

POMHAM SOLAR RIDEM PRELIMINARY DETERMINATION

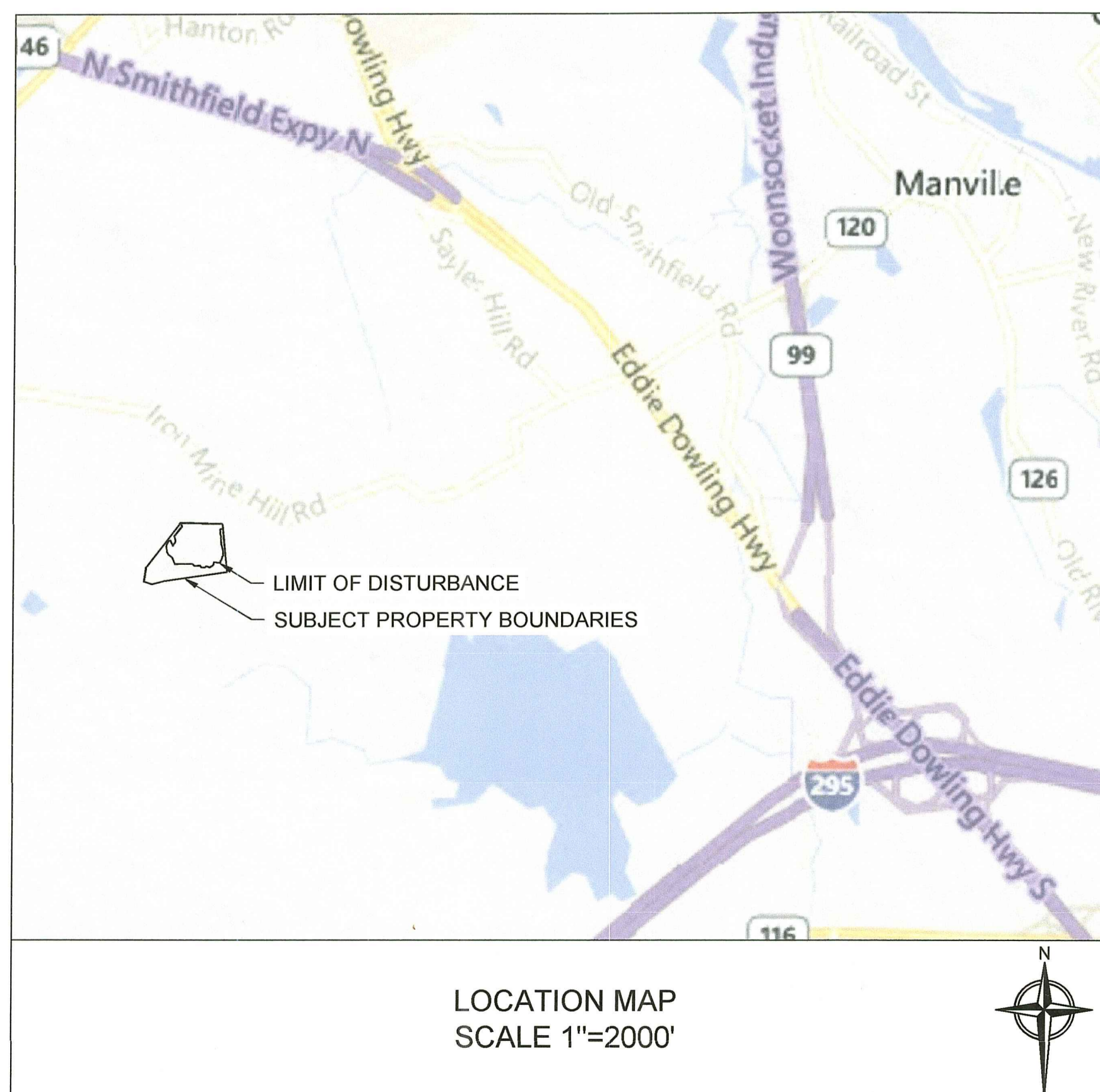
PROPERTY:
OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896
AP 16 LOT 19

PROPERTY OWNER / PREPARED FOR:
ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0029
DATED: JUL 03 2023
SEE LETTER OF SAME DATE

Andy Chapman

JANUARY 11, 2022
REVISED: FEBRUARY 21 & JUNE 2, 2023

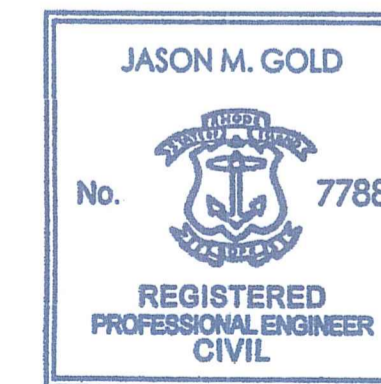


PREPARED BY:



environmental consulting
& engineering services

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
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2023.06.02
Jason Gold 12:56:31
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DRAWING INDEX

DRAWING NUMBER	Sheet Title
-	COVER
N-1	NOTES
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SO-1	SITE OVERVIEW PLAN
C-1	LAYOUT AND MATERIALS PLAN
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D-4	DETAILS
ATTACHMENTS	
"LIMITED CONTENT BOUNDARY SURVEY", DATED DECEMBER 17, 2019, NORTHEAST ENGINEERS & CONSULTANTS.	

FOR PERMITTING ONLY

STORMWATER BASIN NOTES:

- AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF PLANTABLE SOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. ALL GRADED AREAS SHALL BE NO STEEPER THAN 3:1. ALL TREES SHALL BE CLEARED AND GRUBBED WITHIN 15 FEET OF THE TOE OF THE EMBANKMENT, AND WITHIN 25 FEET OF THE PRINCIPAL SPILLWAY OUTLET. AREAS TO BE COVERED BY THE DETENTION BASIN WILL BE CLEARED OF ALL BOULDERS TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL.
- ALL WORK ON BASIN STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND DIVERSION SWALES AS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE DETENTION BASINS.
- THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTING OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER SUMPS FROM WHICH THE WATER SHALL BE PUMPED.
- ALL EXCAVATED AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING.
- THE OUTLET PIPE SHALL BE LAID IN A CONCRETE BEDDING / CRADLE FOR ITS ENTIRE LENGTH. THIS BEDDING / CRADLE SHALL CONSIST OF HIGH SLUMP CONCRETE PLACED UNDER THE PIPE AND UP THE SIDES OF THE PIPE AT LEAST 50% OF ITS OUTSIDE DIAMETER WITH A MINIMUM THICKNESS OF 6 INCHES. WHERE A CONCRETE CRADLE IS NOT NEEDED FOR STRUCTURAL REASONS, FLOWABLE FILL MAY BE USED AS DESCRIBED IN NOTE 6 BELOW. GRAVEL BEDDING IS NOT PERMITTED.
- BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE, UNLESS THERE IS A COMPACTED FILL OF 24 INCHES OR GREATER OVER THE STRUCTURE OR PIPE. STRUCTURE BACKFILL MAY BE FLOWABLE FILL MEETING THE REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATION STANDARDS. THE MIXTURE SHALL HAVE A 100-200 PSI; 28-DAY UNCONFINED COMPRESSIVE STRENGTH. THE FLOWABLE FILL SHALL HAVE A MINIMUM PH OF 4.0 AND A MINIMUM RESISTIVITY OF 2,000 OHM-CM. MATERIAL SHALL BE PLACED SUCH THAT A MINIMUM OF 6 INCHES (MEASURED PERPENDICULAR TO THE OUTSIDE OF THE PIPE) OF FLOWABLE FILL SHALL BE UNDER (BEDDING), OVER AND, ON THE SIDES OF THE PIPE. IT ONLY NEEDS TO EXTEND UP TO THE SPRING LINE FOR RIGID CONDUITS. AVERAGE SLUMP OF THE FILL SHALL BE 7 INCHES TO ASSURE FLOWABILITY OF THE MATERIAL. ADEQUATE MEASURES SHALL BE TAKEN (SAND BAGS, ETC.) TO PREVENT FLOATING THE PIPE. ANY ADJOINING SOIL FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 4 INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHALL COMPLETELY FILL ALL VOIDS ADJACENT TO THE FLOWABLE FILL ZONE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF 24 INCHES OR GREATER OVER THE STRUCTURE OR PIPE. BACKFILL MATERIAL OUTSIDE THE STRUCTURAL BACKFILL (FLOWABLE FILL) ZONE SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE CORE OF THE EMBANKMENT OR OTHER EMBANKMENT MATERIALS.
- FILL MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE. MATERIALS USED IN THE OUTER SHELL OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT.
- PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8-INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
- COMPACTION - THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF HEAVY EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIERED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE. YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT. WHEN REQUIRED BY THE APPROVING AGENCY THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99 (STANDARD PROCTOR).
- ANTI-SEEP COLLARS AND THEIR CONNECTIONS TO THE PIPE SHALL BE WATERTIGHT AND MADE OF MATERIAL COMPATIBLE WITH THE PIPE. ANTI-SEEP COLLARS SHALL BE PLACED A MINIMUM OF TWO FEET FROM PIPE JOINTS EXCEPT WHERE FLANGED JOINTS ARE USED.








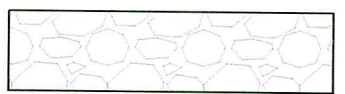
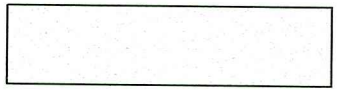

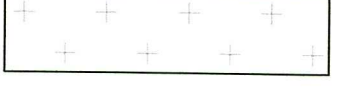
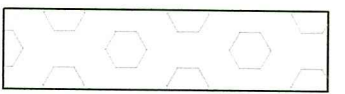

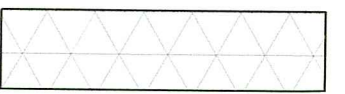
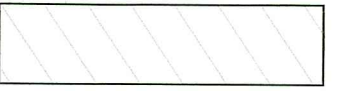
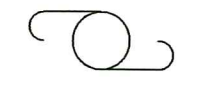


UTILITIES NOTES:

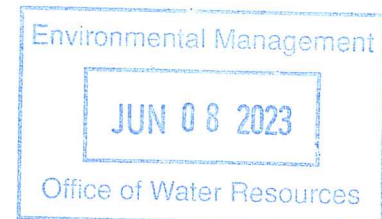
- THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, IN WRITING, A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION WITHIN 15 FEET OF A UTILITY LINE.
- EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DIGSAFE, NOTIFY ALL NON-MEMBER UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
- IF REQUIRED, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING NEAR AND BACKFILLING IN THE VICINITY OF EXISTING UTILITIES, INCLUDING THE USE OF HAND EXCAVATION WHERE APPROPRIATE.

DOCUMENT USE:

- THESE PLANS AND THE CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE PREPARED BY ESS GROUP, INC., AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED WRITTEN CONSENT OF ESS GROUP, INC. ANY UNAUTHORIZED USE, REUSE, MODIFICATION, OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT, SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO ESS GROUP, INC.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, OR DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS OR OWNER, BUT SHALL VERIFY LOCATIONS OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS, AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

PROPOSED LEGEND

	OHW	OVERHEAD WIRES
	UGE	UNDERGROUND ELECTRIC
		CHAIN LINK FENCE
	LOD	LIMITS OF DISTURBANCE
	SF	FILTER SOCK & SILT FENCE
	FS	FILTER SOCK
		LIMITS OF SHADE TREE CLEARING
		RIPRAP / GRAVEL ROAD
		SANDFILTER
		FOREBAY
		ERNST NATIVE/NATURALIZED SOLAR FARM SEED MIX (ERNMX-186-1) OR APPROVED EQUAL
		SHADE TREE CLEARING LIMITS. SEED DISTURBED GROUND WITH NEW ENGLAND WETLAND PLANTS, INC. (NEWP) EROSION CONTROL / RESTORATION MIX FOR DRY SITES OR EQUAL
		SEED DISTURBED GROUND WITH NEW ENGLAND WETLAND PLANTS, INC. (NEWP) EROSION CONTROL / RESTORATION MIX FOR DRY SITES OR APPROVED EQUAL
		NEW ENGLAND WETLAND PLANTS, INC. (NEWP) RESTORATION MIX FOR DETENTION BASINS OR APPROVED EQUAL
		MAINTAIN EXISTING VEGETATION
		UTILITY POLE (CUSTOMER OWNED)
		UTILITY POLE (UTILITY OWNED)
	TP	APPROX. TEST PIT LOCATION



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 OFFICE OF WATER RESOURCES
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 AP 16 LOT 19
 OFF IRON MINE HILL ROAD
 NORTH SMITHFIELD, RI 02896

JASON M. GOLD
 No. 7788
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

2	RESPONSE TO RIDEM TECHNICAL COMMENTS	6/2/2023	GJR	JMG	JMG
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	2/21/2023	GJR	JMG	JMG
No.	REVISION	DATE	DRAWN	DESIGN	CHK
DRAWN BY: GJR DESIGNED BY: JMG CHECKED BY: JMG					

RIDEM PRELIMINARY DETERMINATION NOTES
FOR PERMITTING ONLY

DRAWING NO:
N-2
 PROJECT NO: P22-001
 DATE OF ISSUE: 11/12/2022
 SHEET NO: 3 OF 15

DATE: JUN 02 2023 11:11 AM
 DRAWN BY: GJR
 DESIGNED BY: JMG
 CHECKED BY: JMG
 PROJECT: 22-0029
 SHEET: 3 OF 15
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NOTES:

- FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTION AND DISTRIBUTION WITHIN THE ARRAY SHALL BE UNDERGROUND. ALL UNDERGROUND ELECTRICAL NOT SHOWN ON THIS PLAN SET.
- FINAL NUMBER AND LOCATION OF SOLAR MODULES TO BE DESIGNED BY OTHERS. PRIOR TO INSTALLATION, FINAL NUMBER AND LOCATION MAY VARY AS NEEDED WITHIN PROPOSED FENCE LINE. MAX PANEL HEIGHT SHALL NOT EXCEED 15 FEET.
- SIGNAGE INDICATING MANUFACTURER'S IDENTIFICATION, INSTALLER'S IDENTIFICATION, EQUIPMENT INFORMATION, INDICATION OF OWNERSHIP, AND APPROPRIATE WARNING STATEMENTS SHALL BE POSTED ON OR NEAR THE SOLAR MODULES IN A CLEAR VISIBLE MANNER AND SHALL COMPLY WITH PREVAILING REGULATIONS.
- WARNING/DANGER SIGNAGE TO BE INSTALLED AT 300 FT INTERVALS ON PERIMETER FENCE AND NO TRESPASSING SIGN TO BE INSTALLED AT 100 FT INTERVALS, WITH A MINIMUM OF ONE (1) SIGN EACH FENCE SIDE AROUND THE FULL INSTALLATION PERIMETER.
- POST SIGNAGE WITH 24-HOUR EMERGENCY CONTACT INFORMATION ON THE VEHICLE GATE.
- EXTERIOR LIGHTING IS NOT PROPOSED.

LIMITS OF DISTURBANCE
12.5± AC

7-FT CHAIN LINK FENCE
6.0± AC

12 FT WIDE GATE AT 8 FT WIDE TRAIL FOR BMP ACCESS

GRAVEL TRAIL FOR MAINTENANCE ACCESS TO BASIN 3

SOLAR ARRAY
5.5± ACRES
2.8± MW DC
5,252± MODULES



NATIONAL GRID UTILITY POLE (TYP.)

CUSTOMER OWNED UTILITY POLE (TYP.)

EQUIPMENT PAD

20 FT WIDE GRAVEL ROAD

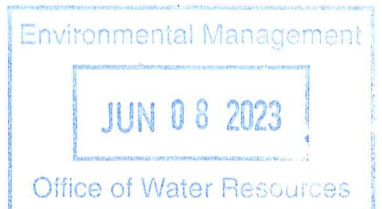
24 FT WIDE GATE

MAINTAIN EXISTING VEGETATION

ERNST NATIVE/NATURALIZED SOLAR FARM SEED MIX (ERNMX-186-1) (OR APPROVED EQUAL).

SELECTIVELY CUT SHADE TREES. STUMPS AND UNDERGROWTH TO REMAIN. STABILIZE DISTURBED AREAS WITH NEW ENGLAND WETLAND PLANTS, INC. EROSION CONTROL / RESTORATION MIX FOR DRY SITES (OR APPROVED EQUAL).

NEW ENGLAND WETLAND PLANTS, INC. RESTORATION MIX FOR DETENTION BASINS (OR APPROVED EQUAL).



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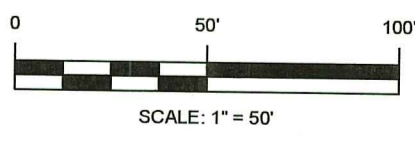
Andy Chapman



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Jason Gold
6/2/23

No.	REVISION	DATE	DRAWN	DESIGN	CHK.
2	RESPONSE TO RIDEM TECHNICAL COMMENTS	6/2/2023	GJR	JMG	JMG
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	2/21/2023	GJR	JMG	JMG

RIDEM PRELIMINARY DETERMINATION LAYOUT AND MATERIALS PLAN

FOR PERMITTING ONLY

DRAWING NO:

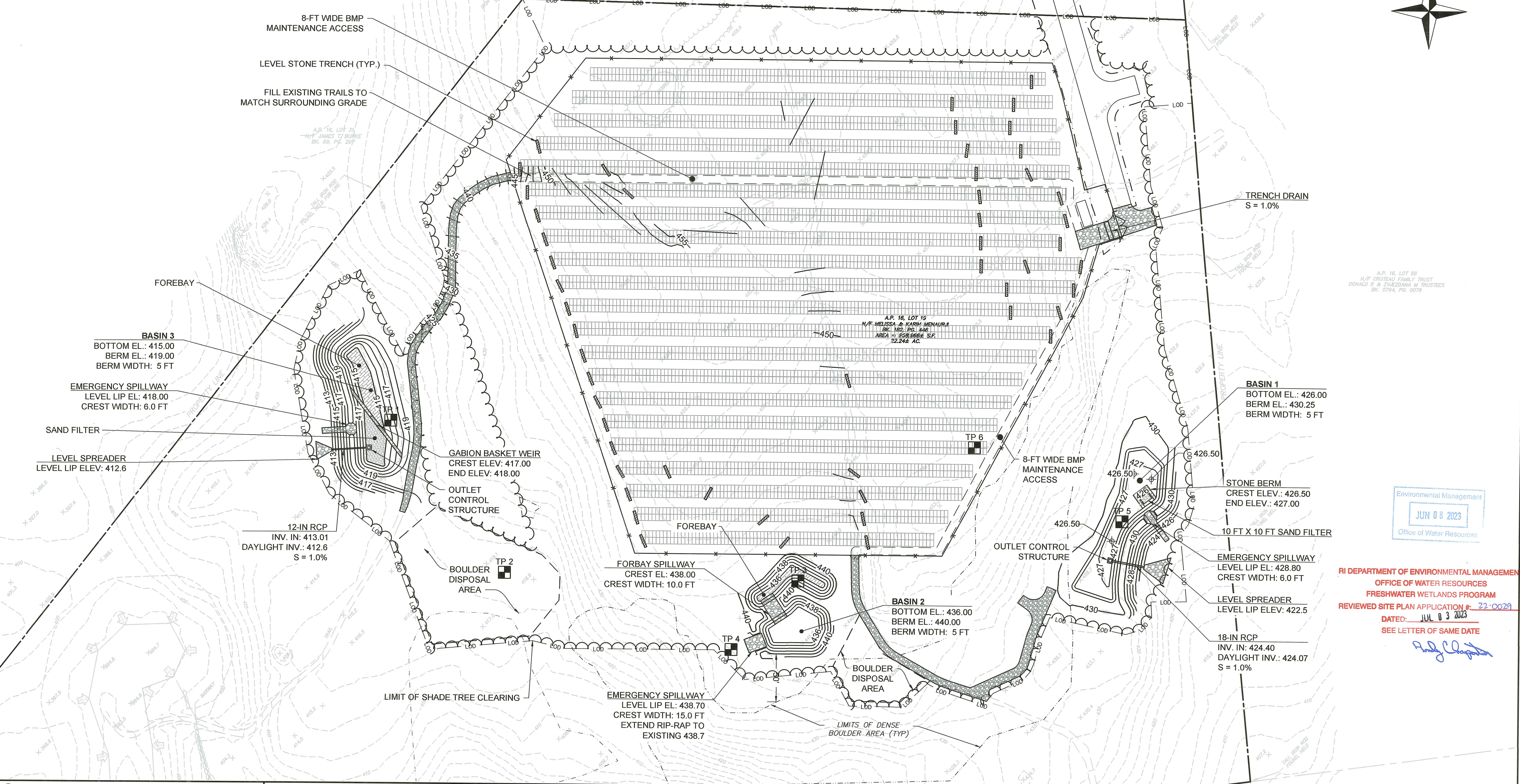
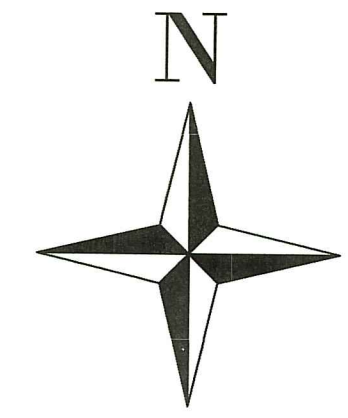
C-1

PROJECT NO: P322-001
DATE OF ISSUE: 1/11/2022
SHEET NO: 5 OF 15

DATE: JUN 02 2023 - 11:24AM
FILENAME: C:\Workshop\2022\22-0029-000\Islander (Pomham) Solar - Design and Permitting\04_08\AP16\03\22-0029-001_Pomham Solar_P3.dwg
Author: (Pomham) Solar - Design and Permitting
Plot: P3.dwg
Plot Date: 6/2/2023 11:24:00 AM
Plot Scale: 1" = 50'

NOTES:

1. RELOCATED BOULDERS SHALL BE PLACED WITHIN DESIGNATED BOULDER DISPOSAL AREAS OR OTHER AREAS WITHIN THE LOD PRE-APPROVED BY THE ENGINEER OR OWNER IN A STABLE MANNER THAT DOES NOT RESULT IN CONCENTRATED OR DIVERTED STORMWATER FLOW.
2. A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL VERIFY THAT THE GRADING OF THE BOTTOM OF BASIN 1 SLOPES TOWARD THE SAND FILTER AS DESIGNED PRIOR TO FINAL STABILIZATION.



A.P. 16, LOT 58
N/F CROTEAU FAMILY TRUST
DONALD R. & ZUZEDANA M. TRUSTEES
BK. 0794, PG. 0078

Environmental Management
JUN 08 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Scale: 1" = 50'
Jason Gold
6/2/23

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1	RESPONSE TO RIDEM TECHNICAL COMMENTS	2/21/2023	GJR	JMG	JMG
No.	REVISION	DATE	DRAWN	DESIGN	CHK
DRAWN BY: GJR			DESIGNED BY: JMG CHECKED BY: JMG		

**RIDEM PRELIMINARY DETERMINATION
GRADING AND DRAINAGE PLAN**
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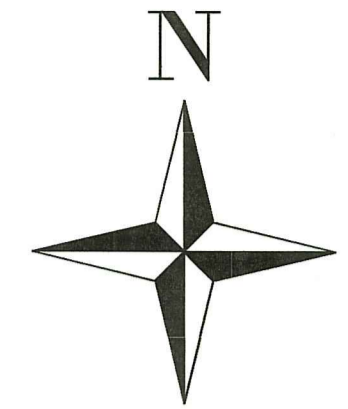
DRAWING NO: **C-2**
PROJECT NO: P322-001
DATE OF ISSUE: 1/11/2022
SHEET NO: 6 OF 16

NOTES:

1. ROLL-OFF CONTAINER AND CONCRETE WASHOUT AREA TO BE LOCATED WITHIN TEMPORARY LAYDOWN AREA. FINAL LOCATIONS OF TO BE DETERMINED BY CONTRACTOR AS APPROVED BY OWNER.

SLOPES 8-15%
SLOPES > 15%

RIPDES PERMIT RIR102282



LIMITS OF DISTURBANCE

CONSTRUCTION ENTRANCE

TEMPORARY DIVERSION (TYP.)

STOCKPILE

TEMP LAYDOWN AREA

TEMP SED TRAP

FILTER SOCK (TYP.)

COMBINED SILT FENCE AND FILTER SOCK

TEMP SED TRAP

TEMP SED TRAP

BOULDER DISPOSAL AREA

BOULDER DISPOSAL AREA

LIMITS OF DENSE BOULDER AREA (TYP)

A.P. 16, LOT 58
N/F CROTEAU FAMILY TRUST
DONALD R. & ZUZEDANA W. TRUSTEES
BK. 0794, PG. 0078

A.P. 16, LOT 19
N/F MELISSA & KARM-MENAUER
BK. 182, PG. 446
AREA = 558,866# S.F.
22.245 AC.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0029
DATED: JUL 03 2023
SEE LETTER OF SAME DATE

Andy Cloutier

Environmental Management
JUN 08 2023
Office of Water Resources

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
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ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

POMHAM SOLAR
AP 16 LOT 19
OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

0 50' 100'
SCALE: 1" = 50'
Jason Gold
6/2/23

2	RESPONSE TO RIDEM TECHNICAL COMMENTS	6/2/2023	GJR	JMG	JMG
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	2/21/2023	GJR	JMG	JMG
No.	REVISION	DATE	DRAWN	DESIGN	CHK
DRAWN BY: GJR			DESIGNED BY: JMG		
CHECKED BY: JMG					

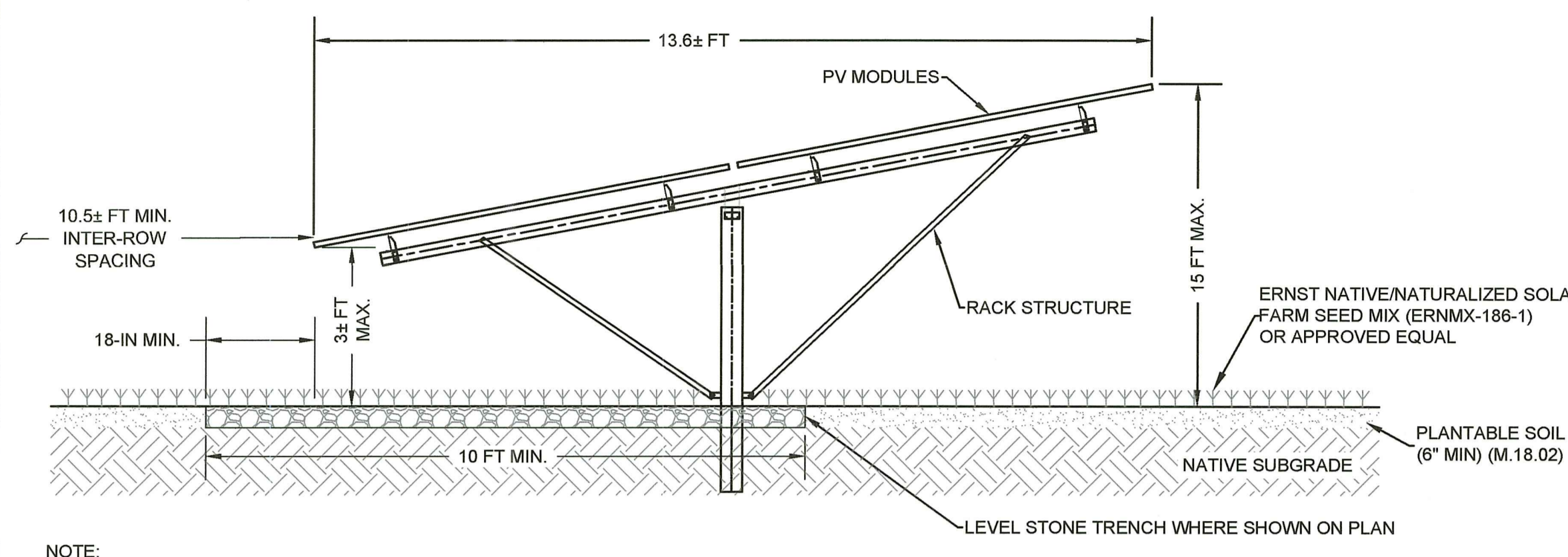
**RIDEM PRELIMINARY DETERMINATION
EROSION AND SEDIMENT CONTROL PLAN**

FOR PERMITTING ONLY

DRAWING NO:
C-3

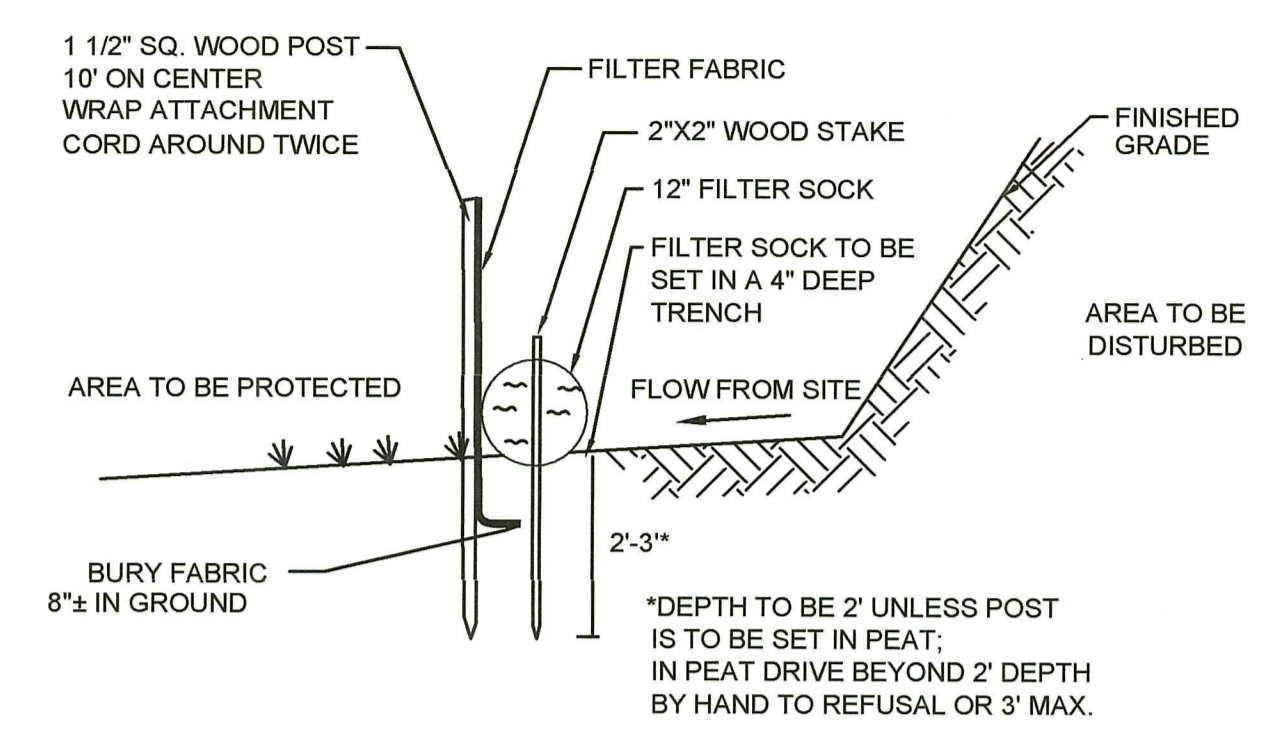
PROJECT NO: P322-001
DATE OF ISSUE: 1/11/2022
SHEET NO: 7 OF 15

DATE: Jun 02, 2023 - 11:12AM
FILENAME: G:\Vishram\2023\0322-000 Islander (Pomham) Solar - Design and Permitting\04_08\Wetlands\RIDEM_P322-001_Pomham Solar PD_ESC.dwg
Islander (Pomham) Solar - Design and Permitting\04_08\Wetlands\RIDEM_P322-001_Pomham Solar PD_ESC.dwg

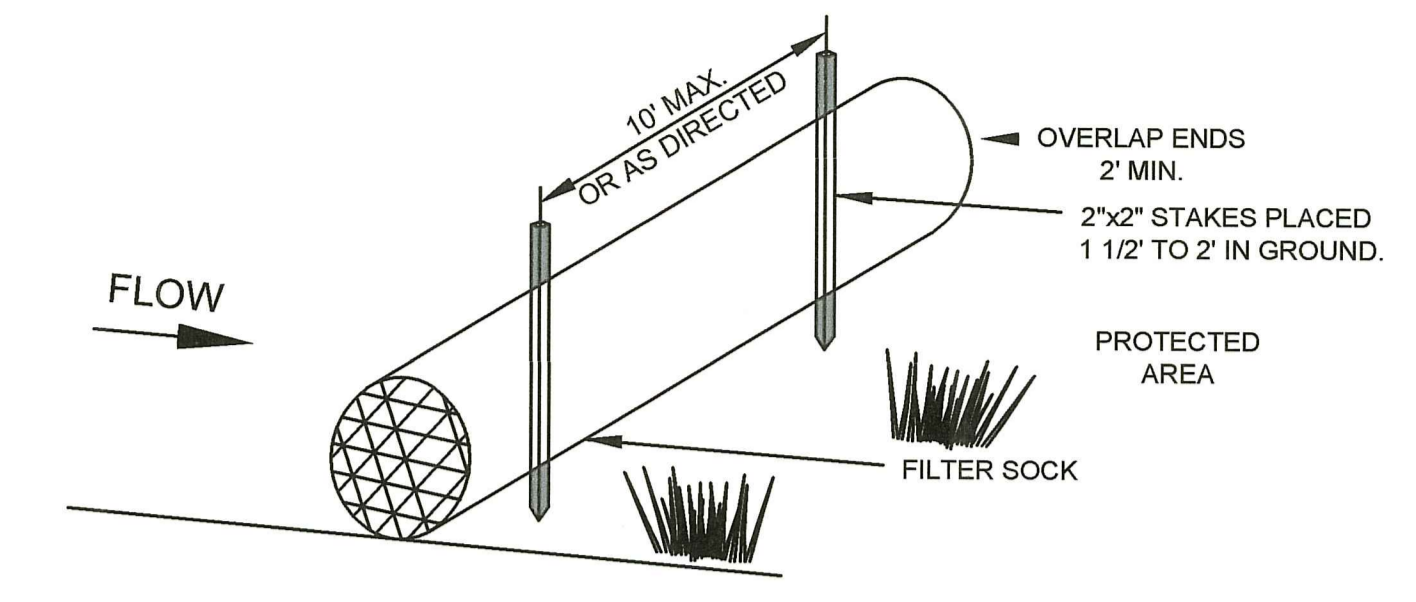


NOTE:
1. RACK STRUCTURE AND PV MODULES SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL COMPONENTS AND DIMENSIONS AS APPROVED BY OWNER. FOUNDATION TYPE TO BE DETERMINED BY OTHERS. CONCRETE BALLASTS ARE NOT PERMITTED.

1 TYPICAL SOLAR PANEL AND RACK
SCALE: NTS



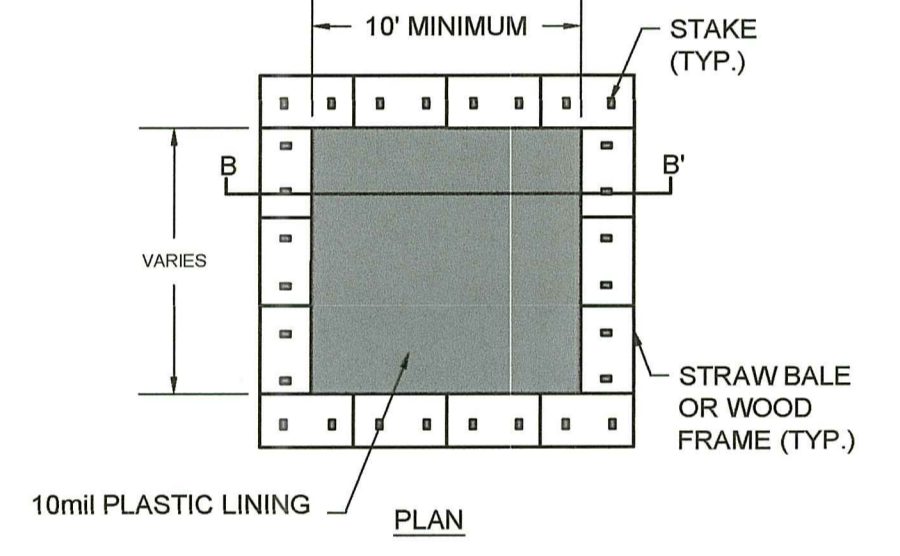
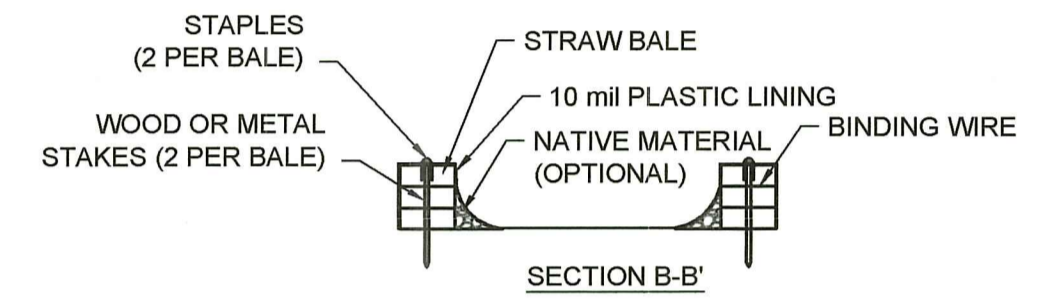
2 TYPICAL COMBINED SILT FENCE & FILTER SOCK
SCALE: NTS



ANCHORING DETAIL
CONSTRUCTION SPECIFICATIONS

1. FILTER SOCKS SHALL BE FILTREXX SILTXXX OR APPROVED EQUIVALENT. FILTER SOCK AND COMPOST MATERIALS SHALL BE IN ACCORDANCE WITH AASHTO MP 9-06, LATEST REVISION.
2. FILTER SOCKS SHALL BE 12 INCHES IN DIAMETER.
3. FILTER SOCKS SHALL BE PLACED IN ACCORDANCE WITH THIS PLAN SET AND IN A ROW WITH ENDS OVERLAPPING 2 FEET (MIN).
4. FILTER SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES, 10 FEET ON CENTER (MAX).
5. INSPECTION SHALL BE FREQUENT AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. FILTER SOCKS SHALL NOT BE MOVED TO OTHER LOCATIONS IN THE PROJECT ONCE PLACED.

3 TYPICAL FILTER SOCK
SCALE: NTS



- DANGER SIGN NOTES:
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
 2. SIGN SHALL COMPLY WITH ANSI Z535.
 3. DANGER SIGN TO BE SPACED EVERY 300 FEET ALONG FENCE LINE.

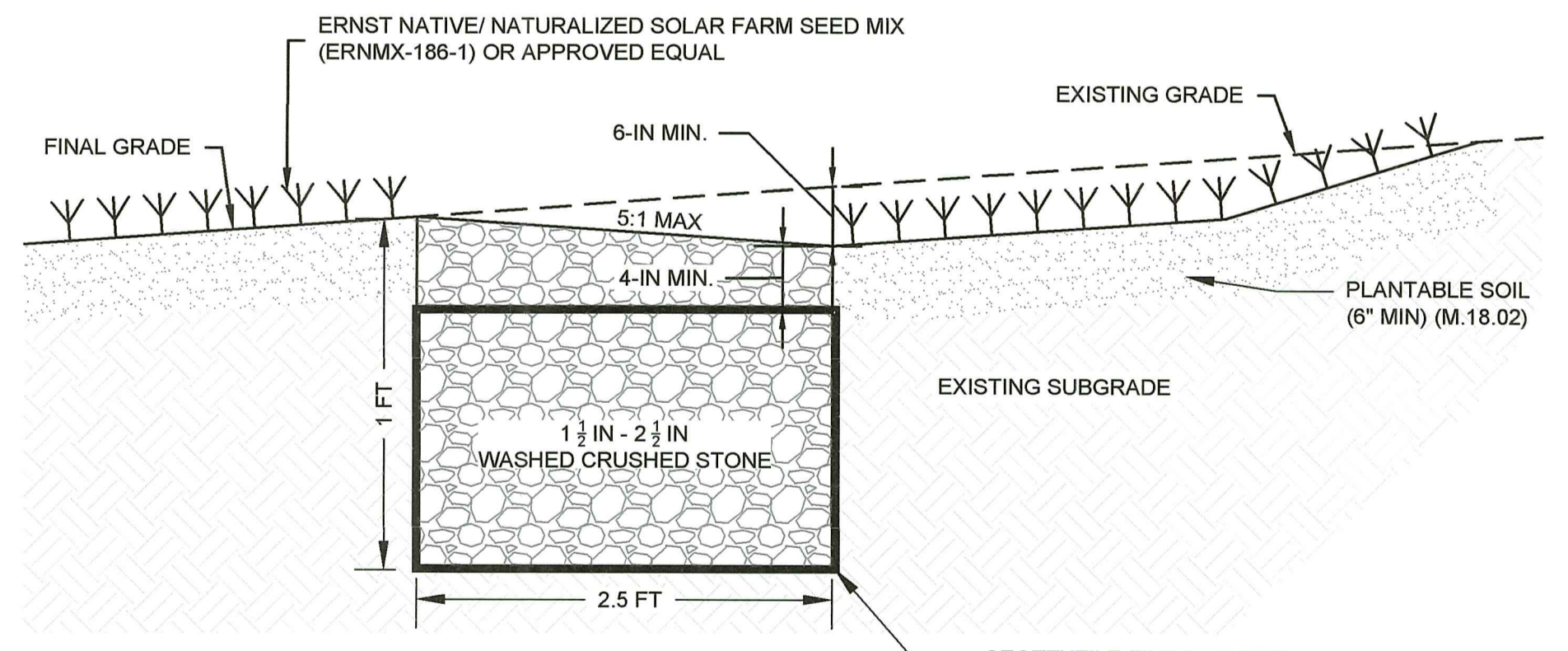
- NO TRESPASSING SIGN NOTES:
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
 2. SIGN SHALL COMPLY WITH ANSI Z535.
 3. NO TRESPASSING SIGN TO BE SPACED EVERY 100 FEET ALONG FENCE LINE.

- EMERGENCY CONTACT SIGN NOTES:
1. SIGN SHALL BE REFLECTIVE RUST FREE ALUMINUM.
 2. EMERGENCY CONTACT TELEPHONE NUMBER TO BE PROVIDED BY OWNER.

5 TYPICAL SIGN DETAILS
SCALE: NTS

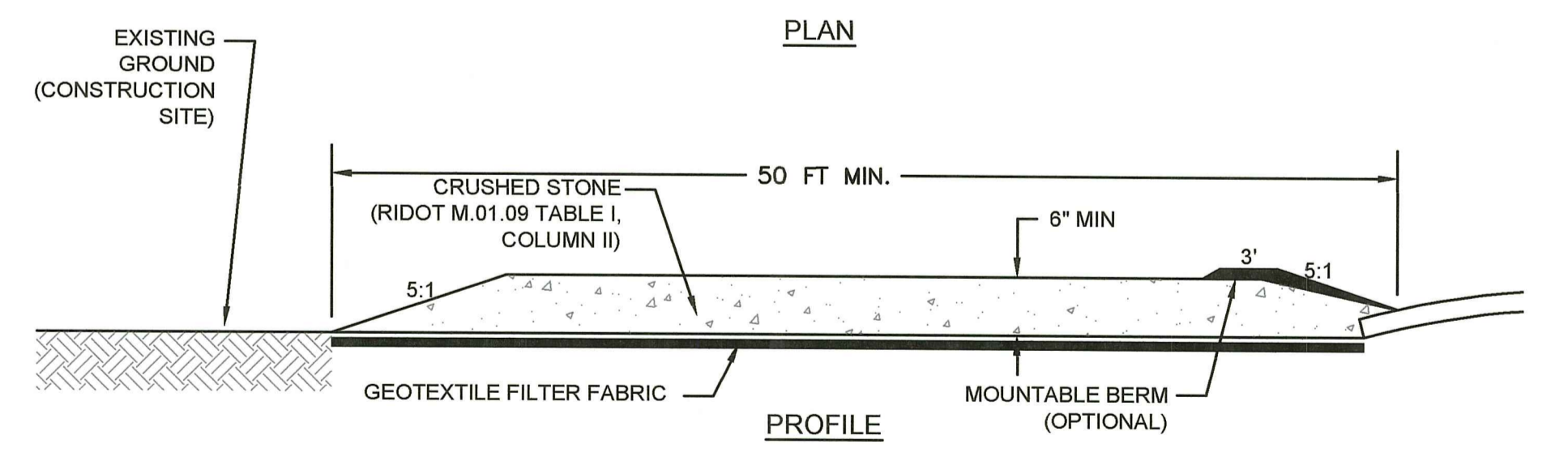
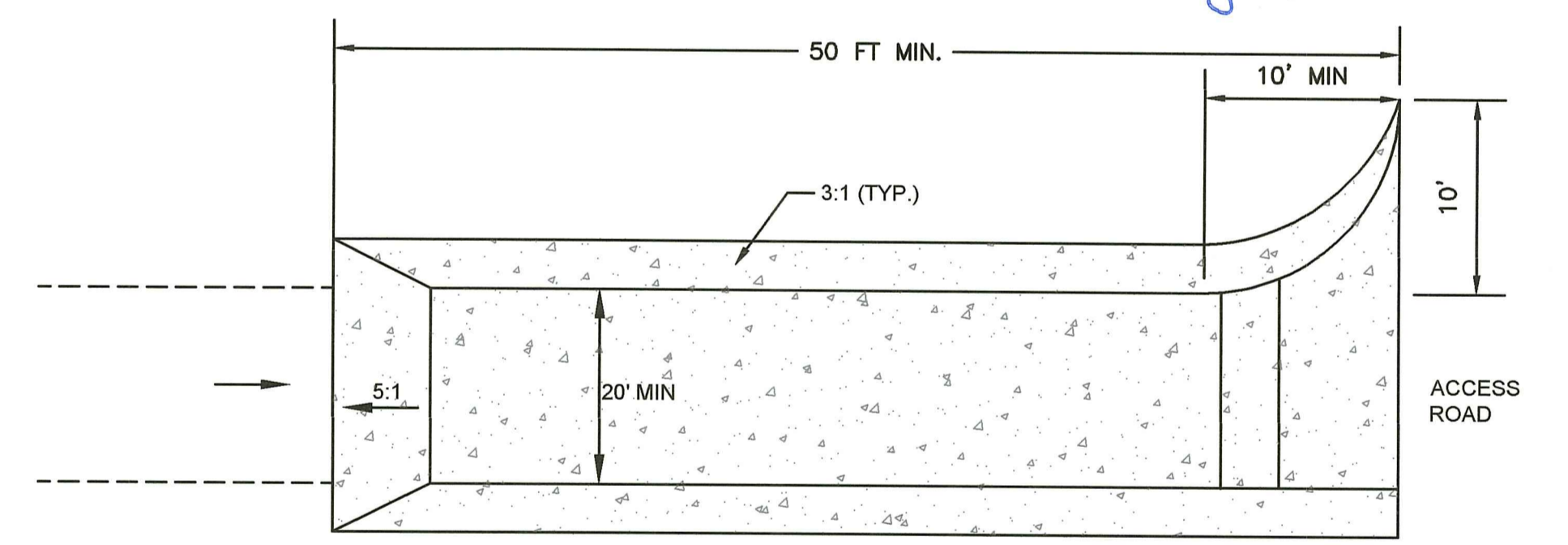
- NOTES:
1. CONCRETE WASHOUT SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. PROVIDE 12 INCHES OF FREEBOARD.
 2. PLASTIC LINING SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
 3. WASHOUT SHALL BE CLEANED OR REPLACED ONCE 75% FULL.
 4. ACTUAL DIMENSIONS TO BE DETERMINED BY THE CONTRACTOR.

4 TYPICAL CONCRETE WASHOUT
SCALE: NTS

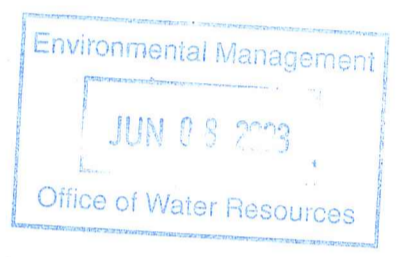


- NOTES:
1. LEVEL STONE TRENCH SHALL RUN PARALLEL TO FINAL GRADE CONTOUR AT A CONSISTENT ELEVATION FOR A MINIMUM LENGTH OF 10 FEET.
 2. GEOTEXTILE FABRIC: CLASS \"C\" APPARENT OPENING SIZE (ASTM D-4751).

7 TYPICAL LEVEL STONE TRENCH
SCALE: NTS



8 TYPICAL CONSTRUCTION ENTRANCE
SCALE: NTS



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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0029
DATED: JUL 03 2023
SEE LETTER OF SAME DATE

DATE: Jun 02, 2023 11:13AM FILENAME: G:\Waltham\100322-000 Islander - Design and Permitting\04 - GRAPHS\CAD Drawings\RIDEM P\10322-001 Pomham Solar PD Details.dwg



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NORTH SMITHFIELD, RI 02896



Jason Gold
6/2/23

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	2/21/2023	GJR	JMG	JMG

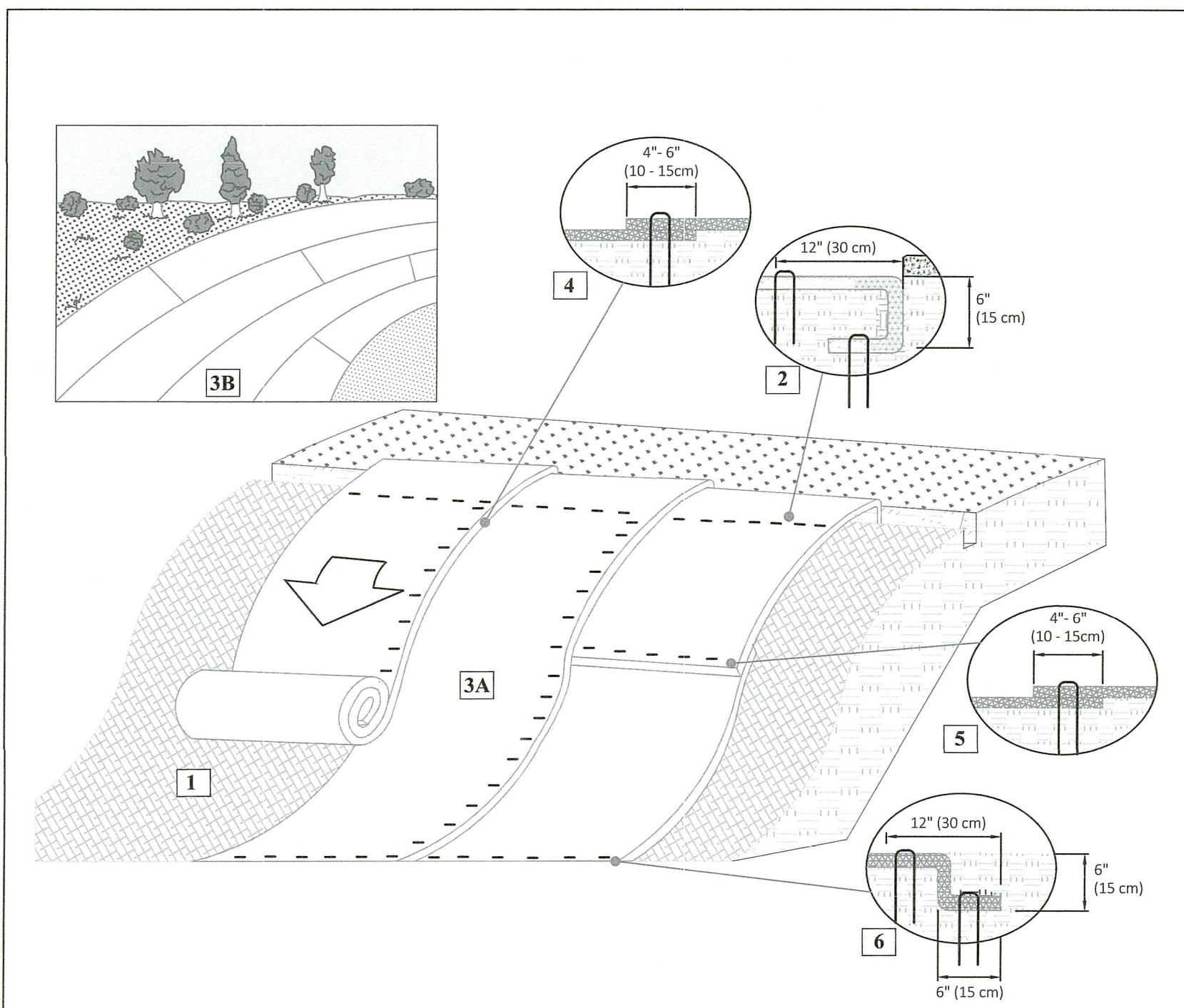
DRAWN BY: GJR DESIGNED BY: JMG CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION DETAILS

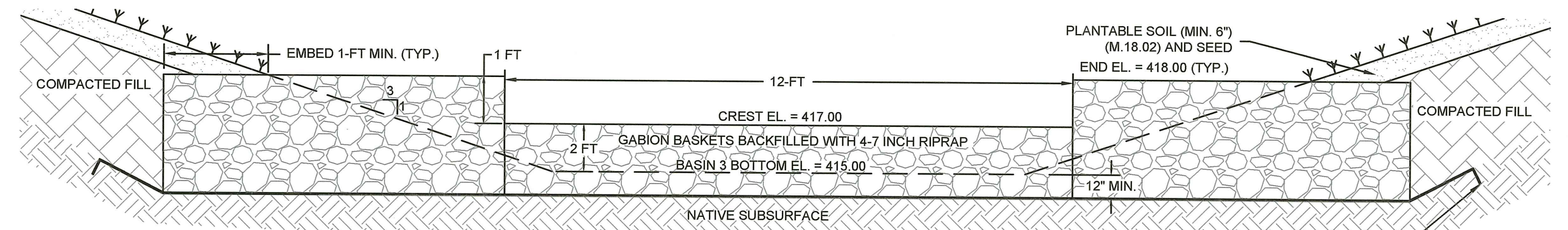
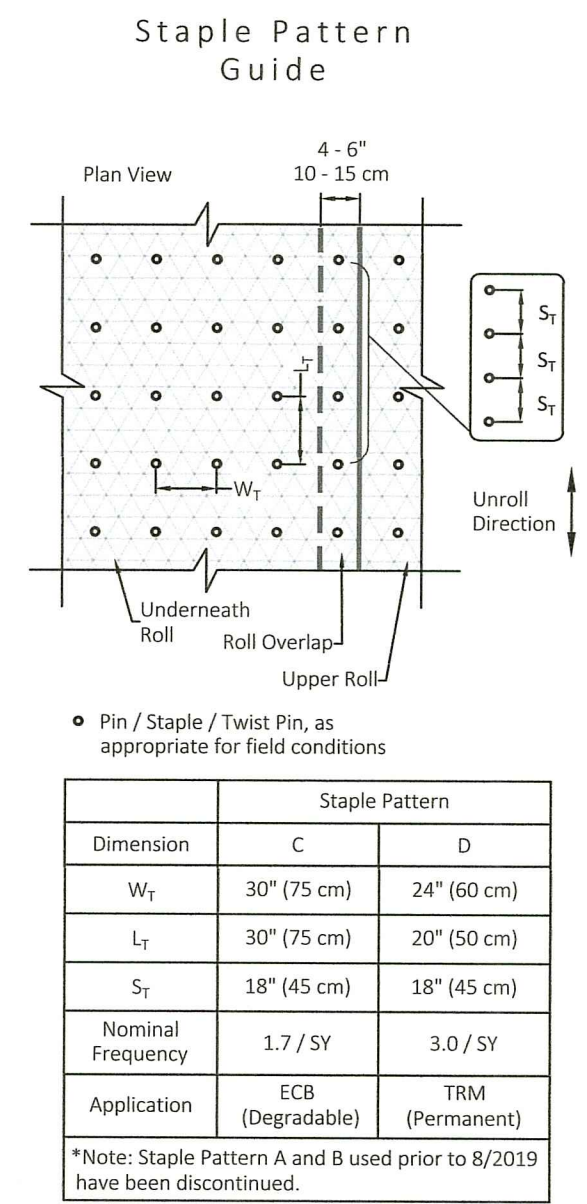
FOR PERMITTING ONLY

D-1

PROJECT NO: P322-001
DATE OF ISSUE: 1/11/2022
SHEET NO: 12 OF 15

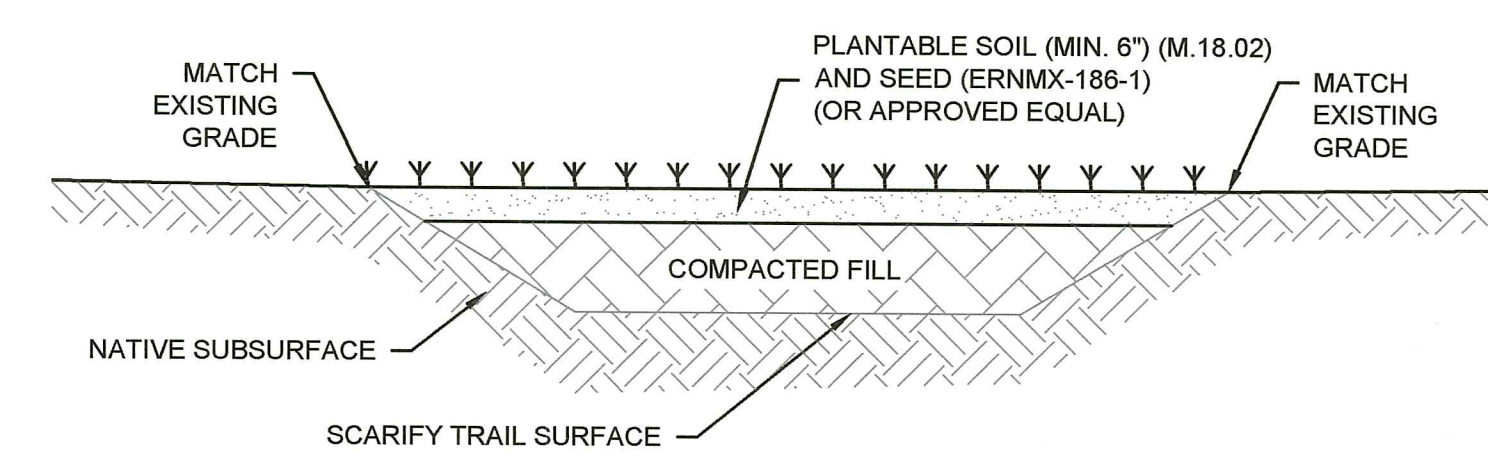


- Instructions**
1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
 2. Begin at the top of the slope by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench. Anchor the RECPs with a row of staples/stakes/pins spaced at S_x apart in the bottom of the trench. Backfill and compact the trench after stapling and fold the roll over downslope. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced at S_y apart across the width of the RECPs.
 3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate locations as shown in the staple pattern guide. RollMax RECPs and ECBs should utilize Staple Pattern C, TRMs and VMax materials should utilize Staple Pattern D.
 4. The edges of parallel RECPs must be stapled with approximately 4" - 6" (10 - 15 cm) overlap.
 5. Consecutive RECPs spliced down the slope must overlap with the upstream mat atop the downstream mat (single style). The overlap should be 4" - 6" (10 - 15 cm).
 6. At the terminal end, secure each mat across the width with a row of staples/stakes/pins spaced at S_x if exposed to flow, foot traffic, wind uplift or other disruption, trench the terminal end in as shown in detail.
 7. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may be used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials.



- NOTES:**
1. GABION BASKETS SHALL BE SET LEVEL ON A COMPACTED NATIVE SUBSURFACE.
 2. INSTALL NON-WOVEN GEOTEXTILE SECURELY FASTENED TO NATIVE SUBSURFACE BENEATH ALL GABION BASKETS.
 3. GABION BASKET SHALL CONFORM TO ASTM A-974-97 AND US FEDERAL SPECIFICATION QQ-W-461H AND COATED IN ACCORDANCE WITH ASTM A641, FINISH 5, CLASS 3.
 4. INSTALL GABIONS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

2 TYPICAL GABION SPILLWAY
SCALE: NTS

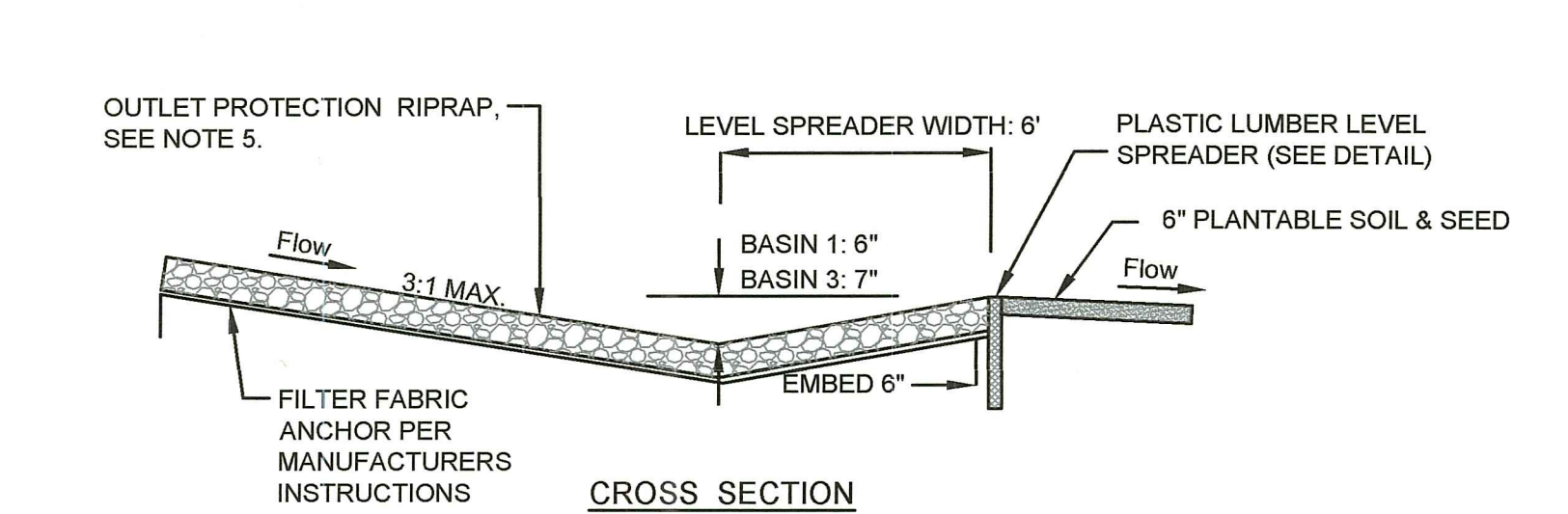


3 TYPICAL TRAIL REVEGETATION
SCALE: NTS



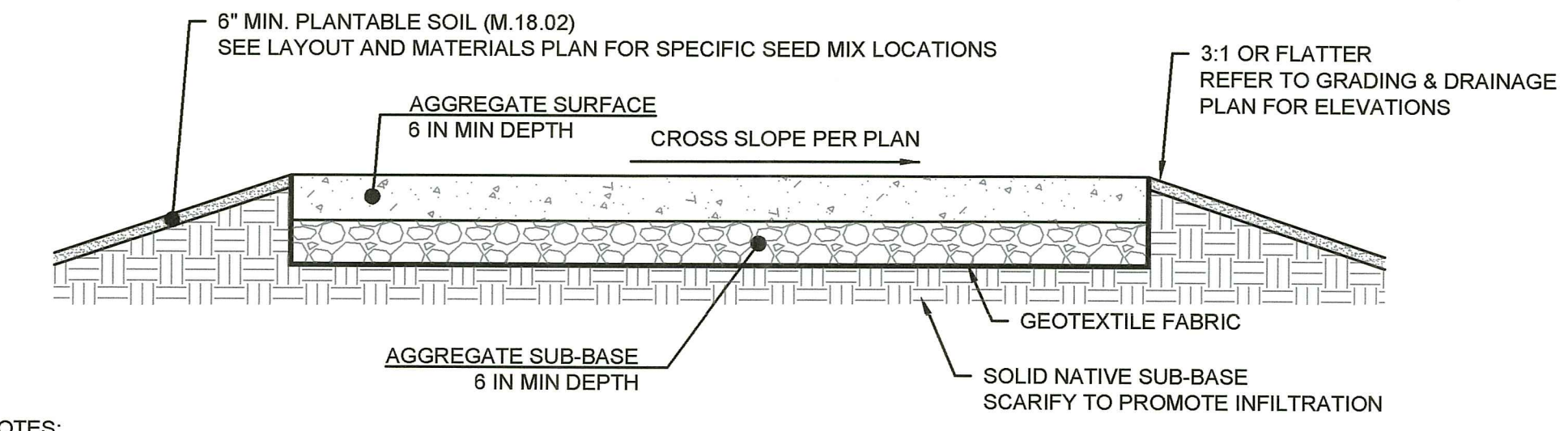
Project: Standard Slope Installation Recommendations RollMax RECPs, VMax TRMs
Shown: Perspective View, Some Fasteners and Vegetation Omitted for Clarity- NTS
Date: 3/24/20
Revision: 0
Drawings: 1/3

1 TYPICAL TURF REINFORCEMENT MAT (TRM) INSTALLATION
SCALE: NTS



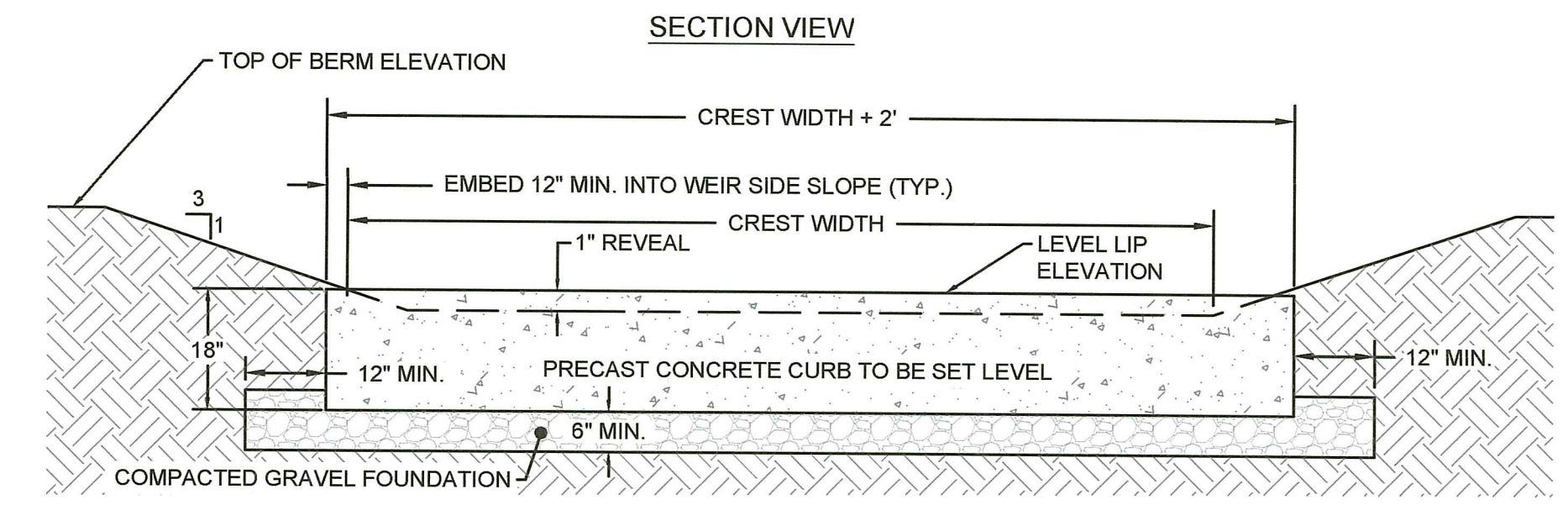
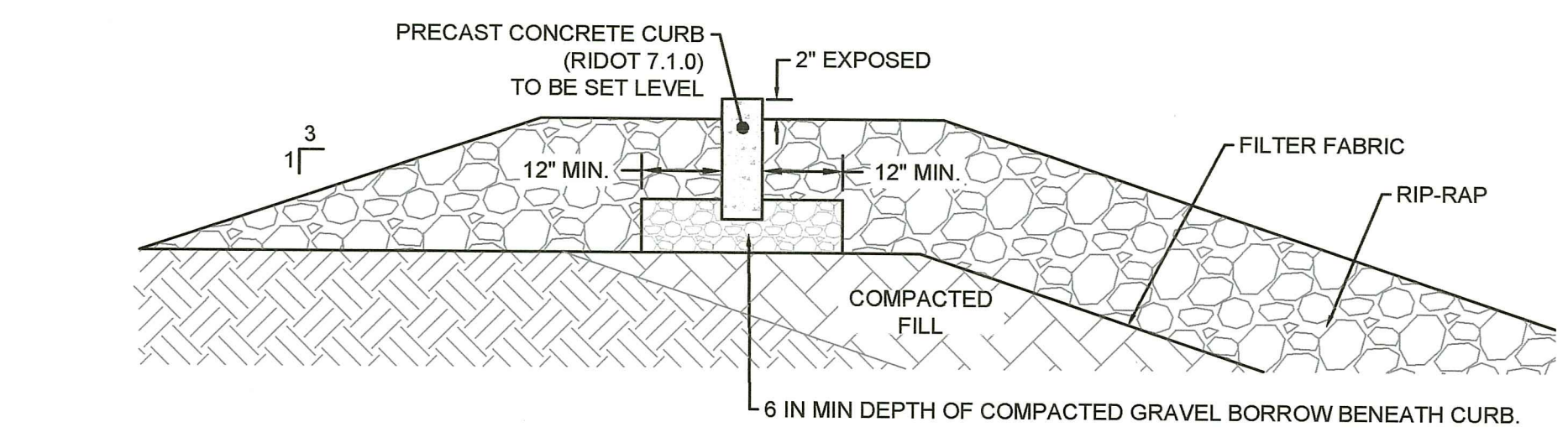
- CONSTRUCTION SPECIFICATIONS / NOTES:**
1. THE FILTER FABRIC SHOULD BE A MINIMUM OF 6 FEET WIDE EXTENDING 12 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON BOTH SIDES. THE FABRIC SHOULD BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
 2. FILTER FABRIC SHALL BE EROSION RESISTANT MATERIAL OR MAT TO PREVENT EROSION AND ALLOW VEGETATION TO BECOME ESTABLISHED.
 3. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD STORMWATER DISCHARGE.
 4. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE.
 5. OUTLET PROTECTION AND LEVEL SPREADER RIPRAP SHALL BE RIDOT R-4 RIPRAP STONE 21 INCHES THICK FOR BASIN 1 AND RIDOT R-3 RIPRAP STONE 12 INCHES THICK FOR BASIN 3.

4 TYPICAL LEVEL SPREADER
SCALE: NTS



- NOTES:**
1. WIDTH OF THE GRAVEL ROAD SHALL BE 20 FEET. WIDTH OF TRAILS FOR MAINTENANCE ACCESS TO THE STORMWATER BASINS SHALL BE 8 FEET.
 2. EXISTING PLANTABLE SOIL SHALL BE REMOVED UNTIL A SOLID NATIVE SUB-BASE HAS BEEN REACHED.
 3. A GEOTEXTILE FABRIC SHALL BE INSTALLED ON TOP OF THE SOLID NATIVE SUB-BASE BEFORE THE AGGREGATE SUB-BASE IS INSTALLED.
 4. THE AGGREGATE SURFACE OF THE GRAVEL ROAD, AND OF THE GRAVEL TRAIL FOR MAINTENANCE ACCESS TO BASIN 3 SHALL BE A MINIMUM OF 6 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF ANGULAR CRUSHED STONE OR CRUSHED GRAVEL MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN II.
 5. THE AGGREGATE SURFACE OF THE WASHED CRUSHED STONE TRAIL FOR MAINTENANCE ACCESS TO BASINS 1 & 2 SHALL BE A MINIMUM OF 6 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF WASHED ANGULAR CRUSHED STONE OR WASHED CRUSHED GRAVEL MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN II.
 6. THE AGGREGATE SUB-BASE SHALL BE A MINIMUM OF 6 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF ANGULAR GRAVEL BORROW MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN I, TYPE IA.
 7. AGGREGATE COMPACTION SHALL BE A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY COMPACTED IN 6 INCH LIFTS.
 8. MAXIMUM GRADE OF THE ACCESS ROAD SHALL BE NO STEEPER THAN 8%.

5 TYPICAL GRAVEL ROAD & MAINTENANCE ACCESS TRAIL
SCALE: NTS



LOCATION	LEVEL LIP ELEVATION	CREST WIDTH (FT)	RIP RAP THICKNESS (IN)	RIP RAP GRADATION
BASIN 1	428.80	5.0	12	R-3
BASIN 2	438.70	15.0	12	R-3
BASIN 3	418.00	6.0	12	R-3

- NOTES:**
1. CONCRETE CURB SHALL BE SET LEVEL ON A COMPACTED GRAVEL BORROW SUBBASE BEDDING
 2. CURB JOINTS SHALL BE SEALED WITH NON-SHRINK GROUT TO PROVIDE A CONTINUOUS FLAT TOP SURFACE.

6 TYPICAL EMERGENCY SPILLWAY
SCALE: NTS

DATE: Jun 02, 2023 - 11:13AM
FILENAME: C:\Waltham\Jobs\1322-000\Islander (Permitting) Solar - Design and Permitting\04 - GRIPPER\SS\04\Drawings\1004 - RollMax Solar PD Details.dwg
Islander (Permitting) Solar - Design and Permitting\04 - GRIPPER\SS\04\Drawings\1004 - RollMax Solar PD Details.dwg



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Jason Gold
6/2/23

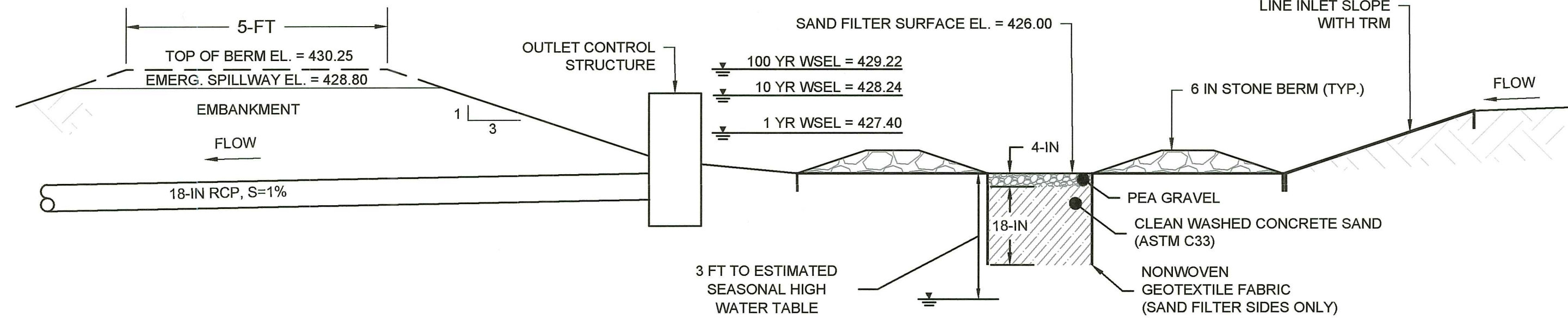
No.	REVISION	DATE	DRAWN	DESIGN	CHK
2	RESPONSE TO RIDEM TECHNICAL COMMENTS	6/2/2023	GJR	JMG	JMG
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	2/21/2023	GJR	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

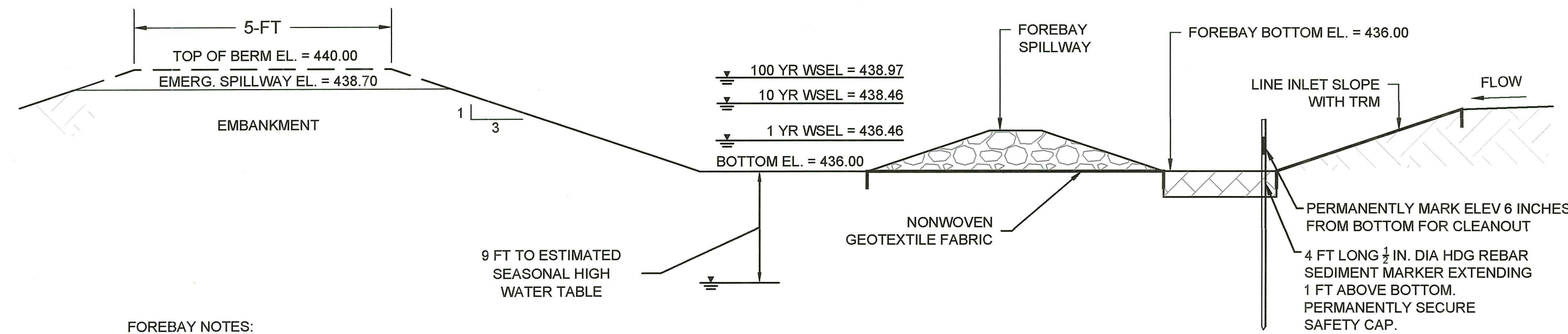
RIDEM PRELIMINARY DETERMINATION DETAILS
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D-3

PROJECT NO: P322-001
DATE OF ISSUE: 1/11/2022
SHEET NO: 14 OF 15



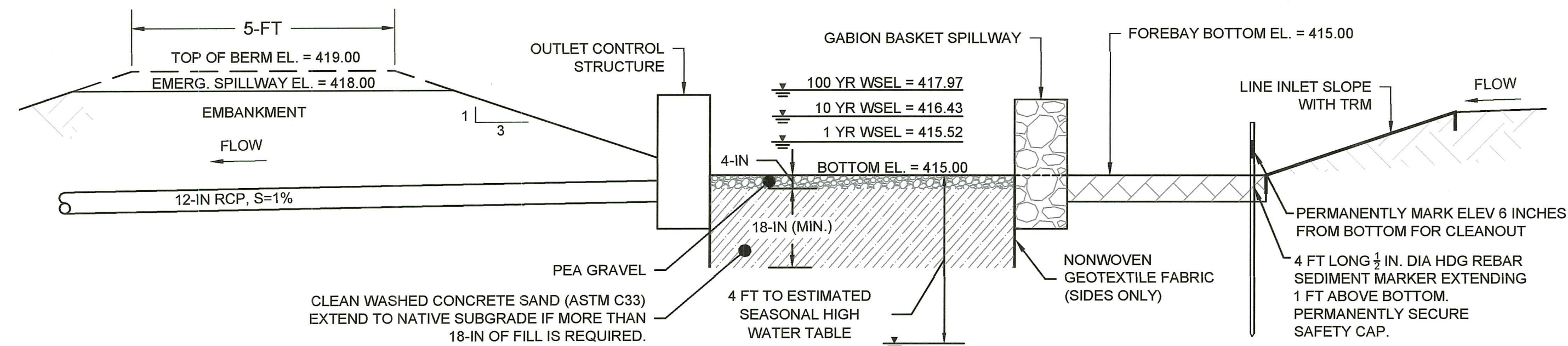
1 BASIN 1 TYPICAL DETAIL
SCALE: NTS



FOREBAY NOTES:

- FOREBAY SHALL HAVE A HARD BOTTOM CONSTRUCTED OF PAVERS, GROUDED RIPRAP, CONCRETE OR APPROVED EQUAL.
- A MINIMUM OF TWO 2.5-INCH DIA WEEP HOLES SHALL BE DRILLED FOR EVERY 25 SQUARE FEET OF CONCRETE OR GROUDED RIP-RAP SURFACE AREA.

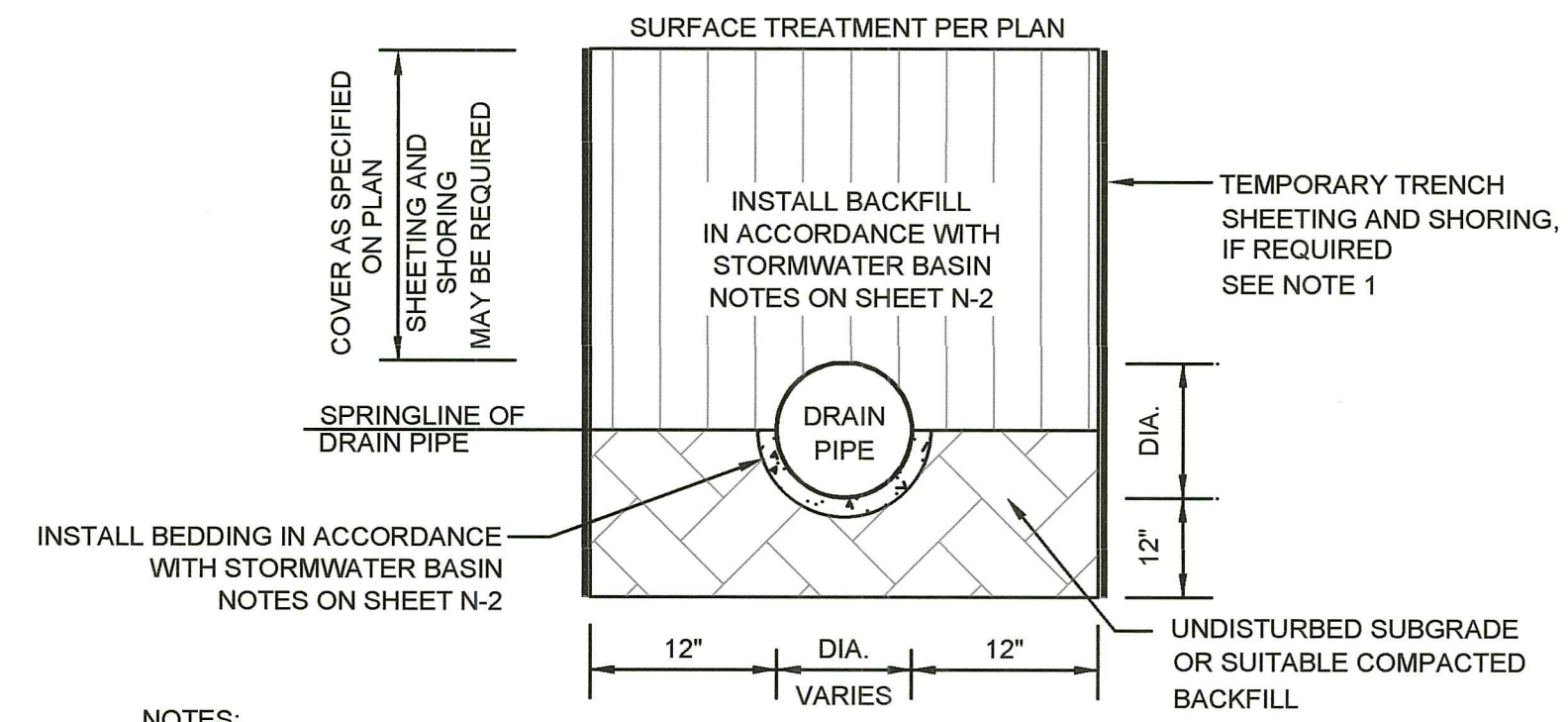
2 BASIN 2 TYPICAL DETAIL
SCALE: NTS



FOREBAY NOTES:

- FOREBAY SHALL HAVE A HARD BOTTOM CONSTRUCTED OF PAVERS, GROUDED RIPRAP, CONCRETE OR APPROVED EQUAL.
- A MINIMUM OF TWO 2.5-INCH DIA WEEP HOLES SHALL BE DRILLED FOR EVERY 25 SQUARE FEET OF CONCRETE OR GROUDED RIP-RAP SURFACE AREA.

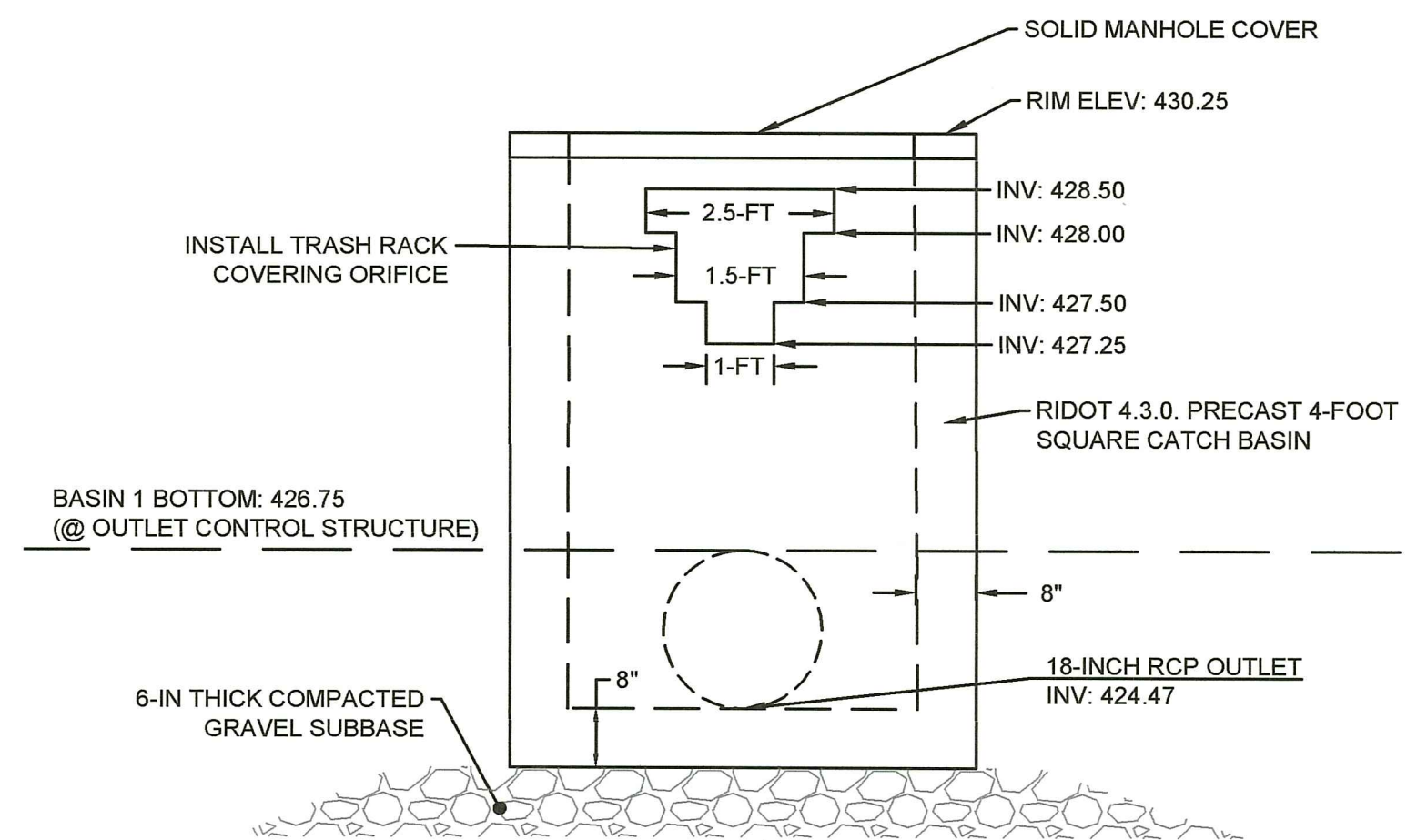
3 BASIN 3 TYPICAL DETAIL
SCALE: NTS



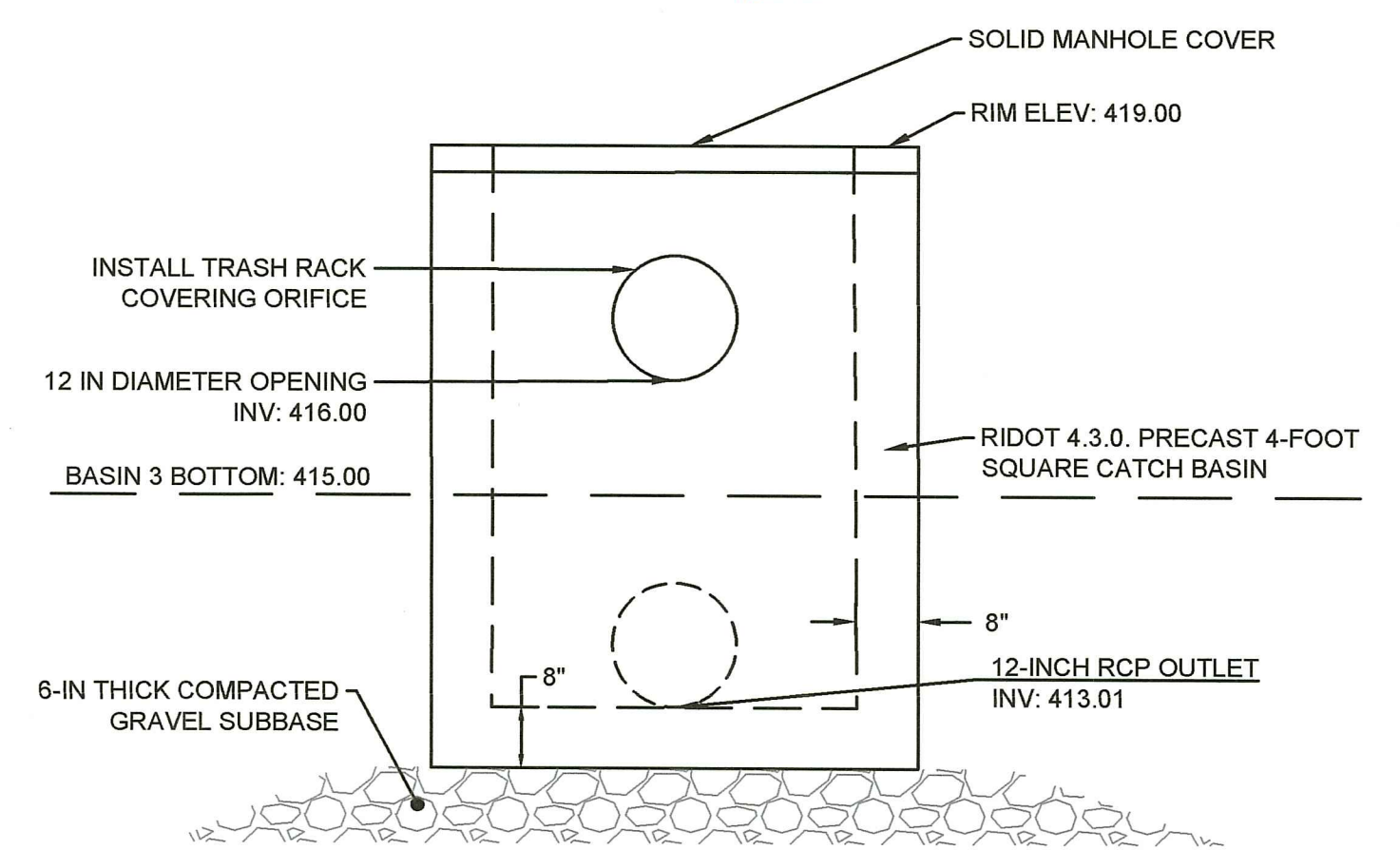
NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR TEMPORARY SHEETING AND SHORING FOR ALL UTILITY TRENCH WORK REQUIRING STABILIZATION DURING CONSTRUCTION.
- DRAIN PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 701 - CULVERTS AND STORM DRAINS AND SECTION 205 - TRENCH EXCAVATION OF THE MOST RECENT RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

4 TYPICAL DRAIN PIPE TRENCH
SCALE: NTS



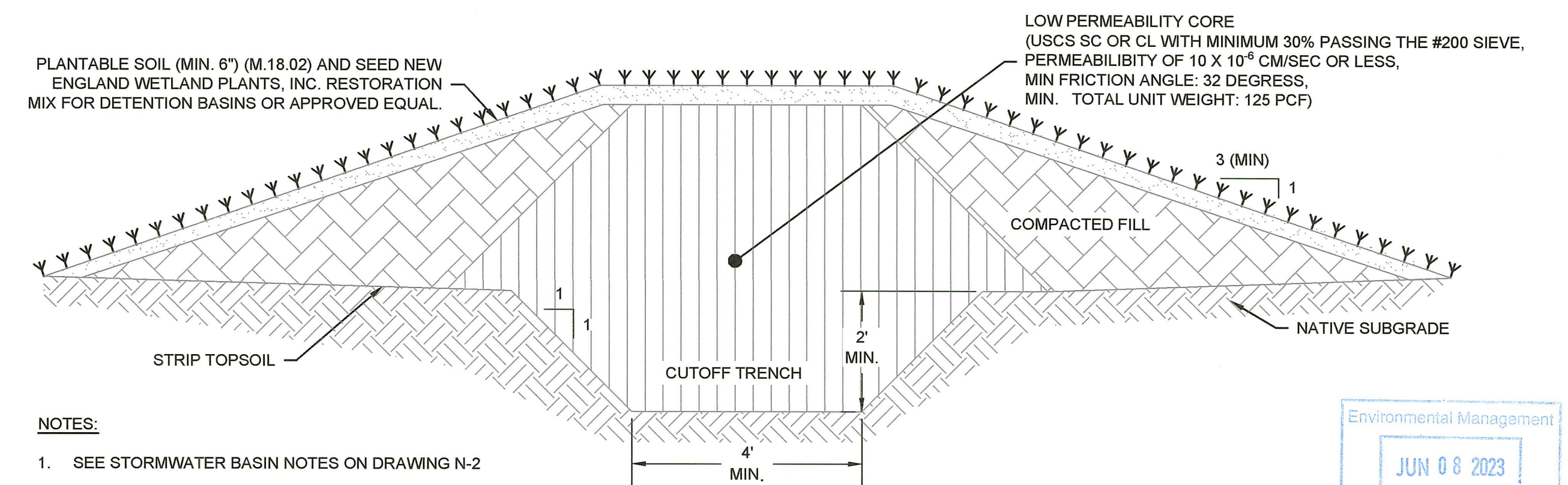
5 BASIN 1 OUTLET CONTROL STRUCTURE
SCALE: NTS



6 BASIN 3 OUTLET CONTROL STRUCTURE
SCALE: NTS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0029
DATED: JUL 03 2023
SEE LETTER OF SAME DATE

Andy Cloutier



NOTES:

- SEE STORMWATER BASIN NOTES ON DRAWING N-2
- EMBANKMENT SHALL BE STABILIZED WITH A MINIMUM OF 6 INCHES OF PLANTABLE SOIL AND SEED OR FILTER FABRIC AND RIP-RAP AS SHOWN.

7 TYPICAL BASIN EMBANKMENT CROSS SECTION
SCALE: NTS

Environmental Management
JUN 08 2023
Office of Water Resources

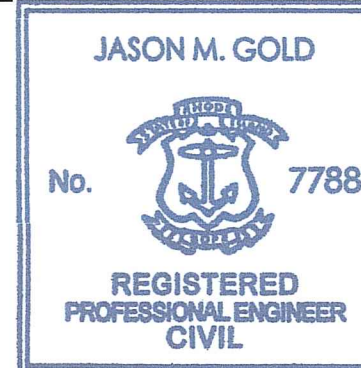
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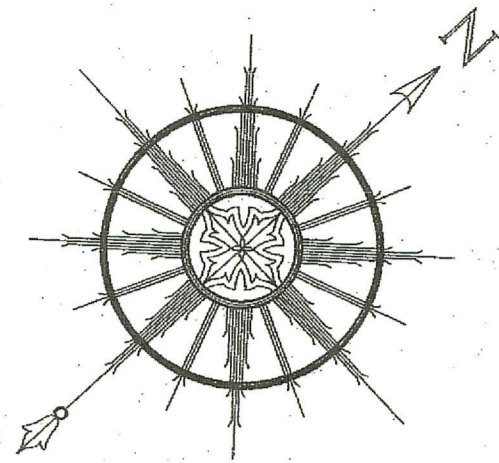
No.	REVISION	DATE	DRAWN	DESIGN	CHK
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**RIDEM PRELIMINARY DETERMINATION
DETAILS**

FOR PERMITTING ONLY

D-4

PROJECT NO: P322-001
DATE OF ISSUE: 1/11/2022
SHEET NO: 15 OF 15



SEE GENERAL NOTES #4

LEGEND:

---	PROPERTY LINE
- - -	ABUTTER'S PROPERTY LINE
--- ---	TOPOGRAPHIC CONTOUR
-----	STONE WALL
~~~~~	TREE LINE
~~~~~	SHRUB LINE
~~~~~	WETLANDS LINE
⬠	WETLAND FLAG
⊙	UTILITY POLE
⊙	GUY
⊙	ROCK
⊙	DECIDUOUS TREE
⊙	CONIFER
⊙	BOUND
⊙	DRILL HOLE
⊙	IRON ROD/SPIKE
⊙	SURVEY NAIL

**GENERAL NOTES:**

- EXISTING CONDITIONS ARE THE RESULT OF A FIELD SURVEY BY NORTHEAST ENGINEERS & CONSULTANTS, INC. IN OCTOBER AND DECEMBER 2019.
- TOPOGRAPHY PROVIDED BY BLUESKY GEOSPATIAL LTD. VIA AERIAL PHOTOGRAMMETRIC METHODS IN DECEMBER 2019.
- VERTICAL DATUM IS NAVD83.
- NORTH ARROW AND BASIS OF BEARING BASED ON RTK/GNSS OBSERVATION.

**PLAN REFERENCES:**

- PLAN ENTITLED "DIVISION OF LAND FOR LOUIS A. & FLORENCE R. COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEALT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED JANUARY, 1990.
- PLAN ENTITLED "REDIVISION OF LAND FOR LOUIS A. & FLORENCE R. COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEALT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED FEBRUARY, 1990.
- PLAN ENTITLED "MINOR SUBDIVISION FOR LOUIS COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEALT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED FEBRUARY, 1999.
- PLAN ENTITLED "OXFORD CREEK FINAL PLAN ADMINISTRATIVE SUBDIVISION & MINOR SUBDIVISION OF PLAT 16, LOTS 20, 21, 28 & PLAT 20, LOTS 18 & 35", PREPARED BY MARC N. NYBERG ASSOCIATES, INC., SCALE 1"=100', DATED JULY 17, 2009.

**SURVEYOR'S CERTIFICATION:**

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 26, 2016, AS FOLLOWS:

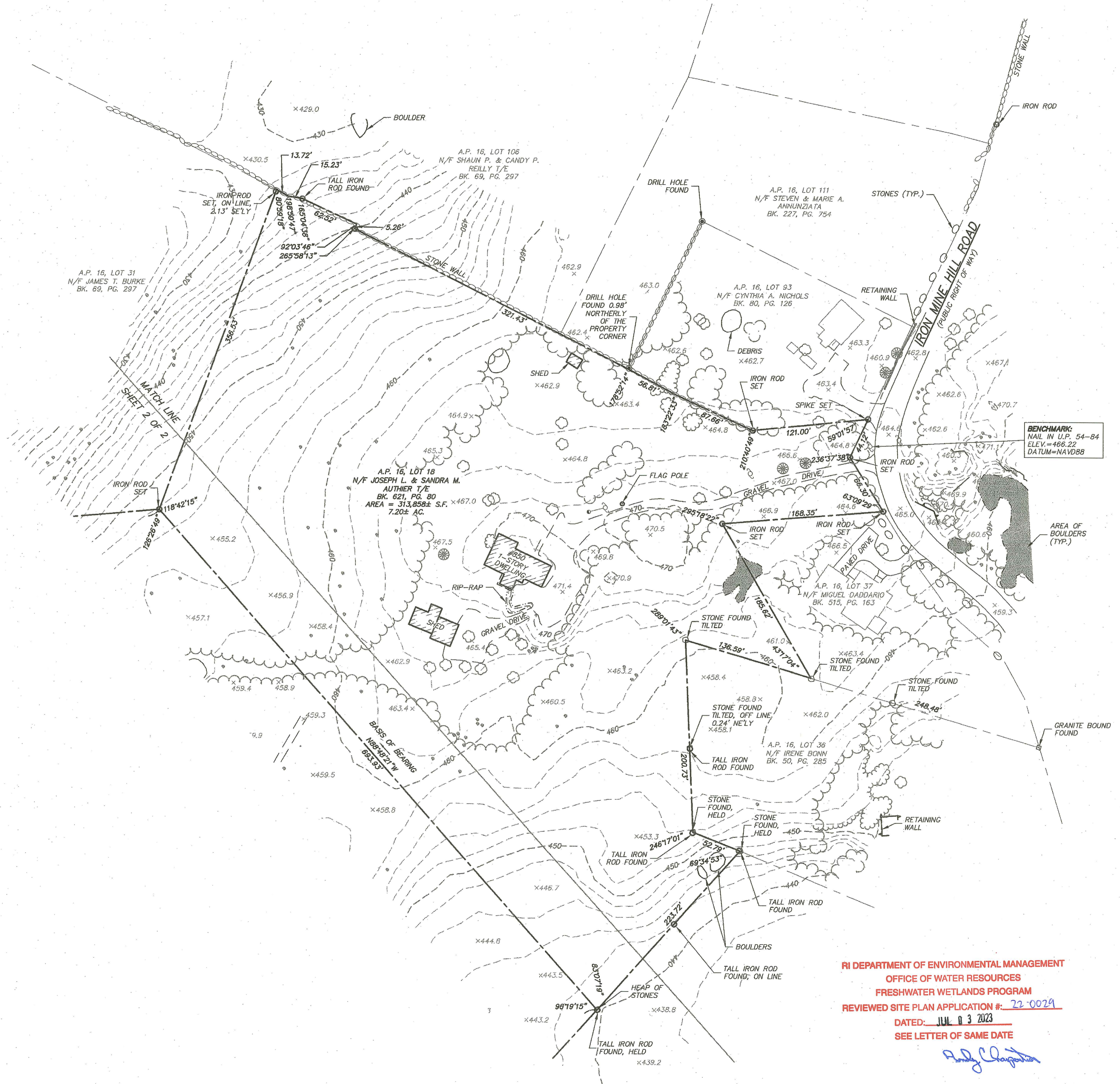
<b>TYPE OF BOUNDARY SURVEY:</b>	<b>MEASUREMENT SPECIFICATION:</b>
LIMITED CONTENT BOUNDARY SURVEY	CLASS I
TOPOGRAPHIC SURVEY ACCURACY	CLASS T-3

**STATEMENT OF PURPOSE:**

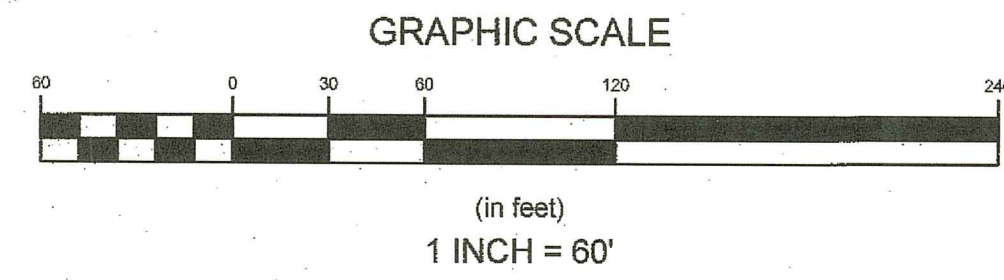
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:

TO DETERMINE AND MONUMENT THE LOCATION OF THE PROPERTY BOUNDARIES OF A.P. 16, LOTS 18 & 19 AND TO SHOW EXISTING CONDITIONS AT THE SITE.

BY: *Marc S. Thayer*  
 MARC S. THAYER NO. 1889  
 COA NO. A356 12-17-2019



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 REVIEWED SITE PLAN APPLICATION #: 22-0029  
 DATED: JUL 03 2023  
 SEE LETTER OF SAME DATE



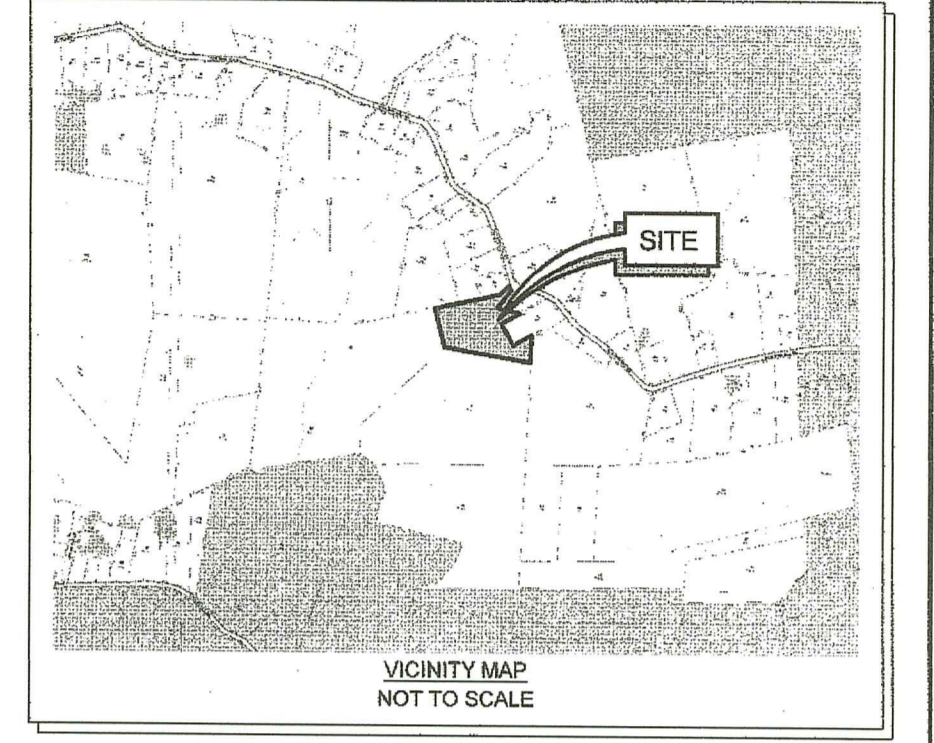
**NORTHEAST ENGINEERS & CONSULTANTS, INC.**

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Environmental Management  
 JUN 08 2023  
 Office of Water Resources

No.	Revision	Date	App.
Designed By:	Drawn by: VAL	Checked by: MST	
Scale:	1"=60'	Date:	17DEC2019
Project Title:			
<b>A.P. 16, LOTS 18 &amp; 19 IRON MINE HILL ROAD NORTH SMITHFIELD, RHODE ISLAND</b>			
Client/Owner:			
ESS GROUP, INC., C/O BARBARA CABRAL 10 HEMINGWAY DR., 2ND FLOOR EAST PROVIDENCE, RI 02915			
Issued for:			
Drawing Title:			
<b>LIMITED CONTENT BOUNDARY SURVEY WITH EXISTING CONDITIONS AND TOPOGRAPHY</b>			
Drawing Number:		L-1	
Sheet 1 of 2			
Project Number:		19178.0	
Survey Index:		25 - 16 - 18 & 19	
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