island
Assessors Plat 50 Lot 29
Applicant: **ISM Solar Development, LLC**
940 Waterman Ave, East Providence, RI 02914

WO TRENCH	LENGTH	WIDTH	DEPTH
B1	137'	3'	1.0'
E1	191'	3'	1.5'
E2	274'	3'	1.0'
E3	305'	3'	1.5'
F1	422'	3'	2.0'
F2	782'	3'	2.0'
G1	309'	3'	1.5'
K1	278'	4'	2.0'
K2	147'	3'	1.5'
K3	512'	3.5'	2.0'
K4	547'	3'	2.0'
L1	283'	3'	1.0'
L2	206'	4.5'	2.0'
L3	228'	3.5'	2.0'
L4	260'	3'	2.0'
M1	169'	3'	2.0'
M2	202'	4'	2.0'
N1	204'	3'	2.0'
O4	740'	4'	2.0'

FLARED END	LENGTH	WIDTH	CLASS
FES-1	18'	12'	R-3



Rip-Rap Apron / FE Detail
NOT TO SCALE

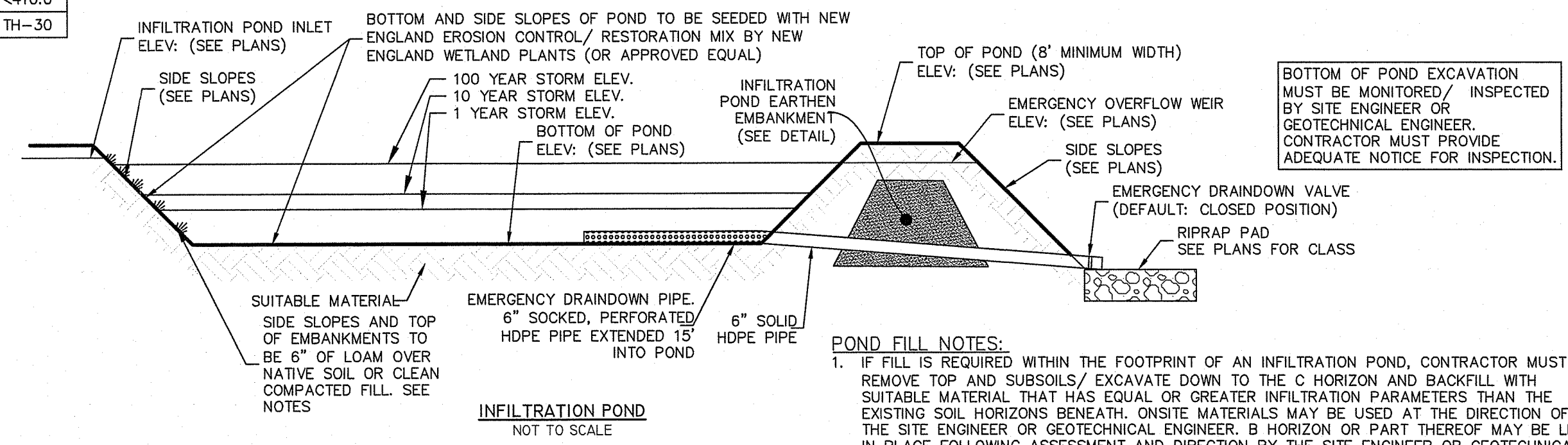


- NOTES:**
- TRENCHES TO BE INSTALLED PARALLEL TO GRADE.
 - TRENCHES ARE DESIGNED TO FACILITATE INFILTRATION AND SHEET FLOW OF STORMWATER. CONTRACTOR MUST TAKE CARE TO ENSURE THE TRENCHES ARE INSTALLED PARALLEL TO THE CONTOURS, WITH NO LOW POINTS.
 - TRENCHES TO BE INSTALLED AFTER ESTABLISHMENT OF VEGETATION OTHERWISE TRENCHES MUST BE PROTECTED FROM RECEIVING ANY RUNOFF UNTIL ALL TRIBUTARY AREAS ARE STABILIZED.
 - UNLESS LISTED IN WATER QUALITY TABLE ABOVE, TRENCH TO BE SIZED 3' WIDE X 1' DEEP. LENGTH SPECIFIED ON PLANS.

Stone Trench
NOT TO SCALE

DESCRIPTION	IP-A	IP-C	IP-D	IP-J	IP-O
TOP OF POND ELEVATION	477.00	414.50	462.50	419.00	419.00
100 YEAR STORM ELEVATION	475.96	413.43	461.48	417.82	418.00
10 YEAR STORM ELEVATION	475.34	412.96	460.71	416.72	417.49
1 YEAR STORM ELEVATION	474.50	410.22	460.14	416.03	416.72
BOTTOM OF POND ELEVATION	474.00	409.00	460.00	416.00	416.50
SEASONAL HIGH GWT ELEVATION	468.7	404.7	455.3	409.8	<410.0
SOIL EVALUATION	TH-10	TH-16	TH-6	TH-28	TH-30

- 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.



- 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.

Environmental Management
SEP 20 2021
Office of Water Resources

DAVID A. RUSSO
No. 4355
REGISTERED PROFESSIONAL ENGINEER
CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS A REGISTERED PROFESSIONAL ENGINEER'S DESIGN.
THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA VIOLATIONS INCURRED IN THE PERFORMANCE OF THIS PLAN AND DESIGN.
EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. DAMAGES INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES, SEE UTILITY MAP ON SHEET 13.

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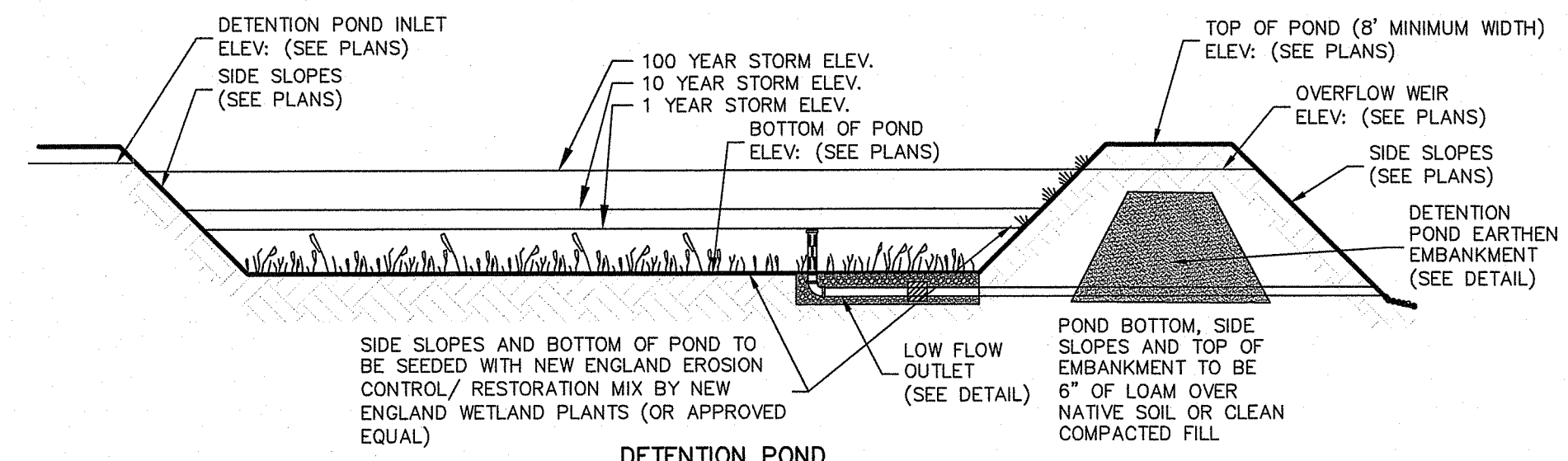
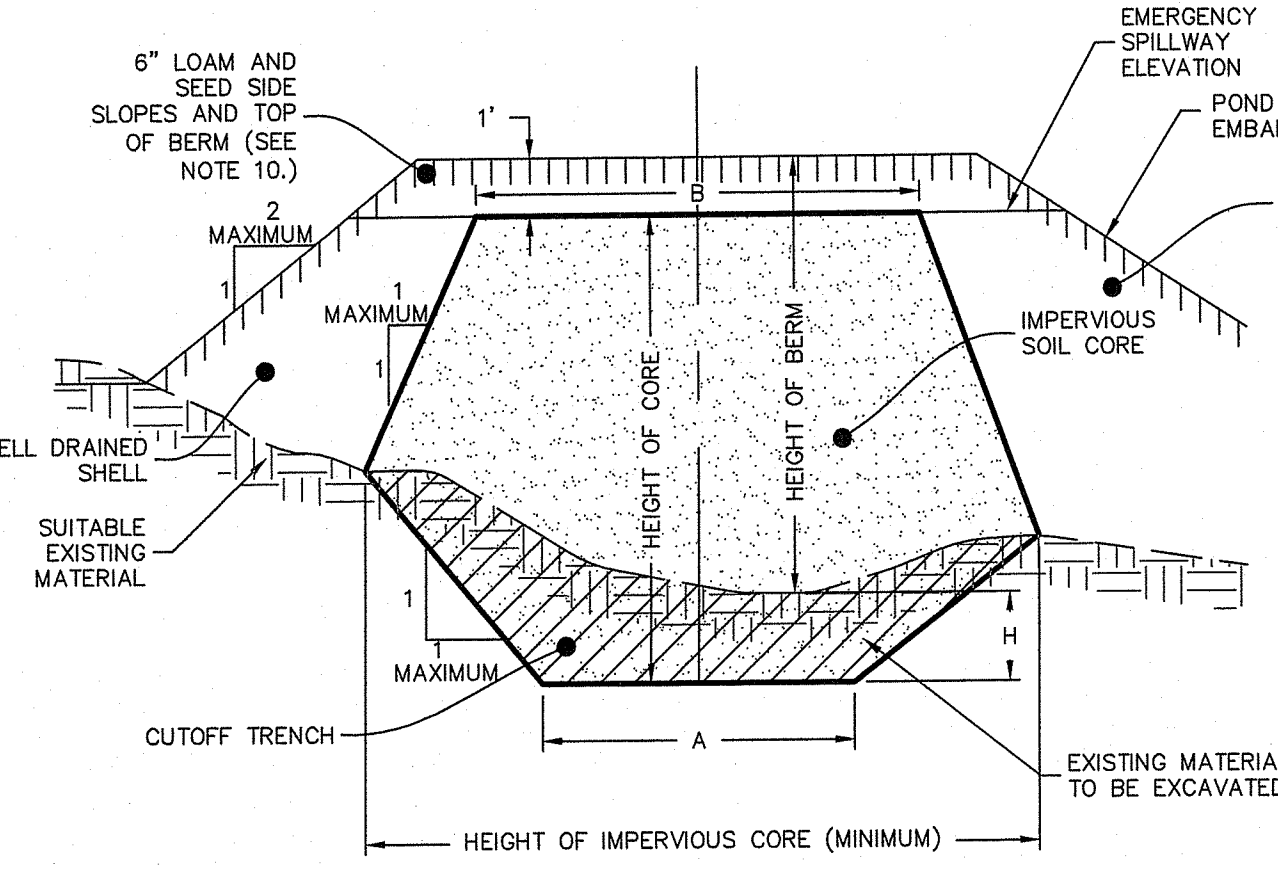
Martin D. Senack

DESCRIPTION	DP-B	DP-E	DP-F	DP-G	DP-H	DP-I	DP-K	DP-L	DP-M	DP-N
TOP OF POND ELEVATION	476.50	449.00	451.00	457.00	454.00	470.00	417.00	417.50	417.50	414.00
100 YEAR STORM ELEVATION	475.40	447.99	449.98	455.99	453.00	468.95	415.92	416.50	416.45	412.83
10 YEAR STORM ELEVATION	475.06	447.53	449.37	455.68	452.69	468.59	415.45	416.00	416.12	412.46
1 YEAR STORM ELEVATION	474.31	446.40	447.06	454.57	451.70	468.14	414.15	414.22	415.49	411.47
TOP OF POND ELEVATION	474.00	446.00	446.00	454.00	451.00	468.00	413.50	413.00	414.00	411.00
GWT/BEDROCK ELEVATION	R=471.5	R=439.0	R=445.5	<450.0	R=445.5	<466.0	R=410.0	R=406.0	R=412.5	R=401.5
SOIL EVALUATION	TH-5	TH-6	TH-7	TH-15	TH-22	TH-24	TH-27	TH-27	TH-26	TH-26

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

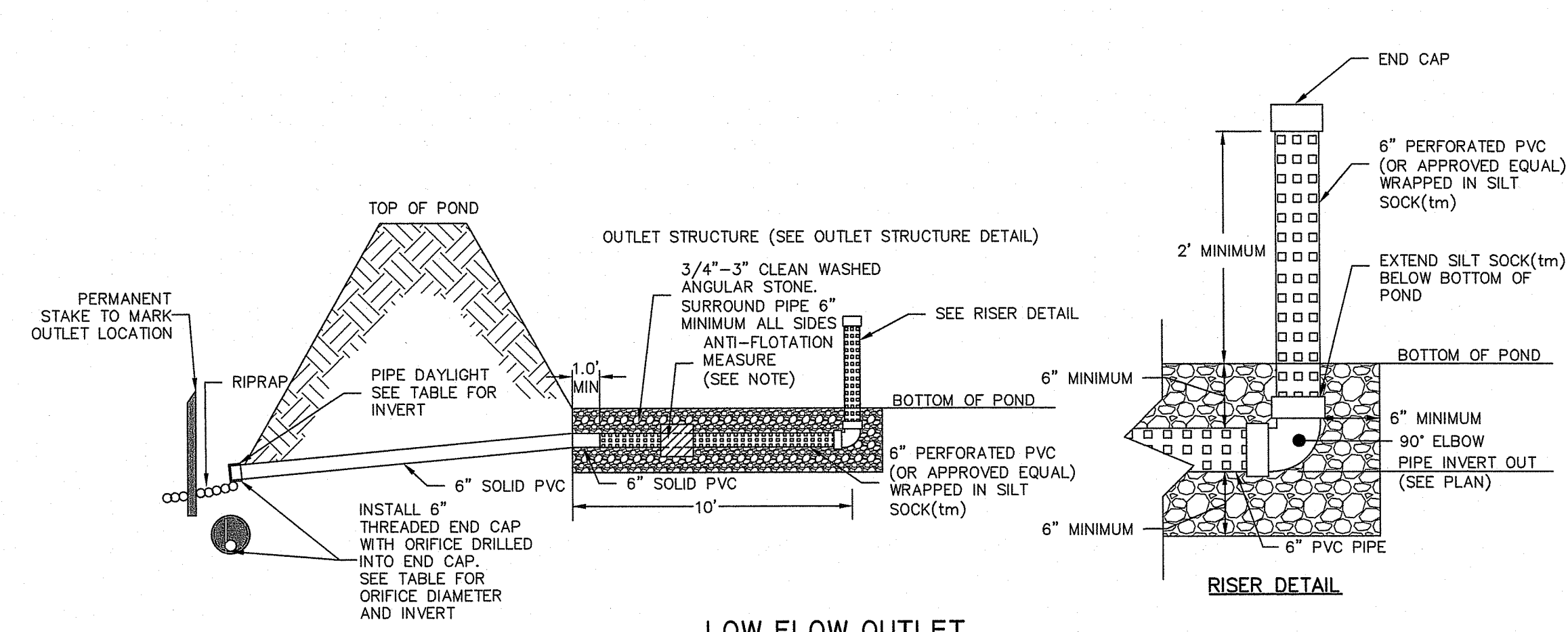
- NOTES:**
- IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS.
 - IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 55% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005 CM/S.
 - WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING 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'-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.

Pond Earthen Embankment
NOT TO SCALE

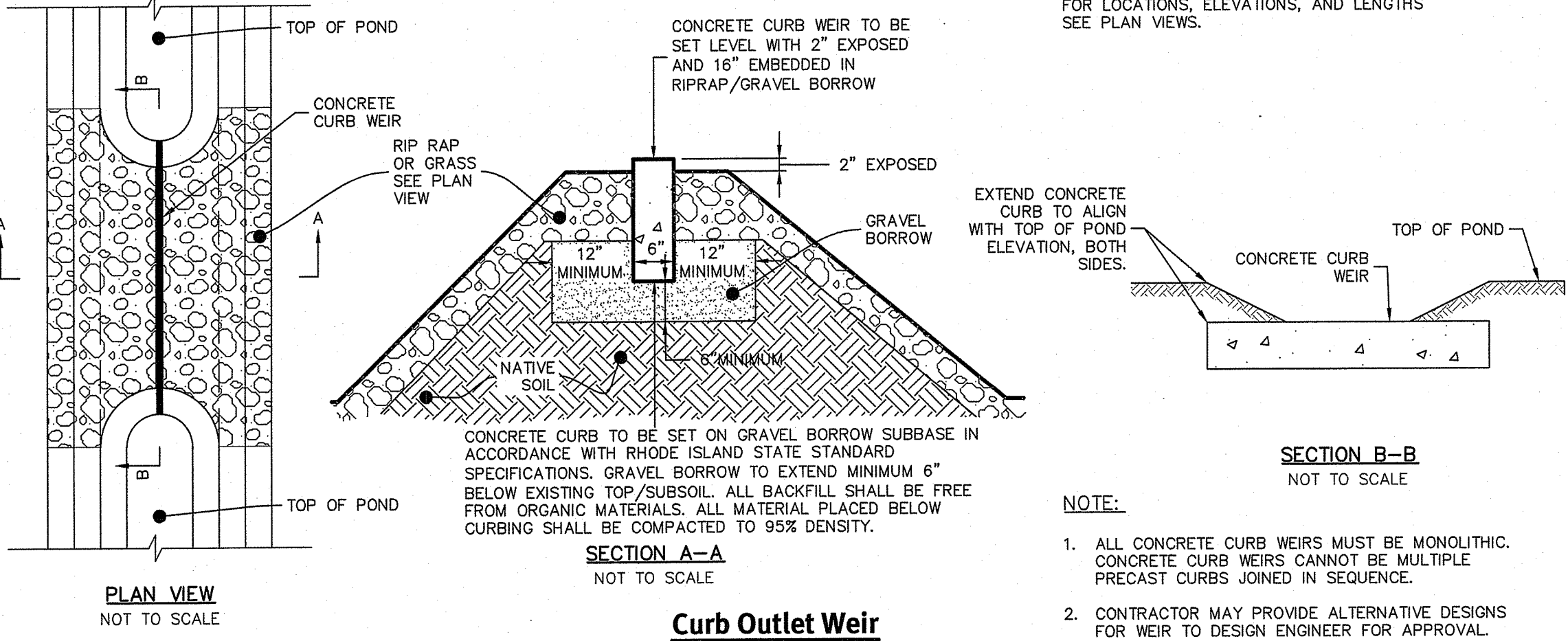


DETENTION POND
NOT TO SCALE

LOCATION	DIAMETER	INVERT
POND B	0.60"	472.50
POND E	1.25"	444.00
POND F	1.75"	444.0
POND G	1.00"	452.00
POND H	0.75"	449.00
POND I	0.75"	466.00
POND K	2.00"	412.00
POND L	1.50"	411.00
POND M	1.00"	412.50
POND N	1.00"	409.00



LOW FLOW OUTLET
NOT TO SCALE



Curb Outlet Weir
NOT TO SCALE

- NOTE:**
- ALL CONCRETE CURB WEIRS MUST BE MONOLITHIC. CONCRETE CURB WEIRS CANNOT BE MULTIPLE PRECAST CURBS JOINED IN SEQUENCE.
 - CONTRACTOR MAY PROVIDE ALTERNATIVE DESIGNS FOR WEIR TO DESIGN ENGINEER FOR APPROVAL.

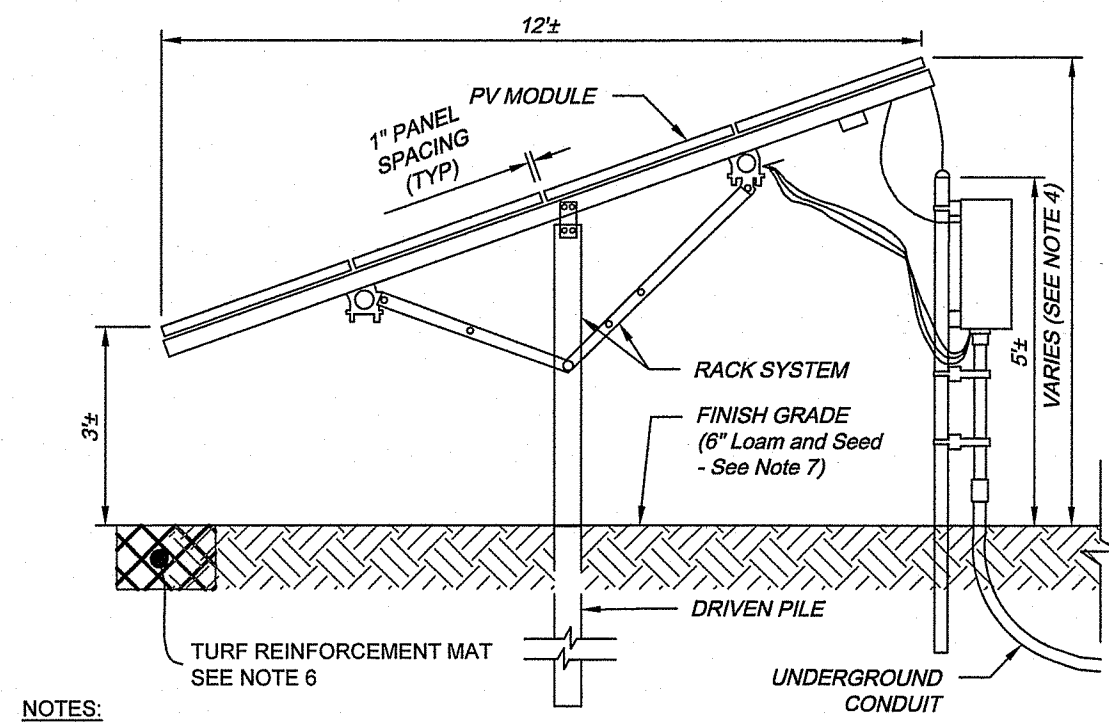
Pond Detail Sheet
Log Road Solar
Sanford, Rhode Island
Assessors Plat 50, LOT 29
Agreement
ISM Solar Development, LLC
940 Waterman Ave, East Providence, RI 02914
DE: Reg. No. 2265-002 Copyright 2021 by DiPrete Engineering Associates, Inc.

c:\mehman\projects\2305-002_log_road_solar\hatched.dwg Plotted: 09/16/2021

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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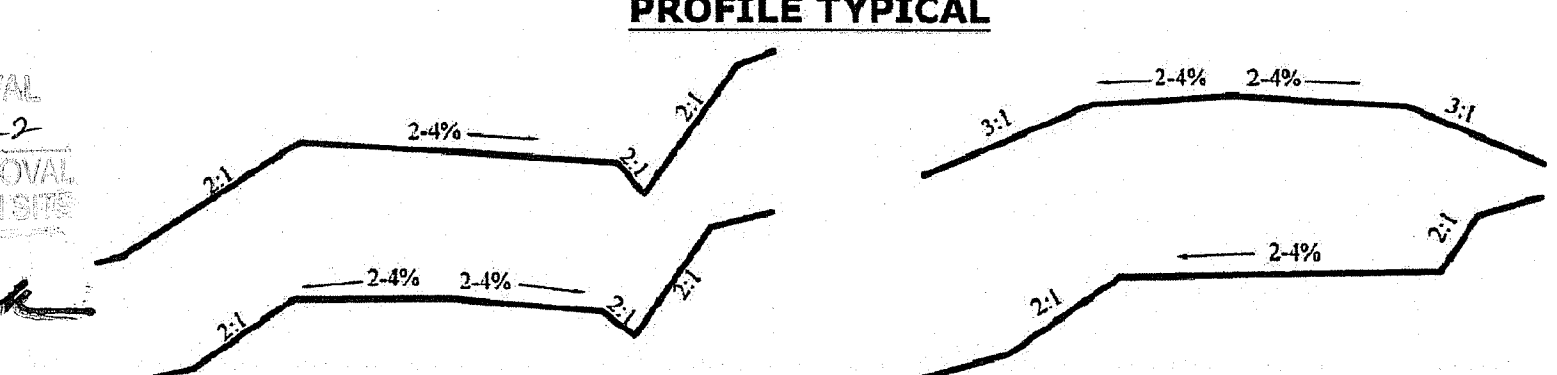
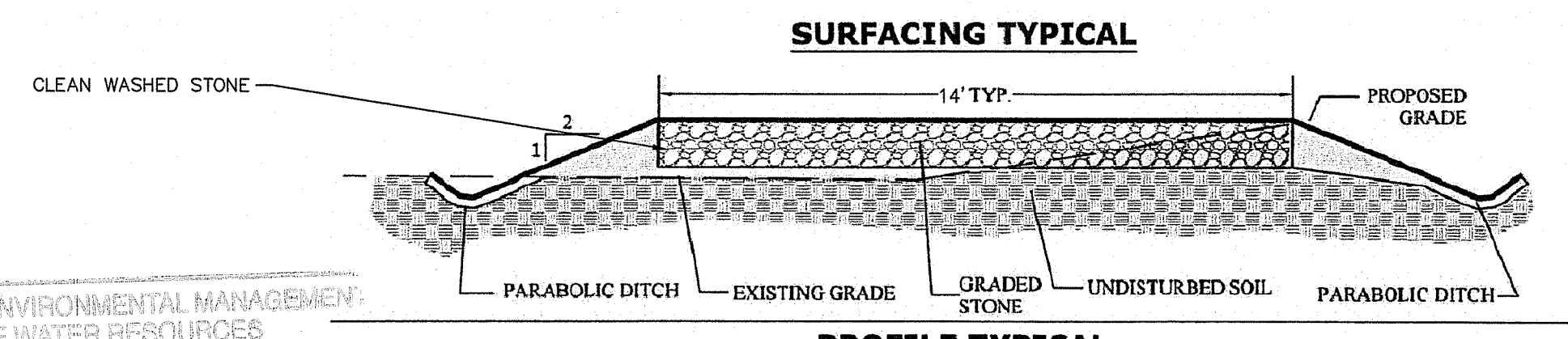
Matthew D. Senack

Environmental Management
SEP 20 2021
Office of Water Resources



- 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.

Typical Solar Panel Detail
NOT TO SCALE



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)	6' Min.	3-3 1/2	0-6%

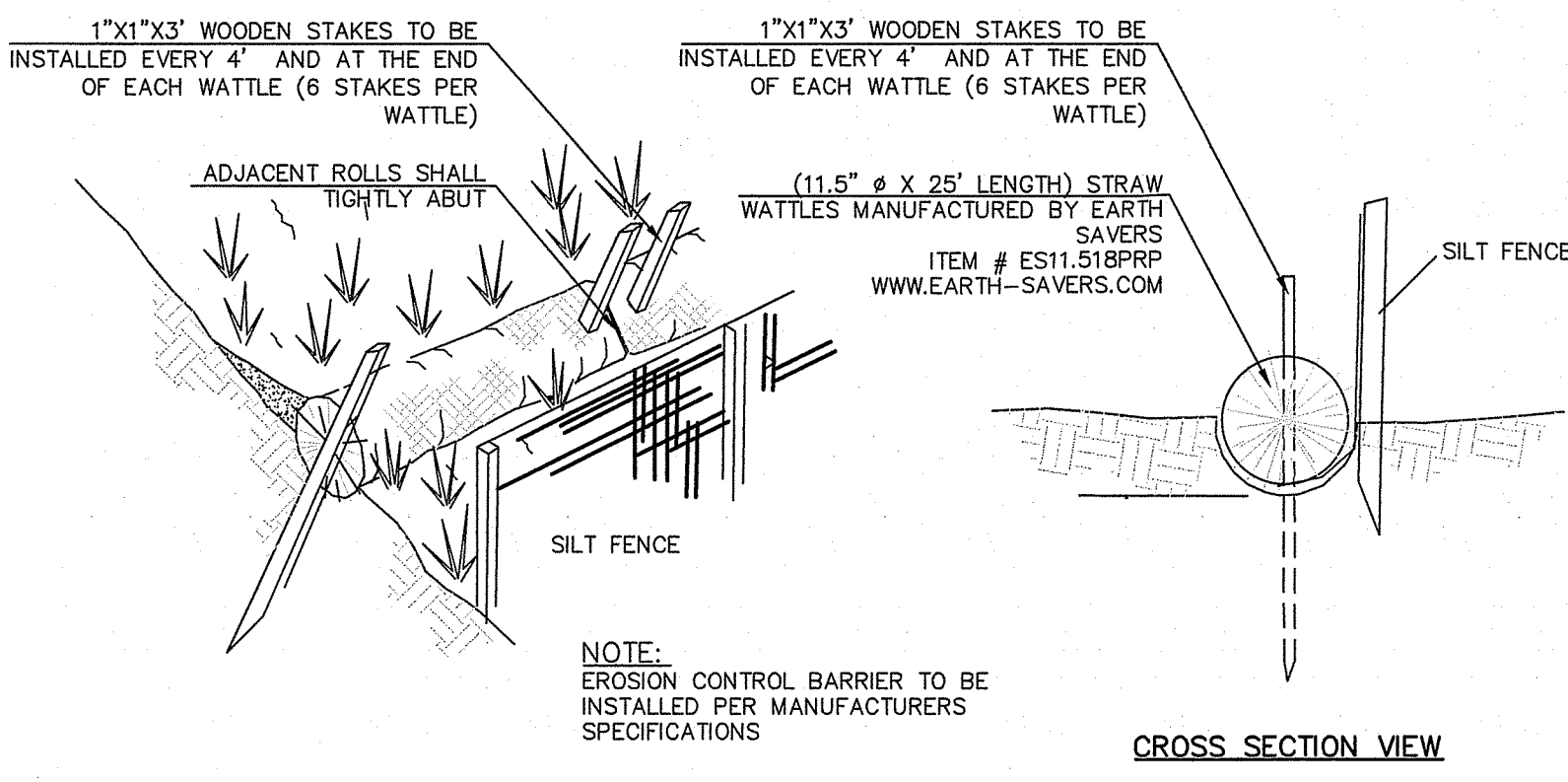
MATERIAL SPECIFICATIONS

Sieve Designation	Percentage by Mass (Weight) Passing Square Mesh Sieves
10mm (3/8 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

- SOURCES:**
- Surfacing Typical and Surfacing Specs: Derived from USDA NACCS drawing "Access Road; NE-ENG-AR1"
 - Profile Typical: Derived from USDA Forest Service Publication "Forest Road Construction and Maintenance"
 - Material Specs: Derived from VTrens 704.05 Subbase

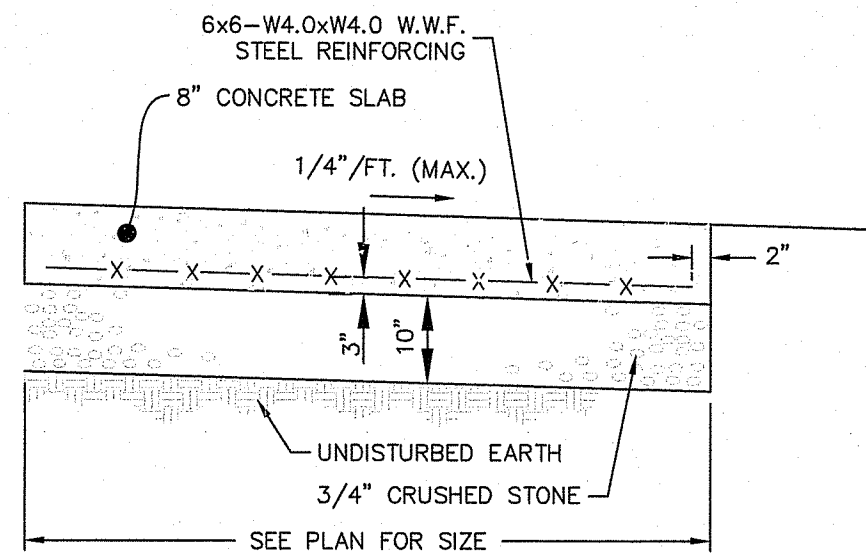
NOTE: CLEAN WASHED STONE IS REQUIRED FOR THE PERMEABLE ACCESS ROAD TO PROMOTE INFILTRATION.

Permeable Access Detail
NOT TO SCALE



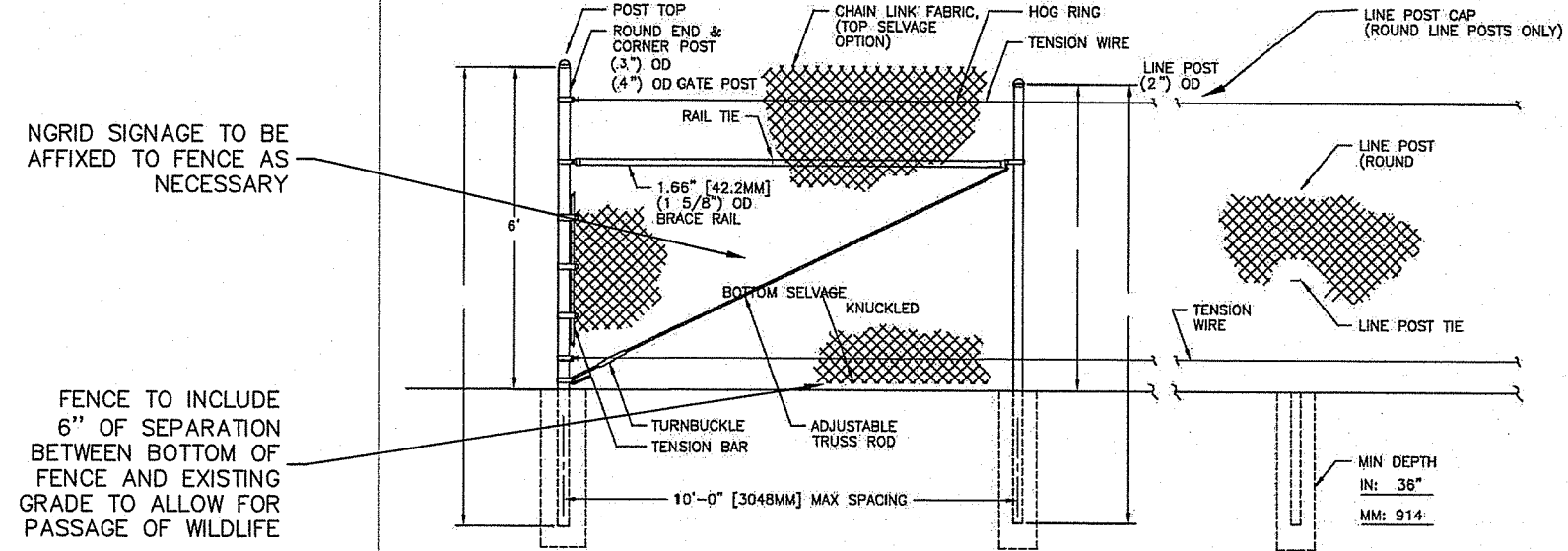
- NOTE:**
EROSION CONTROL BARRIER TO BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS

Silt Fence/Straw Wattle Sediment Barrier
NOT TO SCALE



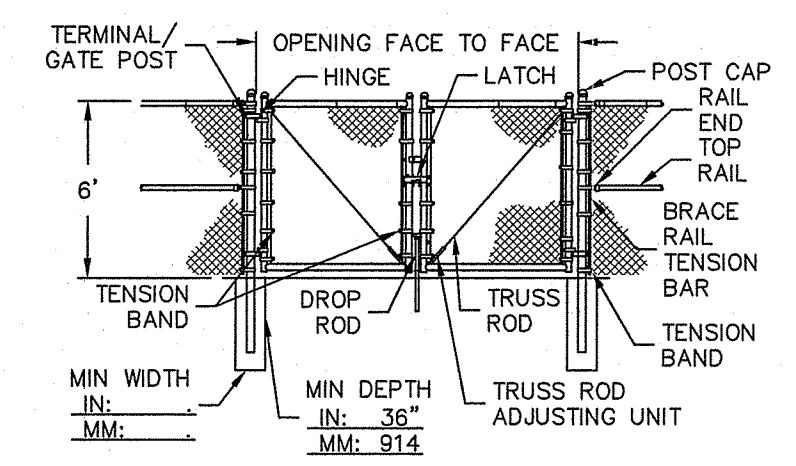
- NOTES:**
- EQUIPMENT PAD & TRANSFORMER DETAILS BY MEP OR SOLAR ENGINEER SUPERSEDE THIS DETAIL.

Typical Concrete Equipment Pad
NOT TO SCALE



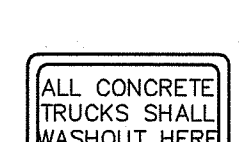
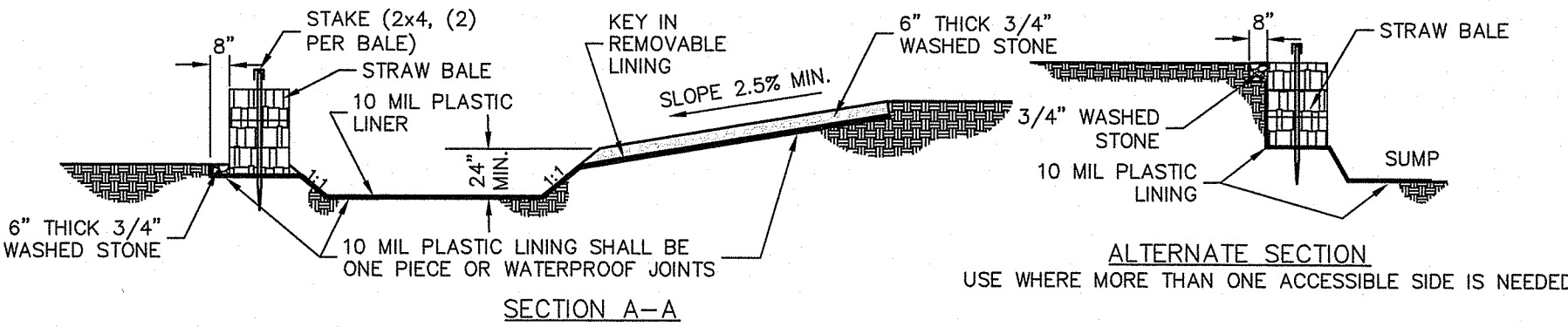
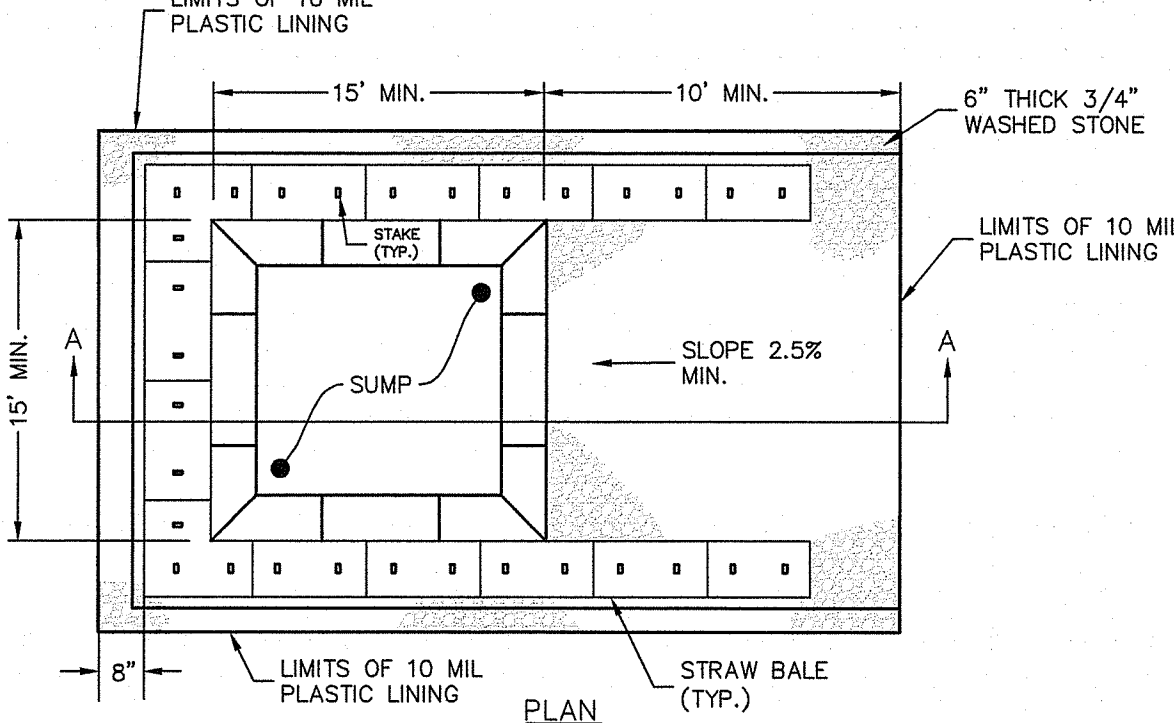
- NOTE:**
METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS

Fence Detail
NOT TO SCALE



- NOTE:**
- METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
 - SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
 - FOOTING WIDTH TO BE (4)X POST WIDTH.

Double Swing Gate 6'-16' Opening
NOT TO SCALE



Concrete Washout Area
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.
 - SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
 - CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
 - MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

Diprete Engineering
Two Stafford Court Cranston, RI 02930
tel: 401-943-1000 fax: 401-943-6006 www.diprete-eng.com

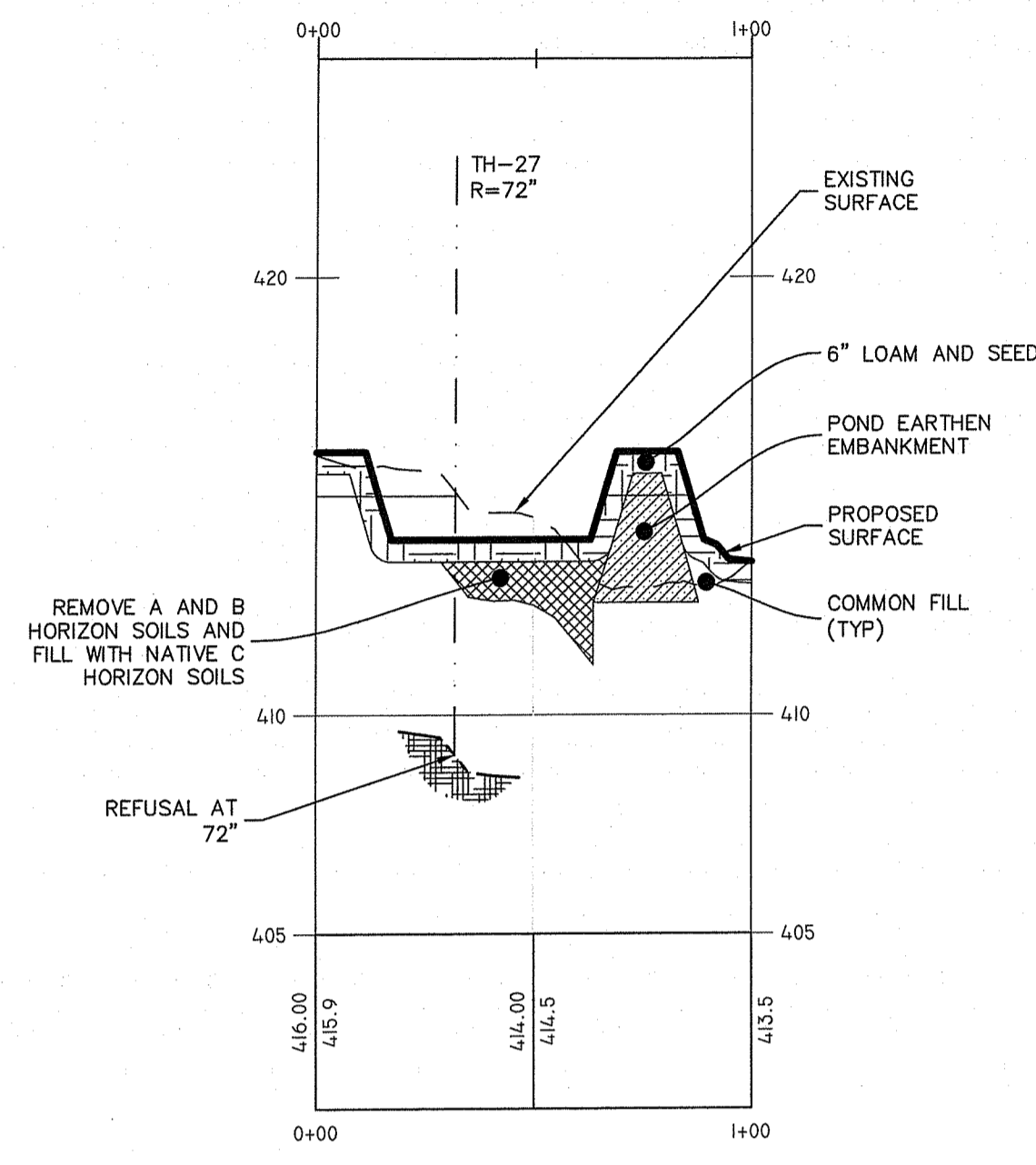
DAVID A. RUSSO
No. 14385
REGISTERED PROFESSIONAL ENGINEER
CIVIL

THIS PLAN OR SPECIFICATIONS MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS THEY ARE APPROVED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING, INC. DIPRETE ENGINEERING, INC. HAS OBTAINED PROFESSIONAL ENGINEERING TITLE BLOCK, STAMPED BY REGISTERED PROFESSIONAL ENGINEER DAVID A. RUSSO. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, TECHNIQUES, PROCEDURES, AND SAFETY PRECAUTIONS IN CONNECTION WITH THE CONSTRUCTION OF THIS PLAN AND DESIGN. EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND DAMAGES INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES, SEE UTILITY NOTE ON SHEET 2.

DATE	BY	DESCRIPTION
09-16-2021	M.A.H.	DESIGN
09-16-2021	M.A.H.	DESIGN
09-16-2021	M.A.H.	DESIGN

Drawn By: M.A.H. Design By: M.A.H.

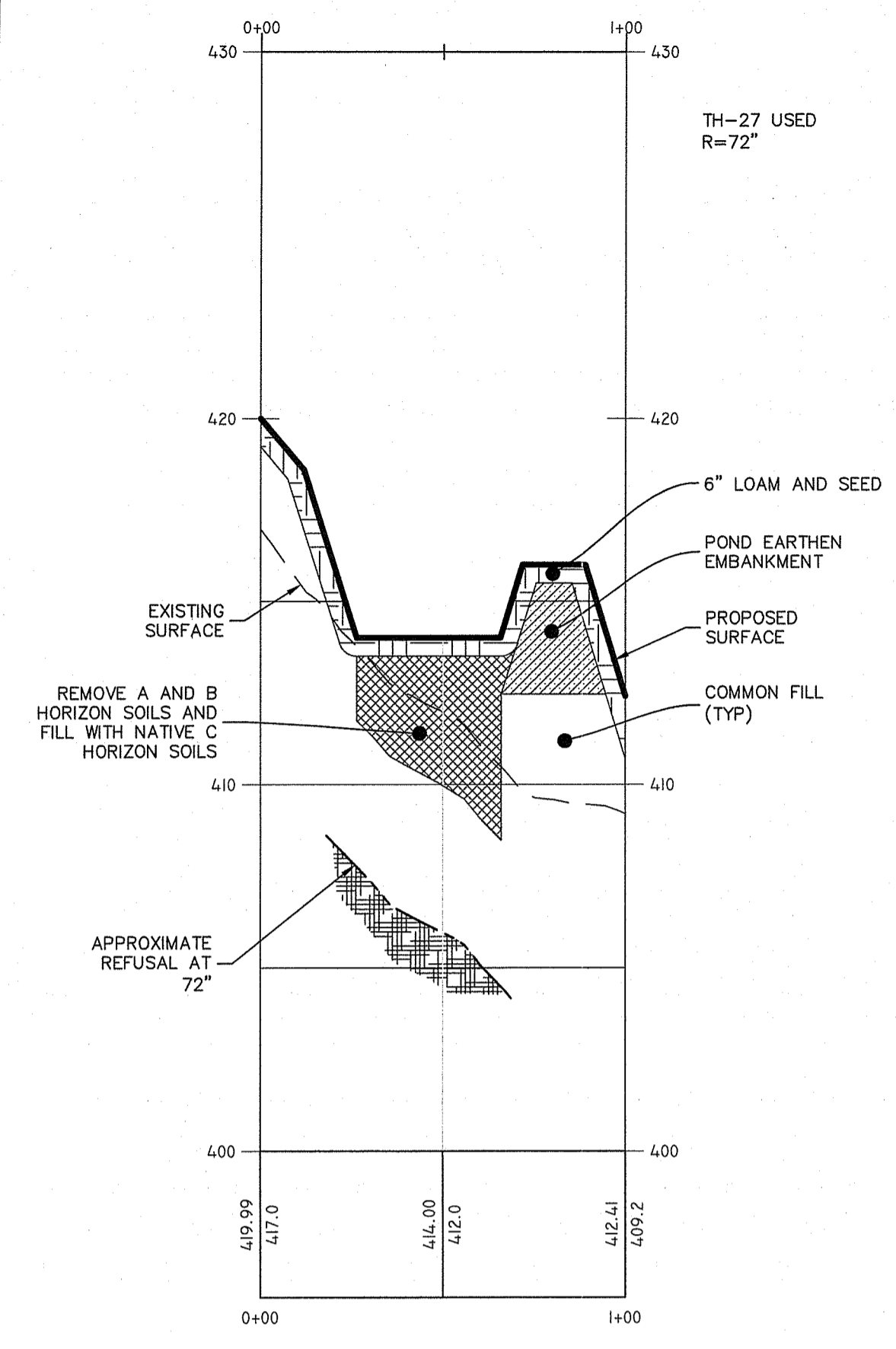
Detail Sheet
Log Road Solar
Smithfield, Rhode Island
Applicant: ISM Solar Development, LLC
Assessors Plat 50 Lot 29
940 Waterman Ave, East Providence, RI 02944
© 2021 Diprete Engineering Associates, Inc.



Sta. 0+00 To 1+00

Detention Pond K - Section K-K

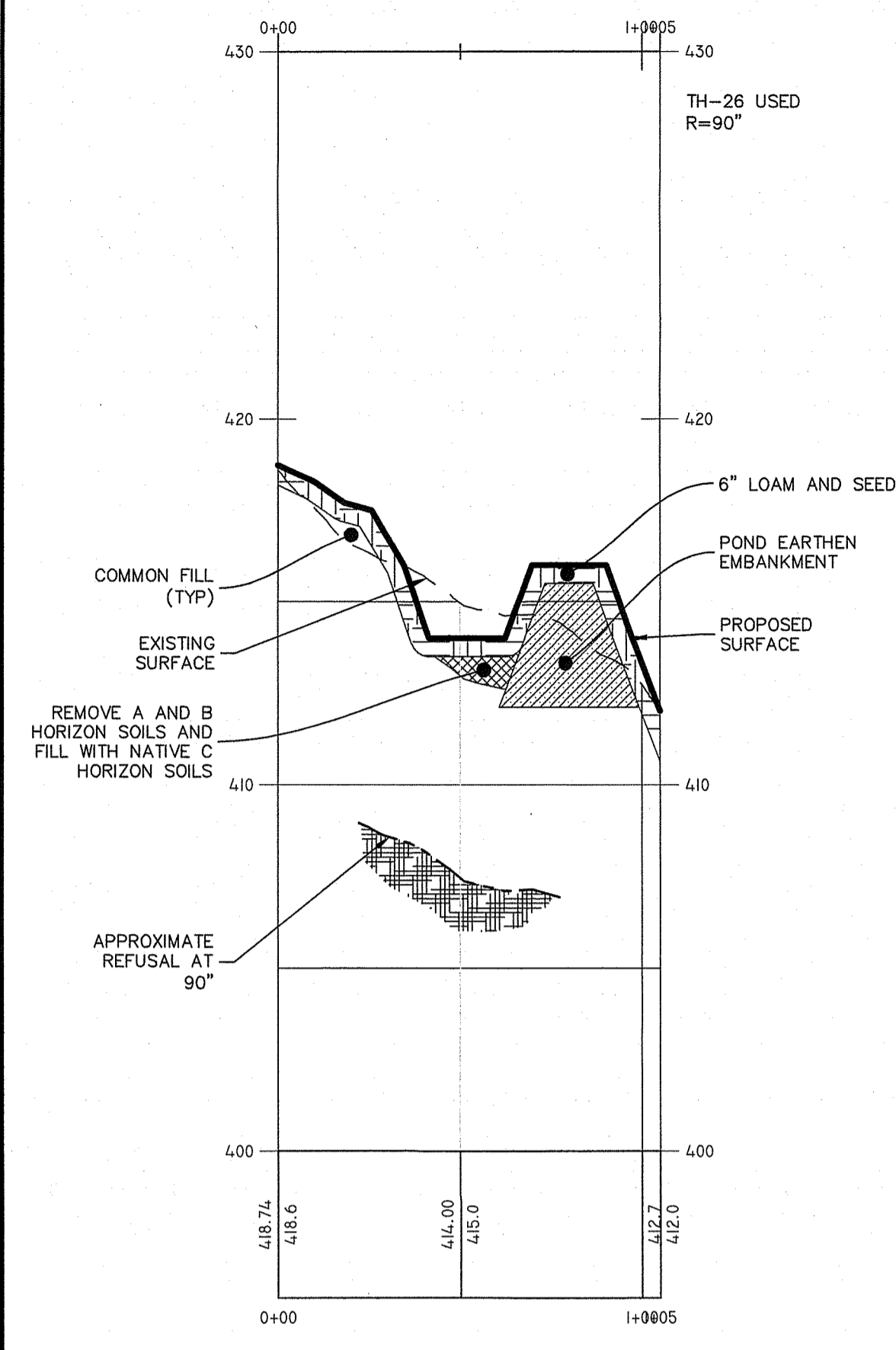
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VERTICAL SCALE: 1"=4'



Sta. 0+00 To 1+00

Detention Pond L - Section L-L

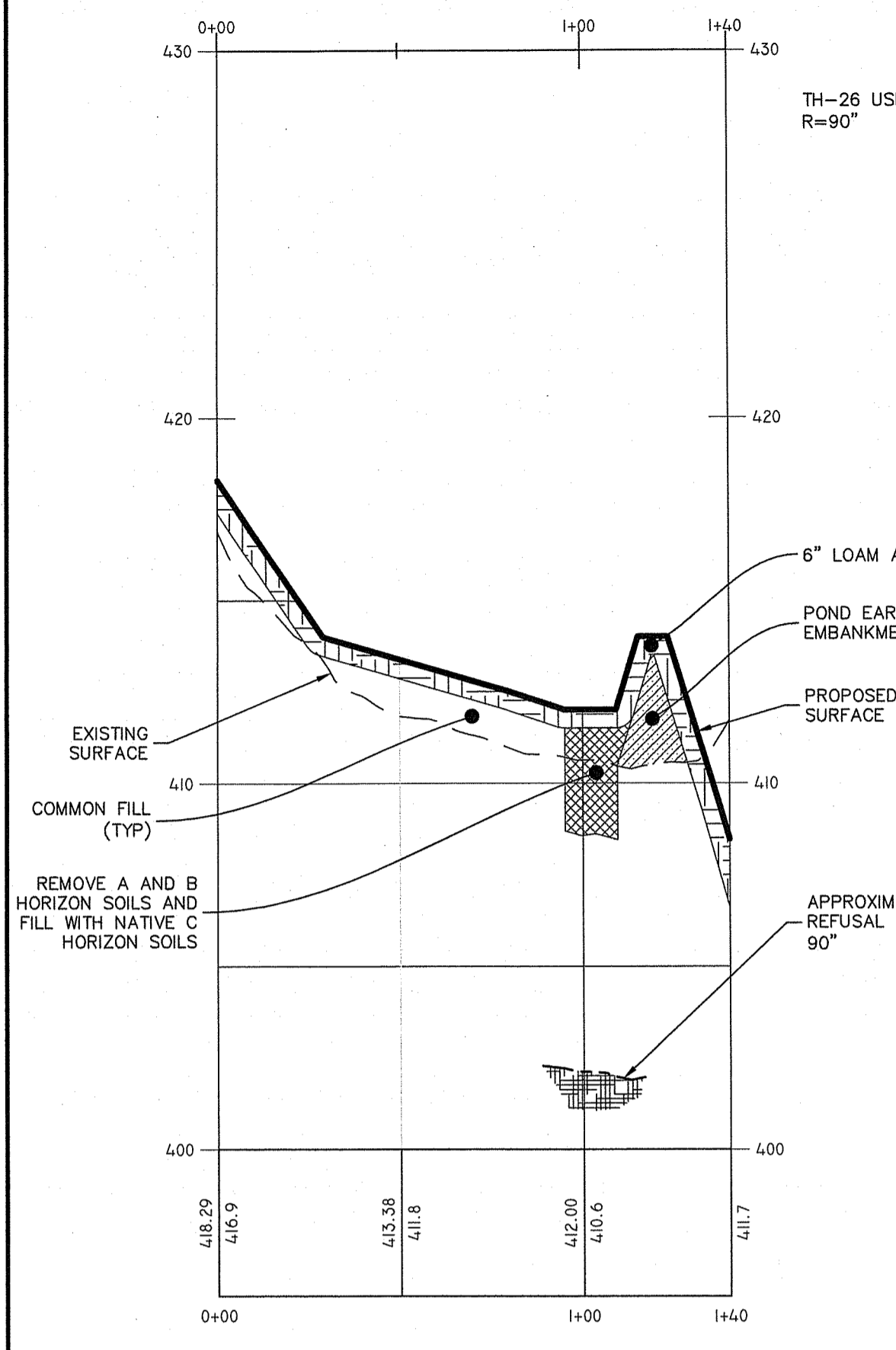
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



Sta. 0+00 To 1+00.05

Detention Pond M - Section M-M

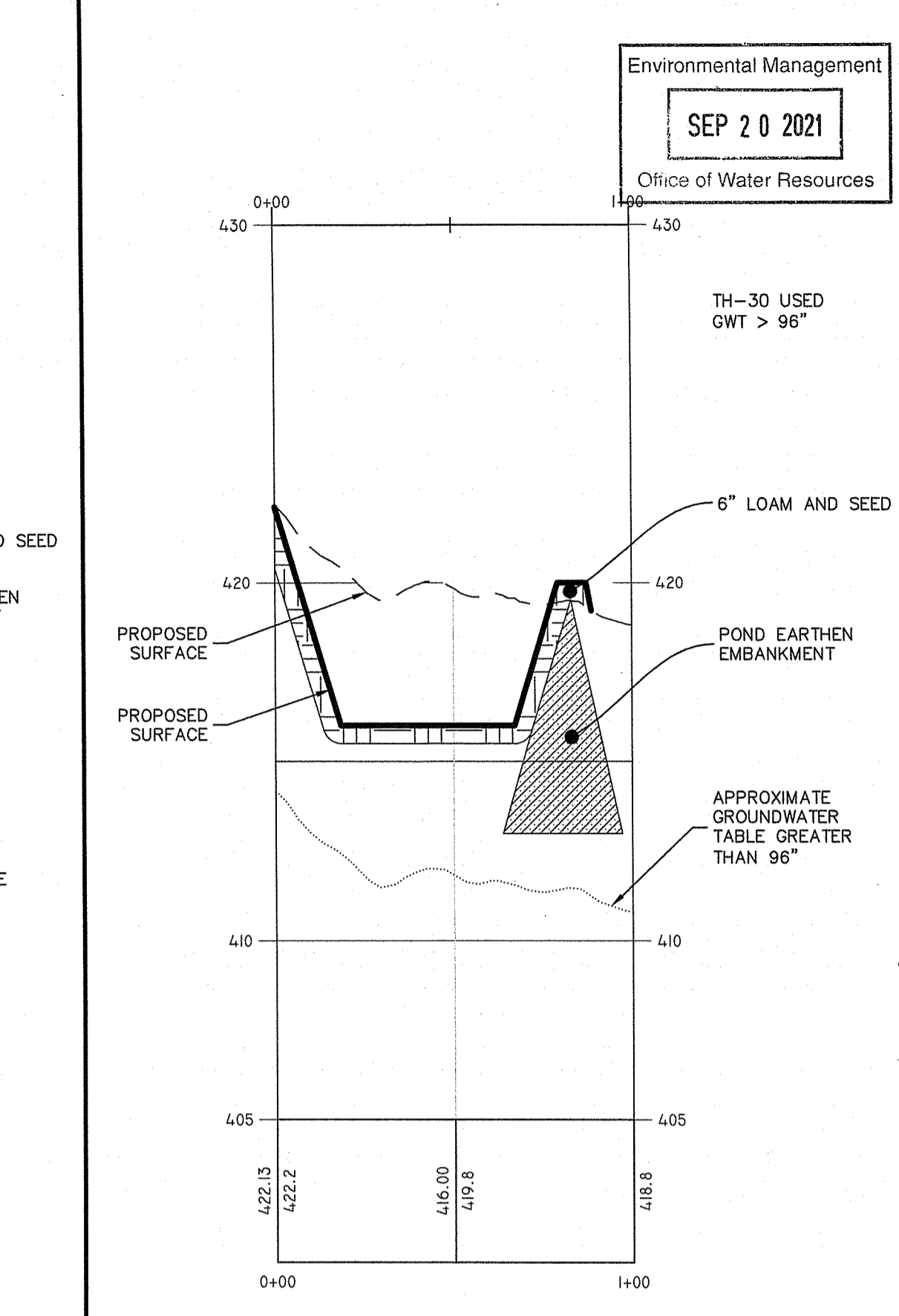
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



Sta. 0+00 To 1+00

Detention Pond N - Section N-N

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'



Sta. 0+00 To 1+00

Infiltration Pond O - Section O-O

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Senack

Pond Cross Sections-2
Log Road Solar
Smithfield, Rhode Island
Applicant
ISM Solar Development, LLC
940 Waterman Ave, East Providence, RI 02914

DAVID A. RUSSO
No. 4335
REGISTERED PROFESSIONAL ENGINEER
CIVIL

THIS PLAN WAS PREPARED BY THE ENGINEER OR ARCHITECT AND IS NOT TO BE USED FOR ANY OTHER PURPOSES UNLESS IT IS SPECIFICALLY STATED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, TECHNIQUES, PROCEDURES, AND SAFETY OF CONSTRUCTION. THE ENGINEER OR ARCHITECT DOES NOT WARRANT PLANS OR ANY OTHER PARTY'S CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.

No.	Date	Description	By
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Drawn By: M.A.H.
Design By: M.A.H.

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