

DRAWING ISSUE:

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

STREET INDEX

STAFFORD ROAD (ROUTE 81) (STATE, PUBLIC)

LEGEND

- | | | | |
|------------------------|------|---------------------|---------|
| PROPERTY LINE | --- | BUILDING SETBACK | --- |
| ABUTTER LINE | --- | PROPOSED DOWNSPOUTS | ⊕ |
| EX. EDGE OF PAVEMENT | --- | PROPOSED CONTOUR | 87 |
| EXISTING CONTOUR | 87 | PROPOSED SPOT GRADE | x 116.5 |
| EXISTING SPOT GRADE | x 87 | PROPOSED SEWER LINE | S |
| EX. TEST PIT | ⊕ | PROPOSED WATER LINE | W |
| EXISTING STONE WALL | --- | PROPOSED DRAIN LINE | D |
| EXISTING FENCE LINE | --- | DRILL HOLE | ⊕ |
| EXISTING BUILDING | --- | GRANITE BOUND | G.B. |
| EXISTING UTILITY POLE | ⊕ | IRON ROD | I.R. |
| EXISTING HYDRANT | ⊕ | PROPOSED WELL | ⊕ |
| FLAGGED WETLANDS | --- | | |
| 50' PERIMETER WETLAND | --- | | |
| 100' PERIMETER WETLAND | --- | | |

ZONING DESIGNATION: R60

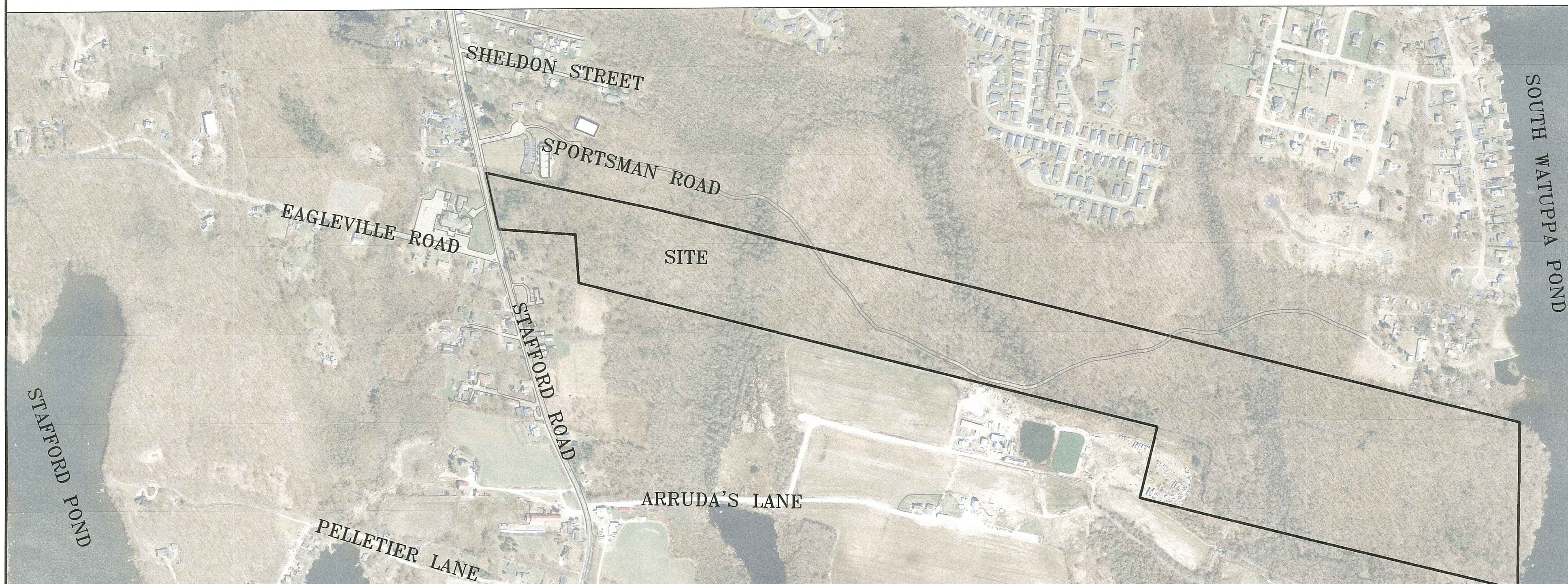
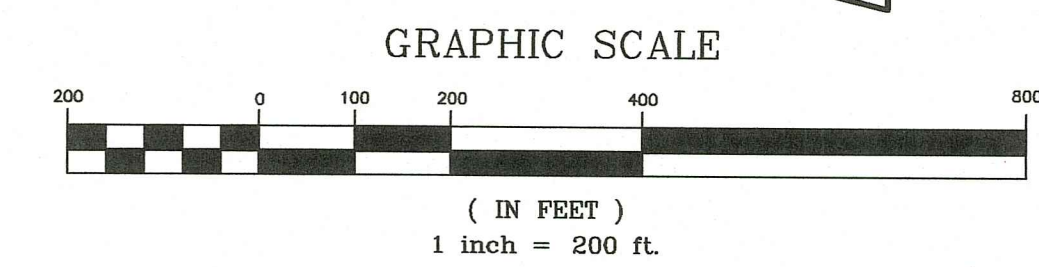
- MIN. LOT AREA 25,000
- MIN. FRONT YARD SETBACK 35 FT
- MIN. SIDE YARD SETBACK 20 FT
- MIN. REAR YARD SETBACK 35 FT
- MAX. BLD. COVERAGE 4,500 SF

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: NOV 02 2023 FILE #: 22-0241
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Mark A. Senczek

UTILITY NOTE:

ALL UTILITIES SHOWN HEREIN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL ACQUIRE ALL APPLICABLE PERMITS. ALL SEWER LINES SHALL BE SLEEVED 10' ON EACH SIDE AT EACH WATER LINE CROSSING PER LOCAL REGULATIONS. *ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

ALL ELECTRIC OR OTHER UTILITY WORK REQUIRED TO BE INSTALLED SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THESE PLANS AND APPROVED BY RIDEM. ANY DEVIATION FROM THIS SHALL REQUIRE COORDINATION AND APPROVAL FROM RIDEM.



LOCUS MAP (NOT TO SCALE)

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

NOTE PER DEM:
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EXISTING CONDITIONS

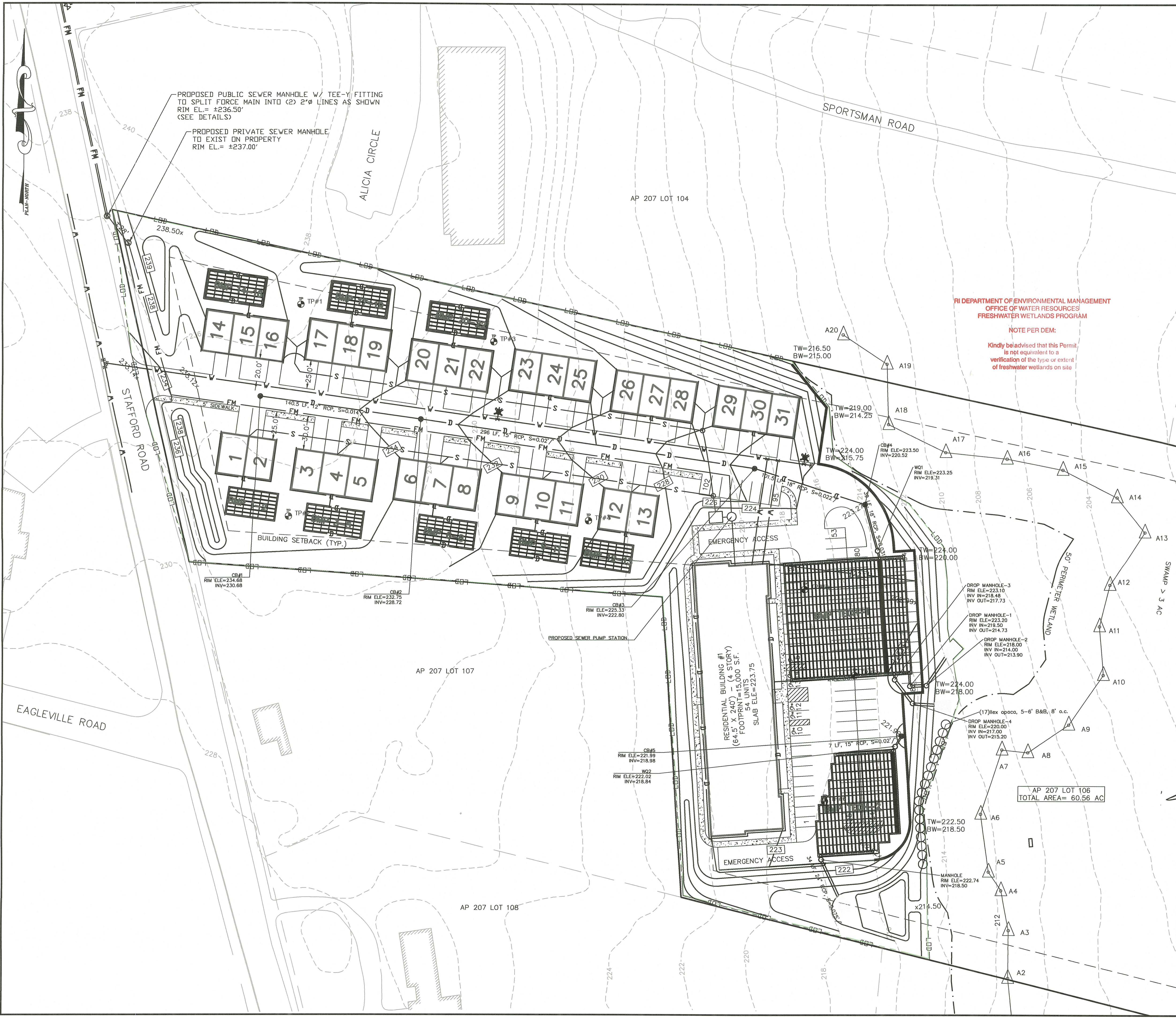
<p>Thomas J. Principe, III REGISTERED PROFESSIONAL ENGINEER</p>	<p>PRINCIPE COMPANY, INC. ENGINEERING DIVISION PO BOX 298 TIVERTON, RI 02878 401.816.5385 WWW.PRINCIPEENGINEERING.COM</p>
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REVISIONS			
No.	DATE	DRWN	CHKD
1.	06/25/23	KAB	TJP

RIDEM PERMIT SET
 for
0 STAFFORD ROAD
AP 207 LOT 106
 in
 TIVERTON, RHODE ISLAND

Office of Water Resources
 AUG 28 2023

SCALE: 1" = 200' SHEET NO: 1 OF 8
 DRAWN BY: KAB DESIGN BY: KAB CHECKED BY: TJP
 DATE: 06/03/2022 PROJECT NO.: LD-2020-11



LEGEND

PROPERTY LINE	---	BUILDING SETBACK	---
ABUTTER LINE	---	PROPOSED DOWNSPOUTS	⊕
EX. EDGE OF PAVEMENT	---	PROPOSED CONTOUR	87
EXISTING CONTOUR	---	PROPOSED SPOT GRADE	x 116.5
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50' PERIMETER WETLAND	---		
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 MIN. LOT AREA: 25,000
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 MAX. BLD. COVERAGE: 4,500 SF

STREET INDEX
 STAFFORD ROAD (ROUTE 81) (STATE, PUBLIC)
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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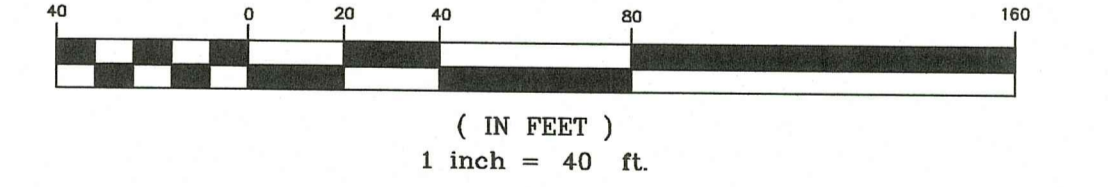
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GRAPHIC SCALE



PROPOSED CONDITIONS

Thomas J. Principe, III
 REGISTERED PROFESSIONAL ENGINEER

PRINCIPE COMPANY, INC.
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 PO BOX 298
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 WWW.PRINCIPEENGINEERING.COM

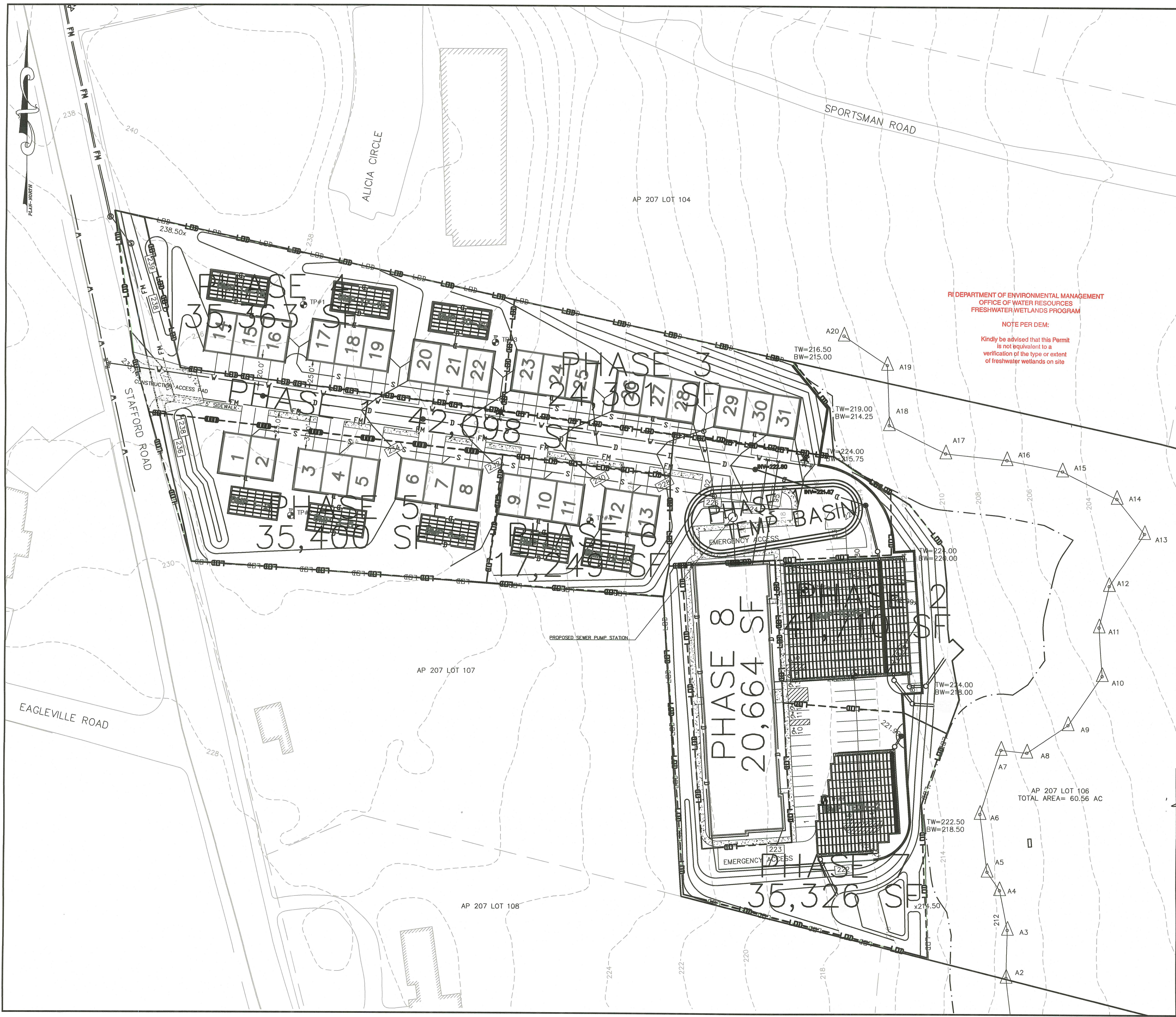
REVISIONS

No.	DATE	DRWN	CHKD
1.	08/25/23	KAB	TJP

RIDEM PERMIT SET
 for
0 STAFFORD ROAD
AP 207 LOT 106
 in
 TIVERTON, RHODE ISLAND

SCALE: 1" = 40'	SHEET NO: 2 OF 8
DRAWN BY: KAB	DESIGN BY: KAB
DATE: 06/03/2022	CHECKED BY: TJP
PROJECT NO.: LD-2020-11	

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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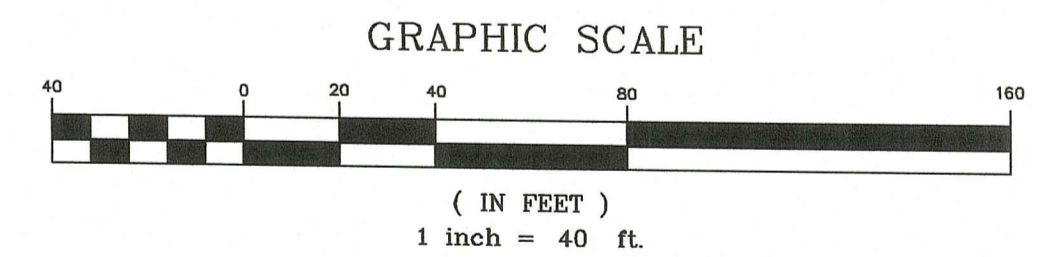
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Environmental Management
 AUG 28 2023
 Office of Water Resources

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SERSC PLAN

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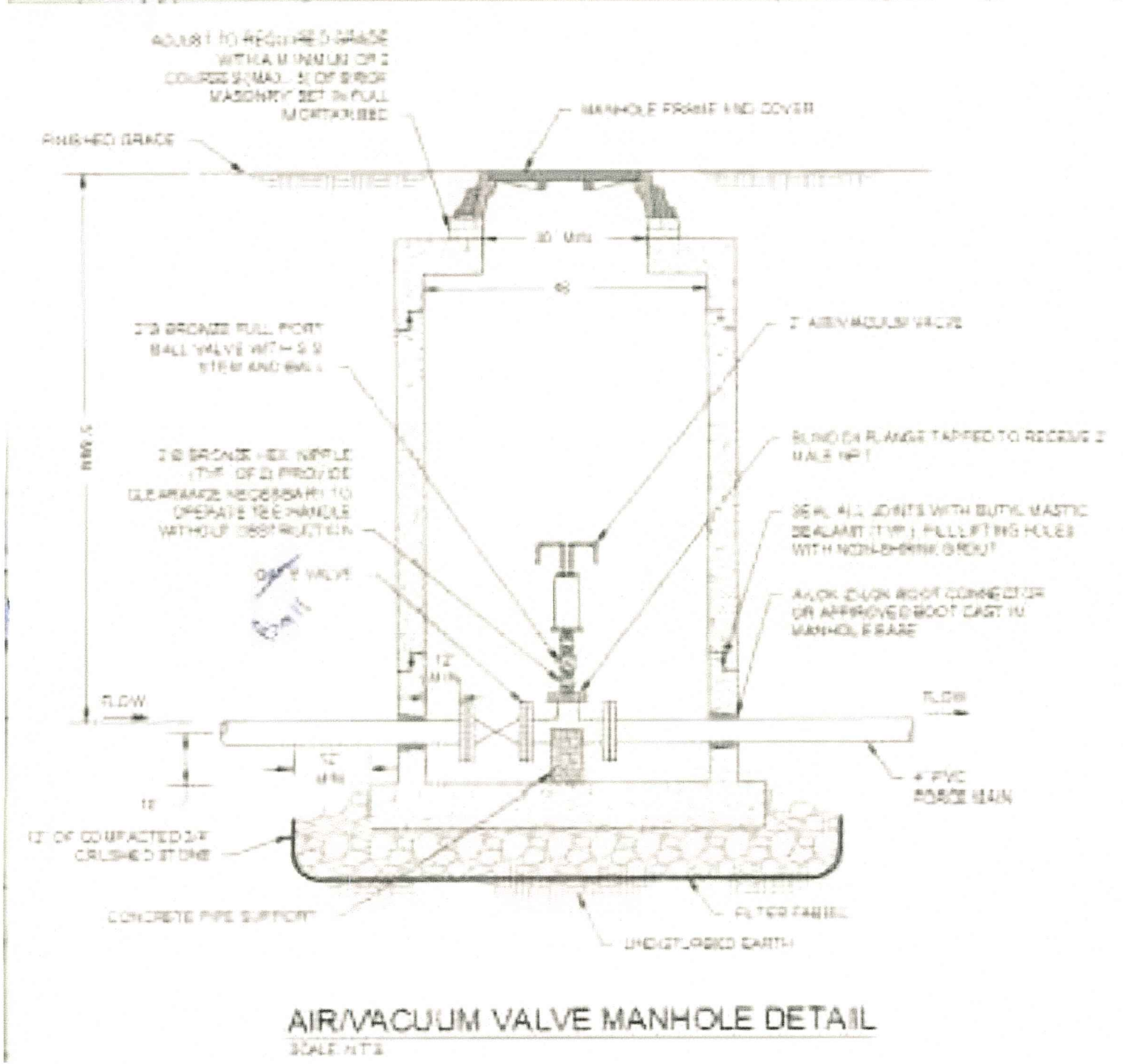
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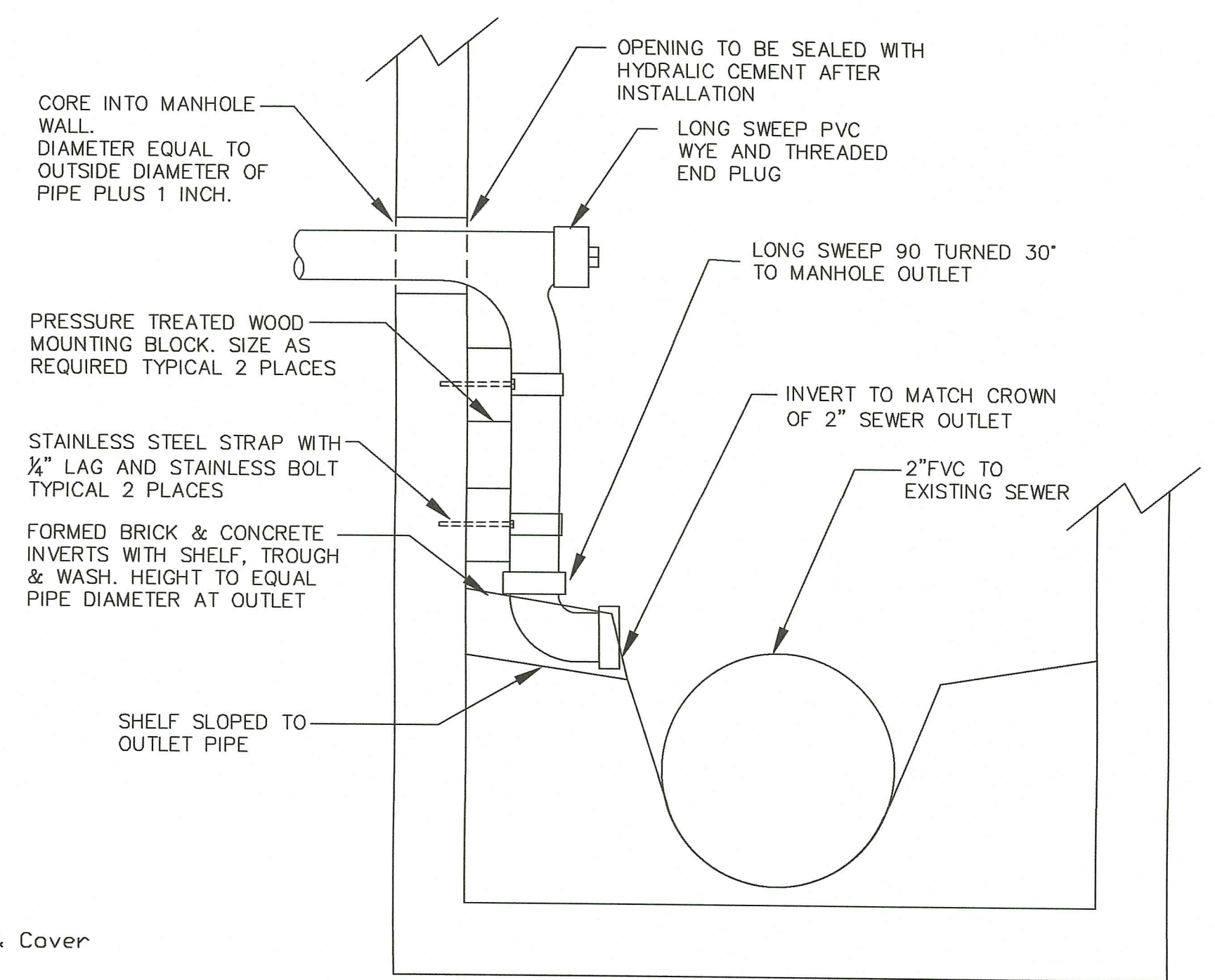
No.	DATE	DRWN	CHKD
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RIDEM PERMIT SET
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TIVERTON, RHODE ISLAND

SCALE: 1" = 40' SHEET NO: 3 OF 8
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 DATE: 06/03/2022 PROJECT NO.: LD-2020-11

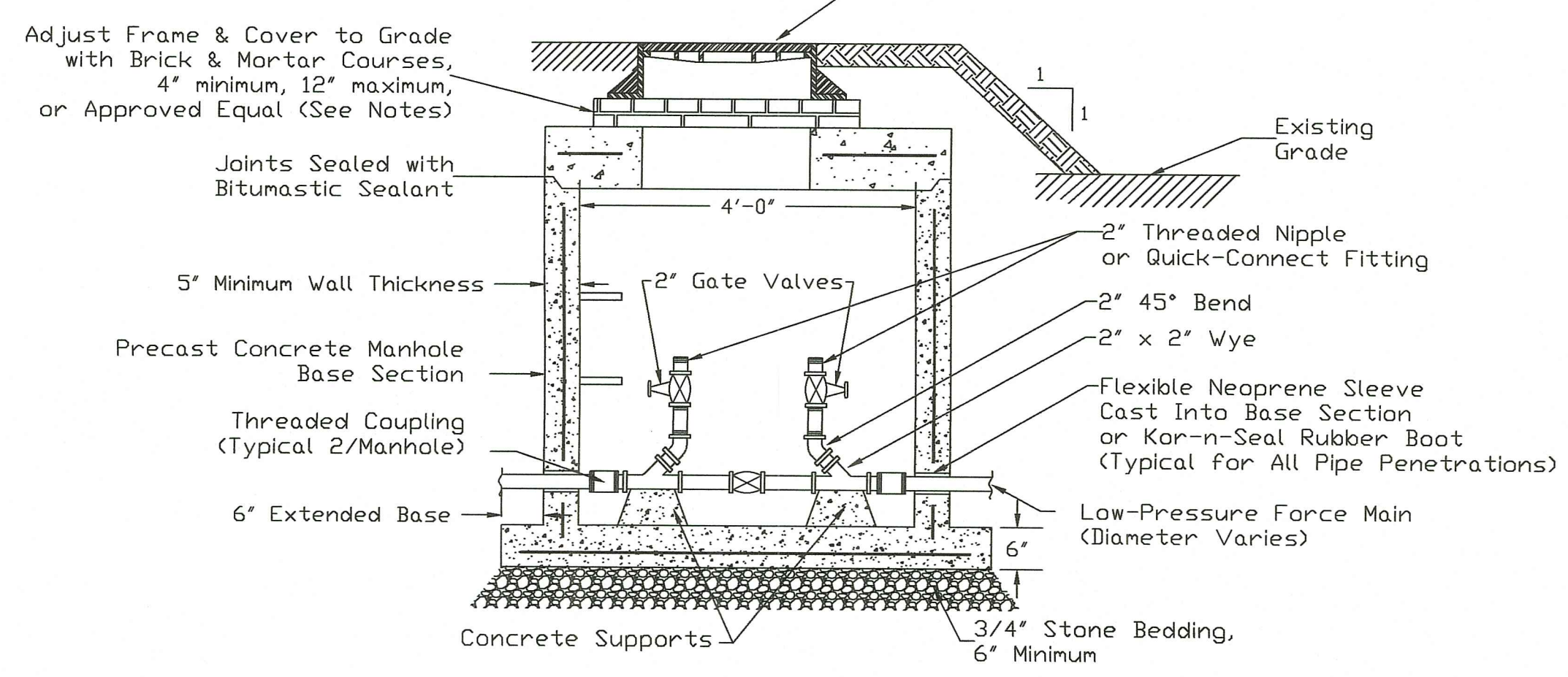


AIR/VACUUM VALVE MANHOLE DETAIL
SCALE N.T.S.

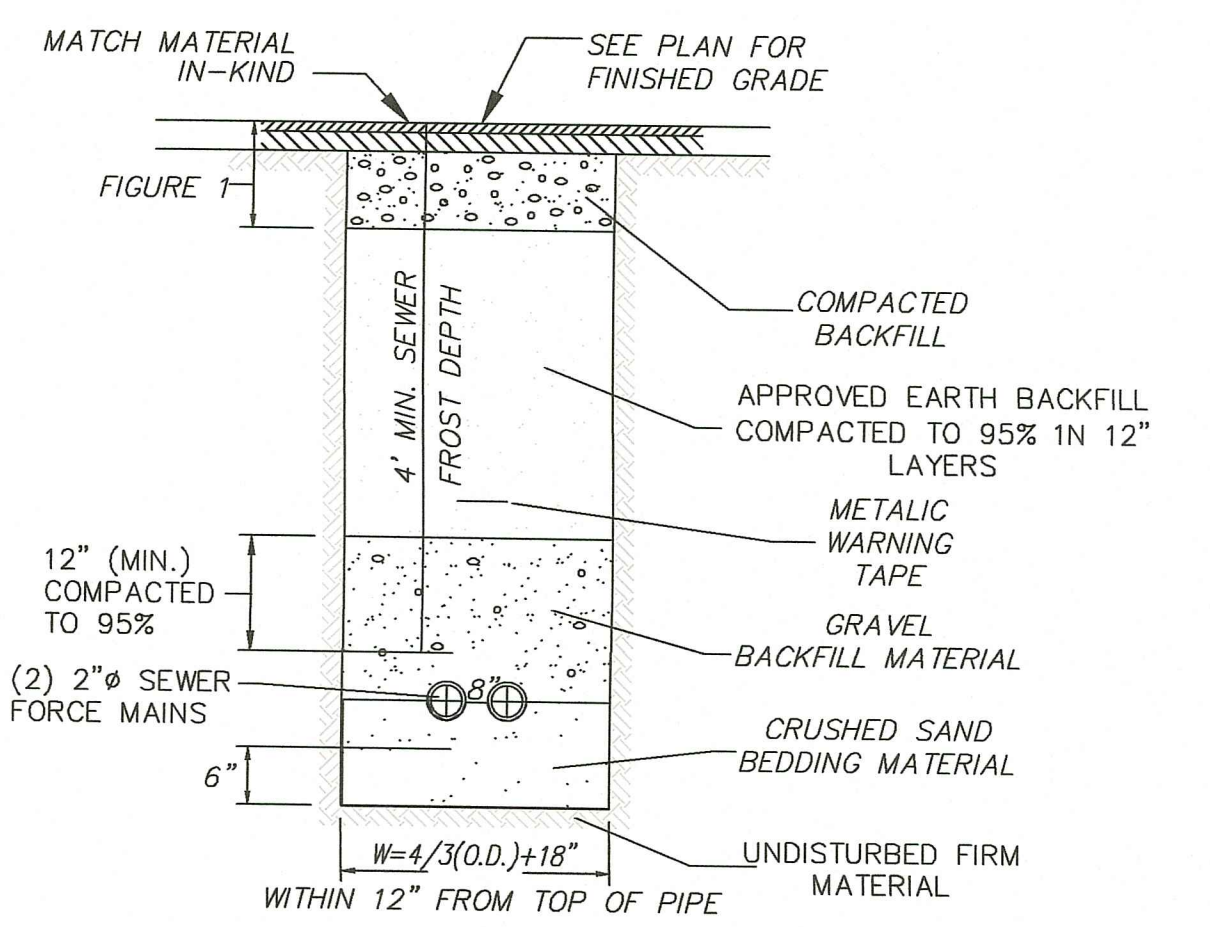


SEWER FORCE MAIN MANHOLE DETAIL
NOT TO SCALE
SHOP DRAWING SUBMITTAL REQUIRED

Environmental Management
AUG 23 2023
Office of Water Resources



SEWER CLEANOUT DETAIL
NOT TO SCALE



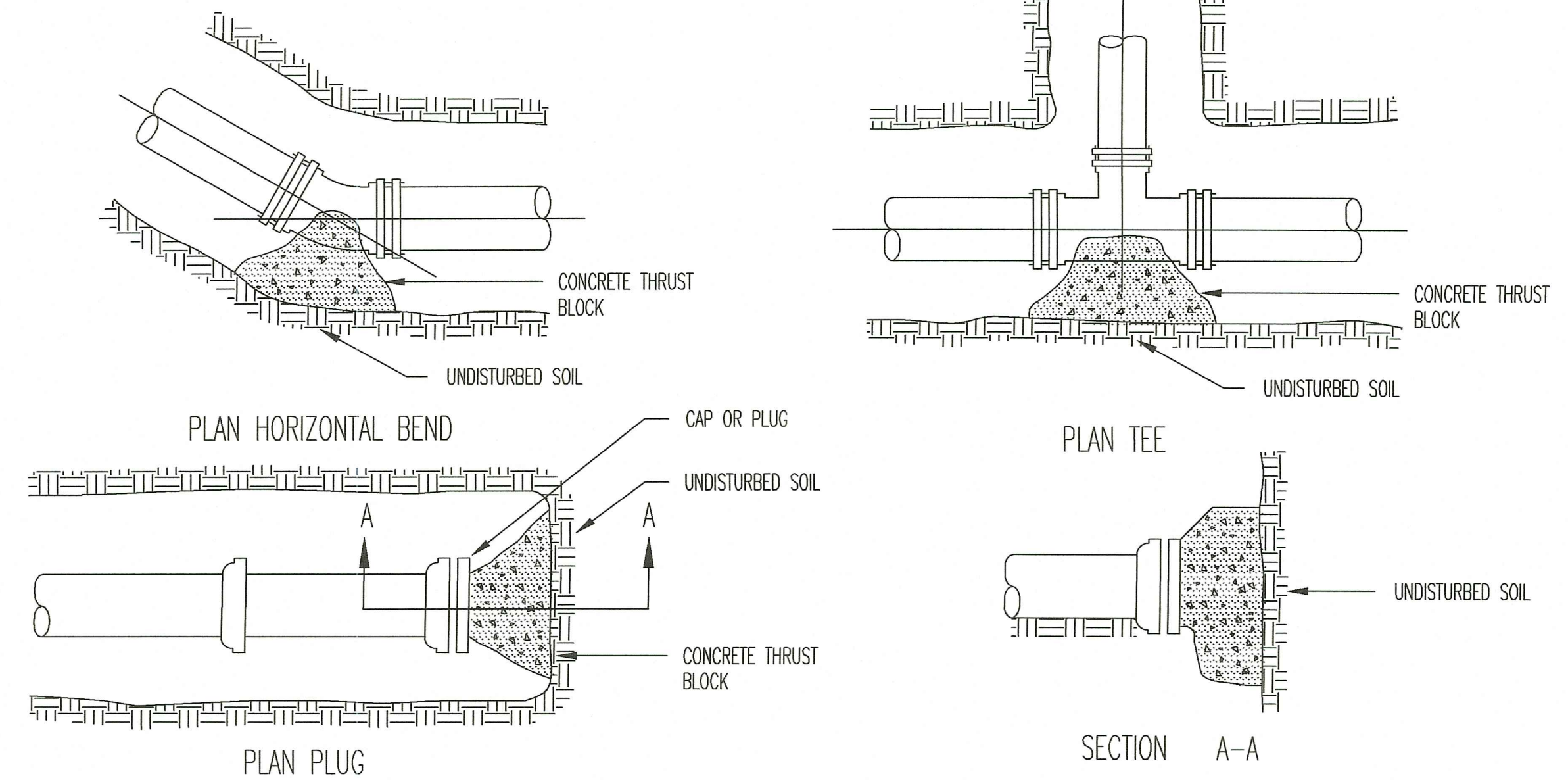
SEWER FM TRENCH DETAIL
NOTE: NOT TO SCALE

MATERIAL USED FOR BACK FILLING TO A POINT 2 FEET OVER THE PIPE SHALL CONTAIN NO STONES LARGER THAN 3 INCHES IN GREATEST DIMENSION, REMAINING BACK FILL SHALL CONTAIN NO STONES LARGER THAN 12\"/>

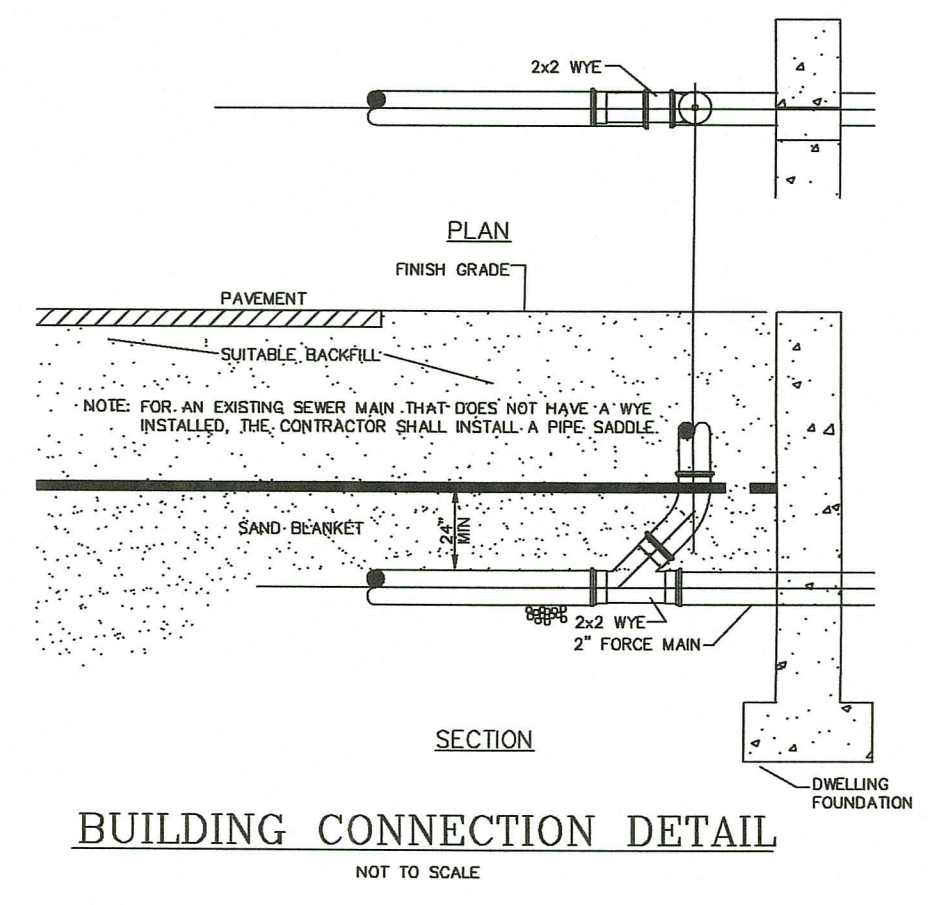
- NOTES:**
1. ALL CEMENT TO BE 300 PSI PORTLAND CEMENT.
 2. ALL WORK IS TO BE IN ACCORDANCE WITH THE WATER COMPANY STANDARDS AND/OR LOCAL SEWER AUTHORITY.
 3. THRUST BLOCK DIMENSIONS SHOWN ARE MINIMUM AND ARE BASED ON SOIL BEARING CAPACITY OF 1500 PSF AND STATIC WATER PRESSURE OF 70 PSI. WHERE SOIL BEARING CAPACITY IS LESS THAN 1500 PSF OR EXCAVATION LIMITS ENCOUNTERED DURING CONSTRUCTION MAKE IT UNFEASIBLE TO PLACE THRUST BLOCKS AGAINST UNDISTURBED EARTH, THE CONTRACTOR SHALL PLACE SPECIAL REACTION BLOCKS OF SUFFICIENT WEIGHT TO RESIST THE FULL THRUST OF THE LINE UNDER TEST AND OPERATING PRESSURES.

SIZE	1/4" BENDS		1/8" BENDS		1/16" BENDS		TEES		PLUGS	
	A	B	A	B	A	B	A	B	C	D
4"	12"	8"	8"	9"	6"	8"	8"	10"	8"	18"
6"	18"	12"	10"	12"	8"	9"	10"	14"	10"	21"
8"	24"	14"	13"	14"	9"	11"	14"	17"	12"	29"
12"	33"	22"	18"	22"	12"	18"	20"	26"	16"	41"

- Notes:**
- 1) Precast manholes shall be manufactured in accordance with ASTM-C478.
 - 2) All manhole penetrations shall be sealed and watertight.
 - 3) Bolted & gasketed covers shall be used on manholes in off-road areas.
 - 4) Air-release manholes shall be installed at every high point in low-pressure force mains, or as directed by the Town.
 - 5) Low-pressure force mains shall have a minimum of five (5) feet of cover at and approaching air-release manholes.
 - 6) All pipe and fittings inside manholes shall be 150-psi galvanized steel.
 - 7) All mainline fittings inside manholes shall be the same size as the main (fittings for a 2" force main are shown as typical).
 - 8) Concrete supports shall be minimum 3,000 psi mix, formed and cast in-place.
 - 9) Precast concrete grade rings, HDPE grade rings, or other rim adjustment products may be used in lieu of brick and mortar with the permission of the Engineering Department.



THRUST BLOCK DETAILS
NOT TO SCALE



BUILDING CONNECTION DETAIL
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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No.	DATE	DRWN	CHKD
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RIDEM PERMIT SET
for
0 STAFFORD ROAD
AP 207 LOT 106
in
TIVERTON, RHODE ISLAND

SCALE: AS NOTED SHEET NO: 4 OF 8
DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP
DATE: 06/03/2022 PROJECT NO.: LD-2020-11

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 MASSACHUSETTS SPECIFICATIONS.
 - THE DESIGN SEED MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDED SHALL BE COMPRISED OF THE FOLLOWING:
- | TYPE | % BY WEIGHT | SEEDING DATE |
|---------------------|-------------|------------------------|
| CREEPING RED FESCUE | 70 | |
| ASTORIA BENTGRASS | 5 | APRIL 1 - JUNE 15 |
| BIRDFOOT TREFOLI | 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 SACKS 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 CONTROL, 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.

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.

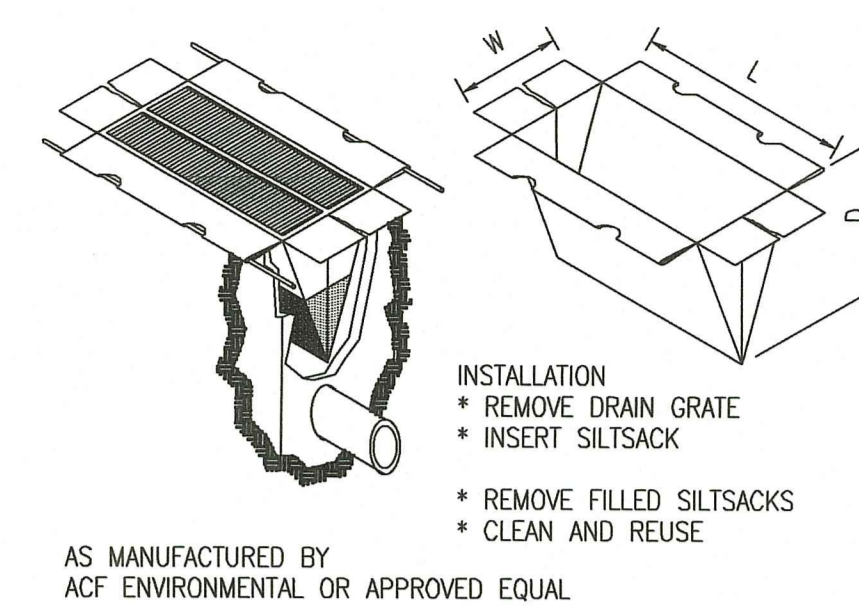
CARE SHOULD BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.

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 (SEE DETENTION BASIN MAINTENANCE, THIS SHEET).

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 PORTSMOUTH.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ADJUTING 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.

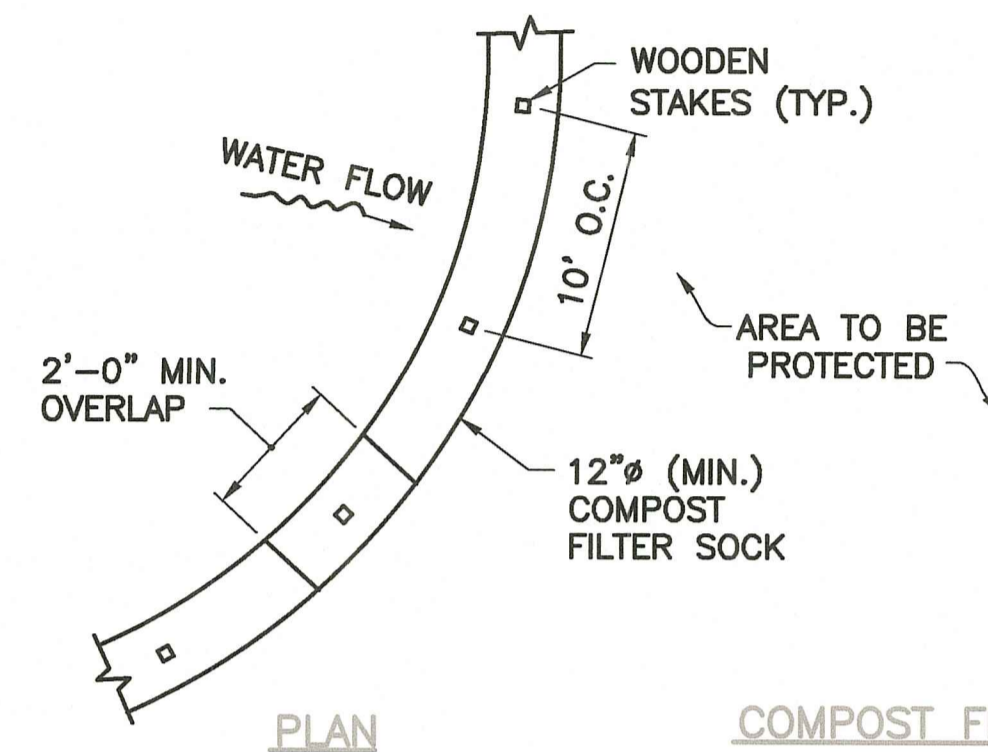


- INSTALLATION**
- REMOVE DRAIN GRATE
 - INSERT SILTSACK
 - REMOVE FILLED SILTSACKS
 - CLEAN AND REUSE

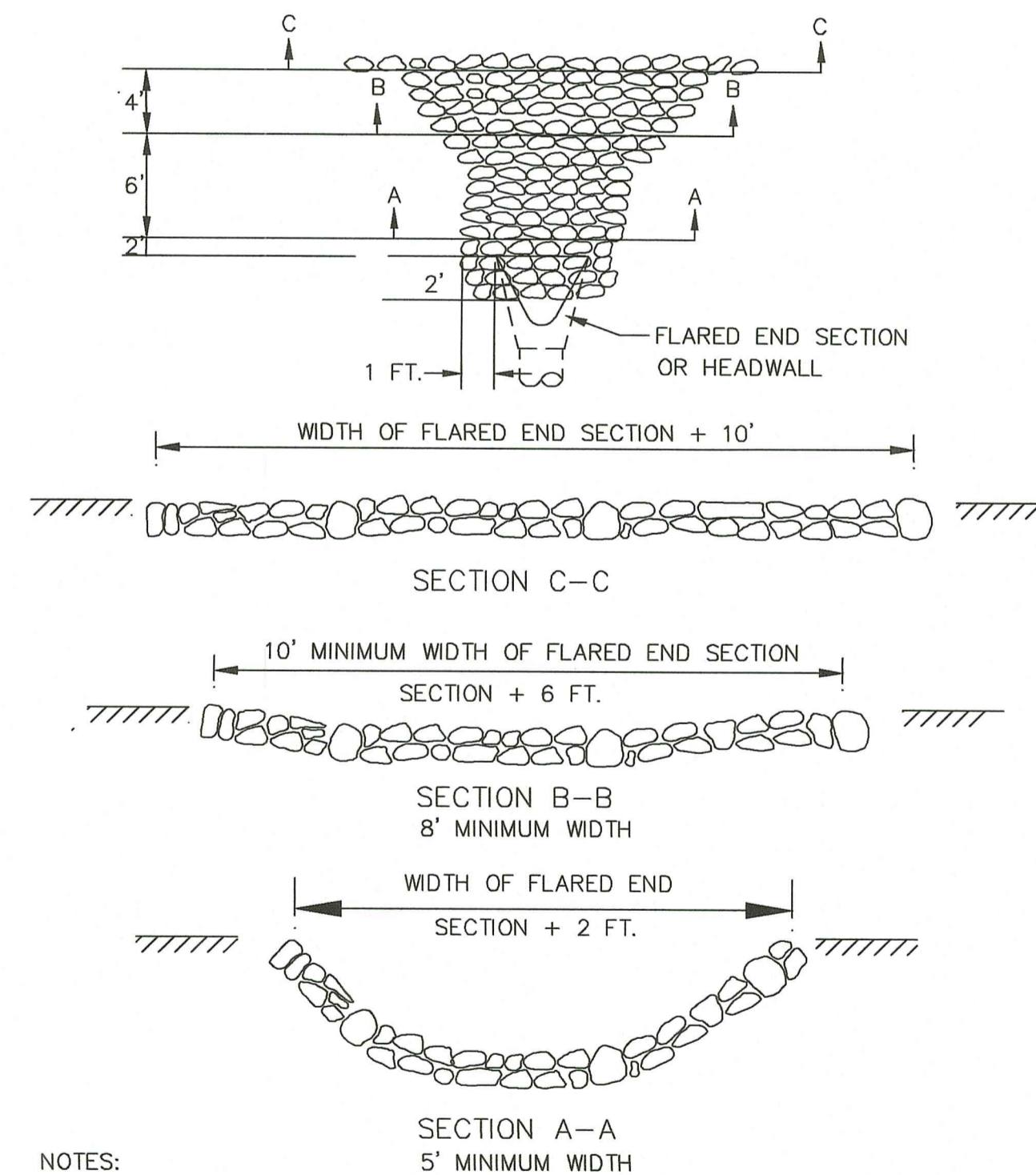
AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL

SILTSACK DETAIL

NOT TO SCALE



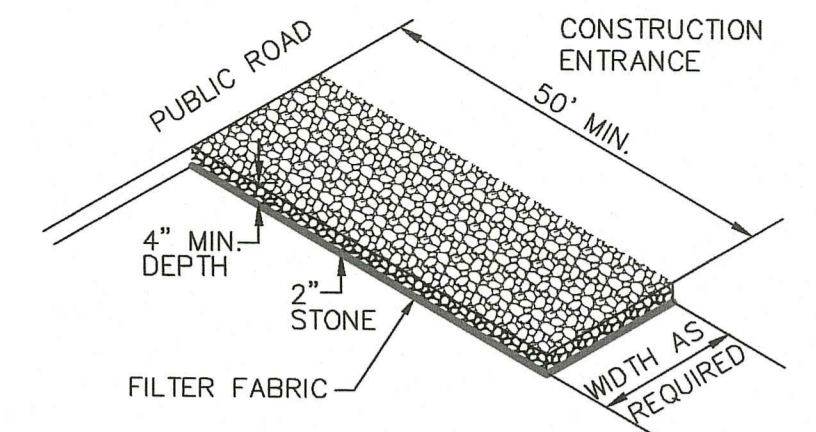
PERIMETER EROSION CONTROLS
NOT TO SCALE



ROCK FILL RIP-RAP
© FLARED END SECTIONS AND HEADWALLS
NOT TO SCALE

RIP-RAP STONE

STONE / DEPTH	BEDDING SIZE / DEPTH
M02.02.4 / 12"	1" STONE / 4"
M02.02.4 =	8" - 95 / 100%
	4" - 0 / 25%
	2 1/2" - 0 / 5%



MATERIALS SIZE

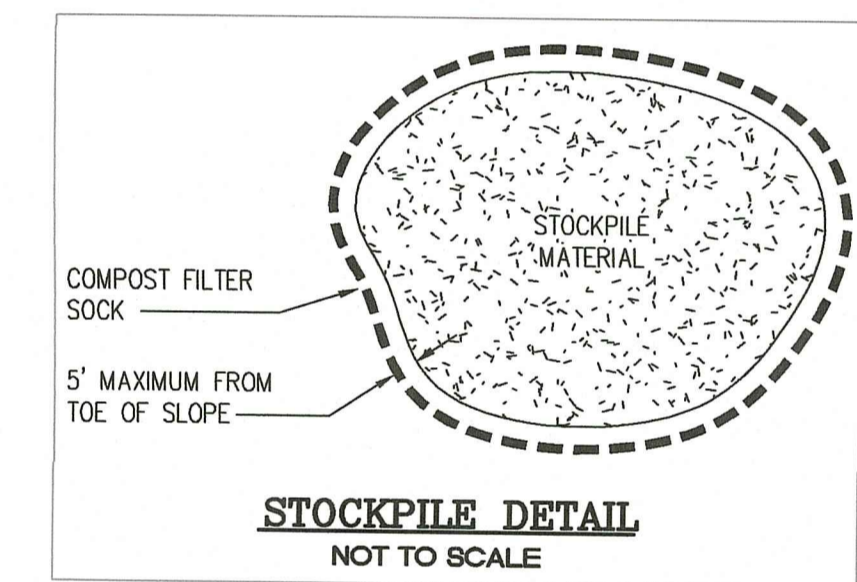
SQUARE MESH SIEVES	2" CRUSHED STONE OR GRAVEL	ASTM NO. 2	ASTM C-33 NO. 3
	% FINER	% FINER	% FINER
2-1/2 INCHES	100	90-100	100
2 INCHES	95-100	35-70	90-100
1-1/2 INCHES	30-55	0-15	35-70
1-1/4 INCHES	0-25	-	-
1 INCH	0-5	-	0-15
3/4 INCH	-	0-5	-
1/2 INCH	-	-	0-5
3/8 INCH	-	-	-

NOTE: STABILIZATION PAD TO BE IN CONFORMANCE WITH STANDARDS SET FORTH IN THE "RHODE ISLAND GUIDELINES FOR SOIL & SEDIMENT CONTROL".

RIP-RAP STABILIZATION PAD @ CONSTRUCTION ENTRANCE
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.



STOCKPILE DETAIL
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER W/ LANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: NOV 02 2023 FILE #: 22-0241
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Yartia D. Wemack

DRAWING ISSUE:

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

DETAILS-2

<p>REGISTERED PROFESSIONAL ENGINEER</p>	<p>PRINCIPE COMPANY, INC. ENGINEERING DIVISION PO BOX 298 TIVERTON, RI 02878 401.816.5385 WWW.PRINCIPEENGINEERING.COM</p>
<p>SCALE: AS NOTED SHEET NO: 5 OF 8</p>	
<p>DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP</p>	
<p>DATE: 06/03/2022 PROJECT NO.: LD-2020-11</p>	

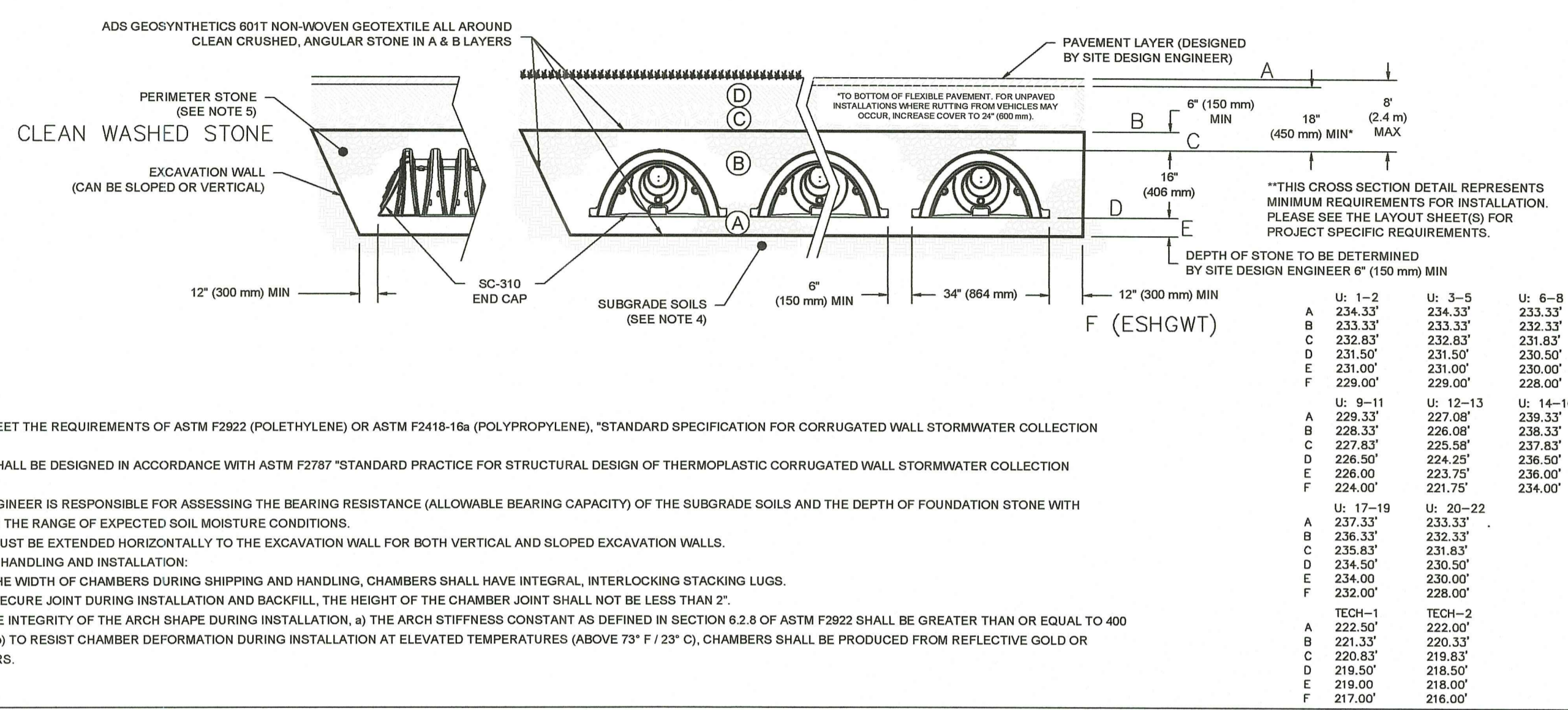
REVISIONS

No.	DATE	DRWN	CHKD
1.	08/25/23	KAB	TJP

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

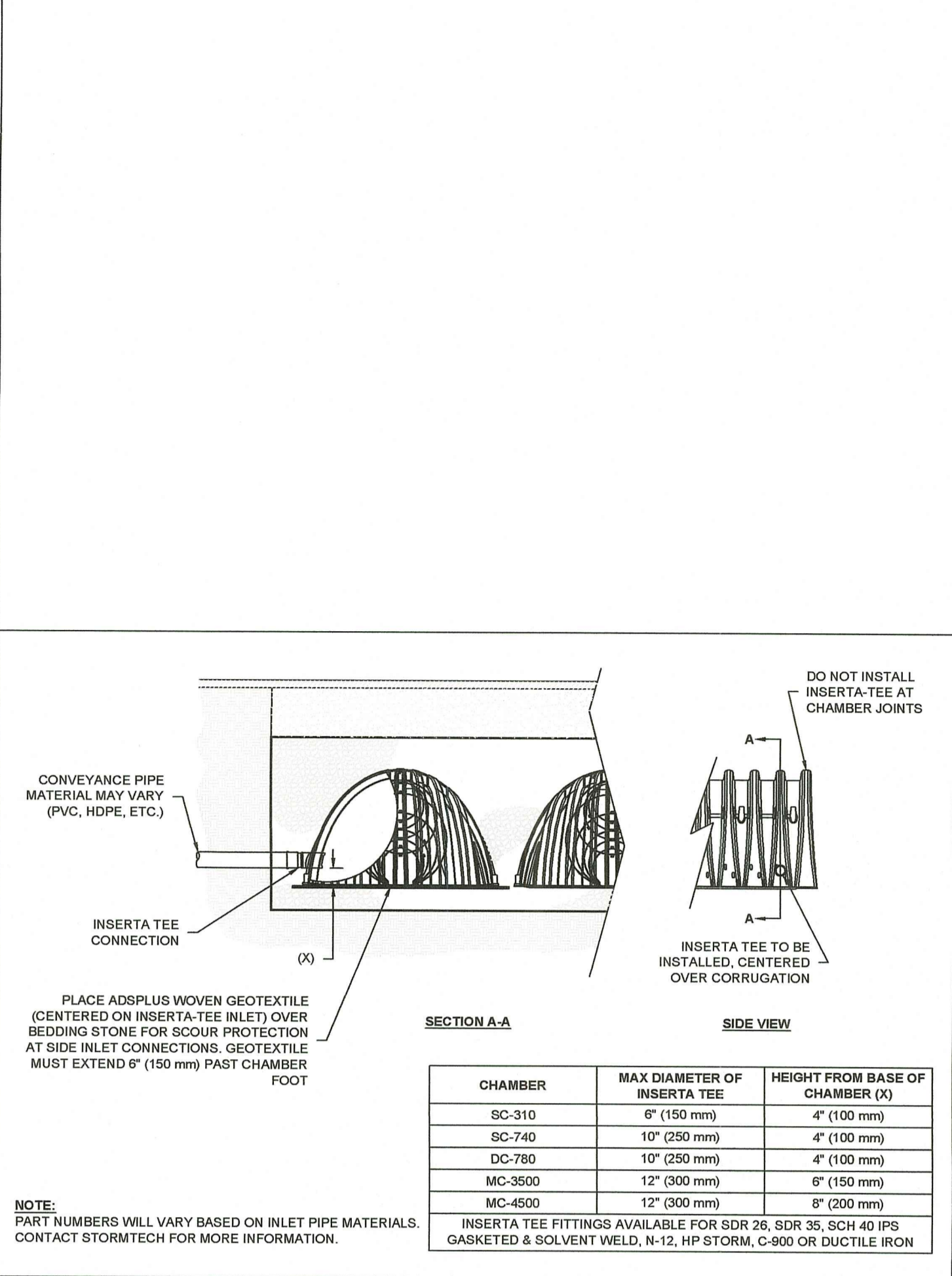
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ³ 3, 357, 4, 467, 5, 56, 57
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ³ 3, 357, 4, 467, 5, 56, 57

PLEASE NOTE:
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

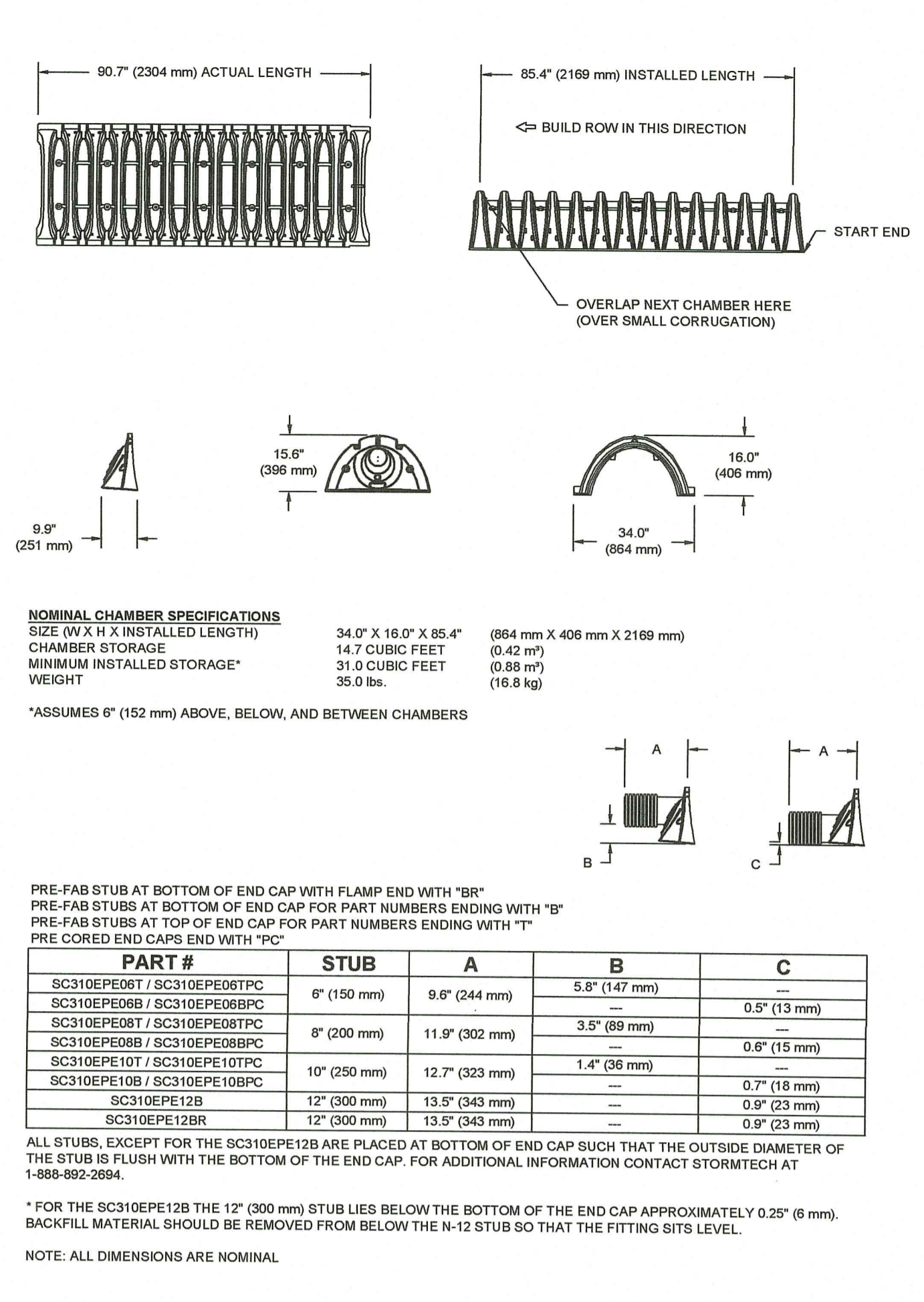


- NOTES:**
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 8.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

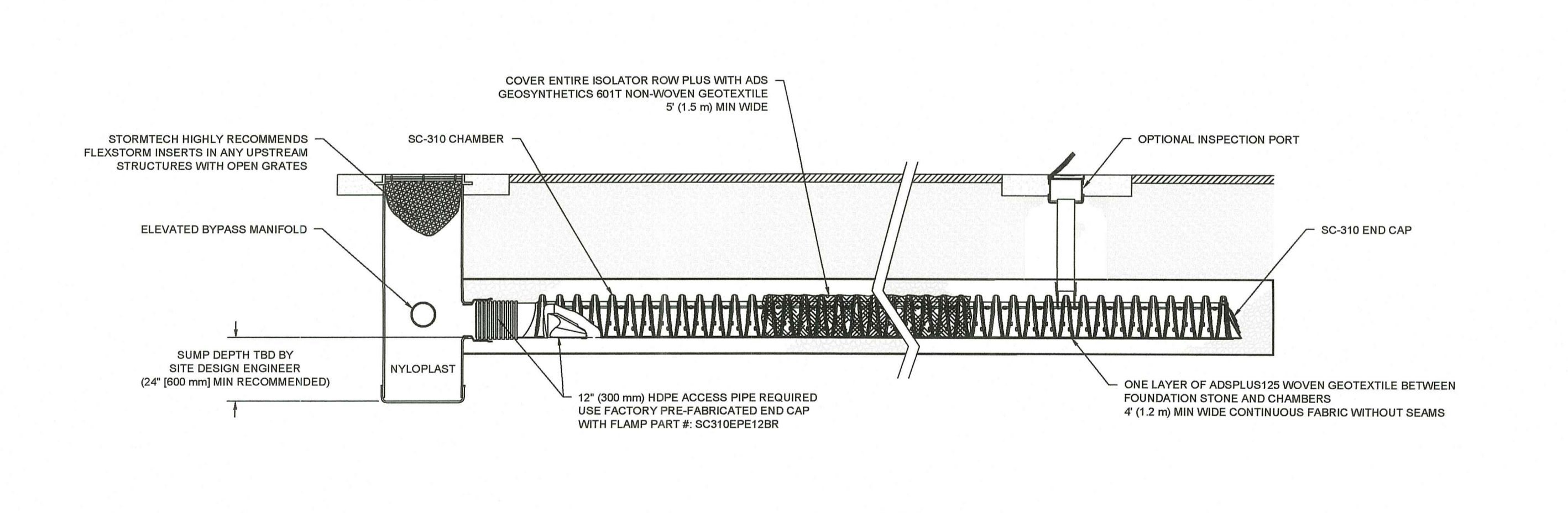
1 SC-310 CROSS SECTION DETAIL



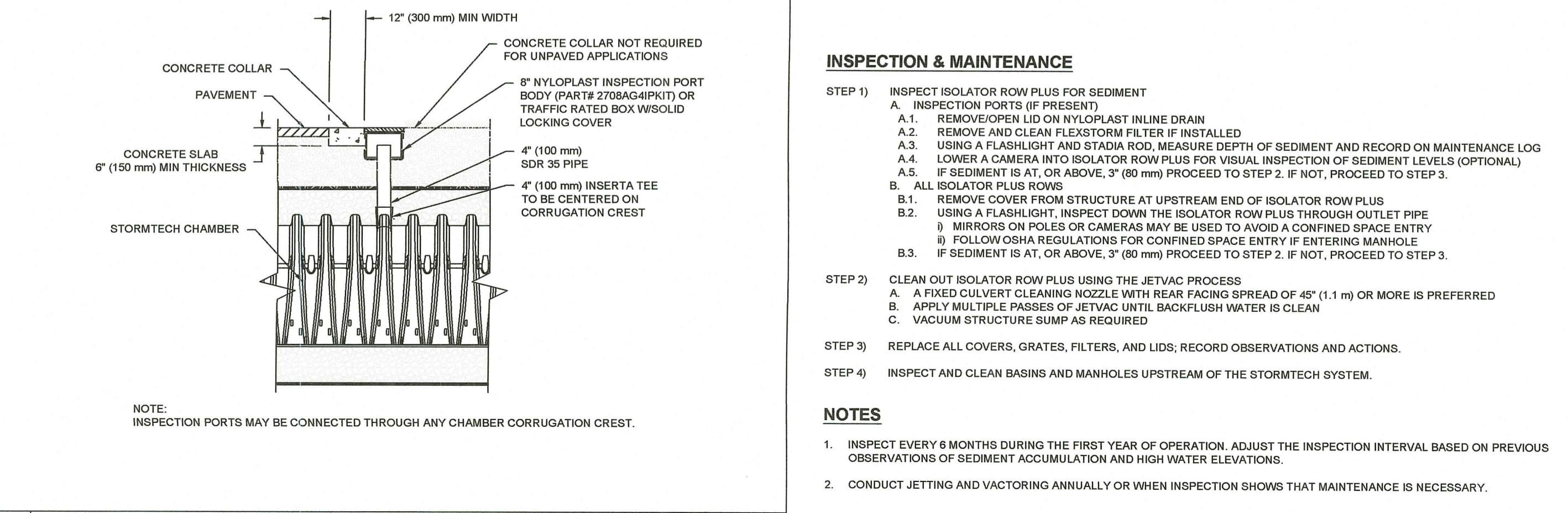
6 INSERTA-TEE SIDE INLET DETAIL



2 SC-310 TECHNICAL SPECIFICATIONS



3 SC-310 ISOLATOR ROW PLUS DETAIL



4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

- SC-310 STORMTECH CHAMBER SPECIFICATIONS**
- CHAMBERS SHALL BE STORMTECH SC-310.
 - CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
 - CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
 - THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
 - CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 8.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
 - ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL, BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
 - CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

2-BLDG. SYSTEMS=42 UNITS EACH
 3-BLDG. SYSTEMS=49 UNITS EACH
 TECH-1 SYSTEM=448 UNITS
 TECH-2 SYSTEM=227 UNITS

SHOP DRAWINGS REQUIRED

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: NOV 0 2 2023 FILE #: 22-0241
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenczek

DETAILS-3

Thomas J. Principe, III
 REGISTERED PROFESSIONAL ENGINEER

PRINCIPE COMPANY, INC.
 ENGINEERING DIVISION
 PO BOX 298
 TIVERTON, RI 02878
 401.816.5385
 WWW.PRINCIPEENGINEERING.COM

REVISIONS

No.	DATE	DRWN	CHKD
1.	08/25/23	KAB	TJP

DRAWING ISSUE:

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

RIDEM PERMIT SET
 for
0 STAFFORD ROAD
AP 207 LOT 106
 in
TIVERTON, RHODE ISLAND

SCALE: AS NOTED

DRAWN BY: TJP

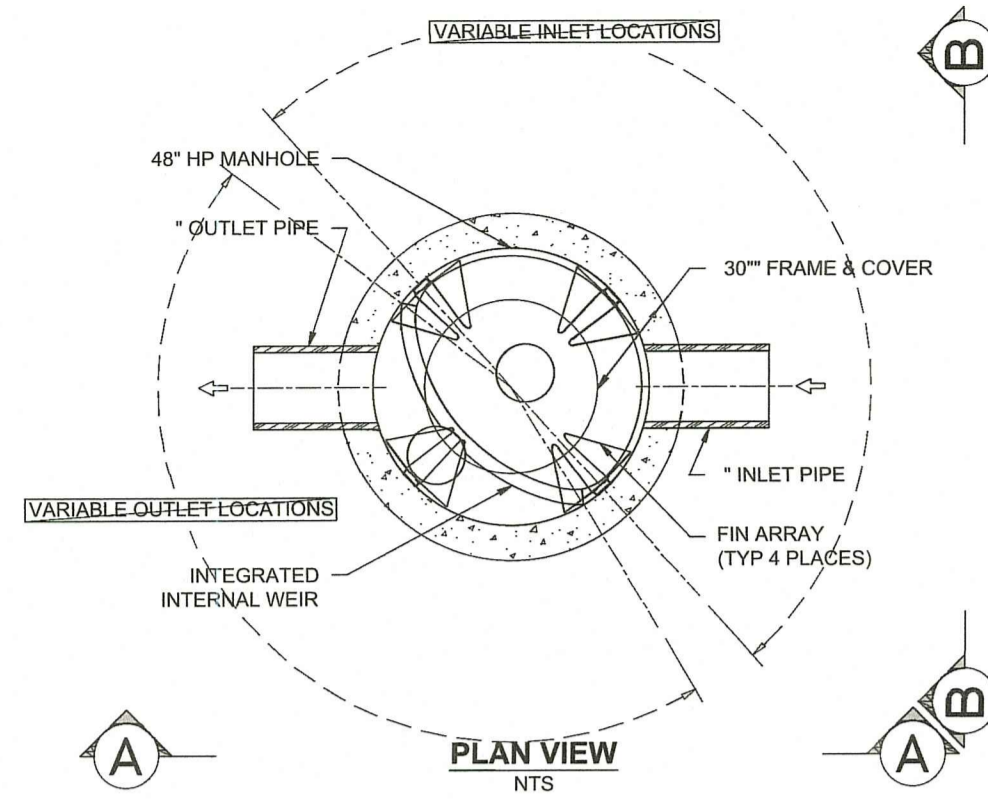
DATE: 06/03/2022

SHEET NO: 6 OF 8

DESIGN BY: TJP

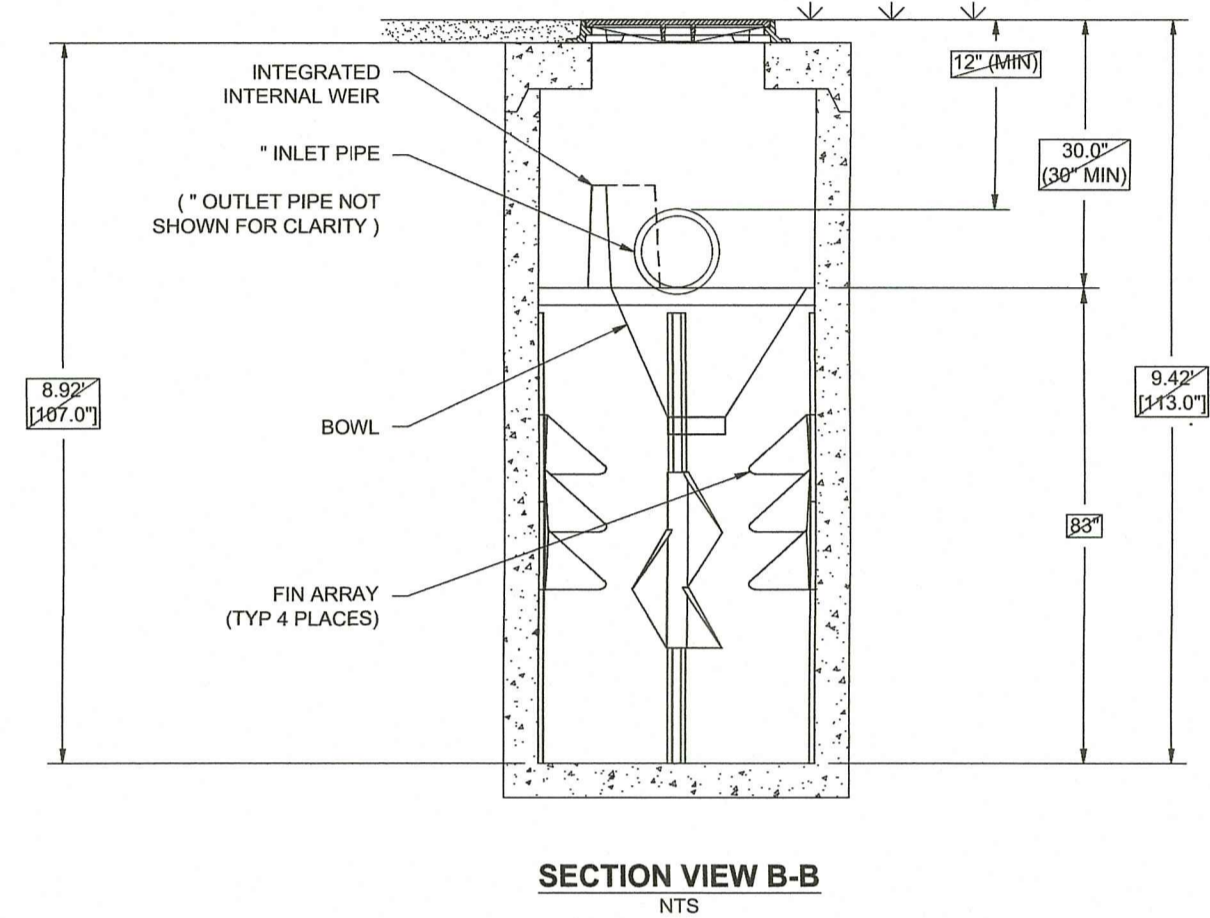
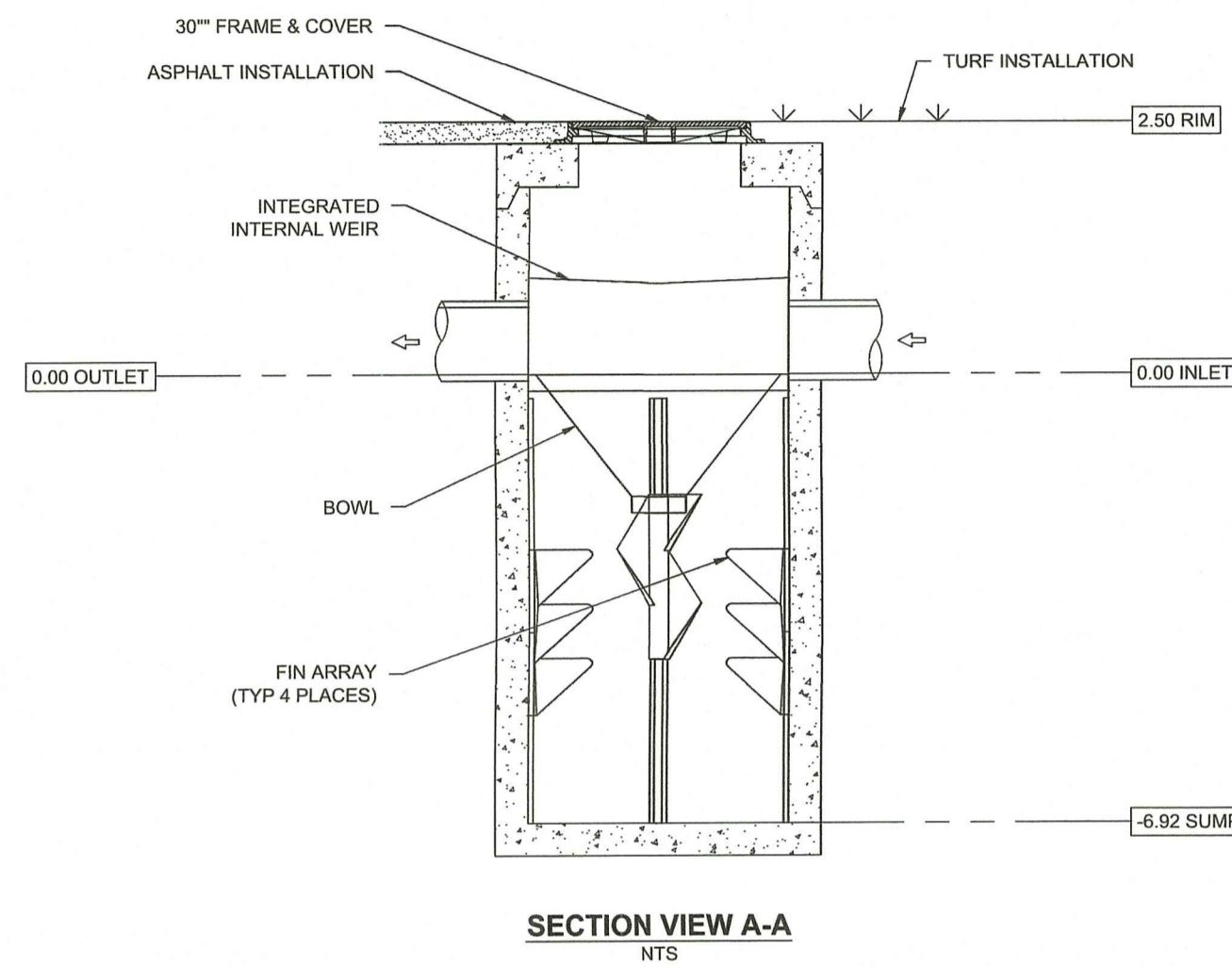
PROJECT NO.: LD-2020-11

CHECKED BY: TJP



WQ1=S3 UNIT (0.85 CFS>0.65 CFS) OK
 WQ2=S4 UNIT (1.52 CFS>0.91 CFS) OK
 SHOP DRAWINGS REQUIRED

BARRACUDA S4	
UNIT ID	BMP#1
PEAK FLOW RATE (CFS)	
TREATMENT FLOW RATE (CFS)	



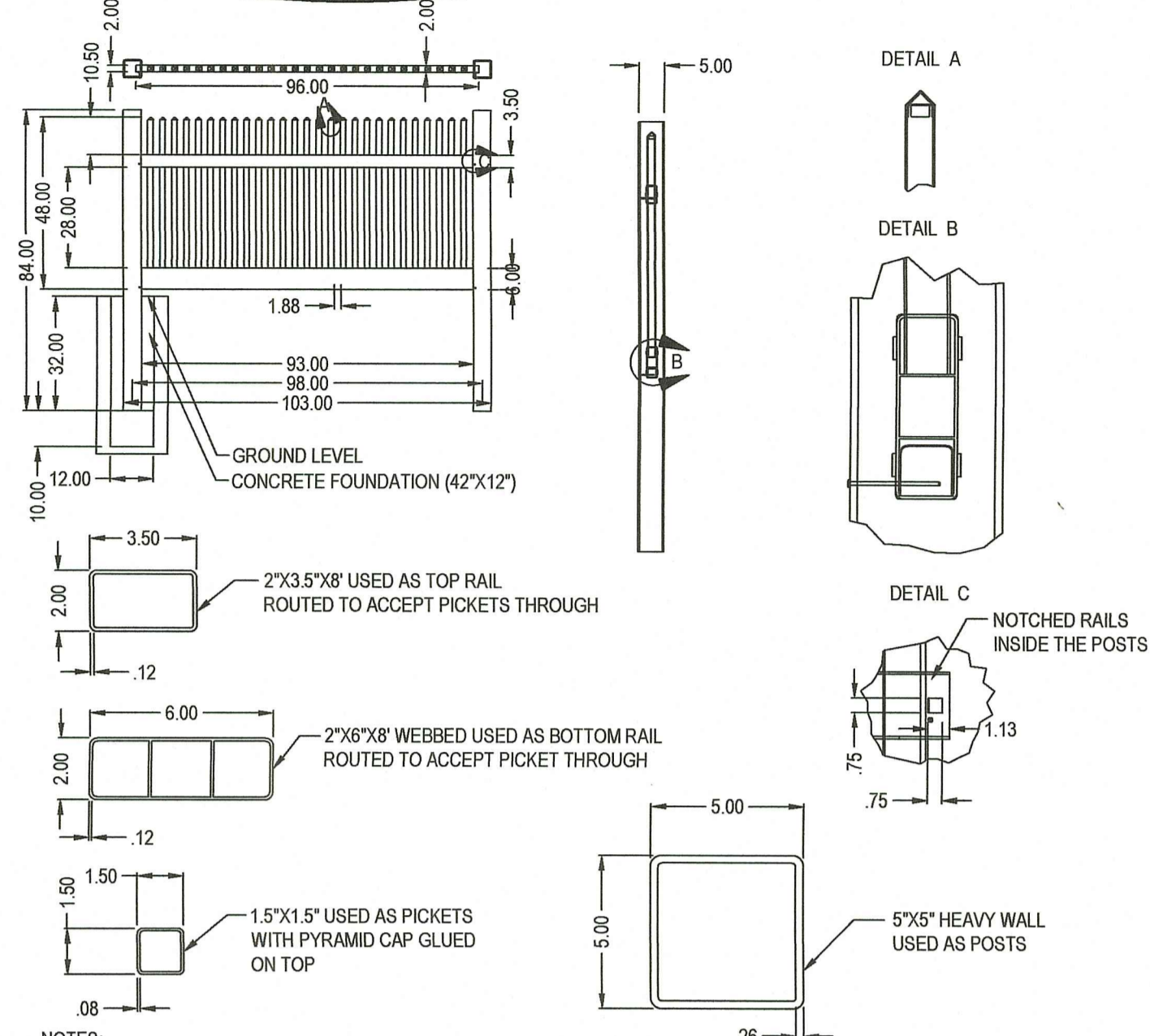
DESCRIPTION	BARRACUDA S4 STANDARD DETAIL		
DATE	10/20/17		
PROJECT #			
REV	DATE	BY	CHKD
1	08/25/23	KAB	TJP

1000 TRUESMAN BLVD
 HILLIARD, OH 43026
 614-885-4400
 WWW.DSDESIGN.COM

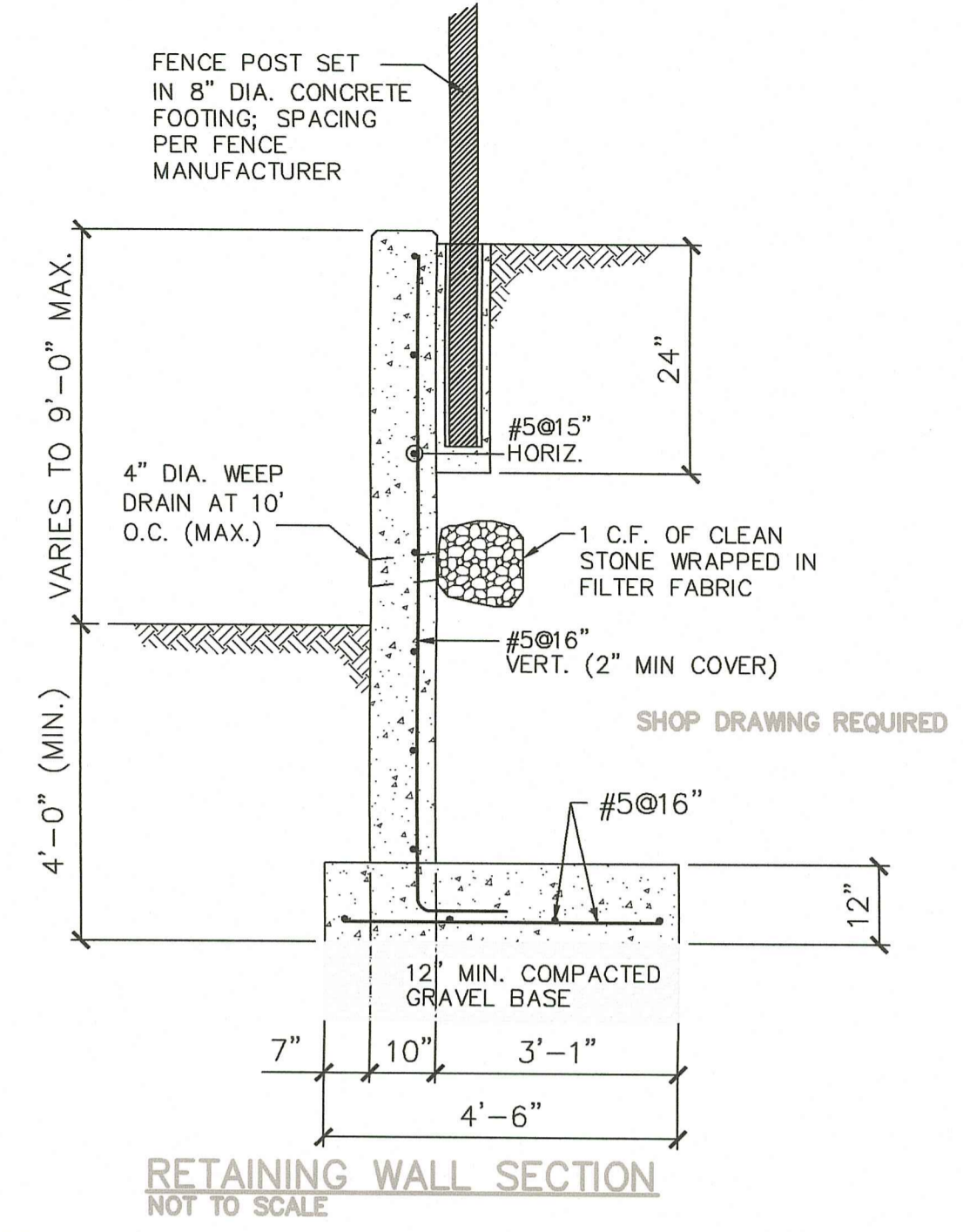
1 SHEET OF 1



ILLUSIONS VINYL FENCE
 274 MIDDLE ISLAND ROAD
 MEDFORD, NY 11763
 TOLL FREE: 1-800-339-3362
 www.illusionsfence.com



PICKET FENCE (ADJACENT TO RETAINING WALL BLDGS. D & F)
 V700-4 VINYL 4FT. HIGH VICTORIAN STRAIGHT



- NOTES:
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH $F'_c = 3,000$ PSI.
 - REINFORCING BARS SHALL CONFORM TO ASTM 615 GRADE 60 DEFORMED BARS, AND SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH ACI 315.
 - REINFORCING BAR SPLICES SHALL BE MADE IN ACCORDANCE WITH ACI 318-02.
 - PROVIDE BENT CORNER REINFORCING TO MATCH AND LAP HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS OF WALLS AND FOOTINGS.

Environmental Management
 AUG 23 2023
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: NOV 02 2023 FILE # 22-0241
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Mark D. Wenczek

DETAILS-4

Thomas J. Principe, III
 REGISTERED PROFESSIONAL ENGINEER

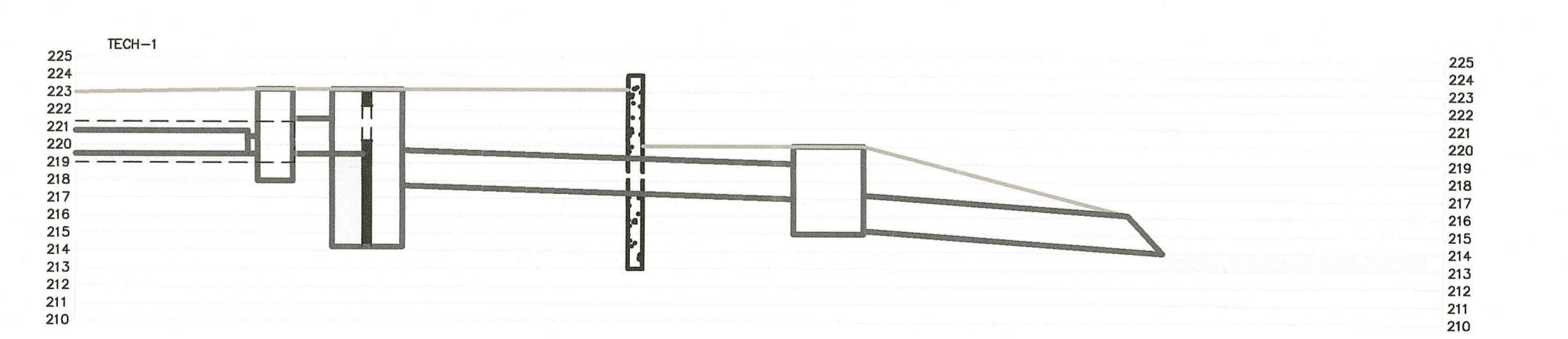
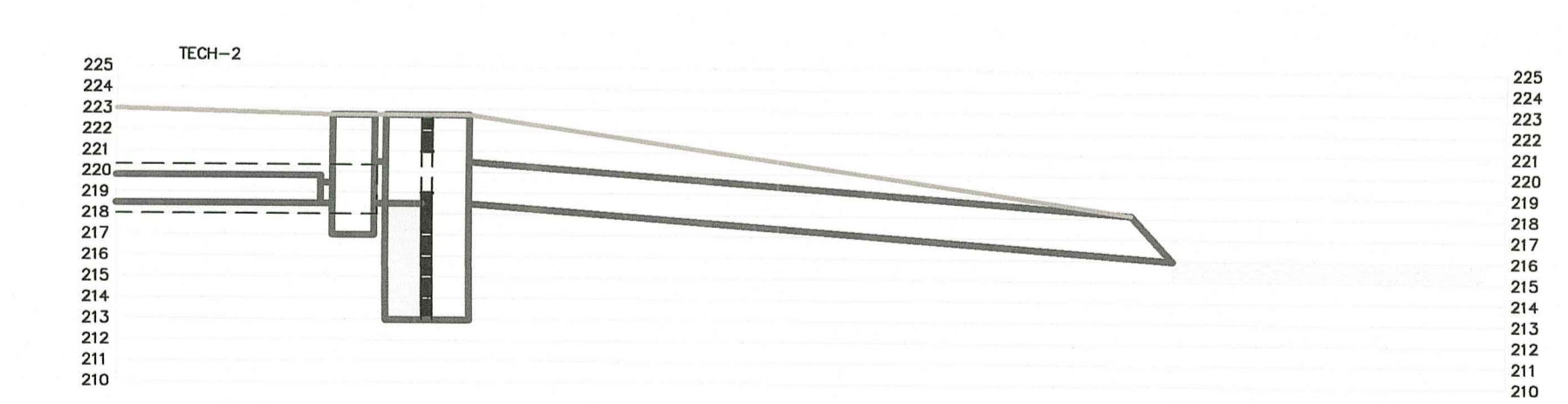
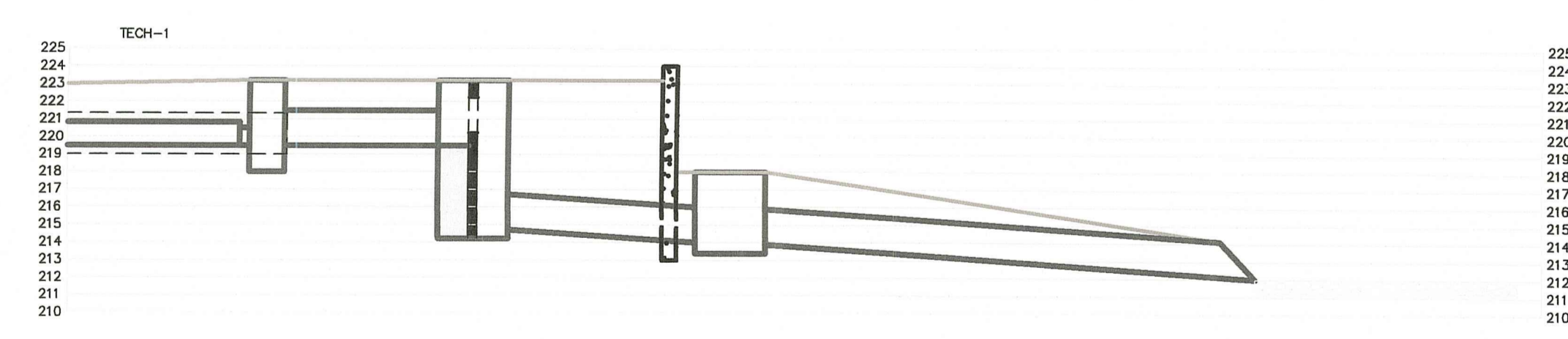
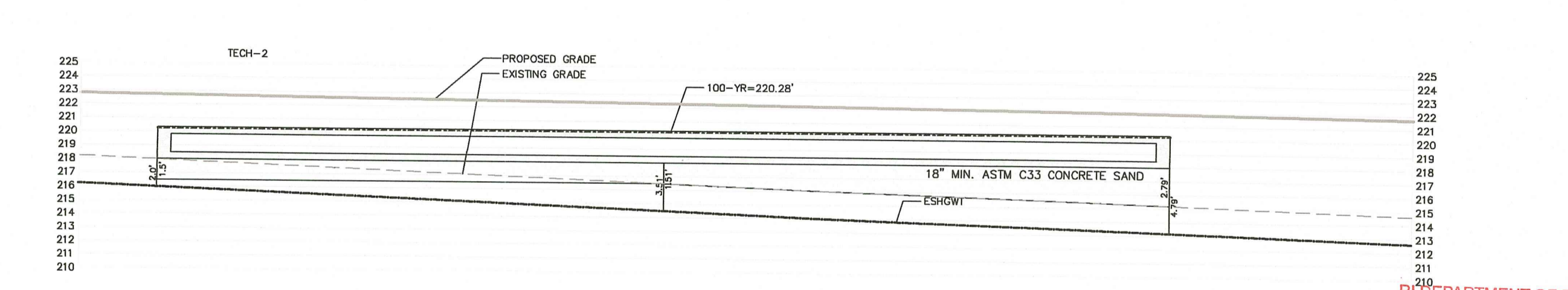
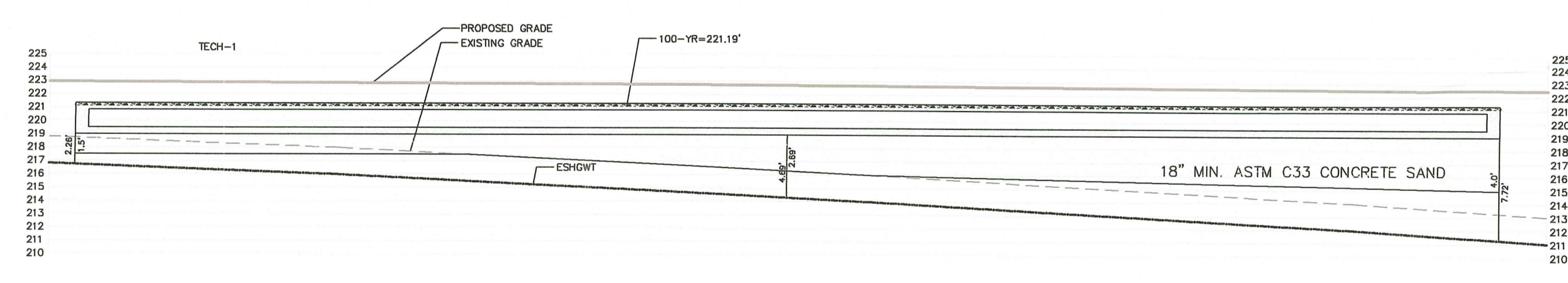
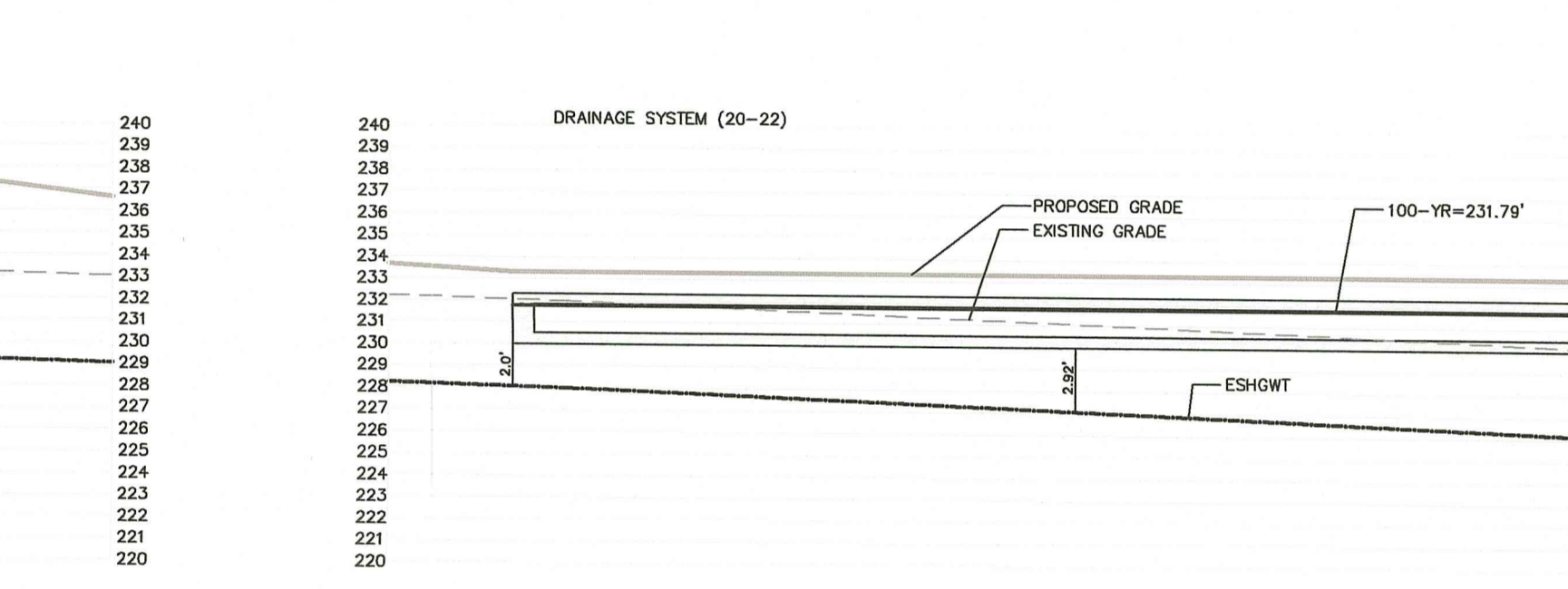
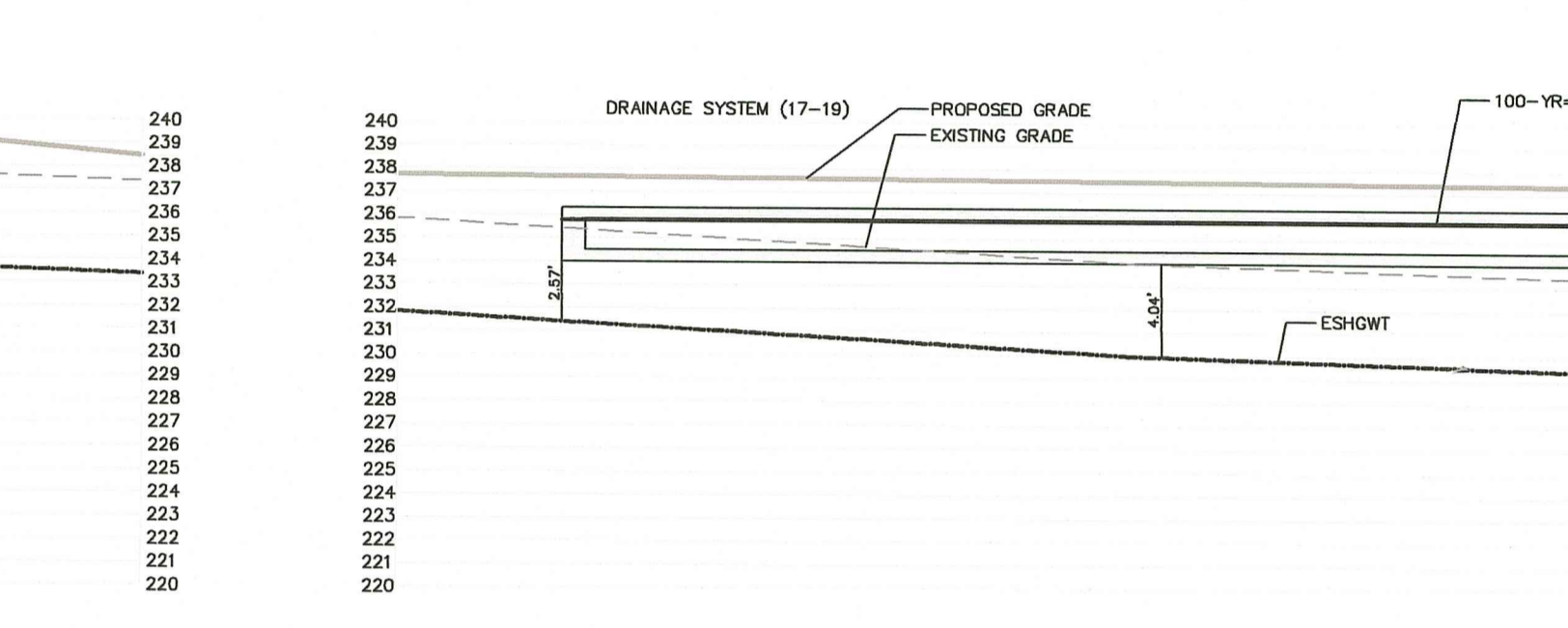
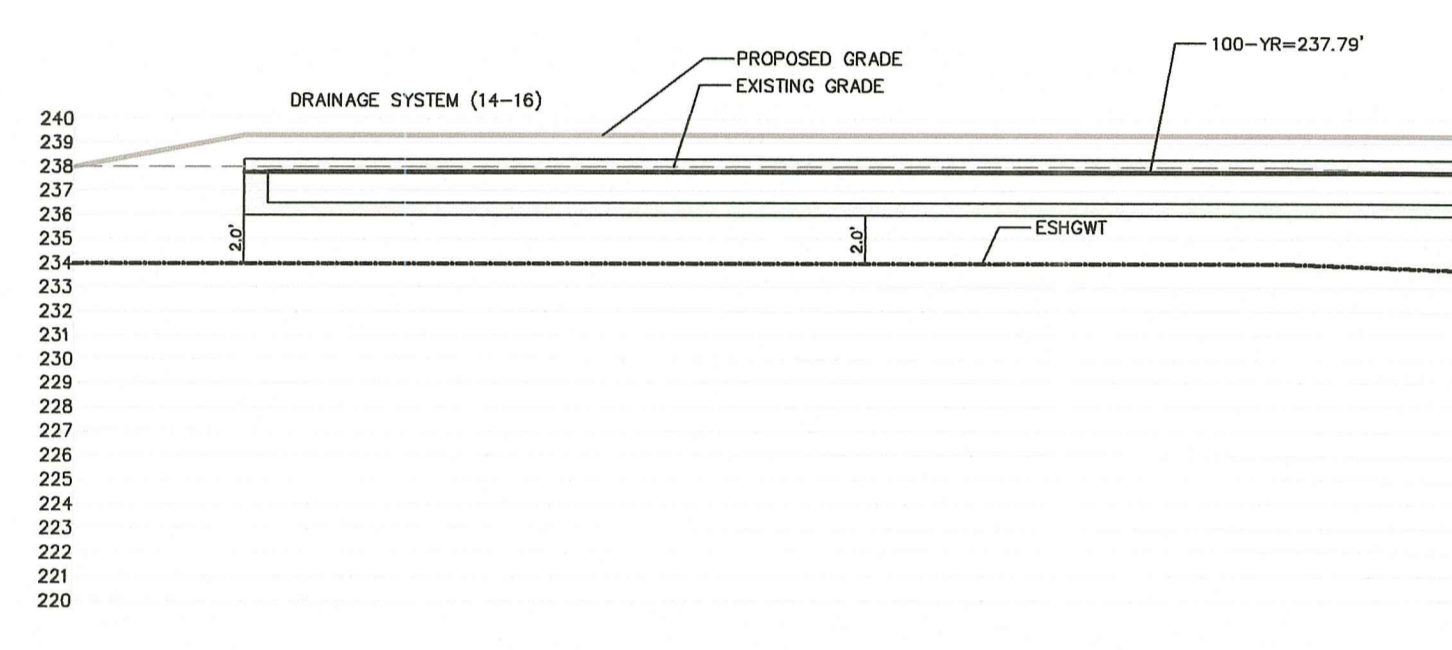
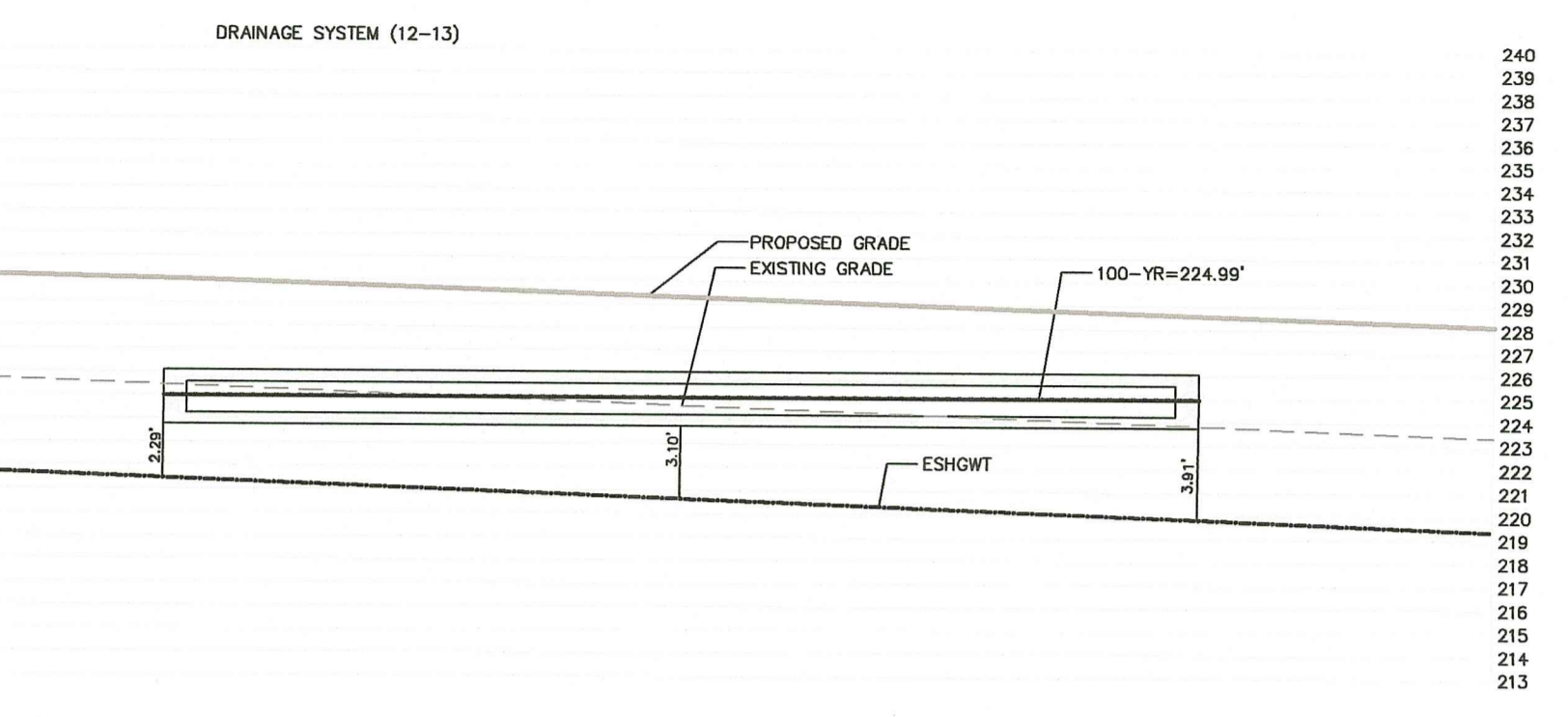
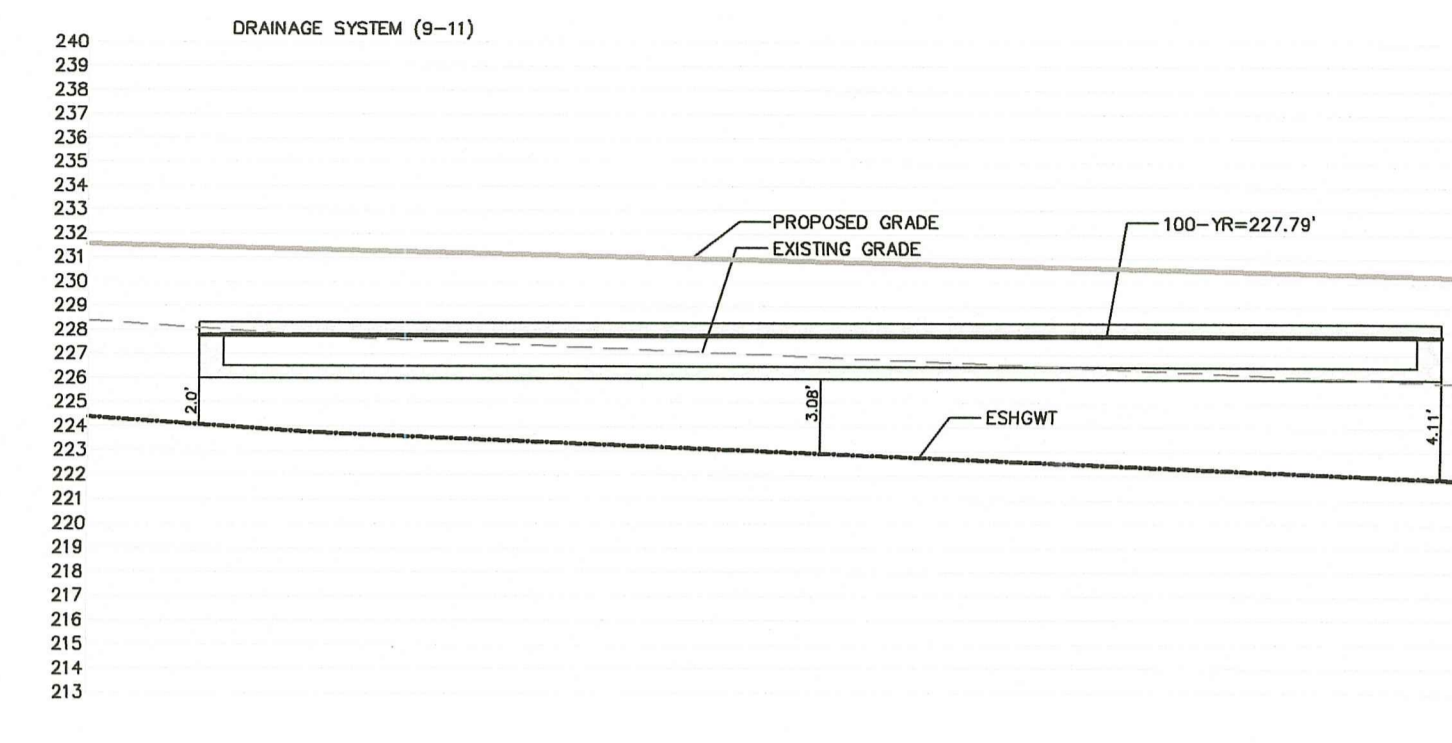
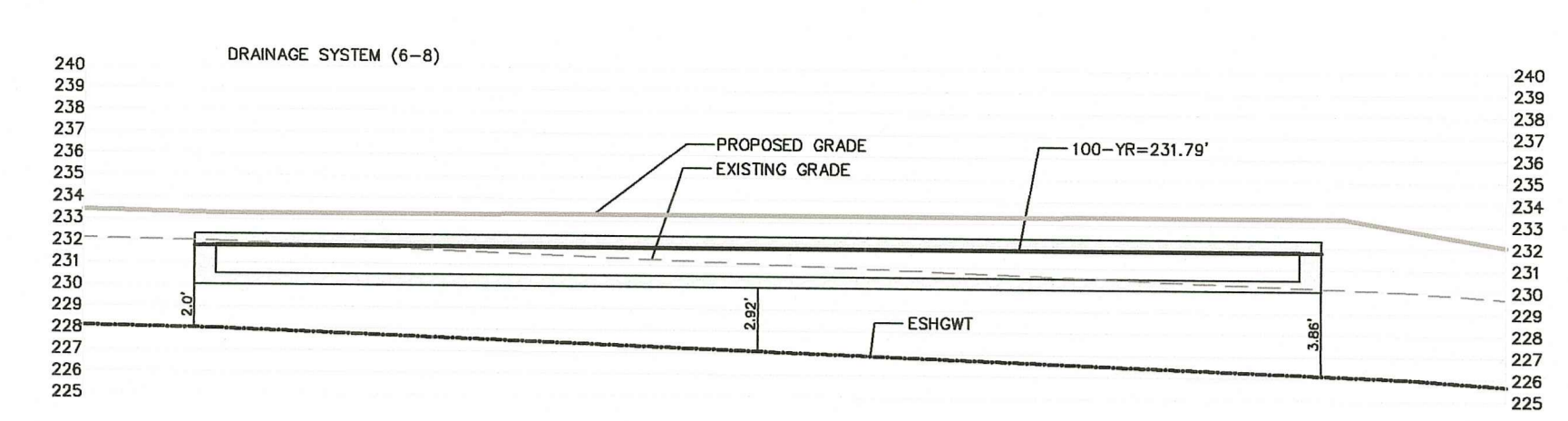
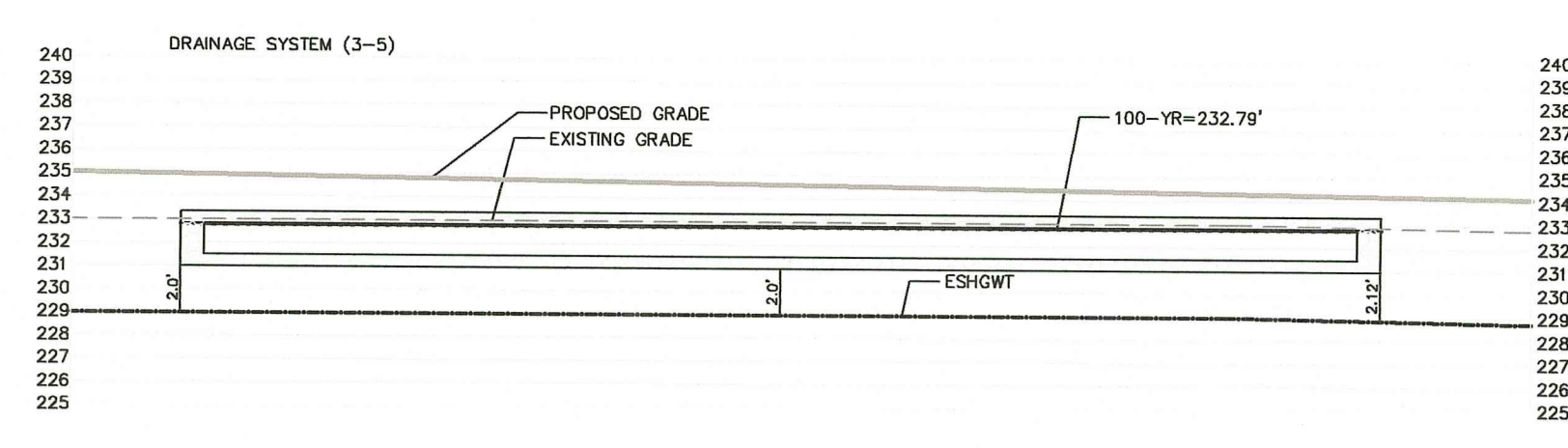
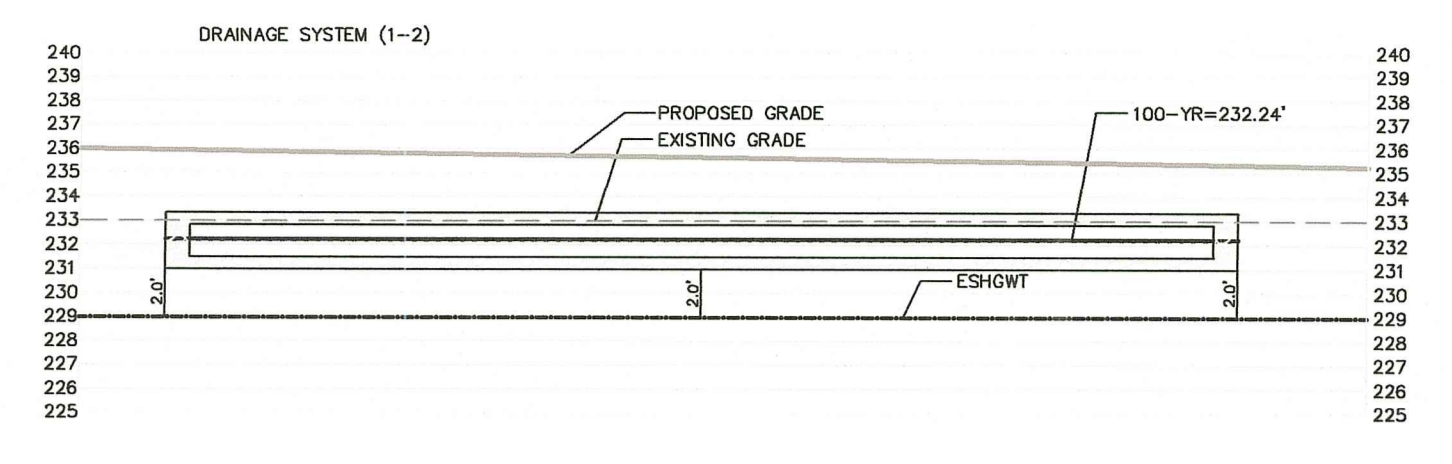
PRINCIPLE COMPANY, INC.
 ENGINEERING DIVISION
 PO BOX 298
 TIVERTON, RI 02878
 401.816.5385
 WWW.PRINCIPLEENGINEERING.COM

REVISIONS			
No.	DATE	DRWN	CHKD
1.	08/25/23	KAB	TJP

RIDEM PERMIT SET
 for
 0 STAFFORD ROAD
 AP 207 LOT 106
 in
 TIVERTON, RHODE ISLAND

SCALE: AS NOTED SHEET NO: 7 OF 8
 DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP
 DATE: 06/03/2022 PROJECT NO.: LD-2020-11

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



UNDERGROUND INFILTRATION BMPS
 SEE LOCATIONS SHEET 2 OF 8
 SEE DETAILS SHEET 6 OF 8
 SHOP DRAWINGS REQUIRED

SCALE: 1"=8'

Environmental Management
 AUG 29 2023
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: NOV 02 2023 FILE #: 22-0241
 CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Garten B. Wenczel

DETAILS-5

Thomas J. Principe, III
[Signature]
 REGISTERED
 PROFESSIONAL ENGINEER

PRINCIPE COMPANY, INC.
 ENGINEERING DIVISION
 PO BOX 298
 TIVERTON, RI 02878
 401.816.5385
 WWW.PRINCIPLEENGINEERING.COM

REVISIONS			
No.	DATE	DRWN	CHKD
1.	08/25/23	KAB	TJP

RIDEM PERMIT SET
 for
 0 STAFFORD ROAD
 AP 207 LOT 106
 in
 TIVERTON, RHODE ISLAND

SCALE: AS NOTED SHEET NO: 8 OF 8
 DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP
 DATE: 06/03/2022 PROJECT NO.: LD-2020-11

DRAWING ISSUE:
 CONCEPT
 CUSTOMER APPROVAL
 PERMITTING
 CONSTRUCTION
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 OTHER:
ONLY PLANS ISSUED FOR CONSTRUCTION
 SHALL BE USED FOR CONSTRUCTION