

RIDEM FRESHWATER WETLAND PERMIT
&
CONSTRUCTION ACTIVITY PERMIT

EVENT BARN FACILITY

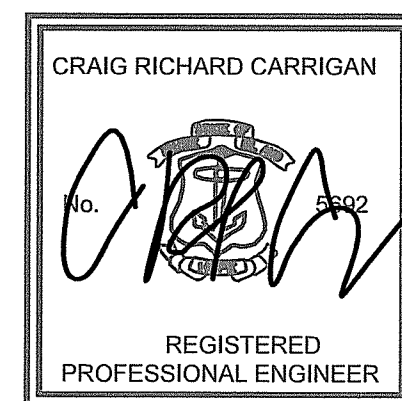
THE PRESERVE AT BOULDER HILLS, LLC
&
MTM DEVELOPMENT CORPORATION

87 KINGSTOWN ROAD
A.P. 6B, LOT 2
RICHMOND, RHODE ISLAND

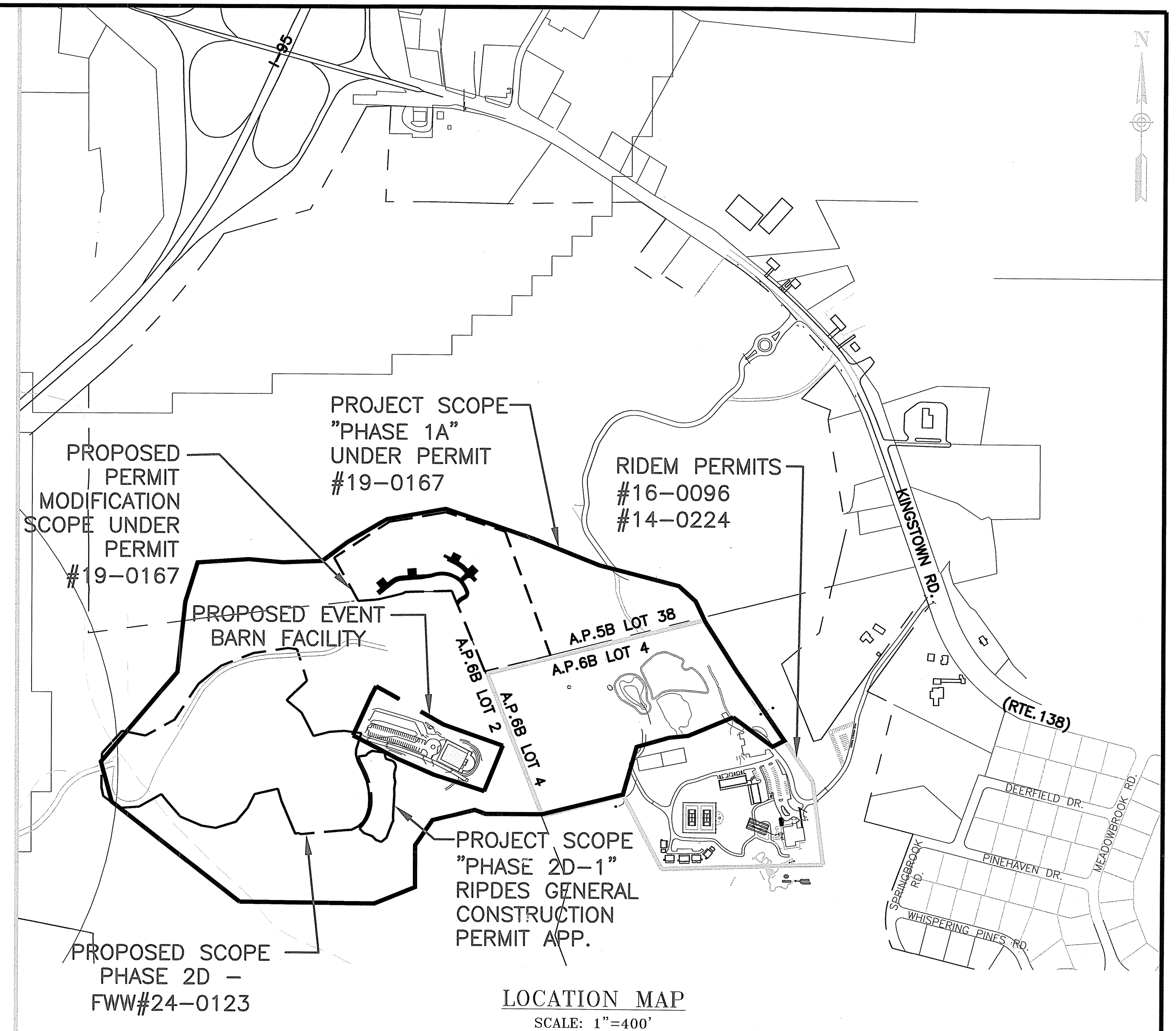
ISSUED FOR PERMITTING

PREPARED FOR
THE PRESERVE AT BOULDER HILLS, LLC

DATE: January 31, 2025



CARRIGAN ENGINEERING, INC.
CIVIL AND ENVIRONMENTAL ENGINEERING
86 BROOK FARM ROAD SOUTH
WAKEFIELD, RI 02879
PHONE: (401) 789-6865



LOCATION MAP
SCALE: 1"=400'

LIST OF DRAWINGS

1. TITLE SHEET
2. EXISTING CONDITIONS OVERALL PROJECT SCOPE PLAN (1"=150' Scale)
3. PROPOSED CONDITIONS OVERALL PROJECT SCOPE PLAN (1"=150' Scale)
4. EXISTING CONDITIONS PLAN - EVENT BARN FACILITY (1"=40' Scale)
5. PROPOSED CONDITIONS PLAN - EVENT BARN FACILITY (1"=40' Scale)
6. EVENT BARN FACILITY GRADING & UTILITY PLAN (1"=30' Scale)
7. SESC PLAN - 1 (1"=50' Scale)
8. DETAIL SHEET - 1
9. DETAIL SHEET - 2
10. CULTREC STORMWATER SYSTEM PLAN & DETAILS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 27 2025 FILE #: 25-0061
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Cynthia D. Wenzel

PROJECT DATA

ASSESSORS REFERENCE:

A.P. 6B LOT 2

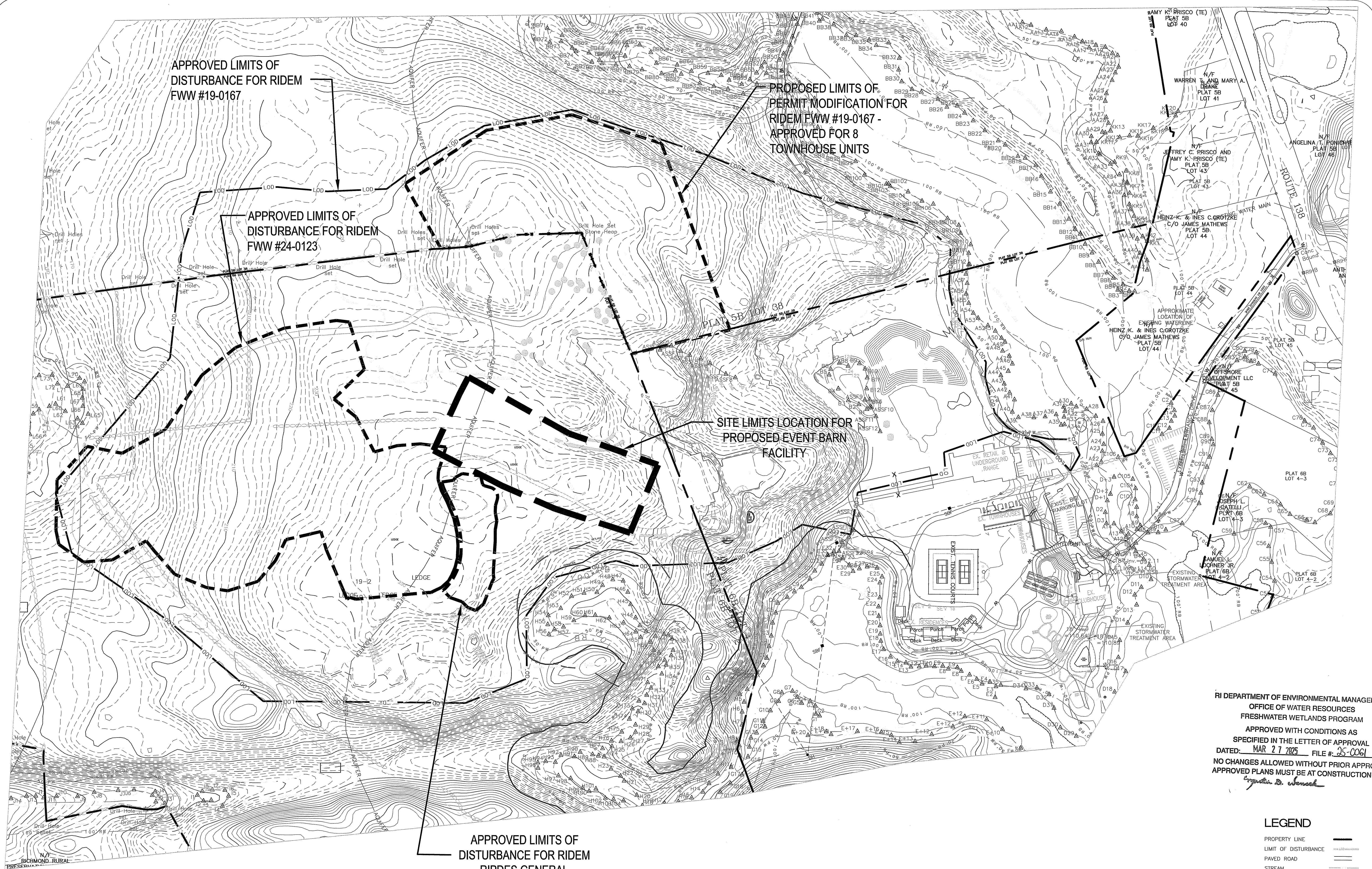
REFERENCES:

1. PROPERTY LINE INFORMATION OBTAINED FROM SURVEY PLANS TITLED "SV-1 EXISTING CONDITIONS SURVEY LIMITED CONTENT PERIMETER SURVEY PREPARED FOR THE PRESERVE AT BOULDER HILLS III, LLC KINGSTOWN ROAD PLAT 5B LOT 38 RICHMOND, RHODE ISLAND", "SV-4 EXISTING CONDITIONS LIMITED CONTENT PERIMETER SURVEY PROPERTY OF CASTLE RESIDENCES, LLC ROUTE 95 PLAT 6B LOT 2 RICHMOND, RHODE ISLAND", AND "SV-5 EXISTING CONDITIONS LIMITED CONTENT PERIMETER SURVEY PREPARED FOR THE PRESERVE AT BOULDER HILLS, LLC & MTM DEVELOPMENT PLAT 6B LOT 4 87 KINGSTOWN ROAD RICHMOND, RHODE ISLAND" ALL PLANS DATED APRIL 18, 2018 AND PREPARED BY CHERENZIA & ASSOCIATES, LTD.
2. EXISTING 2-FOOT CONTOURS OBTAINED FROM RIGIS LIDAR DATA.

GENERAL NOTES:

1. ALL PLANS AND IMPROVEMENTS CONFORM TO ALL EXISTING AND AMENDED STANDARDS OF THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS, BOARD OF REGISTRATION OF PROFESSIONAL ENGINEERS AND BOARD OF REGISTRATION OF LAND SURVEYORS.
2. ONLY PLANS STAMPED ISSUED FOR CONSTRUCTION SHALL BE USED FOR CONSTRUCTION.
3. THE LOCATION AND ELEVATION FOR ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY CROSSINGS OF PROPOSED UTILITIES AND EXISTING UTILITIES. ANY DISCREPANCIES IN THE LOCATION OF ANY UTILITY SHOWN OR ENCOUNTERED DURING CONSTRUCTION SHALL BE REPORTED TO MTM DEVELOPMENT CORPORATION, 87 KINGSTOWN RD, RICHMOND, RHODE ISLAND 02898; (401) 539-4653.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-800-344-7233) A MINIMUM OF 72 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
5. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.

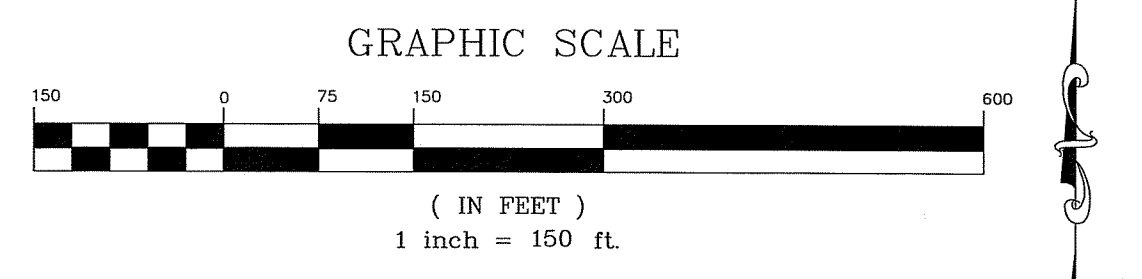
FEB 07 2025



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAR 27 2025 FILE # 25-C061
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEGEND

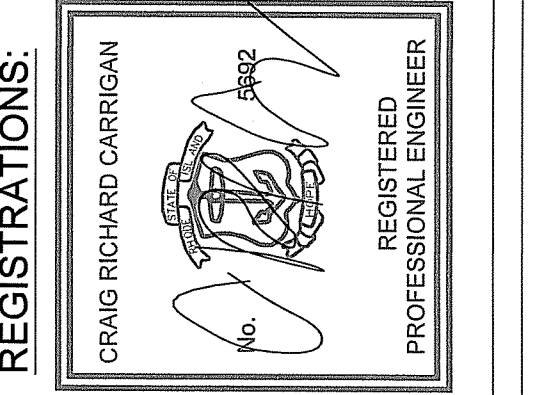
- PROPERTY LINE ————
- LIMIT OF DISTURBANCE - - - - -
- PAVED ROAD ————
- STREAM ————
- 100' RIVERBANK ————
- WETLAND EDGE - - - - -
- 50' PERIMETER WETLANDS - - - - -



TITLE:
 EXISTING CONDITIONS PROJECT SCOPE PLAN
 EVENT BARN FACILITY
 A.P. 6B, LOT 2
 87 KINGSTOWN ROAD
 RICHMOND, RHODE ISLAND
 PREPARED FOR: THE PRESERVE AT BOULDER HILLS LLC.
 SCALE: AS SHOWN DATE: 01/31/25 SHEET 2 OF 10

REVISIONS:

NO.	DATE	DESCRIPTION	BY

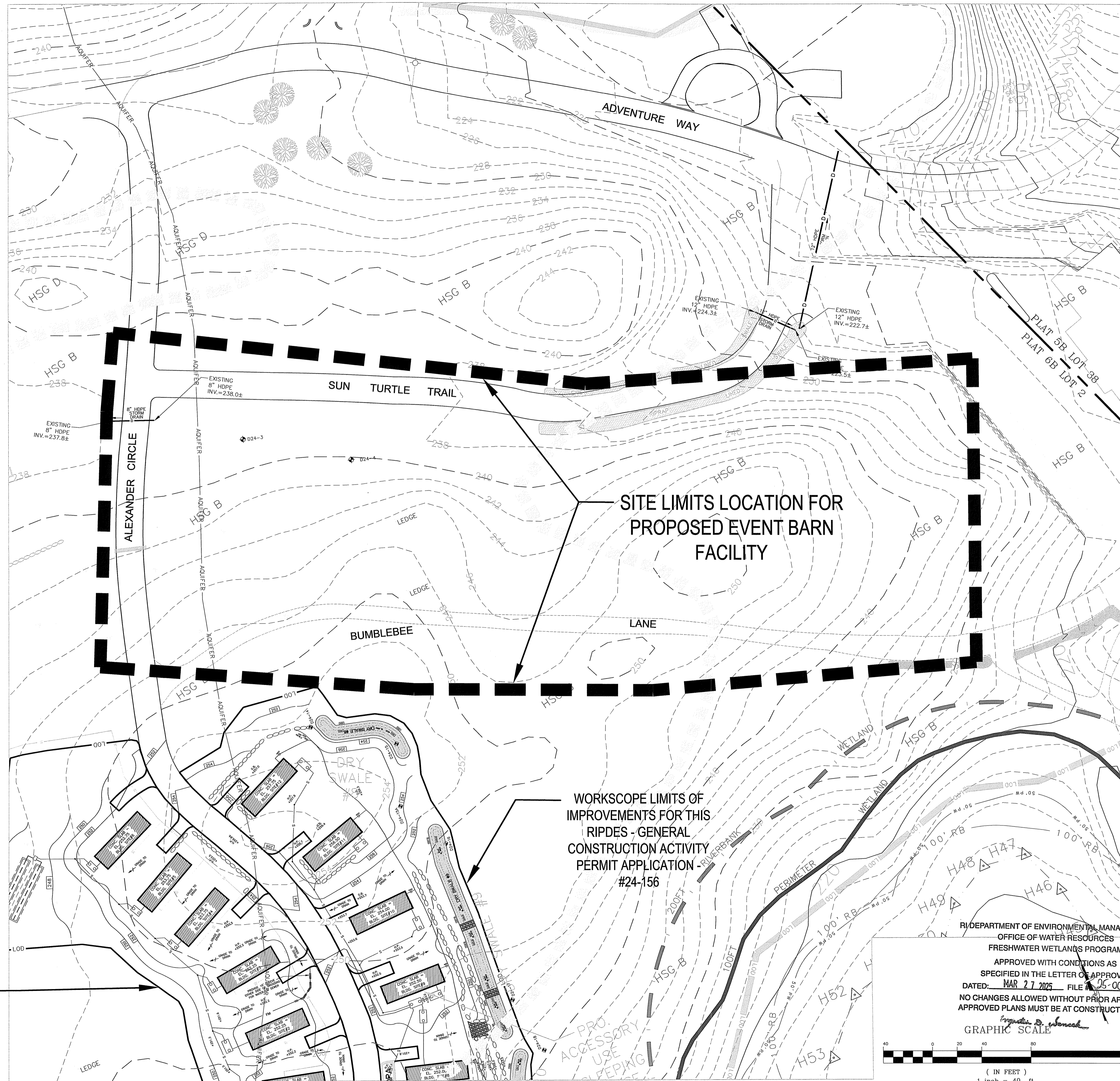


CARRIGAN ENGINEERING, INC.
 CIVIL AND ENVIRONMENTAL ENGINEERING
 86 BROOK FARM ROAD SOUTH
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 PHONE: (401) 789-6865

Environmental Management
 FEB - 7 2025
 Office of Water Resources

LEGEND

	EXIST	PROP
TOP/BOTTOM CURB ELEVATION	27.85 TC 27.13 BC	27.85 TC 27.13 BC
SPOT GRADE w/LEADER	21.25 X	21.25 X
SPOT GRADE	21.25 X	21.25 X
BORING LOCATION	⊕B-1	⊕B-1
TEST PIT LOCATION	⊕TP-1	⊕TP-1
MONITORING WELL	⊕MW-1	⊕MW-1
BENCH MARK	BM	BM
DRAIN MANHOLE	⊕DMH	⊕DMH
CATCH BASIN	CB	CB
DOUBLE CATCH BASIN	DCB	DCB
GUTTER INLET	G	G
FLARED END SECTION	FES	FES
DRAINAGE LINE	D	D
OVERHEAD WIRE	OHW	OHW
WATER LINE	W	W
GAS LINE	G	G
UNDERGROUND ELECTRIC	UE	UE
UNDERGROUND TELEPHONE	TU	TU
CABLE TV	CAV	CAV
SEWER MANHOLE	⊕SMH	⊕SMH
SEWER LINE	S	S
WATER GATE	WG	WG
TAPPING SLEEVE, VALVE, & BOX	TSV	TSV
FIRE HYDRANT	FH	FH
WATER METER	WM	WM
WELL	W	W
GAS GATE	GG	GG
ELECTRIC MANHOLE	⊕EMH	⊕EMH
ELECTRIC BOX	EB	EB
ELECTRIC METER	EM	EM
LIGHT POLE	LP	LP
TELEPHONE MANHOLE	⊕TMH	⊕TMH
UTILITY POLE	UP	UP
HAND HOLE	HH	HH
PULL BOX	PB	PB
PROPERTY LINE	PL	PL
LIMIT OF DISTURBANCE	LD	LD
EASEMENT	E	E
ZONING LINE	Z	Z
GRAVEL ROAD	GR	GR
PAVED ROAD	PR	PR
SAWCUT	SC	SC
EGGED OF VEGETATION	EV	EV
CHAIN LINK FENCE	CLF	CLF
STONE WALL	SW	SW
RETAINING WALL	RW	RW



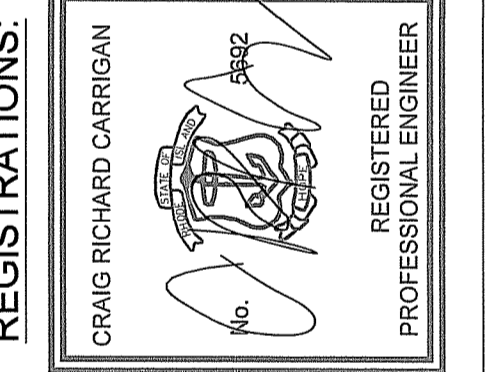
WORKSCOPE LIMITS OF IMPROVEMENTS FOR THIS CONSTRUCTION ACTIVITY FWW PERMIT APPLICATION - #24-0123

WORKSCOPE LIMITS OF IMPROVEMENTS FOR THIS CONSTRUCTION ACTIVITY PERMIT APPLICATION - #24-156

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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CARRIGAN ENGINEERING, INC.
GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

CARRIGAN ENGINEERING, INC.
CIVIL AND ENVIRONMENTAL ENGINEERING
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WAKEFIELD, RI 02879
PHONE: (401) 789-6865

Environmental Management
FEB 7 2025
Office of Water Resources



REGISTRATIONS:

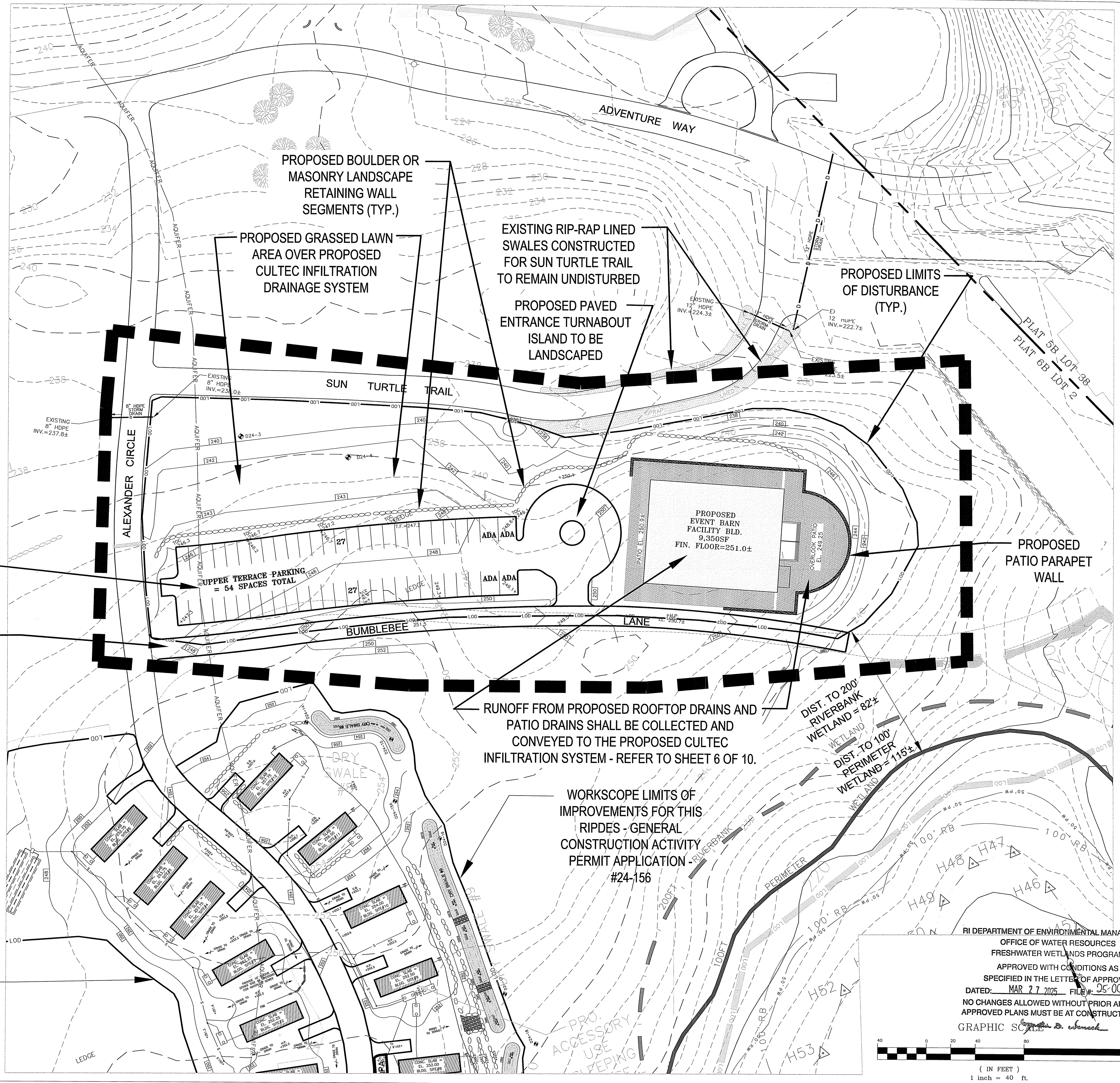
NO.	DATE	DESCRIPTION	BY

TITLE:
EXISTING CONDITIONS PLAN - SCALE 1"=40'
EVENT BARN FACILITY
A.P. 6B, LOT 2
87 KINGSTOWN ROAD
RICHMOND, RHODE ISLAND
PREPARED FOR: THE PRESERVE AT BOULDER HILLS LLC.
SCALE: AS SHOWN DATE: 01/31/25 SHEET 4 OF 10

JOB NO.

LEGEND

	EXIST	PROP
TOP/BOTTOM CURB ELEVATION	27.85 TC 27.15 BC	27.65 TC 27.15 BC
SPOT GRADE w/LEADER	21.25	21.25
SPOT GRADE	21.25	21.25
BORING LOCATION	⊕B-1	⊕B-1
TEST PIT LOCATION	⊕TP-1	⊕TP-1
MONITORING WELL	⊕MW-1	⊕MW-1
BENCH MARK	BM	BM
DRAIN MANHOLE	⊕DMH	⊕DMH
CATCH BASIN	⊕CB	⊕CB
DOUBLE CATCH BASIN	⊕DCB	⊕DCB
GUTTER INLET	⊕GI	⊕GI
FLARED END SECTION	FES	FES
DRAINAGE LINE	D	D
OVERHEAD WIRE	OW	OW
WATER LINE	W	W
GAS LINE	G	G
UNDERGROUND ELECTRIC	USE	USE
UNDERGROUND TELEPHONE	TEL	TEL
CABLE TV	CATV	CATV
SEWER MANHOLE	⊕SMH	⊕SMH
SEWER LINE	S	S
WATER GATE	⊕WG	⊕WG
TAPPING SLEEVE, VALVE, & BOX	TSV	TSV
FIRE HYDRANT	⊕FH	⊕FH
WATER METER	⊕WM	⊕WM
WELL	⊕W	⊕W
GAS GATE	⊕GG	⊕GG
ELECTRIC MANHOLE	⊕EMH	⊕EMH
ELECTRIC BOX	⊕EB	⊕EB
ELECTRIC METER	⊕EM	⊕EM
LIGHT POLE	⊕LP	⊕LP
TELEPHONE MANHOLE	⊕TMH	⊕TMH
UTILITY POLE	⊕UP	⊕UP
HAND HOLE	⊕HH	⊕HH
PULL BOX	⊕PB	⊕PB
PROPERTY LINE	---	---
LIMIT OF DISTURBANCE	---	---
EASEMENT	---	---
ZONING LINE	---	---
GRAVEL ROAD	---	---
PAVED ROAD	---	---
SAWCUT	---	---
EDGE OF VEGETATION	---	---
CHAIN LINK FENCE	---	---
STONE WALL	---	---
RETAINING WALL	---	---



PROPOSED PAVED PARKING AREA - 54 SPACES PROVIDED TO MEET MIN. ZONING REQUIRE.

EXISTING ALIGNMENT OF MILLINGS ROAD SURFACE FOR BUMBLEBEE LANE SHALL FOLLOW PROPOSED FINAL HORIZONTAL ALIGNMENT AS SHOWN

WORKSCOPE LIMITS OF IMPROVEMENTS FOR THIS CONSTRUCTION ACTIVITY FWW PERMIT APPLICATION - #24-0123

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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GRAPHIC SCALE
 Environmental Management
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(IN FEET)
 1 inch = 40 ft.

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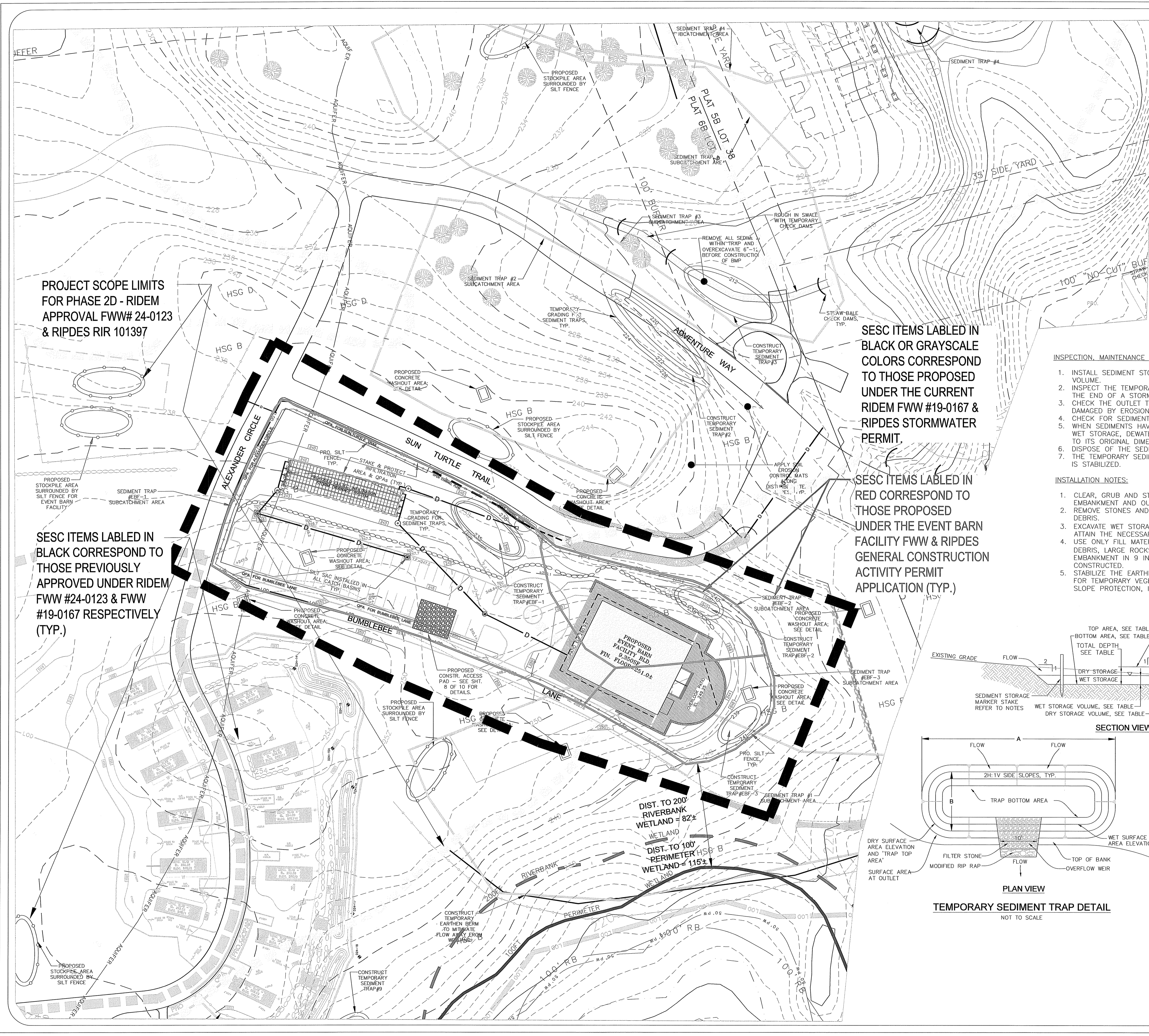
REGISTRATIONS:
 CRAIG RICHARD CARRIGAN
 REGISTERED PROFESSIONAL ENGINEER

REVISIONS:

NO.	DATE	DESCRIPTION	BY

TITLE:
 PROPOSED CONDITIONS PLAN - SCALE 1"=40'
EVENT BARN FACILITY
 A.P. 6B, LOT 2
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 PREPARED FOR: THE PRESERVE AT BOULDER HILLS LLC.
 SCALE: AS SHOWN DATE: 01/31/25 SHEET 5 OF 10

JOB NO.



PROJECT SCOPE LIMITS FOR PHASE 2D - RIDEM APPROVAL FWW# 24-0123 & RIPDES RIR 101397

SESC ITEMS LABELED IN BLACK CORRESPOND TO THOSE PREVIOUSLY APPROVED UNDER RIDEM FWW #24-0123 & FWW #19-0167 RESPECTIVELY (TYP.)

SESC ITEMS LABELED IN BLACK OR GRAYSCALE COLORS CORRESPOND TO THOSE PROPOSED UNDER THE CURRENT RIDEM FWW #19-0167 & RIPDES STORMWATER PERMIT.

SESC ITEMS LABELED IN RED CORRESPOND TO THOSE PROPOSED UNDER THE EVENT BARN FACILITY FWW & RIPDES GENERAL CONSTRUCTION ACTIVITY PERMIT APPLICATION (TYP.)

GENERAL NOTES:

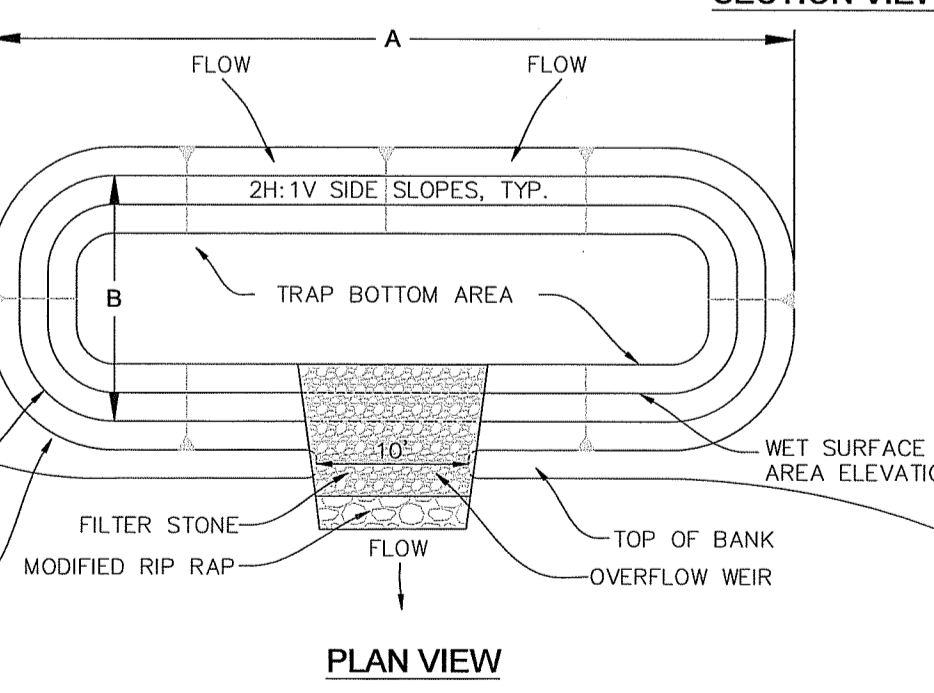
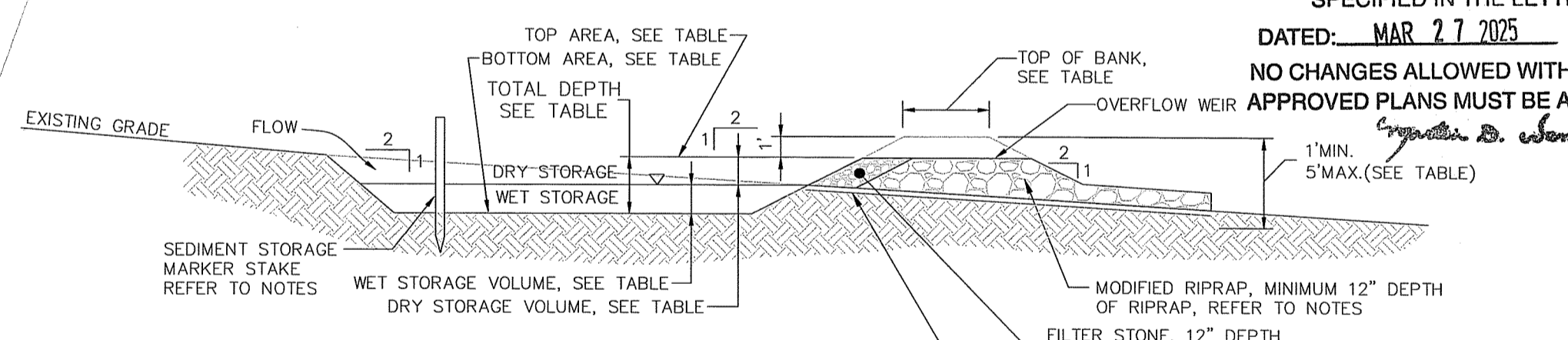
1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
2. THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
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 RIP RAP 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 FIVE FEET.
8. SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
9. MODIFIED RIP RAP SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2 AND BE R-4 GRADE RIPRAP.
10. FILTER STONE SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE 1 COLUMN V FILTER STONE.

INSPECTION, MAINTENANCE AND REMOVAL REQUIREMENTS:

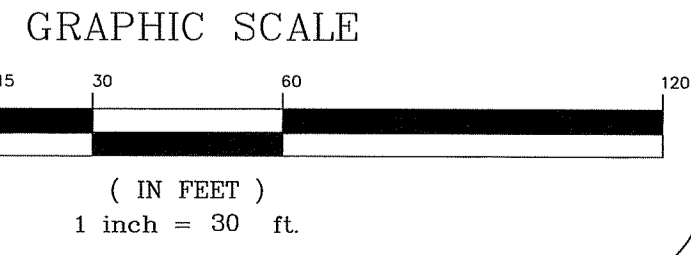
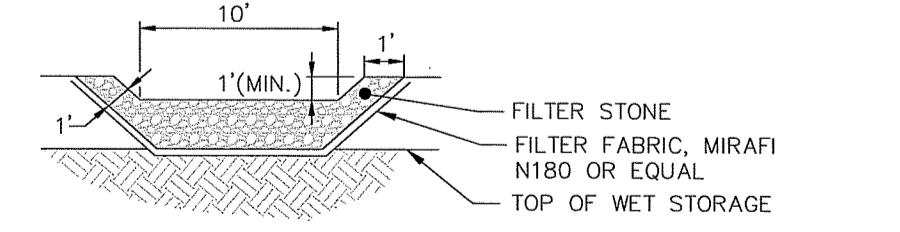
1. INSTALL SEDIMENT STORAGE STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND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

INSTALLATION NOTES:

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN 3 INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9 INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING METHODS FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



REQUIRED SEDIMENT TRAP VOLUME: 3,618 CU.FT. PER ACRE OF DISTURBED LAND	TRAP#EFB-1	TRAP#EFB-2	TRAP#EFB-3
SEDIMENT TRAP DATA:			
TOTAL DISTURBED AREA, AC	1.6	0.46	0.39
REQUIRED TRAP VOLUME, CF	5,789	1,664	1,411
LENGTH (A), FT	80	50	50
WIDTH (B), FT	30	20	20
WET STORAGE DEPTH, FT	1.5	1.0	1.0
DRY STORAGE DEPTH, FT	1.5	1.0	1.0
TOTAL DEPTH (WET/DRY), FT	3	2	2
TRAP BOTTOM AREA, SF	2,400	1,000	2,000
TRAP TOP AREA, SF	2,400	1,000	2,000
TOTAL VOLUME PROVIDED, CF	7,200	2,000	2,000



REVISIONS:

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Environmental Management
FEB - 7 2025
Office of Water Resources

TITLE: **SESC PLAN - 1**
EVENT BARN FACILITY
A.P. 6B, LOT 2
87 KINGSTOWN ROAD
RICHMOND, RHODE ISLAND
PREPARED FOR: THE PRESERVE AT BOULDER HILLS LLC.
SCALE: AS SHOWN DATE: 01/31/25 SHEET 7 OF 10

JOB NO.

GENERAL EROSION CONTROL NOTES:

- THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUG. 2013, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE 2013 STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION WEB PAGE. THESE SPECIFICATIONS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO.
- LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-800-344-7233) A MINIMUM OF 48 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY, BUT NOT LIMITED TO, THE STATE OF RHODE ISLAND, THE FEDERAL GOVERNMENT, LOCAL (TOWN/CITY) GOVERNMENT AND ALL INDIVIDUAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS. ALL MATERIAL FOR FILL SHALL BE CLEAN AND FREE OF MATTER WHICH COULD POLLUTE ANY DOWN STREAM WATERCOURSE.
- FILL MATERIAL SHALL BE COMPACTED IN ONE FOOT (MAXIMUM) LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR TEST).
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL AREAS NOT TO BE DEVELOPED THAT ARE COMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED BY TILLING THE TOP 12" OF SOIL.

EROSION CONTROL AND SOIL STABILIZATION PROGRAM:

- ALL STRAW BALES OR TEMPORARY PROTECTION SHALL REMAIN IN-PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND STANDARD SPECIFICATION M.20.01, AS AMENDED.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24-HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDED SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT	SEEDING DATE
CREEPIER RED FESCUE	70	APRIL 1 - JUNE 15
ASTORIA BENTGRASS	5	AUGUST 15 - OCT. 15
BIRDFOOT TREFOIL	15	
PERENNIAL RYEGRASS	10	
- APPLICATION RATE 100 LBS./ACRE
LIMING AND FERTILIZING AS REQUIRED TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.
- ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR SHALL BE REPAIRED AND/OR RESEEDED.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING. STOCKPILES OF TOPSOIL AND EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND STOCKPILE SHALL ALSO BE SEEDED AND/OR STABILIZED. THE STOCKPILES SHALL BE SURROUNDED BY STACKED STRAW BALES AND/OR SILT FENCE.
- ON SLOPES STEEPER THAN 30% MULCH APPLICATIONS SHALL BE TACKLED DOWN BY "CRIMPING" OR "TRACKING".
- TREES TO BE RETAINED SHALL BE FENCED OR ROPED OFF TO PROTECT THEM FROM CONSTRUCTION EQUIPMENT.
- ALL PROPOSED PLANTINGS MUST BE ACCOMPLISHED AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION, AND AT LEAST PRIOR TO ANY ON-SITE OCCUPANCY.
- PLANTINGS SHALL BE MAINTAINED BY THE PROPERTY OWNER TO ENSURE SURVIVAL.
- SHOULD ANY OR ALL OF THE PROPOSED PLANTS FAIL TO SURVIVE AT LEAST ONE (1) FULL GROWING SEASON FROM THE TIME THEY HAVE BEEN PLANTED, THE OWNER SHALL BE FULLY RESPONSIBLE FOR REPLACING AND MAINTAINING THE SAME PLANT SPECIES FOR ONE (1) ADDITIONAL GROWING SEASON.
- ALL DISTURBED AREAS MUST BE SEEDED OR PLANTED WITHIN THE CONSTRUCTION SEASON.
- TEMPORARY SEEDING MUST BE DONE WITHIN ONE (1) MONTH AFTER DISTURBANCE.
- ALL DISTURBED AREAS MUST BE PERMANENTLY SEEDED OR PLANTED BEFORE OCTOBER 1ST, IF NOT THEY MUST BE TEMPORARILY SEEDED. SLOPES CONSTRUCTED AT, OR STEEPER THAN, 15% SHALL HAVE TEMPORARY EROSION CONTROL MATTING UTILIZED AS A SUPPORTIVE METHOD IN ADDITION TO THE METHODS DESCRIBED ABOVE UNLESS IN THE CASE WHERE PERMANENT TURF REINFORCEMENT MATS ARE INSTALLED IMMEDIATELY UPON CONSTRUCTION OF THE SLOPE. IN NO CASE SHALL STEEP SLOPES BE LEFT UNPROTECTED.
- ALL PROPOSED INLETS AND OUTLETS SHALL BE PROTECTED WITH TURF REINFORCEMENT AS PROPOSED ON THE PLANS AND/OR STRAW BALE INLET AND OUTLET PROTECTION DEVICES. SEE DETAILS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE TOWN ZONING ORDINANCES, RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, AMENDED MARCH 2015 AS PREPARED BY THE RIDEM AND CRMC, AND RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK AS PREPARED BY RHODE ISLAND STATE CONSERVATION COMMITTEE, REVISED 2014, (AS REVISED).

- EXTREME CARE SHALL BE EXERCISED AS TO PREVENT ANY MATERIALS FROM ENTERING THE ROADWAYS, ROADWAY DRAINAGE SYSTEMS, ADJACENT PROPERTY, WETLANDS, PERMETER WETLANDS, AND RIVERBANK WETLANDS.
- STACKED STRAW BALES AND/OR SILT FENCE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN AND AS REQUIRED TO PREVENT SEDIMENTATION INTO PERMETER AND RIVERBANK WETLANDS.
- DEVELOPED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR MORE THAN 2 WEEKS OF TIME OR FOR THE INACTIVE WINTER SEASON.
- ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR STRAW MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK OR AS DIRECTED BY THE RESIDENT ENGINEER OR INSPECTOR, IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15. CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
- TEMPORARY TREATMENTS TO STABILIZE EXPOSED SOILS SHALL CONSIST OF STRAW OR FIBER MULCH OR PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSTOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK WHEN SOILS ARE EXPOSED FOR TWO WEEKS OR MORE OR AS ORDERED BY THE RESIDENT ENGINEER OR OWNER AT NO ADDITIONAL COST.
- STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 4,000 LBS./ACRE.
- ALL NEW STRAW BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE AS NEEDED.
- ADDITIONAL STRAW BALES/SILT FENCE OR OTHER TREATMENTS SHALL BE PROVIDED AS DIRECTED BY ENGINEER, RIDEM OR LOCAL REPRESENTATIVES AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL INSPECT THE SOIL EROSION CONTROL DEVICES AFTER EVERY RAIN STORM EVENT AND EVERY 7 DAYS (WHICH EVER COMES FIRST). ANY SOIL MIGRATION PAST THE DEVICES SHALL BE REMOVED AND THE SOIL EROSION CONTROL DEVICES SHALL BE RE-ESTABLISHED TO PREVENT SOIL EROSION. ALL ACCUMULATED SEDIMENT IN FRONT OF THE DEVICES SHALL BE REMOVED AFTER EVERY RAIN STORM EVENT. ALL DISTURBED SOIL AREAS SHALL BE PROTECTED AGAINST SOIL EROSION BY PLACEMENT OF STRAW BALES AND/OR SILT FENCE ON THE DOWN GRADIENT SIDE OF THE DISTURBED AREAS(S) SHOULD THE VOLUME AND/OR RATE OF STORMWATER RUNOFF BE TOO GREAT FOR A SINGLE DEVICE, THEN MULTIPLE DEVICES ARE REQUIRED SUCH AS SILT FENCE BACKED-UP WITH STRAW BALES. THESE ADDITIONAL DEVICES ARE NOT SHOWN ON THE PLAN BUT SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- AT THE END OF THE PROJECT CONSTRUCTION ALL SEDIMENT IN MANHOLE SUMPS AND WITHIN ANY DRAINAGE STRUCTURE OR BMP SHALL BE REMOVED.

SEED MIX:
ANNUAL RYE GRASS 1.5 LBS/1,000 SQ. FT.

- TEMPORARY TREATMENTS TO STABILIZE EXPOSED SOILS SHALL CONSIST OF STRAW OR FIBER MULCH OR PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSTOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK WHEN SOILS ARE EXPOSED FOR TWO WEEKS OR MORE OR AS ORDERED BY THE RESIDENT ENGINEER OR OWNER AT NO ADDITIONAL COST.
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- ADDITIONAL STRAW BALES/SILT FENCE OR OTHER TREATMENTS SHALL BE PROVIDED AS DIRECTED BY ENGINEER, RIDEM OR LOCAL REPRESENTATIVES AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL INSPECT THE SOIL EROSION CONTROL DEVICES AFTER EVERY RAIN STORM EVENT AND EVERY 7 DAYS (WHICH EVER COMES FIRST). ANY SOIL MIGRATION PAST THE DEVICES SHALL BE REMOVED AND THE SOIL EROSION CONTROL DEVICES SHALL BE RE-ESTABLISHED TO PREVENT SOIL EROSION. ALL ACCUMULATED SEDIMENT IN FRONT OF THE DEVICES SHALL BE REMOVED AFTER EVERY RAIN STORM EVENT. ALL DISTURBED SOIL AREAS SHALL BE PROTECTED AGAINST SOIL EROSION BY PLACEMENT OF STRAW BALES AND/OR SILT FENCE ON THE DOWN GRADIENT SIDE OF THE DISTURBED AREAS(S) SHOULD THE VOLUME AND/OR RATE OF STORMWATER RUNOFF BE TOO GREAT FOR A SINGLE DEVICE, THEN MULTIPLE DEVICES ARE REQUIRED SUCH AS SILT FENCE BACKED-UP WITH STRAW BALES. THESE ADDITIONAL DEVICES ARE NOT SHOWN ON THE PLAN BUT SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- AT THE END OF THE PROJECT CONSTRUCTION ALL SEDIMENT IN MANHOLE SUMPS AND WITHIN ANY DRAINAGE STRUCTURE OR BMP SHALL BE REMOVED.

SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES:

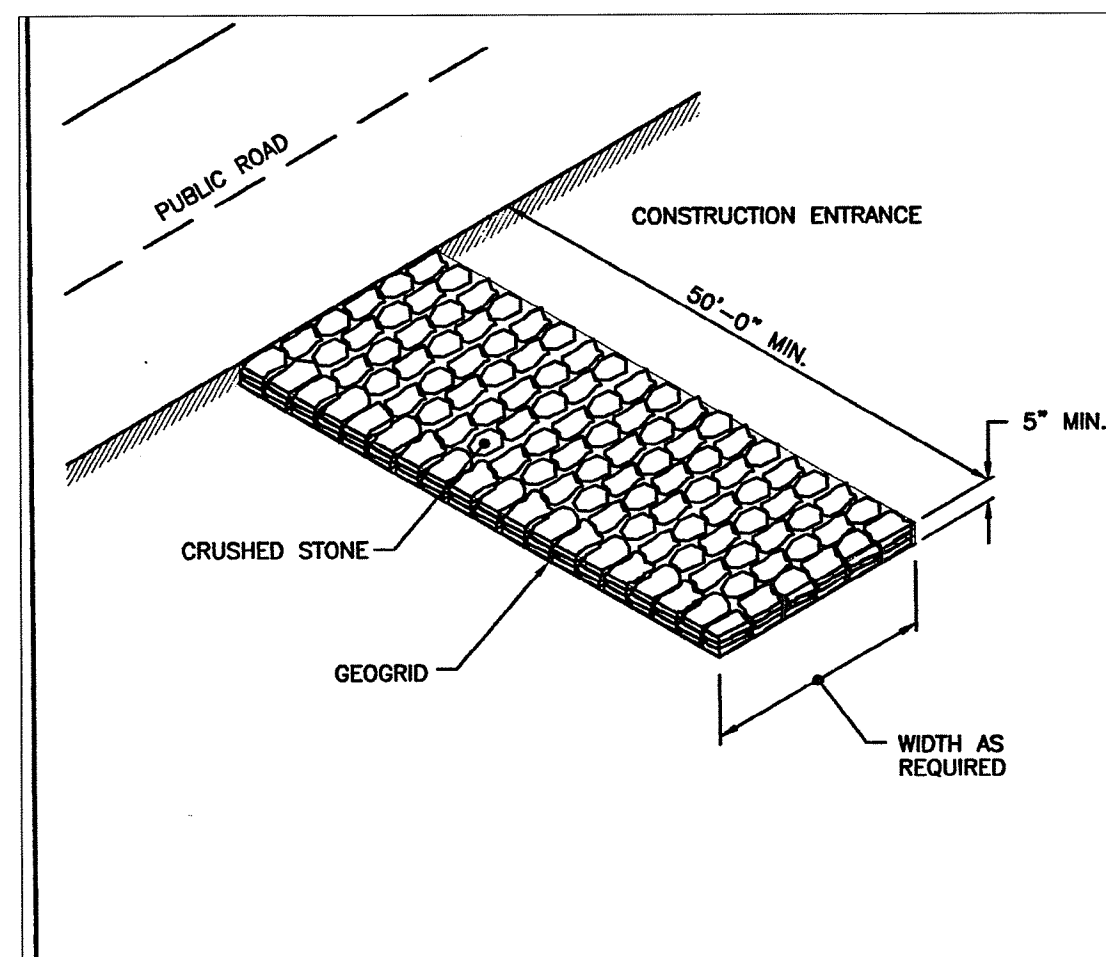
- CONTRACTOR TO REFER TO RIDEM RIPES SOIL EROSION AND SEDIMENT CONTROL (SESC) REPORT AS WELL AS THESE DRAWINGS.
- INSTALL SEDIMENTATION PROTECTION DEVICES IN EXISTING CATCHBASINS AND INLET STRUCTURES.
- IDENTIFY, STAKE LIMITS AND PROTECT ALL OPAs, DRY SWALE & BMPs EXISTING AND PROPOSED.
- SURVEY AND STAKE LIMIT OF DISTURBANCE FOR PLACEMENT OF SEDIMENTATION CONTROL DEVICES.
- PLACE PERIMETER SEDIMENTATION CONTROL DEVICES. SEE DETAILS. IN NO CASE SHALL THE LIMIT OF WORK EXTEND BEYOND THE SEDIMENTATION CONTROL DEVICES.
- CONSTRUCT CONSTRUCTION ENTRANCE DEVICES LOCATED FOR PROPOSED EVENT BARN FACILITY SITE, SEE DETAIL.
- CLEAR AND GRUB AREA WITHIN THE LIMIT OF DISTURBANCE.
- CONSTRUCT TEMPORARY SEDIMENT TRAPS.
- CLEAR AND ROUGH GRADE ROADS, PARKING LOT AREAS AND BUILDING SITES.
- INSTALL AND COMPACT GRAVEL BASE COURSE FOR ROADS, BUILDING PAD, PATIO AREAS AND PARKING FACILITIES.
- EXCAVATE AND POUR BUILDING FOUNDATION.
- CONSTRUCT UTILITIES (SEWER, OWTS, WATER, DRAINAGE, UG ELECTRIC AND COMMUNICATIONS, ETC.).
- 11.1. ENSURE THAT DRAIN MANHOLE GRATES ARE ABOVE GRADE TO ENSURE NO RUNOFF ENTERS INTO DRAINAGE SYSTEM.
- INSTALL BITUMINOUS CONCRETE BASE COURSE.
- FINISH REMAINDER OF CONSTRUCTION AND PAVE BITUMINOUS CONCRETE SURFACE COURSE.
- REMOVE TEMPORARY SOIL EROSION DEVICES.
- CLEAN OUT ALL DRAINAGE BASINS AND STRUCTURES AS NEEDED. REMOVE AND DISPOSE ALL ACCUMULATED SEDIMENT IN A SUITABLE AREA.

STORMWATER NOTES:

- REFERENCE IS MADE TO APPENDIX G 'POLLUTION PREVENTION AND SOURCE CONTROLS' OF THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, AMENDED 2015. THIS DOCUMENT SHALL BE REFERENCED WHEN IMPLEMENTING THE POLLUTION PREVENTION TECHNIQUES. A BRIEF SUMMARY OF THE TECHNIQUES IS PROVIDED BELOW, REFER TO THE ABOVE REFERENCE FOR ALL TECHNIQUES TO BE IMPLEMENTED.
- SOLID WASTE CONTAINMENT:**
 - OWNER TO PROVIDE TRASH CONTAINER. CONTAINER TO HAVE A COVER TO PREVENT TRASH FROM BLOWING OUT.
 - SWEEP STREET/PARKING AREA ANNUALLY.
- HAZARDOUS MATERIALS CONTAINMENT:**
 - CONTRACTOR TO STORE ALL HAZARDOUS MATERIALS INSIDE STORAGE LOCKERS OR OTHER APPROVED METHODS WHICH HAVE SECONDARY CONTAINMENT SYSTEMS.
 - SECONDARY CONTAINMENT MUST BE INCLUDED WHEREVER SPILLS MIGHT OCCUR (E.G. FUELING AND HAZARDOUS MATERIAL TRANSFER AND LOADING AREAS).
- ROADS AND PARKING AREA MANAGEMENT:**
 - SWEEP STREET/PARKING AREA ANNUALLY.
 - USE DEICING CHEMICALS AND SAND JUDICIOUSLY SINCE THEY CAUSE WATER QUALITY PROBLEMS. PROVIDE AND SPREAD IN ACCORDANCE WITH APPENDIX G RECOMMENDATIONS.
 - PLOW SNOW AND STORE ACCUMULATED SNOW PILES AWAY FROM SAND FILTER SYSTEM AND SEDIMENT FOREBAY.
 - DEBRIS SHOULD BE CLEANED FROM THE SITE PRIOR USING THE SITE FOR SNOW DISPOSAL.
 - DEBRIS SHOULD BE CLEARED FROM THE SITE AND PROPERLY DISPOSED OF AT THE END OF THE SNOW SEASON.
 - ONLY USE ASPHALT BASED SEALANTS WHEN SEALING THE PAVEMENTS. DO NOT USE COAL-TAR BASED SEALANTS SINCE THESE ARE MORE TOXIC.
- SEPTIC SYSTEM:**
 - SEPTIC SYSTEMS COMPONENTS ARE PROPOSED. MAINTENANCE REQUIREMENTS TO FOLLOW CURRENT OWTS REGULATIONS.
- LAWN, GARDEN, AND LANDSCAPE MANAGEMENT:**
 - LAWN CONVERSION** - REDUCE THE AMOUNT OF LAWN BY REPLANTING LAWN WITH GARDEN BEDS CONTAINING FLOWERS/SHRUBS. LAWNS REQUIRE MORE MAINTENANCE THAN FLOWER BEDS.
 - SOIL BUILDING** - MAINTAIN A HEALTHY LAWN BY TESTING SOIL FOR pH, FERTILITY, COMPACTION, TEXTURE, AND EARTH WORM CONTENT. GRASS SELECTION - SELECT DROUGHT TOLERANT GRASS SPECIES. REFER TO APPENDIX G FOR ADDITIONAL INFORMATION.
 - MOWING AND THATCH MANAGEMENT** - KEEP GRASS HEIGHT HIGH SUCH AS 2 TO 3 INCHES IN HEIGHT. THIS WILL REDUCE WEED GROWTH.
 - FERTILIZATION** - MINIMIZE FERTILIZATION. FERTILIZE NO MORE THAN TWICE A YEAR. APPLY CAREFULLY SO FERTILIZER DOES NOT SPREAD ON IMPERVIOUS SURFACES. REFRAIN FROM THE USE OF PHOSPHATE BASED FERTILIZERS. REFER TO APPENDIX G FOR ADDITIONAL INFORMATION.
 - WEED MANAGEMENT** - NEVER USE CHEMICAL HERBICIDES TO ELIMINATE OR CONTROL WEEDS. OWNER SHALL REMOVE WEEDS BY PULLING OR DIGGING OUT. REFER TO APPENDIX G FOR ADDITIONAL INFORMATION.
 - PEST MANAGEMENT** - LIMIT PESTICIDE USE. CHOOSE PESTICIDES THAT POSE THE LEAST RISK TO HUMAN HEALTH AND THE ENVIRONMENT. REFER TO APPENDIX G FOR ADDITIONAL INFORMATION.
 - SENSIBLE IRRIGATION** - WATER NO MORE THAN 1" PER WEEK. USE DROUGHT-RESISTANT GRASSES. CUT GRASS AT 2-3 INCHES.

SEDIMENTATION CONTROL PROGRAM:

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUN-OFF FLOW DURING STORMS.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
- CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECT TO STORMWATER FLOWAGE.
- ADDITIONAL STRAW BALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- SEDIMENTATION TRAPS SHALL BE PROVIDED AT ALL DRAINAGE STRUCTURES DURING CONSTRUCTION (SILT SACS, STRAW BALES, TEMPORARY DITCHES, ETC).
- EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THE SITE PRIOR TO THE START OF CONSTRUCTION AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED INCLUDING:
 - THE INSTALLATION OF AN EROSION CONTROL FENCE IN ALL LOCATIONS SHOWN ON THE APPROVED SITE PLANS AND WHERE OTHERWISE NECESSARY TO PREVENT SEDIMENTS FROM ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
 - ALL DISTURBED AREAS ARE TO BE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER PRIOR TO THE COMPLETION OF THE PROJECT. AREAS EXPOSED FOR EXTENDED PERIODS ARE TO BE COMPLETELY COVERED WITH SPREAD STRAW MULCH.
 - CATCH BASINS WILL BE PROTECTED WITH SILT SACS & STRAW BALES. FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED. SUMPS ARE TO BE CLEANED IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
 - OUTFALLS ARE TO BE PROTECTED BY STRAW BALES FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH APPROVED GROUND COVER.
 - ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
- UPON COMPLETION OF CONSTRUCTION OF SITE IMPROVEMENTS AND THE STORMWATER DRAINAGE SYSTEM, ALL CATCH BASINS AND STORM DRAIN PIPING SHALL BE CLEANED OF SEDIMENT. SEDIMENT FOREBAY AND SAND FILTER SHALL BE CLEANED OF SEDIMENT TO THE DESIGN GRADES INDICATED.
- AT NO TIME DURING CONSTRUCTION SHALL THE SUBGRADE OF THE SITE BE SUCH THAT SURFACE RUNOFF WILL BE PERMITTED TO DIRECTLY ENTER ANY DRAINAGE STRUCTURE. A TEMPORARY DEPRESSED AREA AROUND THE STRUCTURE SHALL BE INCORPORATED AS A SEDIMENTATION TRAP. THE MOUTH OF THE TRAP SHALL BE LINED WITH STRAW BALES AROUND THE COMPLETE PERIMETER. DURING ALL PRELIMINARY STAGES, THE TOP OF THE STRUCTURE SHALL ALWAYS BE HIGHER THAN THE SUBGRADE.
- STRAW BALE EROSION CHECKS SHALL BE MAINTAINED AROUND ALL CATCH BASINS UNTIL ALL UPSTREAM DISTURBED AREAS ARE STABILIZED BY PAVEMENT OR VEGETATION.
- ALL COMPONENTS OF THE DRAINAGE SYSTEM MUST BE CLEANED OF SEDIMENT BY THE APPLICANT OR HIS REPRESENTATIVE IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED.
- INSPECT TEMPORARY DIVERSIONS AND THEIR COMPONENTS ONCE A WEEK AND AFTER EVERY RAINFALL. DAMAGE CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY SHOULD BE REPAIRED BEFORE THE END OF EACH WORKING DAY.
- CHECK DAMS SHALL BE INSTALLED EVERY 300 FEET FOR SLOPES OF 1% OR LESS, EVERY 200 FEET FOR SLOPES OF 2%, EVERY 150 FEET FOR SLOPES OF 3% TO 5%, AND EVERY 100 FEET FOR SLOPES OF 5% OR GREATER.
- CHECK DAMS SHALL BE INSTALLED EVERY 20 FEET ALONG THE PROPOSED SWALE.
- SEDIMENTS SHOULD BE REMOVED FROM THE CHECK DAM WHEN IT REACHES ONE-HALF THE DAM HEIGHT.



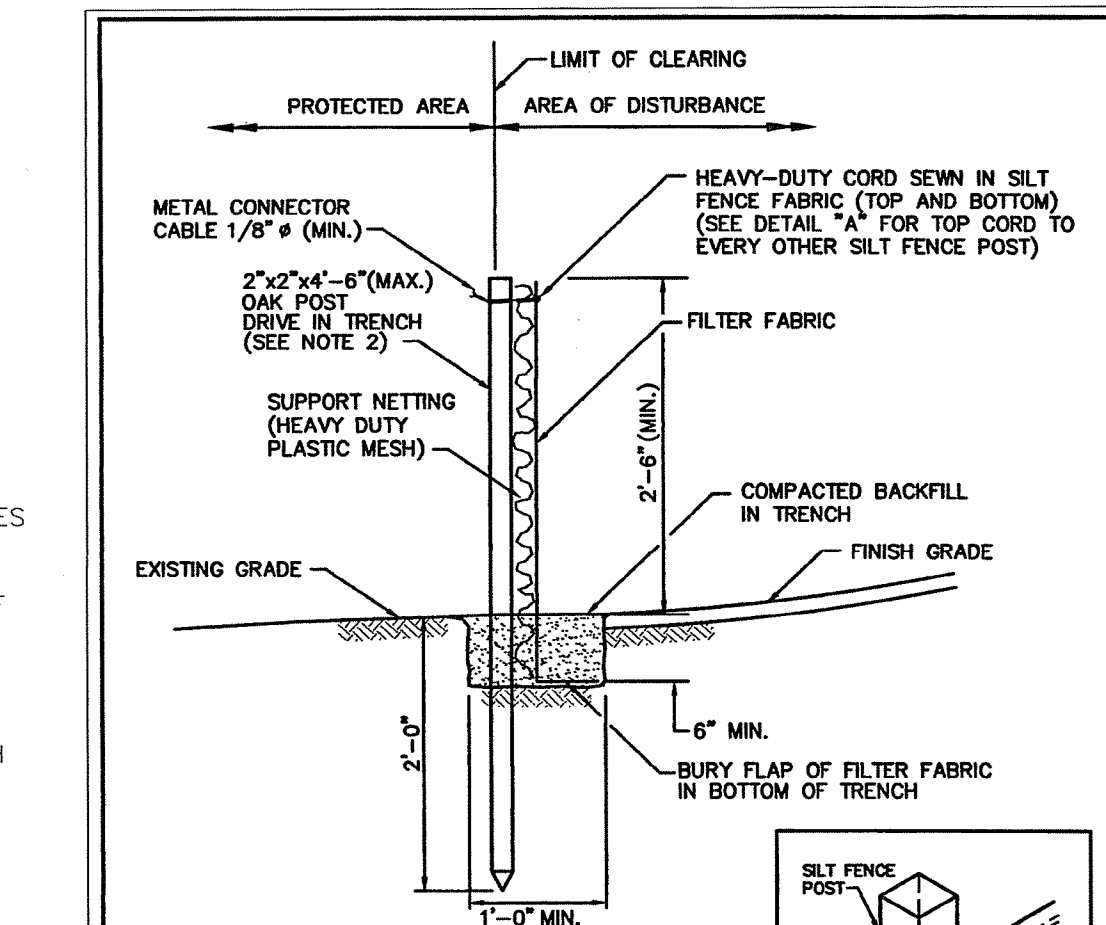
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CONSTRUCTION ACCESS

NO. BY DATE

1. JUNE 15, 1998

R.I. STANDARD 9.9.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

SILT FENCE DETAIL

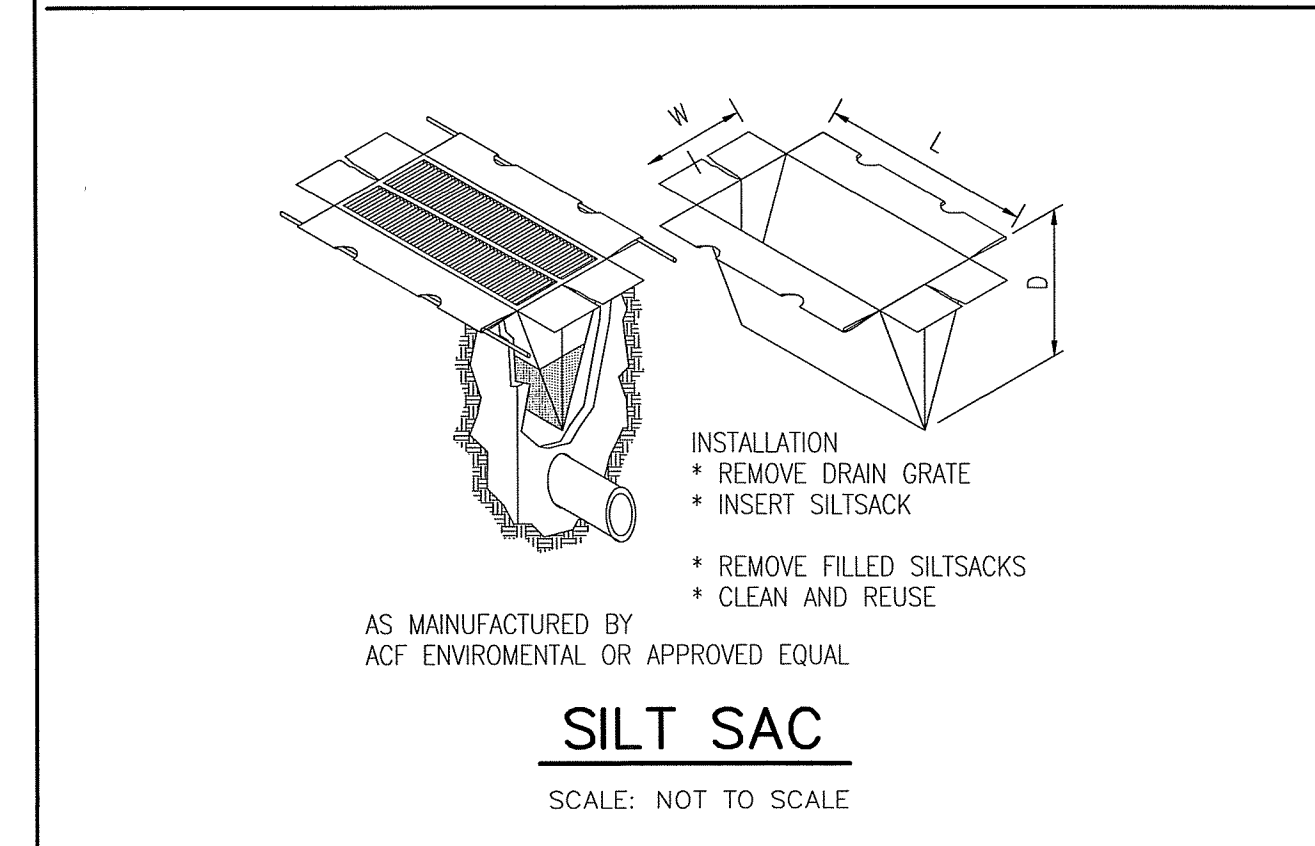
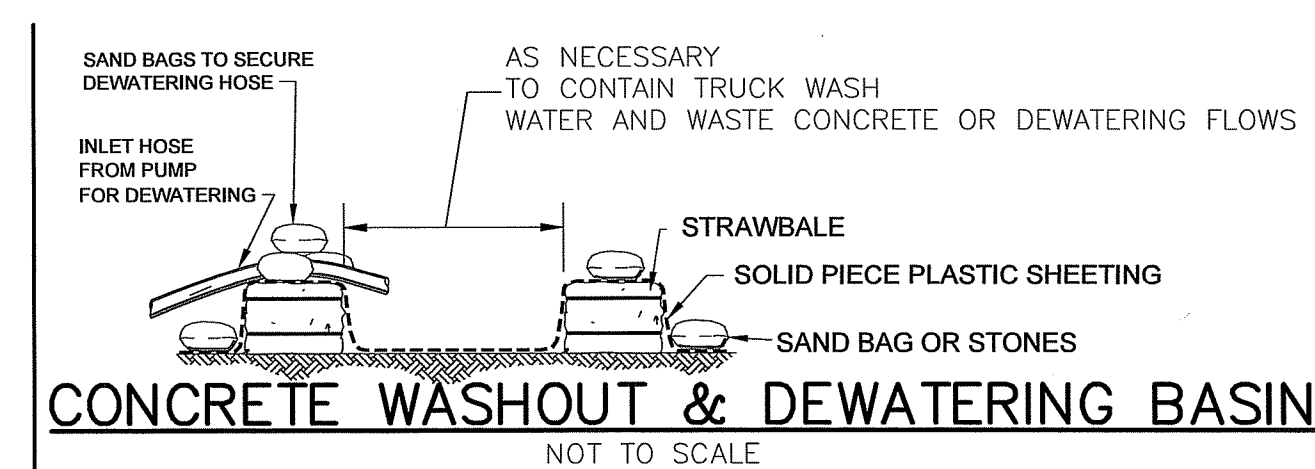
NO. BY DATE

1. JUNE 15, 1998

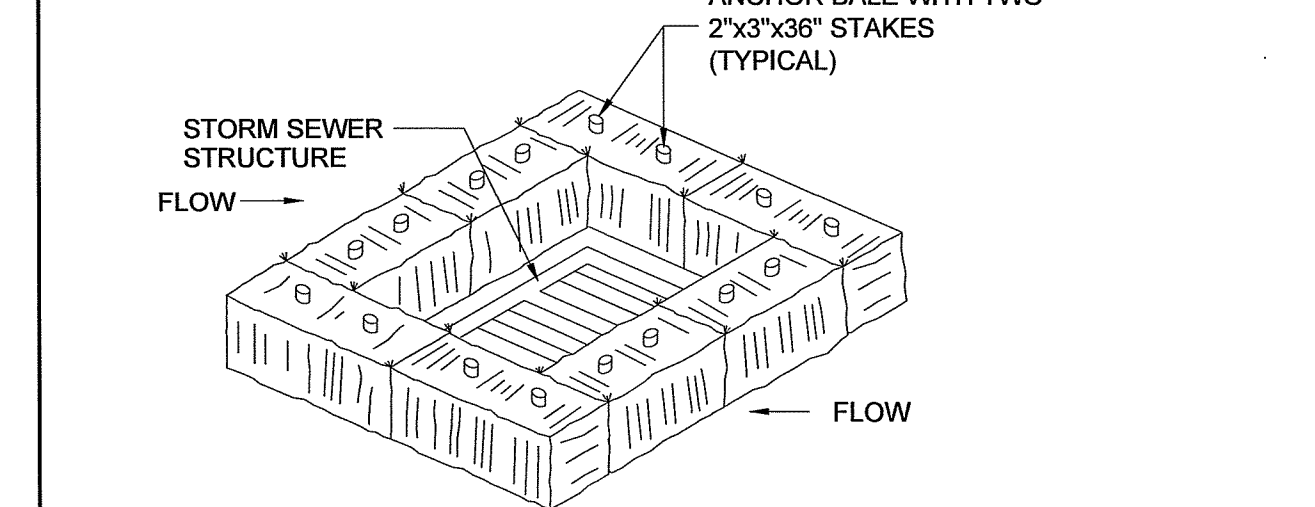
R.I. STANDARD 9.2.0

TEST HOLE DATA FOR: CULTEC INFILTRATION SYSTEM

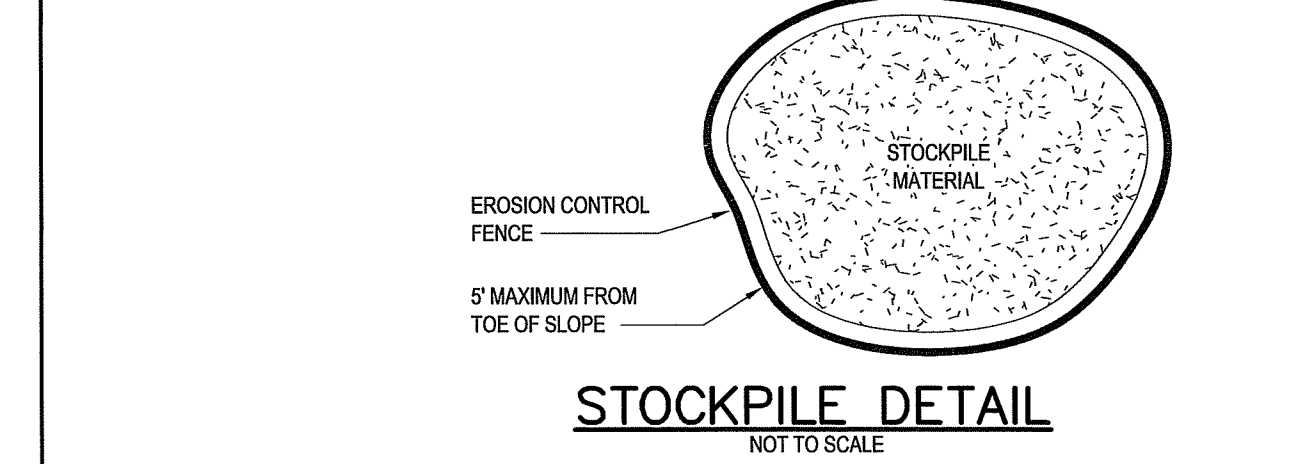
TH#	DATE	SOIL DATA	SOIL CAT.	SHWT DEPTH	TOTAL DEPTH
D24-3	5/23/2024	Ap 0-4" sl	3		
		Bw 4"-22" sl	3	96"+	96"+
		C 22"-74" sil	7	(8.0)+	(8.0)+
		2C 74"-96"+ gr/c, ls	1m		
D24-4	5/23/2024	Ap 0-5" sl	3		
		Bw 5"-33" sl	3	96"+	96"+
		2C 33"-96"+ gr, ls	1m	(8.0)+	(8.0)+



NOTE:
CATCH BASIN GRATE SHALL INITIALLY BE SET A MINIMUM OF 6" HIGHER THAN SURROUNDING GRADE TO ALLOW FOR SEDIMENTATION. AFTER VEGETATIVE COVER HAS BEEN ESTABLISHED, FINAL GRADE AROUND CATCHBASIN SHALL BE RESTORED TO DESIGN ELEVATION.



STRAW BALE CATCH BASIN PROTECTION



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 27 2025 FILE #: 25-004
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christopher D. Sobonack

DETAILS SHEET - 1
EVENT BARN FACILITY
A.P. 6B, LOT 2
87 KINGSTOWN ROAD
RICHMOND, RHODE ISLAND
PREPARED FOR: THE PRESERVE AT BOULDER HILLS LLC.
SCALE: AS SHOWN DATE: 01/31/25 SHEET 8 OF 10

TITLE:

NO.	DATE	DESCRIPTION	BY

REGISTRATIONS:

CRAIG RICHARD CARRIGAN REGISTERED PROFESSIONAL ENGINEER

JOB NO.

CARRIGAN ENGINEERING, INC.
CIVIL AND ENVIRONMENTAL ENGINEERING
86 BROOK FARM ROAD SOUTH
WAKEFIELD, RI 02879
PHONE: (401) 789-6865

Environmental Management
FEB - 7 2025
Office of Water Resources

EVENT BARN FACILITY AT THE PRESERVE

RICHMOND, RI, USA

DRAWING INDEX	
TITLE	SHEET NO.
COVER SHEET	1 OF 4
SYSTEM LAYOUT SHEET	2 OF 4
SYSTEM OVERLAY SHEETS	3 OF 4
R-902HD DETAIL SHEET	4 OF 4

PROJECT INFORMATION					
PROJECT NO.					
CULTEC SALES REP.					
CULTEC PROJECT SUPERVISOR					
ENGINEER OF RECORD					
ITERATION	DATE	BY	COMMENTS	FOR SHEET REFERENCE	DATE
00					
REVISIONS					

CULTEC
Subsurface Stormwater Management Systems
P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com

NOTE: THESE SHOP DRAWINGS MAY CONTAIN COMPONENTS INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS, STORM PIPES AND FITTINGS, MANFOLDS, CASTINGS AND OTHER NECESSARY APPURTENANCES THAT MAY NOT BE SUPPLIED BY CULTEC, INC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUPPLIER TO CONFIRM WITH CULTEC THE MATERIALS PROVIDED.

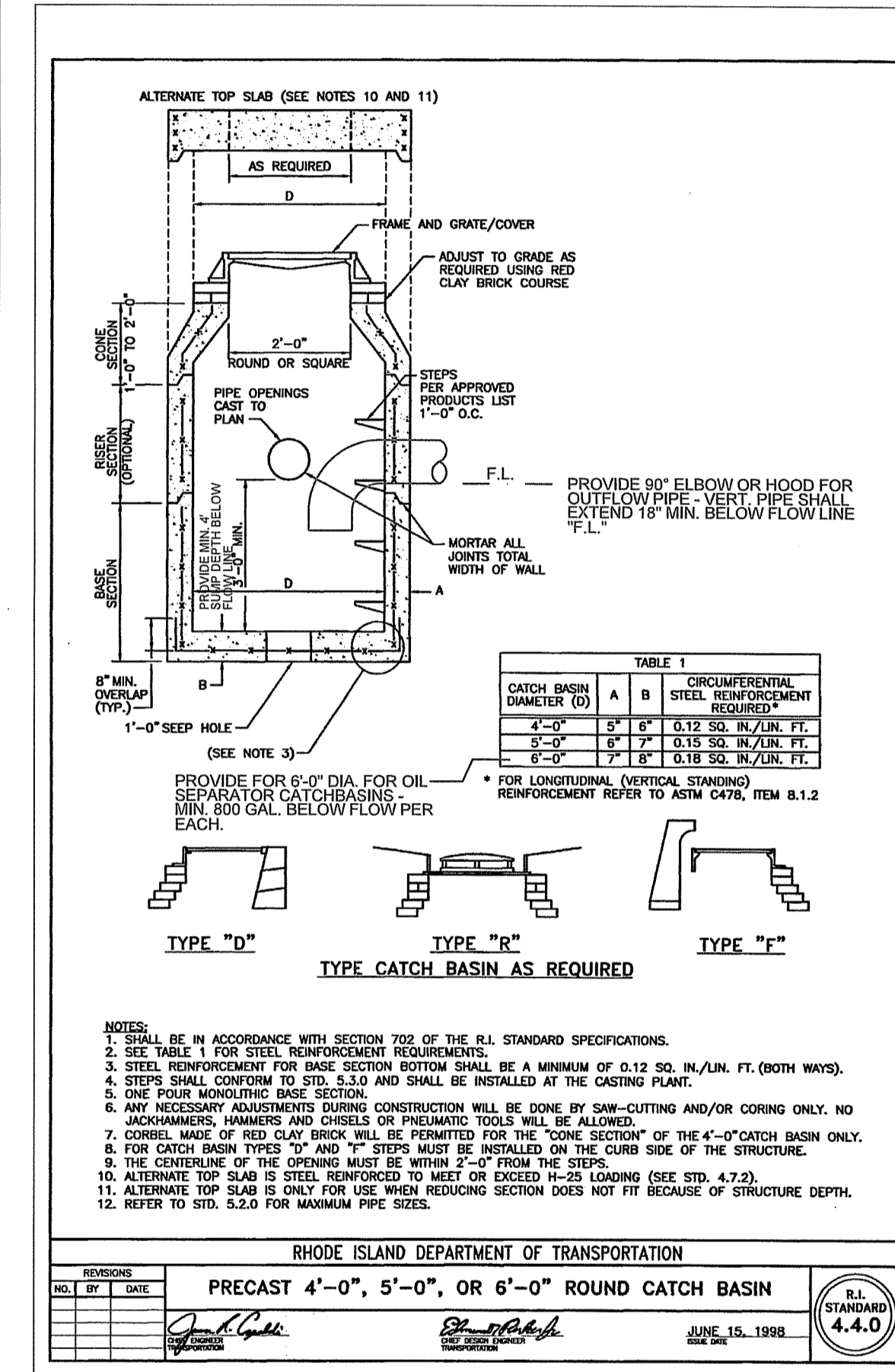
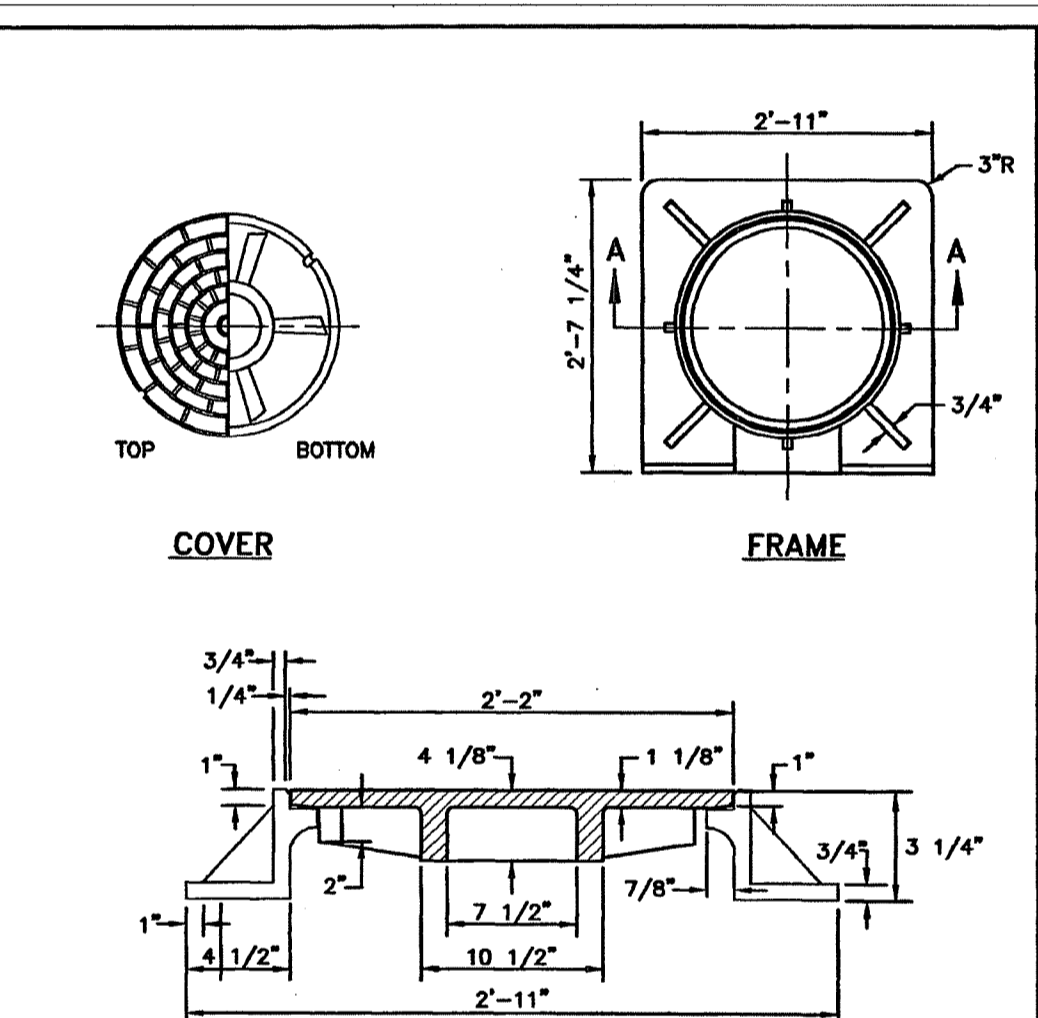
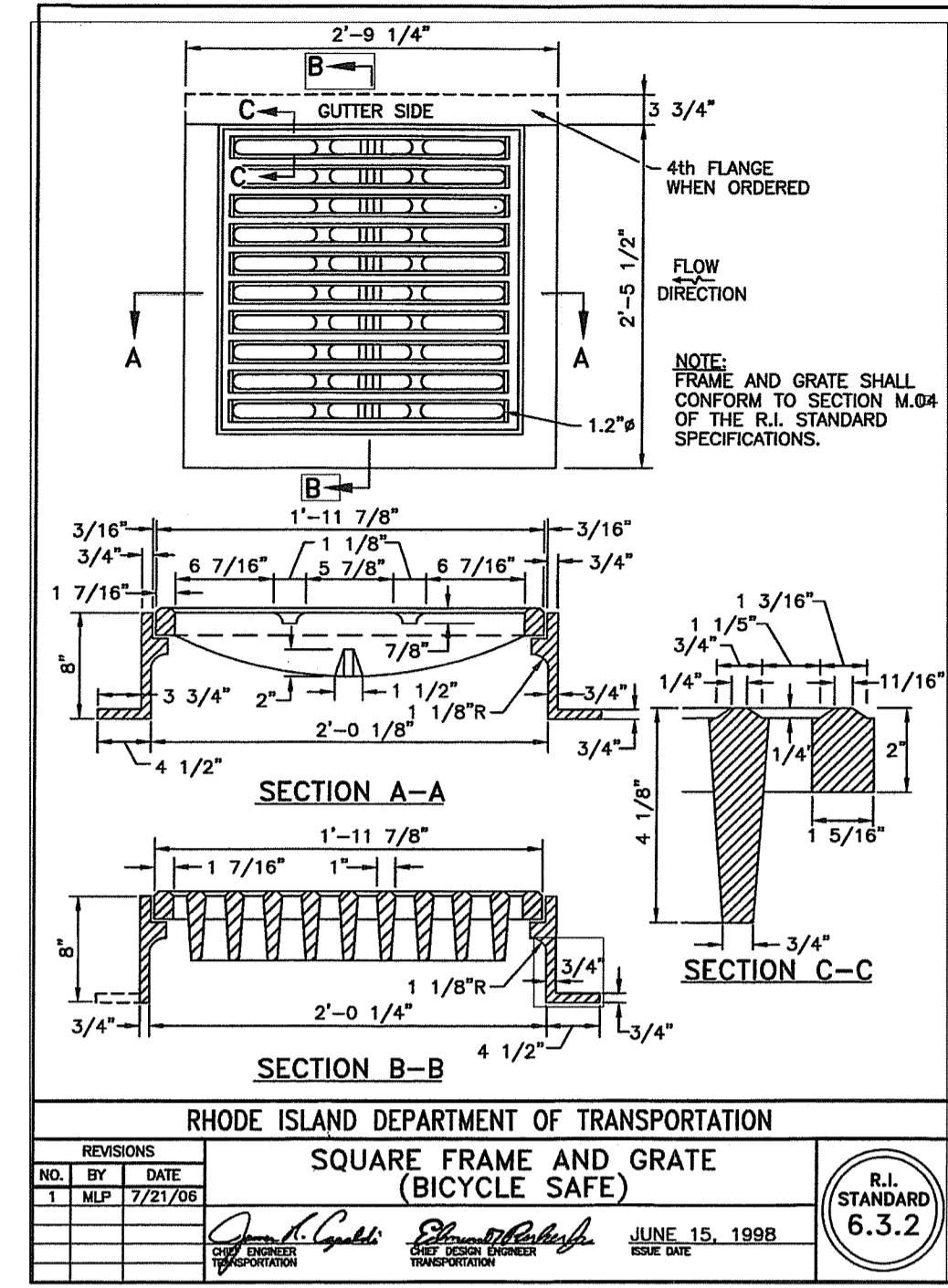
BEFORE YOU BEGIN - REQUIRED MATERIALS AND EQUIPMENT

- PROPER GEOTECHNICAL SOIL EVALUATION BY A QUALIFIED ENGINEER OR SOIL SCIENTIST TO DETERMINE SUITABILITY OF STRUCTURAL INSTALLATION
- OSHA COMPLIANCE
- CULTEC WARNING TAPE, OR EQUIVALENT
- ASSURANCES FROM LOCAL UTILITIES THAT NO UNDERGROUND GAS, ELECTRICAL OR OTHER POTENTIALLY DANGEROUS PIPELINES OR CONDUITS ARE ALREADY BURIED AT THE SITE
- ACCEPTABLE 1-2 INCH (25-51 MM) WASHED, CRUSHED STONE AS DETAILED IN CULTEC'S INSTALLATION INSTRUCTIONS. CLEANLINESS OF STONE TO BE VERIFIED BY ENGINEER.
- ACCEPTABLE FILL MATERIAL, AS SHOWN IN CULTEC'S INSTALLATION INSTRUCTIONS.
- ALL CULTEC CHAMBERS AND ACCESSORIES AS SPECIFIED IN THE ENGINEER'S PLANS INCLUDING NON-WOVEN GEOTEXTILE, CULTEC STORMFILTER AND CULTEC AFAB-HPF WOVEN GEOTEXTILE, WHERE APPLICABLE.
- RECIPROCATING SAW OR ROUTER
- STONE BUCKET
- STONE CONVEYOR AND/OR TRACKED EXCAVATOR
- TRANSIT OR LASER LEVEL MEASURING DEVICE
- COMPACTION EQUIPMENT WITH MAXIMUM GROSS VEHICLE WEIGHT OF 12,000 LBS (5,440 KGS), VIBRATORY ROLLERS MAY ONLY BE USED ON THE STONE BASE PRIOR TO THE INSTALLATION OF CHAMBERS.
- CHECK CULTEC CHAMBERS FOR DAMAGE PRIOR TO INSTALLATION. DO NOT USE DAMAGED CULTEC CHAMBERS, CONTACT YOUR SUPPLIER IMMEDIATELY TO REPORT DAMAGE OR PACKING-LIST DISCREPANCIES.

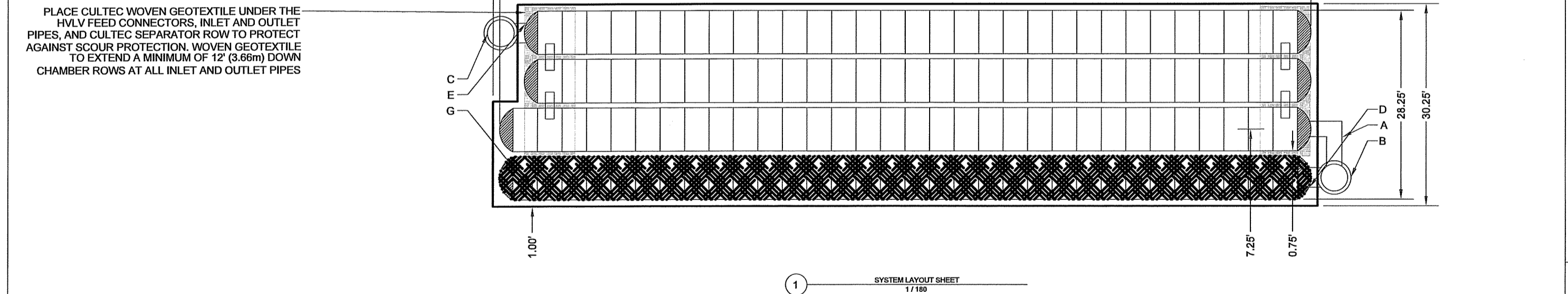
REQUIREMENTS FOR CULTEC CHAMBER SYSTEM INSTALLATIONS

- INSTALLING CONTRACTORS ARE EXPECTED TO COMPREHEND AND USE THE MOST CURRENT INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING A SYSTEM INSTALLATION. IF THERE IS ANY QUESTION AS TO WHETHER YOU POSSESS THE MOST CURRENT INSTRUCTIONS, CONTACT CULTEC AT (203) 775-4416 OR VISIT WWW.CULTEC.COM.
- CONTACT CULTEC AT LEAST THIRTY DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE FOR A PRE-CONSTRUCTION MEETING.
- ALL CULTEC SYSTEM DESIGNS MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
- USE CULTEC INSTALLATION INSTRUCTIONS AS A GUIDELINE ONLY FOR MINIMUM/MAXIMUM REQUIREMENTS. ACTUAL DESIGN MAY VARY. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR JOB-SPECIFIC DETAILS. BE SURE TO FOLLOW THE ENGINEER'S DRAWINGS AS YOUR PRIMARY GUIDE.
- THE FOUNDATION STONE SHALL BE LEVEL AND COMPACTED PRIOR TO CHAMBER INSTALLATION.
- OVERLAPPING RIB CONNECTIONS OF CHAMBERS SHALL BE FULLY SHOULDERED PRIOR TO STONE PLACEMENT.
- CENTER-TO-CENTER SPACING SHALL BE CHECKED AND MAINTAINED THROUGHOUT INSTALLATION PROCESS.
- ANY DISCREPANCIES WITH THE SYSTEM SUB-GRADE SOIL'S BEARING CAPACITY MUST BE REPORTED TO THE DESIGN ENGINEER.
- NON-WOVEN GEOTEXTILE MUST BE USED AS SPECIFIED IN THE ENGINEER'S DRAWINGS.
- CULTEC REQUIRES THE CONTRACTOR TO REFER TO CULTEC'S INSTALLATION INSTRUCTIONS CONCERNING VEHICULAR TRAFFIC. RESPONSIBILITY FOR PREVENTING VEHICLES THAT EXCEED CULTEC'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE CHAMBER SYSTEM LIES SOLELY WITH THE CONTRACTOR THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS. THE PLACEMENT OF WARNING TAPE, TEMPORARY FENCING, AND/OR APPROPRIATELY LOCATED SIGNS IS HIGHLY RECOMMENDED. IMPRINTED WARNING TAPE IS AVAILABLE FROM CULTEC. FOR ACCEPTABLE VEHICLE LOAD INFORMATION, REFER TO CULTEC INSTALLATION INSTRUCTIONS.
- TRAFFIC OF INSTALLATION EQUIPMENT OR OTHER VEHICULAR TRAFFIC OVER TOP OF THE CULTEC STORMWATER SYSTEM IS STRICTLY RESTRICTED AND PROHIBITED UNTIL SATISFACTORY COVER AND COMPACTION IS ACHIEVED ACCORDING TO CULTEC'S MANUFACTURER INSTALLATION INSTRUCTIONS.
- EROSION AND SEDIMENT CONTROL MEASURES MUST MEET LOCAL CODES AND THE DESIGN ENGINEER'S SPECIFICATIONS THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS.
- CULTEC SYSTEMS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. FAILURE TO DO SO WILL VOID THE LIMITED WARRANTY.
- CONTACT CULTEC, INC. AT 203-775-4416 WITH ANY QUESTIONS OR FURTHER CLARIFICATION OF REQUIREMENTS.
- PLACEMENT OF EMBEDMENT STONE MUST BE IN ACCORDANCE WITH CULTEC'S INSTALLATION INSTRUCTIONS. STONE COLUMN HEIGHT DIFFERENTIAL MUST NEVER EXCEED 12" (305 MM) BETWEEN CHAMBER ROWS, ADJACENT CHAMBERS OR STONE PERIMETER. STONE MUST BE PLACED OVER THE CROWN OF THE CHAMBERS TO ANCHOR THE CHAMBERS IN PLACE AND MAINTAIN ROW SPACING.
- EMBEDMENT STONE MUST ONLY BE PLACED BY EXCAVATOR OR TELESCOPING CONVEYOR BOOM. PLACEMENT OF EMBEDMENT STONE WITH BULLDOZER IS NOT AN ACCEPTABLE METHOD OF INSTALLATION AND MAY CAUSE DAMAGE TO THE CHAMBERS. ANY CHAMBERS DAMAGED USING AN UNACCEPTABLE METHOD OF BACKFILL ARE NOT COVERED UNDER THE CULTEC LIMITED WARRANTY.

THIS DRAWING HAS BEEN PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO CULTEC UNDER THE DIRECTION OF THE PROJECT ENGINEER OF RECORD OR OTHER PROJECT REPRESENTATIVE. IT IS ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEMS DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS, REGULATIONS AND MANUFACTURER REQUIREMENTS.



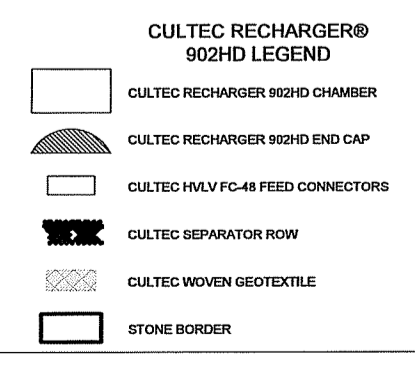
PROPOSED STORMWATER MANAGEMENT SYSTEM ELEVATIONS (FT)		INVERT ABOVE BASE OF CHAMBER	
PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT
ELEVATED BYPASS PIPE <td>A <td>24\"/> </td></td>	A <td>24\"/> </td>	24\"/>	



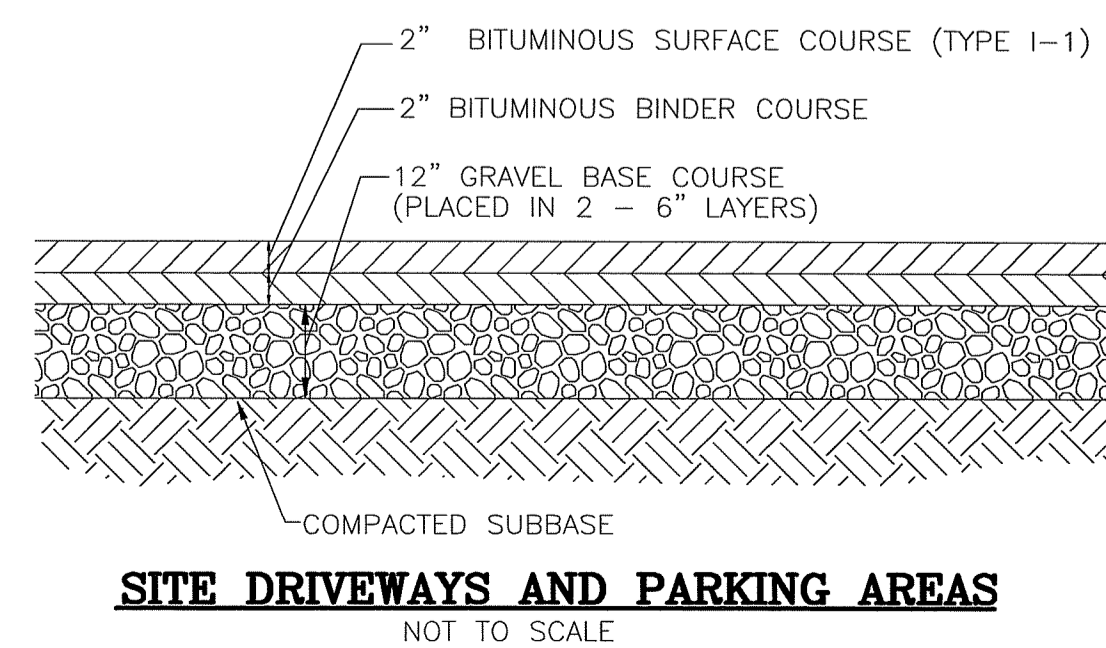
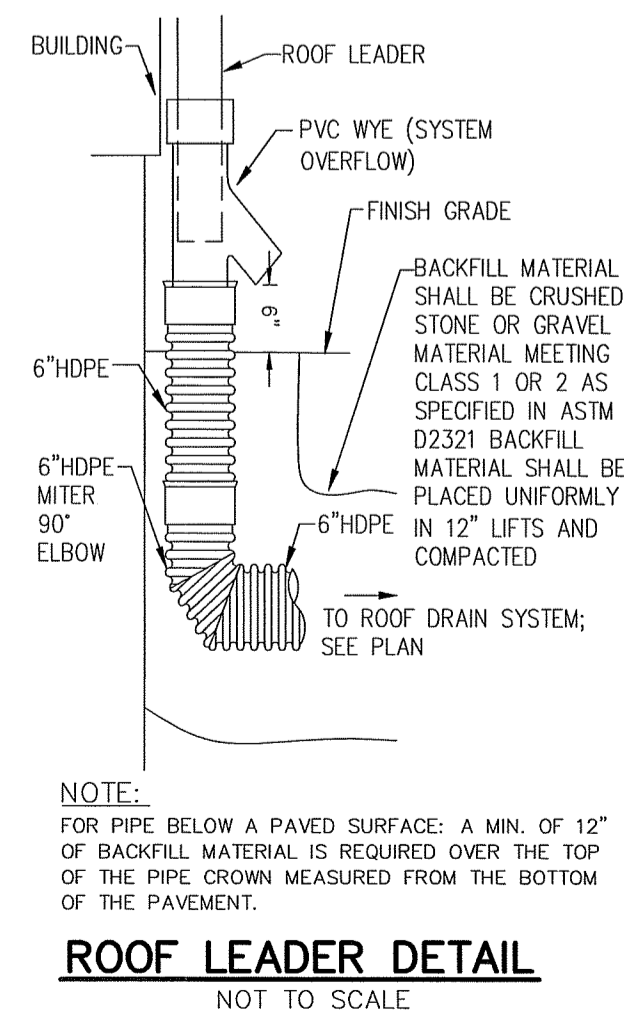
NOTE: ALL EXTERNAL SYSTEM STRUCTURES, INLET/OUTLET PIPES, AND PROPOSED ELEVATIONS MUST BE DESIGNED AND APPROVED BY THE ENGINEER OF RECORD. ALL PROPOSED SYSTEM ELEVATIONS PROVIDED MUST BE VERIFIED BY THE ENGINEER OF RECORD ENGINEER AND THE ENGINEER OF RECORD MUST ENSURE CHAMBER BURIAL REQUIREMENTS ARE MET.

MATERIALS LIST SUPPLIED BY CULTEC	
CULTEC RECHARGER 902HD CHAMBER	126 PIECES
CULTEC RECHARGER 902HD END CAP	8 PIECES
CULTEC HALF-48 FEED CONNECTOR	4 PIECES
CULTEC 1/2\"/>	

MATERIALS LIST NOT SUPPLIED BY CULTEC	
1-2 INCH WASHED, CRUSHED STONE	482 CU YARDS



CULTEC STORMWATER CHAMBER
PROJECT #: 202502028
DATE: 1/1/18
DESIGNED BY: StormGains
CHECKED: [Signature]
SCALE: 1/16\"/>



DETAILS SHEET - 2
EVENT BARN FACILITY
A.P. 6B, LOT 2
87 KINGSTOWN ROAD
RICHMOND, RHODE ISLAND
PREPARED FOR: THE PRESERVE AT BOULDER HILLS LLC.
SCALE: AS SHOWN DATE: 01/31/25 SHEET 9 OF 10

TITLE:

NO.	DATE	DESCRIPTION	BY

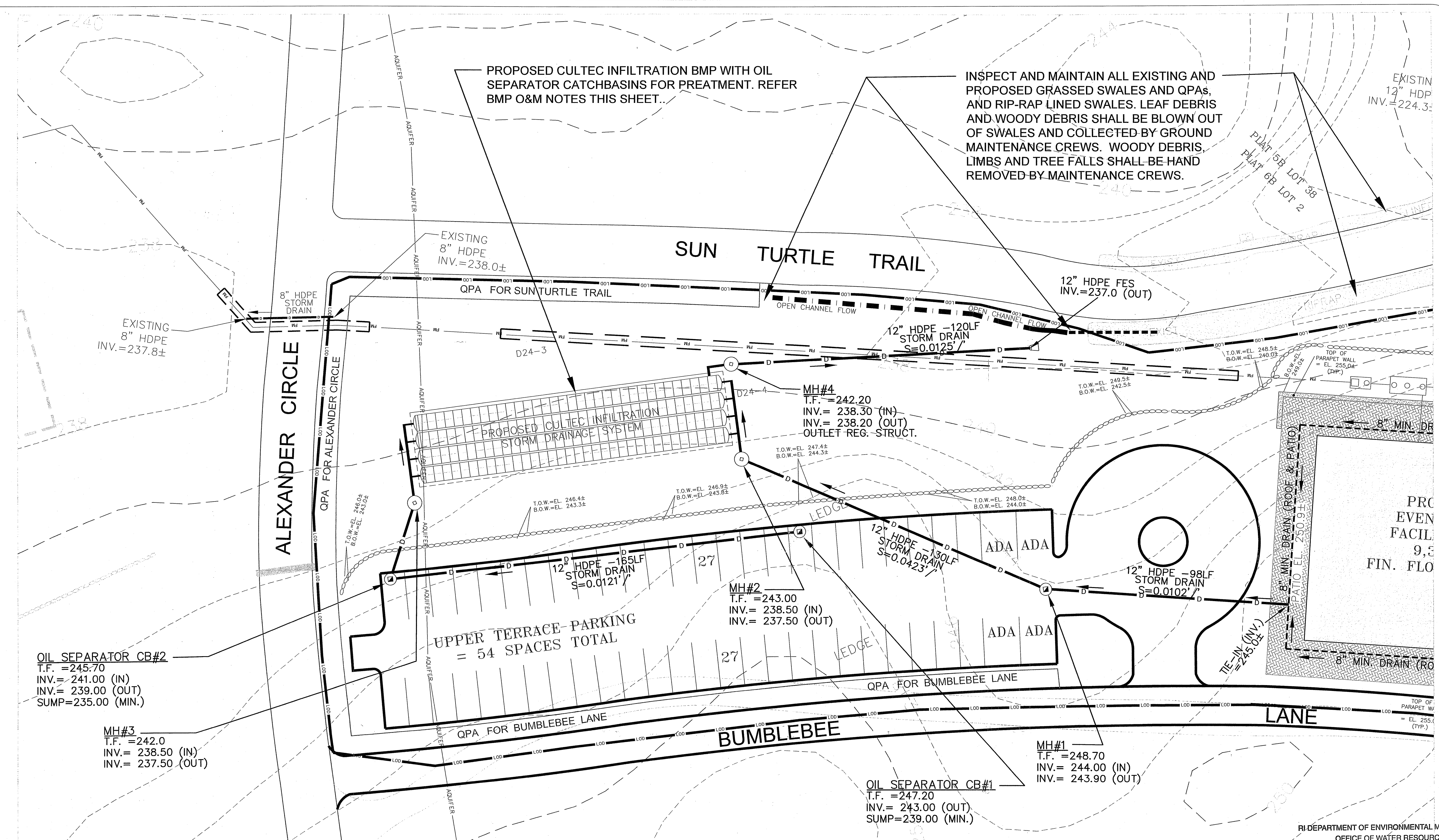
REVISIONS:

REGISTRATIONS:

CARRIGAN ENGINEERING, INC.
CIVIL AND ENVIRONMENTAL ENGINEERING
86 BROOK FARM ROAD SOUTH
WAKEFIELD, RI 02879
PHONE: (401) 789-6865

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 27 2025 FILE # 25-C061
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
FEB 7 2025
Office of Water Resources



PROPOSED CULTEC INFILTRATION BMP WITH OIL SEPARATOR CATCHBASINS FOR PRETREATMENT. REFER BMP O&M NOTES THIS SHEET...

INSPECT AND MAINTAIN ALL EXISTING AND PROPOSED GRASSED SWALES AND QPAs, AND RIP-RAP LINED SWALES. LEAF DEBRIS AND WOODY DEBRIS SHALL BE BLOWN OUT OF SWALES AND COLLECTED BY GROUND MAINTENANCE CREWS. WOODY DEBRIS, LIMBS AND TREE FALLS SHALL BE HAND REMOVED BY MAINTENANCE CREWS.

OIL SEPARATOR CB#2
 T.F. = 245.70
 INV. = 241.00 (IN)
 INV. = 239.00 (OUT)
 SUMP = 235.00 (MIN.)

MH#3
 T.F. = 242.0
 INV. = 238.50 (IN)
 INV. = 237.50 (OUT)

MH#2
 T.F. = 243.00
 INV. = 238.50 (IN)
 INV. = 237.50 (OUT)

MH#4
 T.F. = 242.20
 INV. = 238.30 (IN)
 INV. = 238.20 (OUT)
 OUTLET REG. STRUCT.

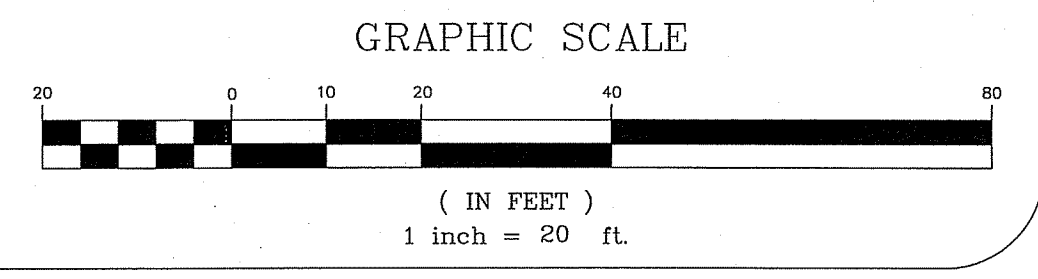
OIL SEPARATOR CB#1
 T.F. = 247.20
 INV. = 243.00 (OUT)
 SUMP = 239.00 (MIN.)

MH#1
 T.F. = 248.70
 INV. = 244.00 (IN)
 INV. = 243.90 (OUT)

BMP - OPERATIONS & MAINTENANCE NOTES FOR O&M PLAN:

- ROOFTOP GUTTER SYSTEMS FOR THE PROPOSED COMMERCIAL EVENT BARN FACILITY BUILDING SHALL BE INSPECTED ONCE EVERY 2-YEARS MINIMUM IN ORDER TO EVALUATE THE PROPER CONVEYANCE OF COLLECTED ROOF WATER TO THE PROPOSED CULTEC INFILTRATION SYSTEM. LEAVES, DIRT AND DEBRIS SHALL BE REMOVED DURING THE INSPECTION. THE SERVICE PROVIDER SHALL DETERMINE IF THE 2-YEAR PERIOD SHALL BE SHORTER OR LONGER BETWEEN INSPECTIONS BASED ON THE FIRST SEVERAL INSPECTION PERIODS.
- HORIZONTAL ROOF COLLECTION DRAINS SHALL BE INSPECTED ONCE EVERY 2-YEARS MINIMUM AT THE CLEANOUT LOCATIONS BROUGHT TO GRADE WITHIN THE PROPOSED PATIO, WALKWAY AND PAVED PARKING LOCATION. DEBRIS SHALL BE FLUSHED TO THE INLINE MANHOLE(S) AND TRAPPED AT TEMPORARY INFLATABLE DAM TRAP COLLECTION POINTS WITHIN THE MANHOLES. DEBRIS SHALL BE REMOVED AND DISPOSED OF AT AN UPLAND LEGAL DISPOSAL AREA.
- OIL SEPRATOR CATCHBASINS SHALL BE INSPECTED TWICE PER YEAR (MINIMUM) TO DETERMINE AMOUNT OF ACCUMULATED DEBRIS (ESPECIALLY DURING FALL/SPRING LEAF FALL AND WINTER TIME SANDING/SALTING EVENTS). OIL SEPARATOR SUMPS AND BASINS SHALL BE PUMPED/CLEANED OF LIQUIDS AND DEBRIS WHEN THE POLLUTANT REMOVAL CAPACITY IS REDUCED BY 50% OR MORE OR WHEN 50% OF THE POLLUTANT STORAGE CAPACITY IS FILLED OR DISPLACED. THIS SHALL BE PERFORMED BY A LICENSED ENVIRONMENTAL FIRM AND LEGALLY DISPOSED OF OFFSITE AT A LICENSED DISPOSAL FACILITY. CATCHBASIN COVERS SHALL BE KEPT CLEAR OF WIND BLOWN OR TRANSPORTED WOODY DEBRIS, LEAVES, AND PLASTICS AT ALL TIMES. PARKING LOTS SHALL BE SWEEPED BY A STREET SWEEPER CONTRACTOR DURING THE SPRING TIME PERIOD ONCE PER YEAR (MINIMUM) OR AS NEEDED WITH COLLECTED DEBRIS LEGALLY DISPOSED OF OFFSITE.
- THE CULTEC INFILTRATION SYSTEM SHALL BE INSPECTED ANNUALLY AT MINIMUM (BEFORE AND AFTER EXTREME STORM EVENTS EXPECTED TO BE GREATER THAN THE TEN (10) YEAR DESIGN STORM EVENT OR WHEN TOTAL STORM RAINFALL IS EXPECTED TO BE APPROXIMATELY 5 INCHES). MANHOLES (INLET AND OUTLET REGULATING) SHALL BE INSPECTED FOR PROPER FUNCTION AND FOR ANY BLOCKAGES OR DEBRIS. INSPECTION PORTS SHALL BE CHECKED BEFORE AND AFTER STORM EVENTS GREATER THAN THE 10-YEAR DESIGN STORM (APPROXIMATELY 5 INCHES EXPECTED STORM RAINFALL).

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
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 DATED: MAR 27 2025 FILE # 25-0001
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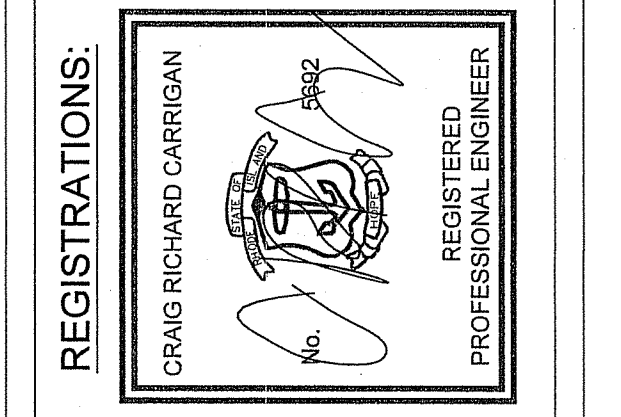


TITLE: **BMP PLAN FOR O&M REQUIREMENTS**
EVENT BARN FACILITY
 A.P. 6B, LOT 2
 87 KINGSTOWN ROAD
 RICHMOND, RHODE ISLAND
 PREPARED FOR: THE PRESERVE AT BOULDER HILLS LLC.
 SCALE: AS SHOWN DATE: 01/31/25 SHEET 1 OF 1

REVISIONS:

NO.	DATE	DESCRIPTION	BY

JOB NO.



CARRIGAN ENGINEERING, INC.
 CIVIL AND ENVIRONMENTAL ENGINEERING
 86 BROOK FARM ROAD SOUTH
 WAKEFIELD, RI 02879
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Environmental Management
 FEB - 7 2025
 Office of Water Resources