

# RIDEM PLAN SUBMISSION

FOR

## THE TRAP BREW PUB & GRILL

### 10 SMITH AVENUE

### A.P. 6, LOTS 140 & 141

IN

### SMITHFIELD, RHODE ISLAND



**SITE LOCUS**  
NOT TO SCALE

OWNER:

TMG TRAP NORTH REALTY LLC  
195 OLD FORGE ROAD EAST  
GREENWICH, RI 02818

APPLICANT:

TMG TRAP NORTH REALTY LLC  
195 OLD FORGE ROAD EAST  
GREENWICH, RI 02818

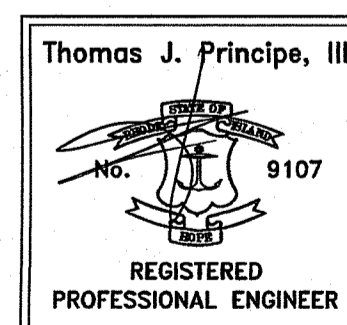


PREPARED BY:

**PRINCIPLE COMPANY, INC.**  
ENGINEERING DIVISION

27 SAKONNET RIDGE DRIVE  
TIVERTON, RHODE ISLAND 02878  
401.816.5385

JANUARY 24, 2023  
REVISED FEBRUARY 20, 2023



DRAWING ISSUE:

- CONCEPT
- CUSTOMER APPROVAL
- PERMITTING
- CONSTRUCTION
- AS-BUILT
- OTHER:

ONLY PLANS ISSUED FOR CONSTRUCTION  
SHALL BE USED FOR CONSTRUCTION

LIST OF DRAWINGS

1. TITLE SHEET
2. PROPOSED LAYOUT PLAN
3. GRADING & DRAINAGE PLAN
4. DETAILS-1
5. DETAILS-2

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: MAR 01 2023 FILE # 23-0023  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martin D. Wenzel*

PLAN SET LEGEND

	EXISTING	PROPOSED
PERIMETER LINE	—————	—————
ABUTTER LINE	—————	—————
FENCE	—X—X—X—	—X—X—X—
CONTOUR	- - - - 122 - - - -	- - - - 122 - - - -
SURVEY BOUND	● □	● □
UTILITY POLE	⊙	⊙
OVERHEAD WIRE	—DHW—	—DHW—
DRAINLINE	—D—D—	—D—D—
WATERLINE	—W—W—	—W—W—
WATER GATE VALVE	⊙	⊙
SEWER MANHOLE	⊙	⊙
SEWERLINE	—S—S—	—S—S—
GAS LINE	—G—G—	—G—G—
GAS VALVE	⊙	⊙
EROSION CONTROL	—○—○—○—	—○—○—○—
STONEWALL	—○—○—○—	—○—○—○—
SIDEWALK	—○—○—○—	—○—○—○—
TREE	●	●
TREE TO BE REMOVED	⊗	⊗
LIMIT OF DISTURBANCE	—○—○—○—	—○—○—○—
TEST PIT	⊙	⊙
BENCHMARK	⊙	⊙
WELL	⊙	⊙
SOILS LINE	—○—○—○—	—○—○—○—
EDGE OF PAVEMENT	—○—○—○—	—○—○—○—
LIGHT POLE	⊙	⊙

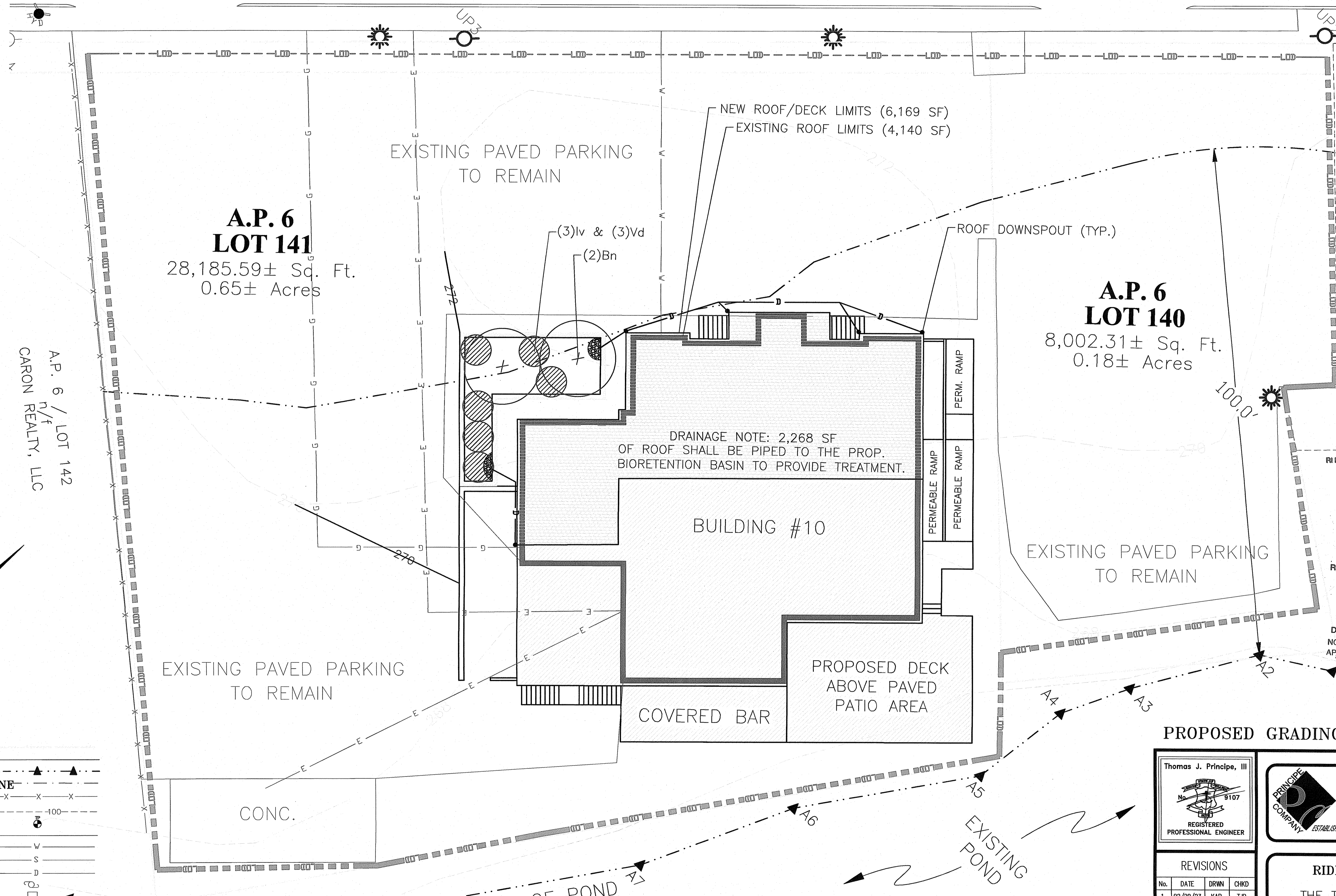
RI Environmental Management  
Office of Water Resources  
FEB 21 2023



**SOIL NOTE:**

TP-1:  
 Ap: 0"-8" FSL  
 Bw: 4"-30" LS, SG, LOOSE  
 C1: 30"-54" LS, VERY FRIABLE  
 C2: 54"-72" LS, VERY FRIABLE  
 USE GWT @ 72"  
 NO LEDGE  
 TOTAL DEPTH = 72"

**SMITH AVENUE (ROUTE 116)**  
 (R.O.W. VARIES)  
 STATE OF R.I. HIGHWAY PLAT No. 279A



**A.P. 6  
 LOT 141**  
 28,185.59± Sq. Ft.  
 0.65± Acres

**A.P. 6  
 LOT 140**  
 8,002.31± Sq. Ft.  
 0.18± Acres

A.P. 6 n/f LOT  
 ROBERT L. &  
 MAUREEN E.  
 VAN HERPE

A.P. 6 / LOT 142  
 n/f  
 CARON REALTY, LLC

DRAINAGE NOTE: 2,268 SF  
 OF ROOF SHALL BE PIPED TO THE PROP.  
 BIORETENTION BASIN TO PROVIDE TREATMENT.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM

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

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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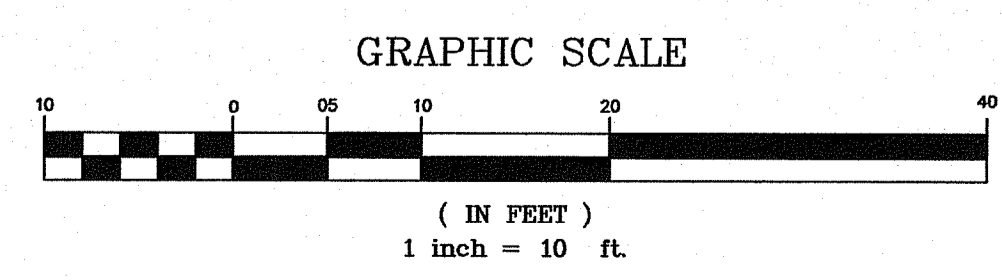
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*Walter D. Wenczek*  
 Environmental Management  
 FEB 24 2023  
 Office of Water Resources

- LEGEND:**
- PROPERTY PERIMETER
  - EX. ABUTTER LINE
  - EX. FLAGGED WETLANDS
  - EX. WETLAND BUFFER ZONE
  - EX. FENCE LINE
  - EX. CONTOUR LINE
  - EX. TEST HOLE
  - EX. PAVED ROAD
  - EX. WATER LINE
  - EX. SEWER LINE
  - EX. DRAINAGE LINE
  - EX. UTILITY POLE
  - EX. CATCH BASIN
  - EX. DRAINAGE MANHOLE
  - EX. SEWER MANHOLE
  - EX. WATER VALVE
  - EX. TREE/BRUSH LINE
  - EX. BUILDING
  - PROPOSED BUILDING
  - BUILDING SETBACKS
  - PROPOSED FENCE LINE
  - PROPOSED EROSION CONTROL @LOD

**FLOODPLAIN NOTE:**  
 PER FEMA FIRM 440047C0281G, EFFECTIVE DATE MARCH 2, 2009, THE FLOODPLAIN ELEVATION ADJACENT TO THE  
 SUBJECT SITE RANGES FROM ELEVATION 262 TO 263. NO FILL IS PROPOSED BELOW THESE ELEVATIONS.

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  - OTHER:
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**PROPOSED GRADING & DRAINAGE PLAN**

Thomas J. Principe, III  
 No. 9107  
 REGISTERED  
 PROFESSIONAL ENGINEER

**PRINCIPE COMPANY, INC.**  
 ENGINEERING DIVISION  
 27 SAKONNET RIDGE DRIVE  
 TIVERTON, RI 02878  
 401.816.5385  
 www.PrincipeEngineering.com

**REVISIONS**

No.	DATE	DRWN	CHKD
1.	02/20/23	KAB	TJP

**RIDEM PLAN SUBMISSION**  
 for  
**THE TRAP BREW PUB & GRILL**  
**AP 6 LOTS 140 & 141**  
**10 SMITH AVENUE**  
 in  
 SMITHFIELD, RHODE ISLAND

SCALE: 1" = 10' SHEET NO: 3 of 5  
 DRAWN BY: KAB DESIGN BY: KAB CHECKED BY: TJP  
 DATE: 01/24/2023 PROJECT NO.: D-2023-01

**VEGETATIVE COVER AND PLANTING**

- THE NORMAL ACCEPTABLE SEASONABLE SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
- TOP SOIL FOR PERMANENT OR LONG TERM TEMPORARY SEEDING SHOULD HAVE A SANDY LOAM TEXTURE, RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS. TOP SOIL SHALL CONFORM WITH RHODE ISLAND SPECIFICATIONS.
- THE DESIGN SEED MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDING SHALL BE COMPRISED OF THE FOLLOWING:
 

TYPE	% BY WEIGHT	SEEDING DATE
CREeping RED FESCUE	70	
ASTORIA BENTGRASS	5	APRIL 1 - JUNE 15
BIRDFOOT TREFOIL	15	AUGUST 15 - OCTOBER 15
PERENNIAL RYE GRASS	10	

APPLICATION RATE - 100 LBS PER ACRE

SEED MIX SHALL BE INOCULATED WITHIN 24 - HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULATION FOR EACH SEED VARIETY. ALTERNATE SEED TYPES DUE TO SITE SPECIFIC CONDITIONS AND SOILS ARE ACCEPTABLE WITH THE ENGINEER'S APPROVAL.
- IN TOPSOIL SEEDING AREAS, THE CONTRACTOR WILL LIME AND FERTILIZE AS REQUIRED TO COMPLIMENT OR UPGRADE SOIL CONDITIONS.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY PERMANENT VEGETATIVE COVER AREAS THAT DO NOT DEVELOP OR WHICH ERODE WITHIN A ONE (1) YEAR PERIOD.

**EROSION CONTROL, SOIL STABILIZATION AND SEDIMENT CONTROL PLAN**

- PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRUBBING, DEMOLITION OR EARTHWORK ACTIVITY, TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR.
- CONSTRUCTION ACCESS STABILIZATION ENTRANCE PADS ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE GRUBBING OR EARTHWORK ACTIVITY.
- EXISTING CATCH BASINS ARE TO BE PROTECTED WITH STRAW BALES AND/OR SILT SACS PRIOR TO THE START OF SITE GRUBBING, EARTHWORK OR UNDERGROUND UTILITY AND DRAINAGE INFRASTRUCTURE INSTALLATION TO SERVE THE DEVELOPMENT SITE.
- THE PROJECT CONSTRUCTION SEQUENCE, TO THE EXTENT PRACTICAL, SHOULD REQUIRE THE INSTALLATION OF DOWN GRADE AND OFF SITE STORM DRAINAGE SYSTEM IMPROVEMENTS BEFORE THE START OF SITE GRUBBING AND EARTHWORK ACTIVITY.
- TEMPORARY SITE SLOPE TREATMENTS FOR SOIL STABILIZATION SHALL CONSIST OF STRAW, FIBER MULCH, RIP RAP OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, AND EXCELSIOR OR EQUAL PRODUCTS). THESE AND OTHER ACCEPTABLE MEASURES SHALL BE INCORPORATED INTO THE SITE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- CONSTRUCTION SITES ARE DYNAMIC, THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OR MOVEMENT AND MAINTENANCE OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL MEASURES AS NEEDED TO MAXIMIZE THE INTENT OF THE PLAN FOR ALL SITE CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION, MAINTENANCE, REPAIR, AND REPLACEMENT OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL DEVICES UNTIL AN ACCEPTABLE PERMANENT VEGETATIVE GROWTH IS ESTABLISHED. THE CONTRACTOR SHALL MAINTAIN A DETAIL LOG OF ALL EROSION CONTROL INSPECTIONS, COMPLAINTS RELATED TO EROSION OR SEDIMENT, AND CORRECTIVE REMEDIAL MEASURES TAKEN THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION.
- SOIL EROSION AND SEDIMENT CONTROL IS NOT LIMITED TO DAMAGES CAUSED BY WATER BUT ALSO INCLUDES EROSION AND SEDIMENT RESULTING FROM WINDS. MEASURES, SUCH AS TEMPORARY GROUND COVERS, WATER AND CALCIUM APPLICATIONS ARE TO BE UNDERTAKEN AS NEEDED TO MINIMIZE WIND RELATED SOIL AND DUST CONTROL.
- STOCK PILES OF EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLANDS. STOCK PILES SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%). STOCK PILES SHALL BE SURROUNDED ON THE DOWN GRADIENT OF THE EXISTING GROUND SURFACE BY HAY BALES OR SILT FENCE. THE STOCK PILES SHALL ALSO BE SEEDED OR STABILIZED IN SOME MANNER TO PREVENT SOIL EROSION.
- THE SMALLEST POSSIBLE SITE AREAS SHALL BE DISTURBED OR EXPOSED AT ONE TIME AND DENUDED SLOPES OR WORK AREAS SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS INACTIVE PERIODS OR SITE WORK SHUT DOWNS.
- TO THE EXTENT POSSIBLE, ALL DISTURBED AREAS MUST BE SEEDED OR STABILIZED WITHIN THE CONSTRUCTION SEASON. STABILIZATION OF ONE FORM OR ANOTHER SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
- EXPOSED STEEP OR LONG SLOPES SHOULD BE TREATED WITH "CRIMPING" OR "TRACKING" TO REDUCE EROSION AND SEDIMENT AND TO TACK DOWN SEEDING OR MULCH APPLICATIONS.
- IF CONCRETE IS TO BE USED ON SITE, THE CONTRACTOR MUST ESTABLISH AND MAINTAIN SPECIFIC WASHOUT AREAS FOR THE CONCRETE TRUCKS WITH APPROPRIATE PROTECTION CONTROLS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.
- EXISTING TREES AND VEGETATION WILL BE RETAINED WHENEVER FEASIBLE.
- SITE SOIL EROSION AND SOIL STABILIZATION AND SEDIMENT CONTROLS MUST CONFORM TO ALL REQUIREMENTS OF THE APPLICABLE LOCAL COMMUNITY ORDINANCES AND STATE REGULATIONS.

**GENERAL NOTES:**

- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH ANY APPLICABLE LOCAL, STATE AND FEDERAL LAWS GOVERNING HIS INTENDED ACTIVITIES. OSHA REGULATIONS ARE APPLICABLE OF PROJECT SITE CONSTRUCTION ACTIVITIES.
- ALL CONSTRUCTION WILL BE UNDERTAKEN IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE TOWN OF SMITHFIELD.
- 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.
- IF THE MUNICIPALITY REQUIRES A PROJECT PRE-CONSTRUCTION CONFERENCE, THE PROJECT DEVELOPER AND THE PROJECT CONTRACTOR WILL ATTEND AND WILL PROVIDE ALL REQUESTED MATERIALS PRIOR TO COMMENCING ANY WORK.
- IF CEMENT CONCRETE MIX TRUCKS ARE TO BE WASHED OUT ON SITE, THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A WASH OUT AREA WITH APPROPRIATE PROTECTION CONTROLS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.

**ORDER OF PROCEDURE:**

PRIOR TO ANY CLEARING AND GRUBBING OR ANY ROUGH GRADING, TEMPORARY STRAW BALES AND SANDBAGS SHALL BE PLACED OUTSIDE THE LIMITS OF CONSTRUCTION AS PER THE PLANS (I.E. ALONG ROADWAYS, STREAM BANKS, CRITICAL AREAS, ETC.).

ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY MAINTAINED AS PER THE RESPECTIVE PROGRAMS FOR TEMPORARY CONTROL.

IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL. TEMPORARY STRAW BALES AND SANDBAGS ALONG AND AT THE ENDS OF ROADWAYS MAY ALSO BE REMOVED AFTER FINAL SOIL STABILIZATION HAS BEEN ACHIEVED AND APPROVED.

STRAW BALES LOCATED AT DRAINAGE OUTLETS MUST REMAIN UNTIL SUCH TIME THAT A DESIRABLE STAND OF GRASS OR COVER HAS BEEN ESTABLISHED AND THE PROJECT RECEIVES A FAVORABLE APPROVAL FOR FINAL ACCEPTANCE FROM THE ENGINEER.

**SEDIMENTATION CONTROL PROGRAM:**

RIP RAP SPLASH PADS SHALL BE INSTALLED AT THE OUTLETS FOR ALL CULVERTS DISCHARGING INTO A WATERWAY.

EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL ENTERING THE WETLANDS.

ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL BE SEEDED AND PROTECTED WITH A FIBER MULCH.

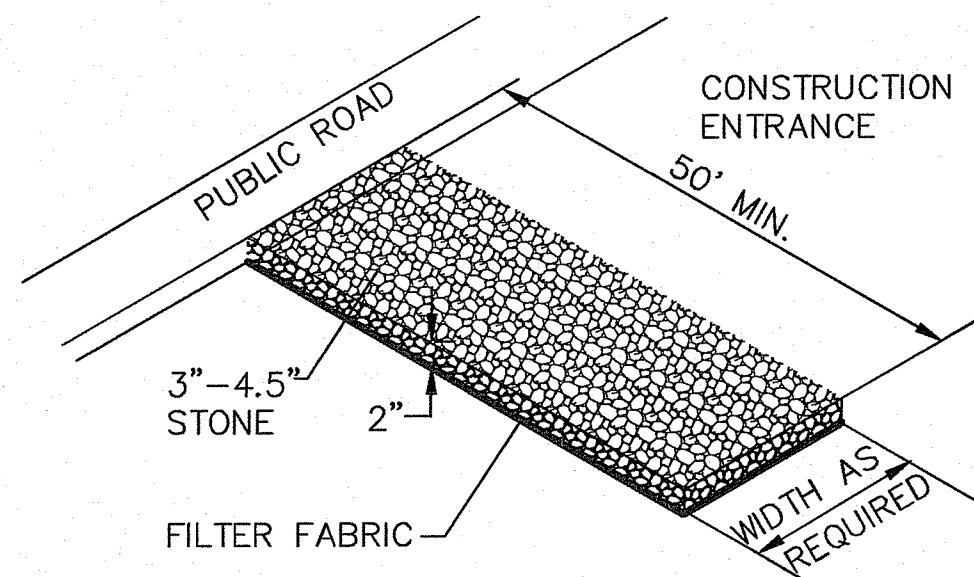
DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.

SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.

CARE SHOULD 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 SUBJECTED TO STORM WATER FLOW.

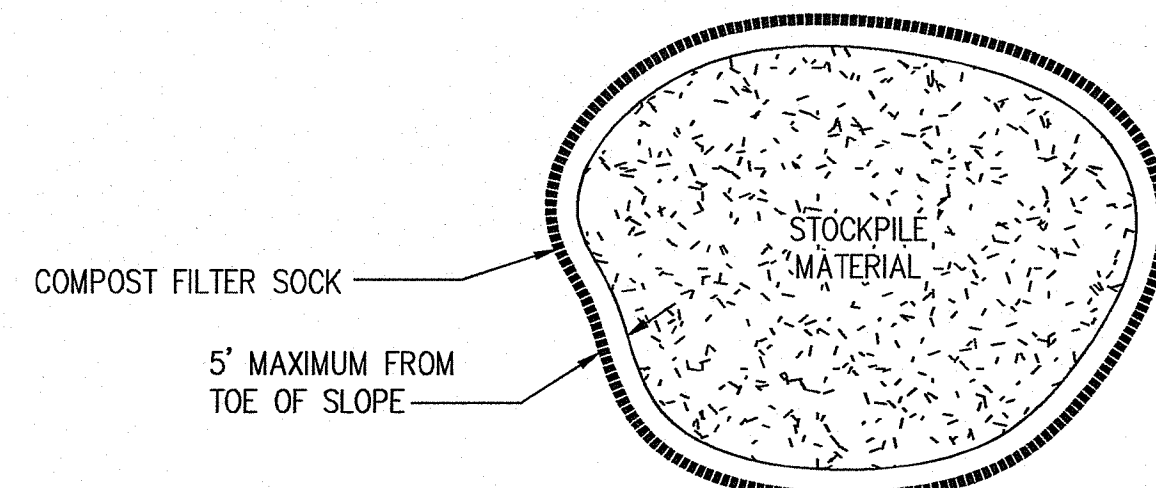
ADDITIONAL STRAW BALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT.

ALL SEDIMENTS SHALL BE REMOVED FROM THE DRAINAGE AND DETENTION FACILITIES AS SCHEDULED FOR EACH FACILITY

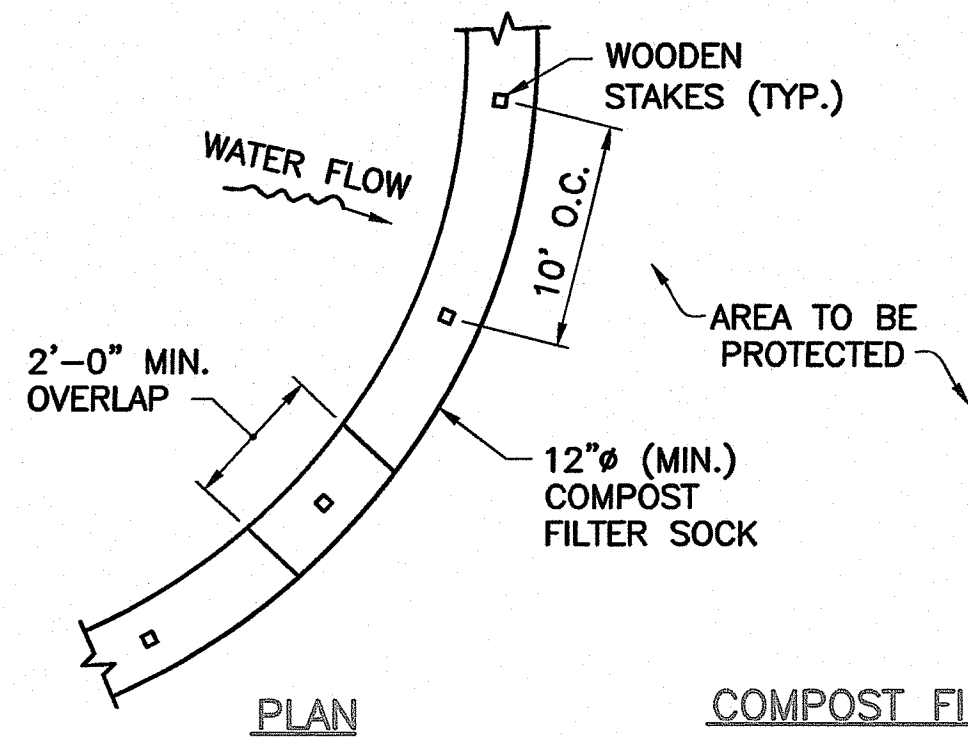


MATERIALS SIZE			
SQUARE MESH SIEVES	2" CRUSHED STONE OR GRAVEL	ASTM NO. 2	ASTM NO. 3
	% FINER	% FINER	% FINER
2-1/2 INCHES	100	90-100	100
2 INCHES	95-100	35-70	90-100
1-1/2 INCHES	30-55	0-15	35-70
1-1/4 INCHES	0-25	-	-
1 INCH	0-5	-	0-15
3/4 INCH	-	0-5	-
1/2 INCH	-	-	0-5
3/8 INCH	-	-	-

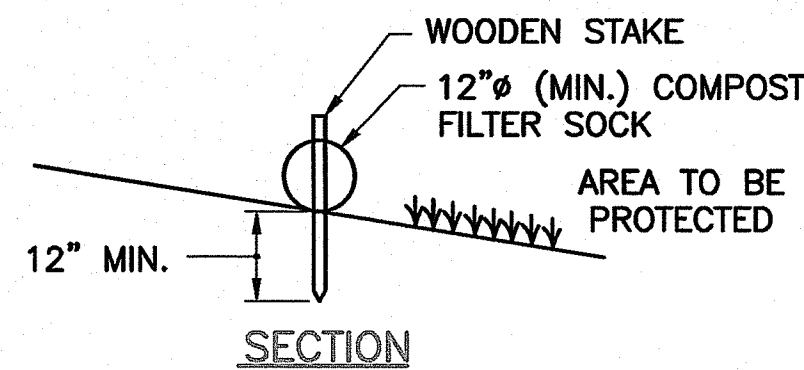
**RIP-RAP STABILIZATION PAD @ CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**STOCKPILE DETAIL** NOT TO SCALE



**COMPOST FILTER SOCK PERIMETER EROSION CONTROLS**  
NOT TO SCALE



- NOTES:**
- ALL MATERIAL TO MEET REQUIREMENTS OF SECTION 206 OF RI STANDARD SPECIFICATIONS.
  - COMPOST MATERIAL MUST BE ACCEPTED BY THE ENGINEER PRIOR TO PLACEMENT.

Martin D. Sanchez  
 RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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**DETAILS-1**

Thomas J. Principe, III  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 9107

**PRINCIPE COMPANY, INC.**  
 ENGINEERING DIVISION  
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**REVISIONS**

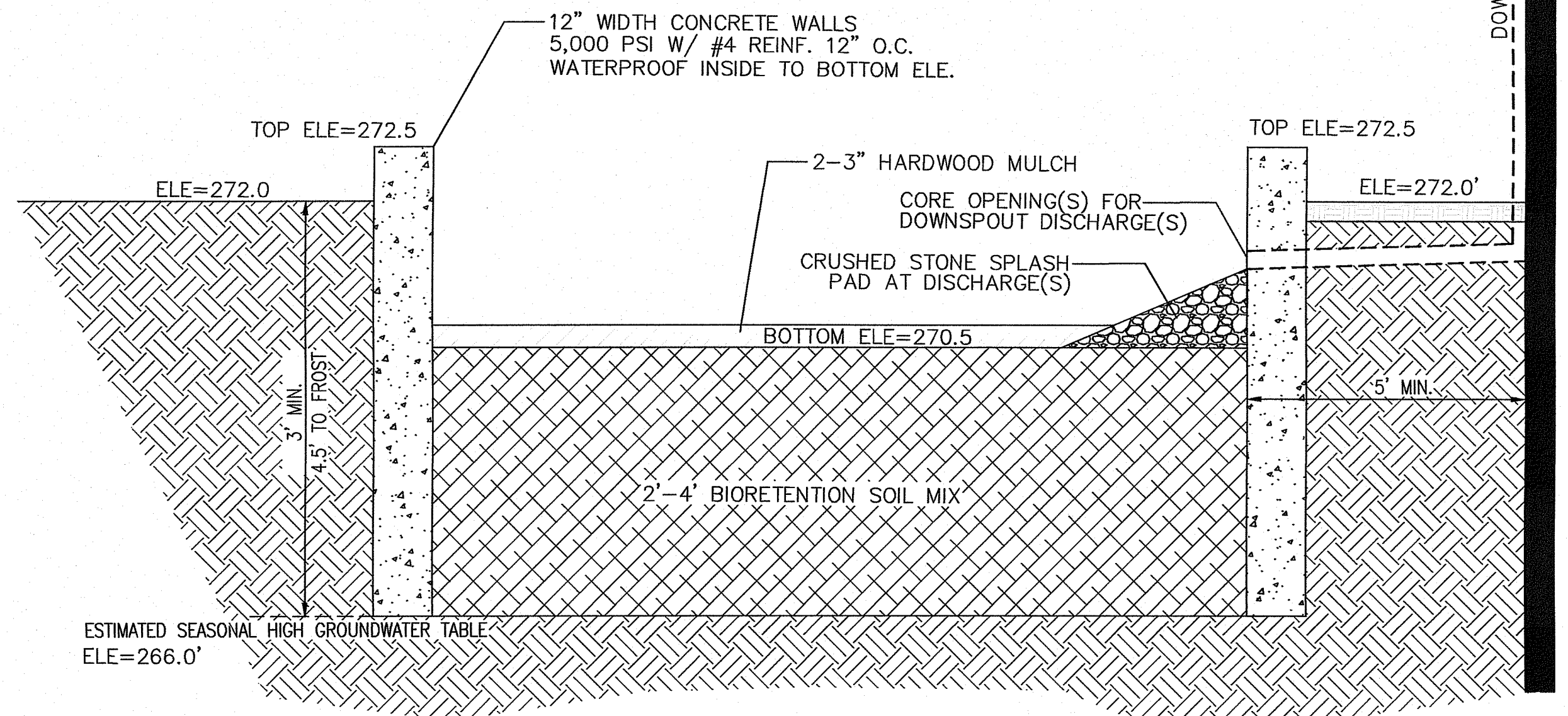
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1.	02/20/23	KAB	TJP

**RIDEM PLAN SUBMISSION**  
 for  
**THE TRAP BREW PUB & GRILL**  
 AP 6 LOTS 140 & 141  
 10 SMITH AVENUE  
 in  
 SMITHFIELD, RHODE ISLAND

SCALE: AS NOTED	SHEET NO: 4 of 5
DRAWN BY: KAB	DESIGN BY: KAB
DATE: 01/24/2023	CHECKED BY: TJP
PROJECT NO.: D-2023-01	

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**BIORETENTION AREA DETAIL**  
NOT TO SCALE

**F.5.2.3 Mulch Layer Specifications.**

A finely shredded, well-aged organic hardwood mulch is the preferred accepted mulch; a finely shredded, well-aged organic dark pine mulch may be accepted on a case-by-case basis. Bark dust mulches and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6-12 months) for acceptance. Mix approximately 1/2 the specified mulch layer into the planting soil to a depth of approximately 4 inches to help foster a highly organic surface layer.

**F.5.2.2 Bioretention Soil**

The soil should be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances should be mixed or dumped within the bioretention area that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The bioretention soil should be free of noxious weeds.

The bioretention system shall utilize planting soil having a composition as follows:  
Sand: 85-88%  
Soil fines: 8 to 12% (no more than 2% clay)  
Organic Matter\*: 3 to 5%

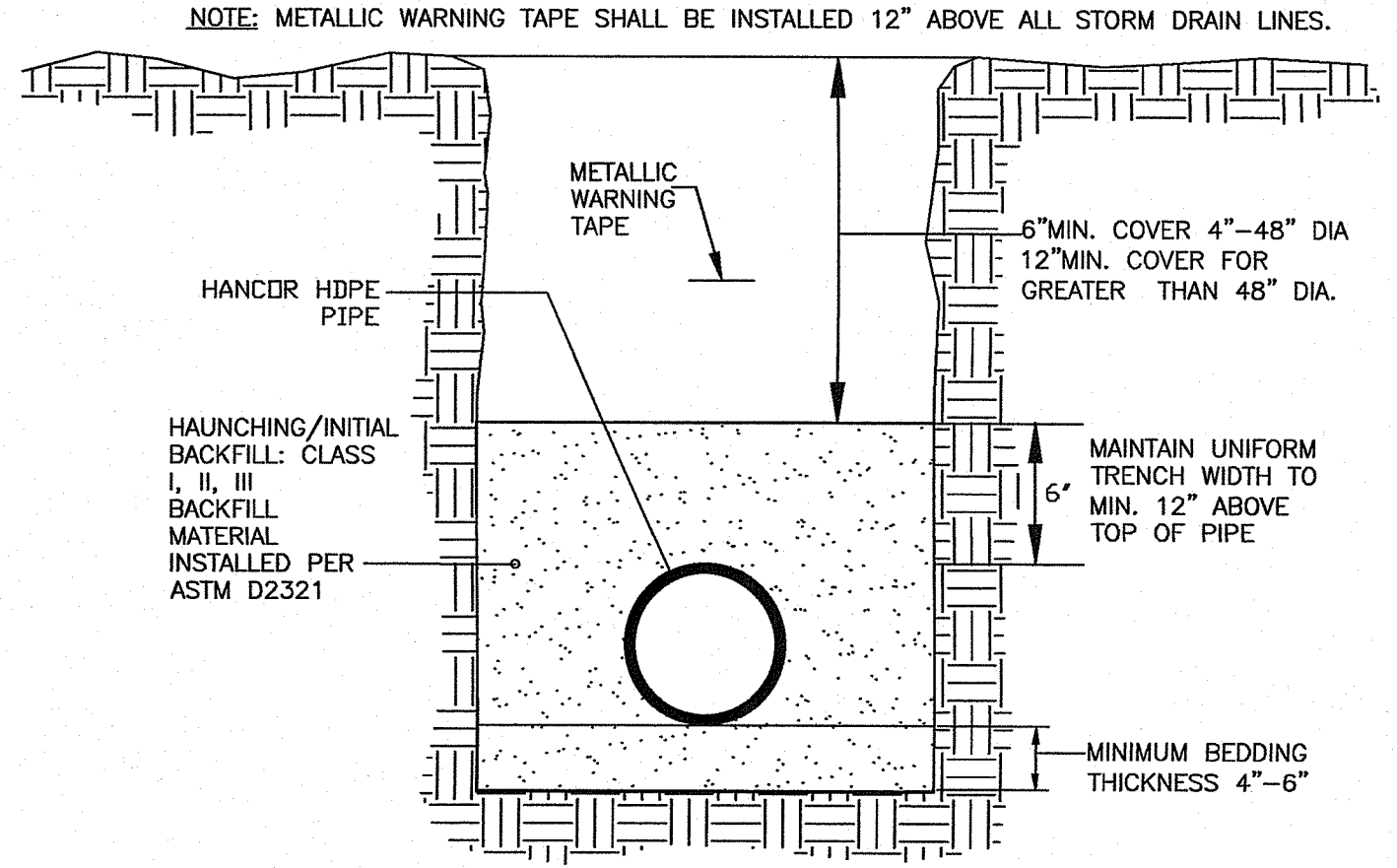
\*Note: For bioretention applications with a soil depth of less than 4 feet, add 20% (by volume) of well aged (3 months), well aerated, leaf compost (or approved equivalent) to the above planting soil mixture. Where soil fines content is less than 12%, add a corresponding % of leaf compost.

A textural analysis is required to ensure the bioretention soil meets the specification listed above. The bioretention soil should also be tested for the following criteria:  
pH range 5.2 - 7.0  
magnesium not to exceed 32 ppm  
phosphorus P205 not to exceed 69 ppm  
potassium K20 not to exceed 78 ppm  
soluble salts not to exceed 500 ppm

**LANDSCAPE NOTES:**

- 1) ALL PLANT MATERIAL TO CONFORM TO ANSI STANDARDS.
- 2) ALL PLANT MATERIAL TO RECEIVE THREE INCHES OF SHREDDED HARDWOOD MULCH.
- 3) ALL PLANT MATERIAL TO BE GUARANTEED TO SURVIVE AT LEAST ONE GROWING SEASON, OR THEY SHALL BE REPLACED AT THE LANDSCAPE CONTRACTOR'S EXPENSE.
- 4) ALL PLANT MATERIAL SUBJECT TO VERIFICATION AS TO LOCATION AND SPECIES.
- 5) ALL PLANT MATERIAL SUBJECT TO VERIFICATION AS TO LOCATION AND SPECIES.
- 6) THERE WILL BE NO PLANT MATERIAL SUBSTITUTIONS WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.

MASTER PLANT SCHEDULE					
SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
Bn	2	Betula nigra 'Heritage' clump	Clump form river birch	7-8'	B&B
Iv	3	Ilex verticillata	Winterberry	4-5'	B&B
Vd	3	Viburnum dentatum	Arrowwood	4-5'	B&B

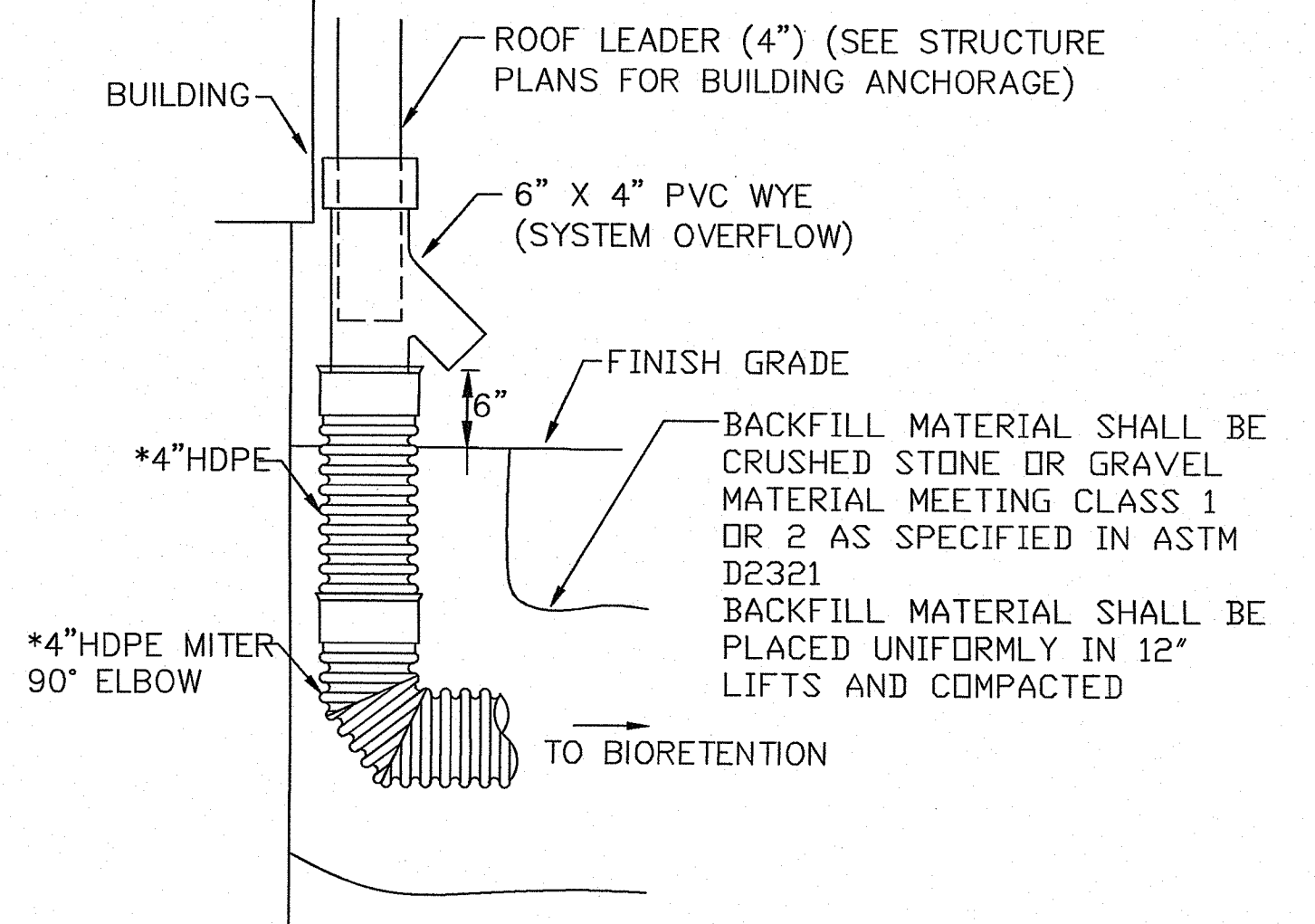


REFERENCE ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS."

**HDPE TRENCH INSTALLATION DETAIL**  
NOT TO SCALE

RECOMMENDED MINIMUM TRENCH WIDTH			
PIPE DIAMETER IN. (MM)	TRENCH WIDTH IN. (M)	PIPE DIAMETER IN. (MM)	TRENCH WIDTH IN. (M)
4 - 8 (100-200)	*	30 (750)	60 (1.5)
10 (250)	24 (0.6)	36 (900)	65 (1.7)
12 (300)	28 (0.7)	42 (1050)	84 (2.1)
15 (375)	35 (0.9)	48 (1200)	91 (2.3)
18 (450)	43 (1.1)	54 (1350)	97 (2.5)
24 (600)	56 (1.4)	60 (1500)	103 (2.6)

\* USUALLY BASED ON SMALLEST BUCKET SIZE AVAILABLE



**ROOF LEADER COLLECTOR DETAIL**  
NOT TO SCALE

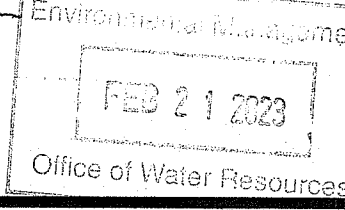
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*Justin D. W...*



**DETAILS-2**

Thomas J. Principe, III  
No. 8107  
REGISTERED PROFESSIONAL ENGINEER

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ENGINEERING DIVISION  
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REVISIONS			
No.	DATE	DRWN	CHKD
1.	02/20/23	KAB	TJP

**RIDEM PLAN SUBMISSION**  
for  
**THE TRAP BREW PUB & GRILL**  
**AP 6 LOTS 140 & 141**  
**10 SMITH AVENUE**  
in  
SMITHFIELD, RHODE ISLAND

SCALE: AS NOTED SHEET NO: 5 of 5  
DRAWN BY: KAB DESIGN BY: KAB CHECKED BY: TJP  
DATE: 01/24/2023 PROJECT NO.: D-2023-01

**DRAWING ISSUE:**

- CONCEPT
  - CUSTOMER APPROVAL
  - PERMITTING
  - CONSTRUCTION
  - AS-BUILT
  - OTHER:
- ONLY PLANS ISSUED FOR CONSTRUCTION SHALL BE USED FOR CONSTRUCTION