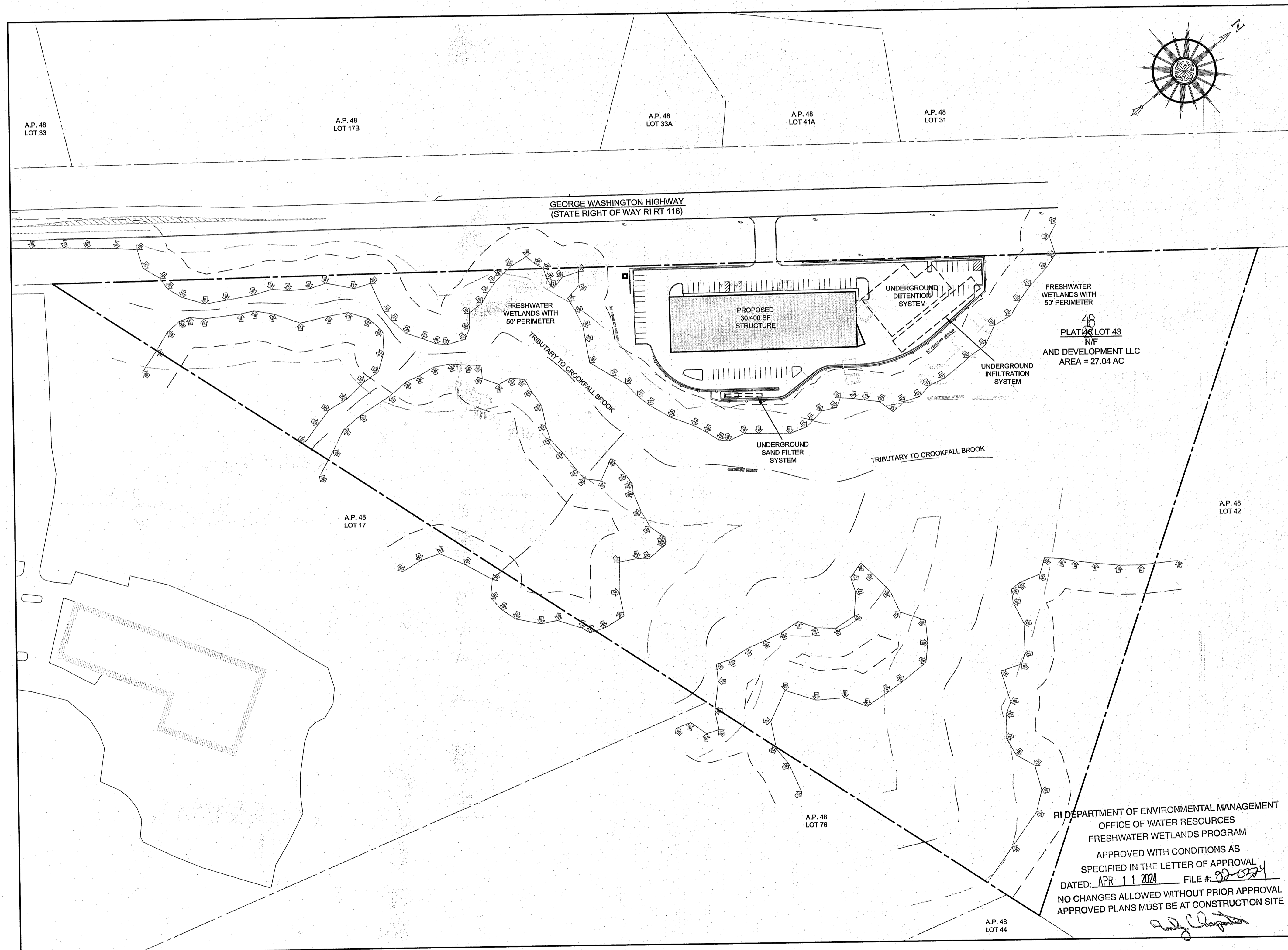


515 GEORGE WASHINGTON HIGHWAY (NORTH)

PROPOSED COMMERCIAL FACILITY ASSESSOR'S PLAT 48 LOT 43 GEORGE WASHINGTON HIGHWAY (RI RT 116) SMITHFIELD, RHODE ISLAND

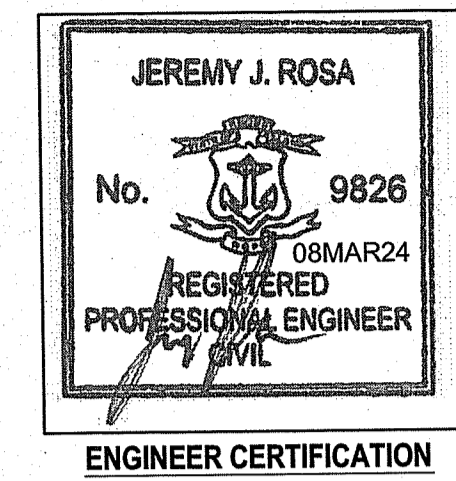


SITE PLAN

SCALE = 1"=100'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 11 2024 FILE # 2024-00074
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

CIVIL ENGINEER: NORTHEAST ENGINEERS & CONSULTANTS, INC.
SITING/CIVIL
LAND PLANNING
WATERFRONT
SURVEYING
GEO TECHNICAL
ENVIRONMENTAL
TRANSPORTATION
STRUCTURAL
MATERIALS TESTING
A KNOWLEDGE CORPORATION
6 VALLEY ROAD MIDDLETOWN RI 02842
PHONE (401) 849-0810 FAX (401) 846-4169
WWW.NORTHEASTENGINEERS.COM



APPLICANT:

AND DEVELOPMENT LLC
150 CHESTNUT STREET
PROVIDENCE, RI 02903

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

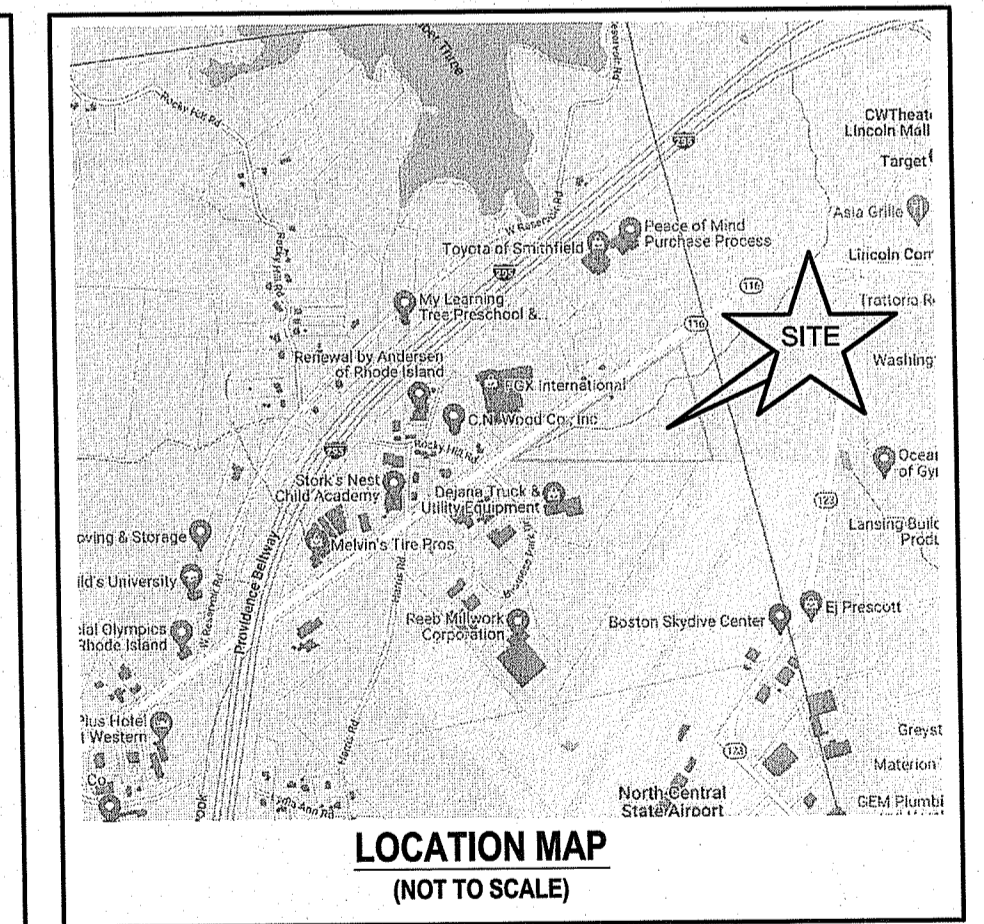
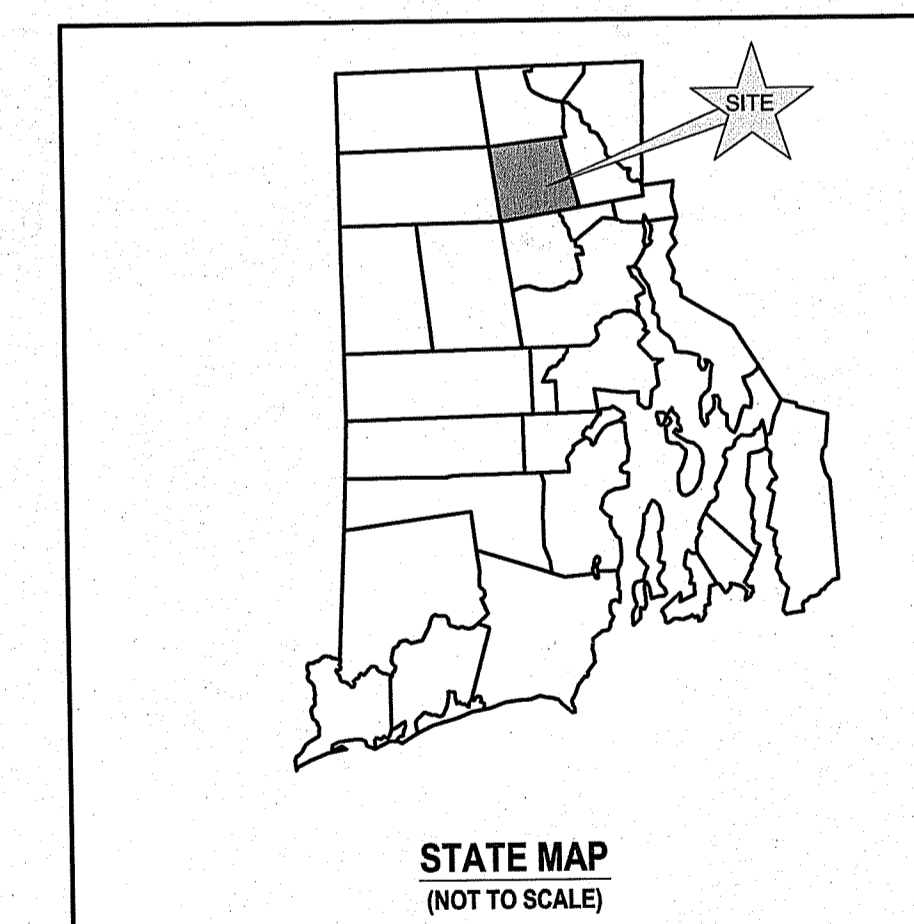
MARCH 8, 2024 PERMIT SET

PLAN INDEX

SITE/CIVIL ENGINEERING PLANS

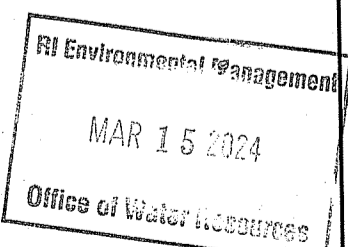
- TITLE SHEET
- PROJECT NOTES
- EXISTING CONDITIONS (FULL SITE)
- EXISTING CONDITIONS (AREA OF WORK)
- PROPOSED LAYOUT AND UTILITY PLAN
- PROPOSED GRADING AND DRAINAGE PLAN
- PROPOSED SOIL EROSION AND SEDIMENT CONTROL PLAN
- PROPOSED DETAILS

- SHEET 1
- SHEET 2
- SHEET 3
- SHEET 4
- SHEET 5
- SHEET 6
- SHEET 7
- SHEETS 8-11



SUBMISSION AND REVISION SUMMARY

AGENCY OR REVISION	DATE	COMMENTS
RIDEM	JUNE 27, 2022	RIPDES & WETLANDS APPLICATIONS
RIDEM	FEB 7, 2023	REVISIONS PER COMMENTS
RIDOT	MARCH 8, 2023	SITE REVISIONS, RIDOT APPLICATION
RIDEM	MARCH 8, 2024	SITE REVISIONS, RIDEM COMMENTS



GENERAL NOTES

- PROPERTY LINE DELINEATION AND EXISTING CONDITIONS ARE TAKEN FROM PLAN ENTITLED "WETLAND STUDY OF A.P. 48, LOT 43, SMITHFIELD, RHODE ISLAND - WETLANDS & SITE SURVEY PLAN" PREPARED BY DOUGLAS DESIGN GROUP AND DATED DECEMBER 6, 2021.
- BASE OF ELEVATIONS NOT PROVIDED ON REFERENCE PLAN. DATUM ASSUMED.
- PROPOSED DEVELOPED AREA IS ZONED LI (LIGHT INDUSTRIAL). A PORTION OF THE SUBJECT PARCEL IS ALSO ZONED I (INDUSTRIAL).
- NORTH ARROW REFERENCES ASSESSORS MAP.
- SOIL EVALUATION PERFORMED BY LICENSED EVALUATOR, EDWARD J. AVIZINIS, ON FEBRUARY 11, 2022. ADDITIONAL SOIL EVALUATIONS PERFORMED BY LICENSED EVALUATOR DAVID KALEN ON DECEMBER 9, 2022. SOIL INFORMATION SHOWN WAS TAKEN FROM THE USDA NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT AND DETAILS WITH THEIR RELATIONSHIP TO THE EXISTING SITE SURVEY. CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING WORK.
- THE UNDERGROUND UTILITIES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. ALL DAMAGED PORTIONS SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AFFECTED UTILITY COMPANY AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PERSONAL INJURY RESULTING FROM CONTACT WITH EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. WHEREVER CONNECTION OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR NEW LINES. (PLEASE CALL DIG SAFE PRIOR TO CONSTRUCTION AT 1-888-DIG-SAFE AND ALL LOCAL UTILITY COMPANIES.)
- THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATIONS OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATING.
- THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION OR BETTER, ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PRESERVE STREET MONUMENTS.
- STREET MONUMENTS THAT ARE DISTURBED SHALL BE RESTORED UNDER THE LICENSED LAND SURVEYOR'S DIRECTION. ANY NEW DATA SUCH AS ELEVATIONS SHALL BE CERTIFIED BY THE SURVEYOR, AND SUBMITTED TO THE TOWN.
- DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE PROJECT ENGINEER, APPROPRIATE AGENCY AND OWNER.
- RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND BE COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATION. REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
- CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- ALL WORK TO BE DONE WITHIN THE STATE HIGHWAY RIGHT OF WAY (ROW) SHALL CONFORM TO THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (AMENDED MARCH 2019) WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE R.I. STANDARD DETAILS 1998 EDITION (AMENDED JUNE 2019) WITH ALL REVISIONS.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, INCLUDING ALL REVISIONS.
- ALL DISTURBED AREAS WITHIN THE RIDOT R.O.W. SHALL BE LOAMED AND SEEDED. REFER TO VEGETATIVE PRACTICE NOTES ON SHEET C-2.

GRADING NOTES

- ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT RUNOFF FROM LEAVING THE SITE.
- ALL GRADED AREAS SHALL BE SOODED OR PLANTED IMMEDIATELY AFTER THE GRUBBING WORK HAS BEEN COMPLETED.
- THE TOWN SHALL BE INFORMED OF THE LOCATION OF THE DISPOSAL SITE, IF ANY, FOR THE PROJECT.
- NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE MUNICIPALITY, PROVIDED SUCH GRADING WORK IS ALSO IN CONFORMANCE WITH ANY COMMUNITY NOISE CONTROL STANDARDS.
- THE LIMITS OF DISTURBANCE SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE MUNICIPALITY.
- WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE GRADING WORK IS INITIATED.
- TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
- NONCOMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE VIOLATOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECTED TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.

UTILITY NOTES

- THE LOCATION OF PROPOSED ELECTRICAL CONNECTION TO THE OVERHEAD SERVICES ALONG GEORGE WASHINGTON HIGHWAY ARE PRELIMINARY. FINAL DESIGN OF THE ELECTRICAL SERVICE IS SUBJECT TO REVIEW AND APPROVAL OF RI ENERGY.
- THE LOCATION OF THE PROPOSED NATURAL GAS SERVICE TO THE MAIN IN GEORGE WASHINGTON HIGHWAY IS PRELIMINARY. FINAL DESIGN OF THIS SERVICE IS SUBJECT TO REVIEW AND APPROVAL OF RI ENERGY.
- THE PROPOSED CONNECTION TO THE WATER MAIN IN GEORGE WASHINGTON HIGHWAY IS PRELIMINARY AND SUBJECT TO REVIEW AND APPROVAL BY THE SMITHFIELD WATER SUPPLY BOARD AND THE DEPARTMENT OF PUBLIC WORKS. ALL NEW CONNECTIONS WILL REQUIRE WATER SERVICE APPLICATIONS.
- ALL NEW ELECTRIC, TELEPHONE AND CABLE SERVICES SHALL BE INSTALLED UNDERGROUND.
- PROPOSED SEWER SERVICE IS SUBJECT TO REVIEW AND APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS. ALL SEWER WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN RULES AND REGULATIONS FOR THE USE AND INSTALLATION OF SEWERS. NEW CONNECTION WILL REQUIRE SEWER SERVICE APPLICATION TO THE DEPARTMENT OF PUBLIC WORKS. THE NEW GRAVITY CONNECTION TO THE MAIN SHALL BE 6 INCHES IN DIAMETER.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASSUMPTIONS, DEDUCTIONS, OR CONCLUSIONS HE/SHE MAY MAKE OR DERIVE FROM THE SUBSURFACE INFORMATION OR DATA FURNISHED ON THE PLANS. THE CONTRACTOR MUST SATISFY HIMSELF THROUGH HIS/HER OWN INVESTIGATIONS AS TO WHAT SUBSURFACE CONDITIONS ARE TO BE ENCOUNTERED.
- IF THE CONTRACTOR ELECTS NOT TO EXPOSE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES AT CROSSINGS PRIOR TO PIPELINE EXCAVATION, HE/SHE FORFEITS HIS/HER RIGHTS FOR ANY CLAIMS FOR COMPENSATION CAUSED BY ANY CONFLICTS WITH EXISTING UTILITIES AND STRUCTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL EFFLUENT ASSOCIATED WITH THE CONSTRUCTION ACTIVITY AND THE DISINFECTION AND HYDROTTESTING OPERATIONS TO SAFEGUARD PUBLIC HEALTH AND SAFETY IN ACCORDANCE WITH APPLICABLE DEPARTMENT OF HEALTH REQUIREMENTS. ALL PERMITS AND LICENSES FOR CONSTRUCTION WATER DISPOSAL, INCLUDING ALL APPLICATIONS, CHARGES, FEES, AND TAXES, ARE THE RESPONSIBILITY OF THE CONTRACTOR.

PUBLIC HEALTH SAFETY AND CONVENIENCE NOTES

- CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
- THE CONTRACTOR AT HIS/HER EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM RUBBISH, DUST, NOISE, EROSION, ETC. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR AND WATER POLLUTION CONTROL STANDARDS AND REGULATIONS OF ALL APPLICABLE FEDERAL, STATE AND LOCAL AGENCIES.
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SILT OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS AS NECESSARY.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.

SOIL EROSION AND SEDIMENT CONTROL NOTES

- CONSTRUCTION SEQUENCE:
 - DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.
 - ALL CONSTRUCTION VEHICLES SHALL ENTER AND LEAVE THE SITE THE STABILIZED CONSTRUCTION ENTRANCE CONFORMING TO THE DETAIL PROVIDED.
 - INSTALL PERIMETER CONTROL EROSION BARRIERS TO PREVENT SEDIMENT CONTAMINATION OF DOWNSTREAM AREAS PRIOR TO ANY EARTH MOVING ACTIVITIES.
 - CONTRACTOR TO LOCATE EXISTING SEWER, WATER, AND GAS MAINS TO WHICH NEW SERVICES ARE TO BE CONNECTED. SHOULD ANY EXISTING SERVICES TO THE SITE BE PRESENT, THESE SERVICES SHALL BE DISCONNECTED AND MARKED IN THE FIELD.
 - REMOVE VEGETATION ONLY WHERE NECESSARY. ANY STUMPS TO BE GROUND OR DISPOSED OF OFF SITE.
 - CONSTRUCT SEDIMENT TRAP IN ACCORDANCE WITH THE PLANS AND ESTABLISH A TEMPORARY VEGETATIVE GROWTH THAT MEETS THE APPROVAL OF THE TOWN ENGINEER.
 - ROUGH GRADE SITE AND BUILDING PAD PER CONSTRUCTION GRADING PLAN.
 - INSTALL UTILITY CONNECTIONS IN COORDINATION WITH THE PROVIDING ENTITIES.
 - BEGIN BUILDING CONSTRUCTION AND INSTALL RETAINING WALLS PER THE APPROPRIATE DESIGN PLANS. INSTALL UNDERGROUND STORMWATER SYSTEMS AND DRAINAGE SYSTEM CONVEYANCE.
 - FINAL GRADE SITE. INSTALL SIDEWALKS AND ANY PRECAST CONCRETE CURBING PER DETAILS PROVIDED.
 - PLACE BINDER ASPHALT LAYER.
 - ADJUST DRAINAGE STRUCTURE RIMS AS NECESSARY AND PLACE WEARING PAVEMENT COURSE.
 - INSTALL LANDSCAPING AND MEADOW AREAS.
 - SWEEP PAVED AREAS AND MAINTAIN SITE IN ACCORDANCE WITH THE MAINTENANCE NOTES.

2. NOTES:

- DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- AREAS OF INFILTRATING DRAINAGE SYSTEMS MAY NOT BE USED FOR STOCKPILES OR STORAGE OF MATERIALS OR EQUIPMENT.
- ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE STABILIZED WITHIN FOURTEEN DAYS IN ACCORDANCE WITH TEMPORARY MEASURES IN THE VEGETATIVE PRACTICE NOTES.
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL TO REMOVE VEGETATION, ROOTS, AND ANY OTHER OBJECTIONABLE MATERIAL.
- ALL FILL SHALL BE COMPACTED TO 95% MAX. DENSITY TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.
- FILL INTENDED TO SUPPORT BUILDING STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.
- ALL FILL SHALL BE PLACED AND COMPACTED TO 95% MAX. DENSITY IN LAYERS NOT TO EXCEED 12" IN THICKNESS FILLS.
- FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN, SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING IN ACCORDANCE WITH THE VEGETATIVE PRACTICE NOTES.
- REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED AND VEGETATED AREAS HAVE RECEIVED TWO MOWINGS.

3. VEGETATIVE PRACTICE:

- PERMANENT MEASURES:
- SLOPES SHALL NOT BE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE SPECIFIED.
 - LOAM AND SEED REQUIREMENTS ARE SPECIFIED IN RIDOT L01 & L02.
 - A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED. THE LOAM SHALL BE GRADED TO A SMOOTH CONDITION AND STONES AND OTHER OBJECTS LARGER THAN 2 INCHES SHALL BE REMOVED.
- TEMPORARY MEASURES (FOR TEMPORARY PROTECTION OF DISTURBED AREAS)
- LIMESTONE AND FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATE:
 - LIMESTONE: 2 TONS/ACRE
 - FERTILIZER: (10-10-10): 600 LBS/ACRE
 - SEED SHALL BE APPLIED AT THE FOLLOWING RATE:
 - WINTER RYE: 100 LB/ACRE
 - STRAW MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

4. MAINTENANCE

- DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED, THE EROSION CONTROL MEASURES SHALL BE INSPECTED.
- AT A MINIMUM THE SILT FENCING, STRAW BALES AND FILTER SOCK BARRIERS SHALL BE INSPECTED AND REPAIRED ONCE A WEEK AND / OR IMMEDIATELY FOLLOWING A SIGNIFICANT RAINFALL OR SNOWMELT. SEDIMENT TRAPPED BEHIND THE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REGRADED ON THE SITE.
 - EROSION CONTROL BLANKETS SHALL BE INSPECTED ON A WEEKLY BASIS.
 - SILT SACKS SHALL BE INSPECTED AND REPAIRED ONCE A WEEK AND / OR IMMEDIATELY FOLLOWING A SIGNIFICANT RAINFALL OR SNOWMELT. DURING HEAVY RAIN EVENT, IT MAY BE NECESSARY TO TEMPORARILY REMOVE SACKS IN ORDER TO PREVENT FLOODING. SEDIMENT TRAPPED WITHIN SACKS SHALL BE DISPOSED OF OFF SITE AT A LICENSED FACILITY OR REGRADED ON THE SITE.
 - STONE RIPRAP SHALL BE INSPECTED MONTHLY FOR EXCESSIVE ACCUMULATION OF SEDIMENT. IT MAY BE NECESSARY TO REMOVE STONES, EXCAVATE SEDIMENT, AND REPLACE STONES.
 - THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED PRIOR TO PAVING. DURING CONSTRUCTION THE ENTRANCE SHALL BE INSPECTED WEEKLY, AND RE-ESTABLISHED AS NECESSARY.
 - SEEDED AREAS WILL BE FERTILIZED AND RESEED AS NECESSARY TO INSURE ESTABLISHMENT OF A VEGETATIVE GROWTH THAT MEETS THE APPROVAL OF THE TOWN ENGINEER OR OTHER INSPECTING ENTITIES.

DRAINAGE NOTES

- ALL DRAIN PIPES SHALL BE ADS-N12 TYPE IB OR SCH40 PVC AS SHOWN ON SITE PLANS.
- DRAIN STRUCTURES SHALL BE PRECAST CONCRETE SIZED AS NOTED ON PLANS.
- STRUCTURE ROOFTOP SHALL DISCHARGE TO COLLECTION SYSTEM AND ROUTED TO INFILTRATION SYSTEM AS SHOWN ON DESIGN PLANS. ROOFTOP RUNOFF SHALL NOT DISCHARGE DIRECTLY TO PAVEMENT.
- CATCH BASINS SHALL HAVE HEAVY DUTY PEDESTRIAN SAFE GRATES. BASIN INLETS SHALL HAVE ONE (1) OR TWO (2) GRATES AS SHOWN ON DESIGN PLANS.
- CATCH BASINS SHALL HAVE THREE (3) FOOT DEEP SUMPS.
- ALL STORMWATER DEVICES SHOWN ON THE DESIGN PLANS SHALL BE CONSTRUCTED ACCORDING TO THE DETAILS PROVIDED. ANY DISCREPANCIES OR INCONGRUENCIES WITH THE EXISTING SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

CROOKFALL BROOK RECEIVING WATER CONDITIONS TABLE:

NAME	CROOKFALL BROOK
STREAM ORDER	02
WATERBODY ID	R0001004R-01
WB DESCRIPTION	CROOK FALL BROOK AND TRIBUTARIES
IMPAIRMENTS	ENTEROCOCCUS
TMDL	ENTEROCOCCUS
WATER QUALITY STANDARD	AA
303D CATEGORY	4A
FISHERY TYPE	COLD
SRPW	DRINKING WATER SUPPLY
STORMWATER POT. IMPAIR.	YES
STORMWATER CONFIRM IMPAIR.	NO

STORMWATER MAINTENANCE NOTES

DEVICE MAINTENANCE:

- UNDERGROUND SYSTEM MAINTENANCE:
 - GRASSES SHALL BE PLANTED OVER SYSTEMS NOT IN PAVED AREAS TO STABILIZE THE GROUND AND PREVENT EROSION.
 - EACH SYSTEM SHOULD BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER, THE SYSTEM SHOULD BE INSPECTED AT LEAST ANNUALLY AND AFTER STORM EVENTS OF GREATER THAN OR EQUAL THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.8 INCHES). SHOULD THE AVERAGE DEPTH OF SEDIMENT EXCEED 1 INCH AT THE BOTTOM OF THE CHAMBERS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN A MANNER CONSTANT WITH THE MANDATES OF THE RIDEM. THE PRESENCE OF EXCESSIVE SEDIMENTS MAY INDICATE A FAILURE IN THE UPSTREAM CONVEYANCE OR THE HYDRODYNAMIC SEPARATORS. OWNER SHOULD CONSULT A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE CAUSE OF THE FAILURE AND THE BEST COURSE OF ACTION TO CORRECT THE ISSUE.
 - THE FOLLOWING SHALL ALSO BE COMPLETED WHEN NECESSARY:
 - SILT/SEDIMENT SHOULD BE REMOVED FROM THE CHAMBERS ANNUALLY, WHEN ACCUMULATION EXCEEDS 1 INCH, OR WHEN THE DRAWDOWN CAPACITY DIMINISHES SUBSTANTIALLY. IF STANDING WATER IS OBSERVED MORE THAN 48 HOURS AFTER A STORM EVENT, THEN THE SYSTEM MUST BE EXCAVATED AND REPAIRED.
 - SAND FILTER: THE TOP 6 INCHES OF SAND SHOULD BE REMOVED AND REPLACED. IF DISCOLORED OR CONTAMINATED MATERIAL IS FOUND BELOW THIS REMOVED SURFACE THEN THAT MATERIAL SHOULD ALSO BE REMOVED AND REPLACED UNTIL ALL CONTAMINATED SAND HAS BEEN REMOVED FROM THE FILTER MEDIA. THE SAND SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. THE CHAMBERS SHALL BE RE-INSTALLED ACCORDING TO THE ORIGINAL DESIGN PLANS.
 - INFILTRATION SYSTEM: THE MATERIAL BELOW THE CHAMBERS SHALL BE TILLED TO A DEPTH OF 24-INCHES AND THE SYSTEM REBUILT ACCORDING TO THE ORIGINAL DESIGN PLANS.

B. CONVEYANCE STRUCTURE MAINTENANCE:

- ALL INLET / OUTFLOW PIPES ARE TO BE INSPECTED AT LEAST THREE TIMES IN THE FIRST SIX MONTHS OF OPERATION. EVIDENCE OF CLOGGING, OR RAPID RELEASE OF FLOW SHALL BE REPORTED TO THE PROJECT ENGINEER AND REMEDIATED IMMEDIATELY.
- CONVEYANCE PIPES SHOULD BE INSPECTED BIANNUALLY. ANY STRUCTURAL FAULTS SHOULD BE REPAIRED AS NECESSARY FOR PROPER FUNCTION OF THE STRUCTURE.
- ROOF RUNOFF STRUCTURES SUCH AS GUTTERS AND DOWNSPOUTS SHOULD BE CLEAN AND FREE OF OBSTRUCTIONS THAT REDUCE FLOW. A REGISTERED PROFESSIONAL ENGINEER SHOULD BE CONSULTED IF NECESSARY TO DETERMINE WHETHER A STRUCTURE HAS BEEN COMPROMISED.

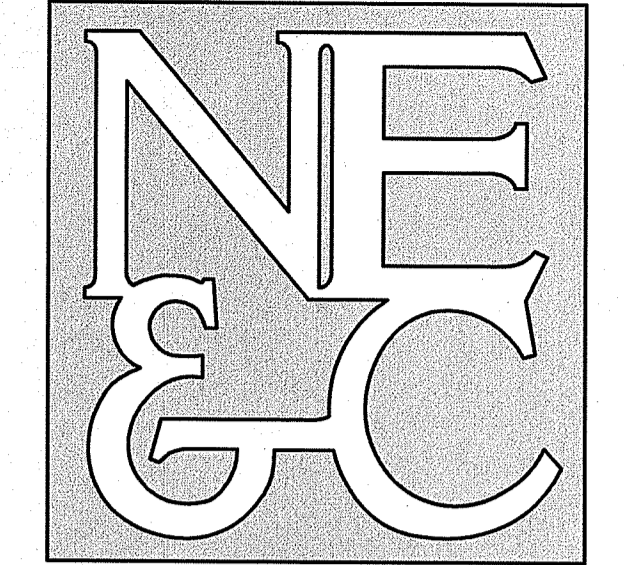
C. RIPRAP OUTFALLS MAINTENANCE:

- THE OUTFALLS SHOULD BE INSPECTED ANNUALLY FOR EROSION AND DETERIORATION. RIPRAP SHOULD BE REPLACED IN KIND AS NECESSARY TO COMPLETELY COVER THE SPILLWAY IN THE DIMENSIONS DESIGNATED IN THE ORIGINAL DESIGN DOCUMENTS. SHOULD EXCESSIVE STONE WASHOUT BE OBSERVED, A REGISTERED PROFESSIONAL ENGINEER SHOULD BE CONSULTED.

MEADOW NOTES

- MULCHING:**
- MULCHING SHALL BE REQUIRED ON ALL SEEDING. MULCH WILL REDUCE EROSION BEFORE GRASS OR MEADOW IS ESTABLISHED AND WILL PROMOTE MORE RAPID GROWTH AND ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED IN COMPLIANCE WITH THIS MULCHING REQUIREMENT.
 - SPREAD STRAW MULCH BY HAND OR MECHANICALLY SUCH THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE IS COVERED. MINIMUM DISTRIBUTION SHALL BE 90 POUNDS PER 1,000 SQUARE FEET.
 - STRAW MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. APPLICATIONS SHALL BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHALL BE UNIFORM IN APPEARANCE.
 - MULCH MATERIALS SHALL BE WOOD FIBER APPLIED WITH A HYDROMULCH AT 2000 LBS PER ACRE.
- SEEDING NOTES:**
- THE SUGGESTED SEED MIX TO BE UTILIZED SHALL BE SIMILAR TO LOW-GROWING WILDFLOWER AND GRASS MIX, AS SUPPLIED BY ERNST SEEDS, OR APPROVED EQUAL.
 - SEEDING RATE FOR THIS MIX SHALL BE 20-40 LBS PER ACRE.
 - PRIOR TO CONSTRUCTION, THE SUGGESTED SEED MIX SHALL BE REVIEWED AND APPROVED BY A RI REGISTERED LANDSCAPE ARCHITECT.
 - IF INSTALLING SEED UTILIZING HYDROSEEDER DEVICE, PROVIDE FIBER MULCH AND STARTER FERTILIZER MIX. IF BROADCASTING SEEDING, APPLY STARTER FERTILIZER PRIOR TO SEEDING AND TOP DRESS WITH 2-INCHES OF STRAW MULCH FOLLOWING SPREADING OF SEED.

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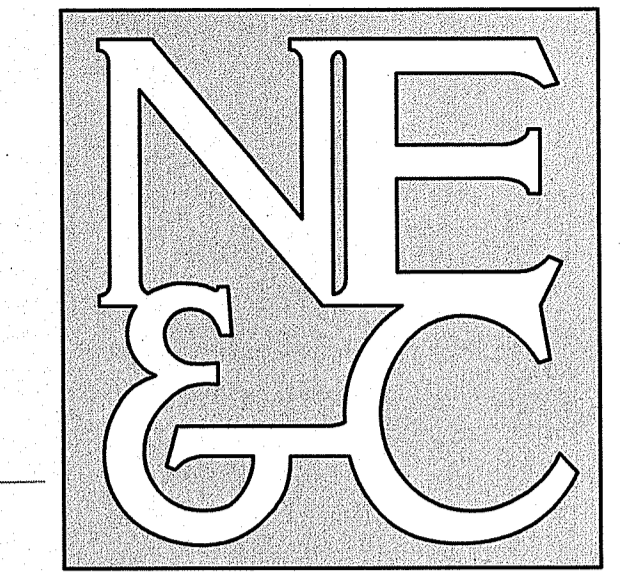
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SITE/CIVIL
LAND PLANNING
WATERFRONT
SURVEYING
GEOTECHNICAL
ENVIRONMENTAL
TRANSPORTATION
STRUCTURAL

1	SITE REVISIONS AND RIDEM COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES	Scale:	N/A
Date:	08MAR23		
Project Title:			
515 GEORGE WASHINGTON HIGHWAY (NORTH SIDE) ASSESSOR'S PLAT 46 LOT 43 SMITHFIELD RHODE ISLAND			
Client/Owner:			
AND DEVELOPMENT LLC 150 CHESTNUT STREET PROVIDENCE, RI 02903			
Issued for:			
PERMITTING			
Drawing Title:			
PROJECT NOTES			
Drawing Number:		C-2	
Sheet		2 of 11	
Project Number:		21140.0	
Survey Index:		-	
OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.			

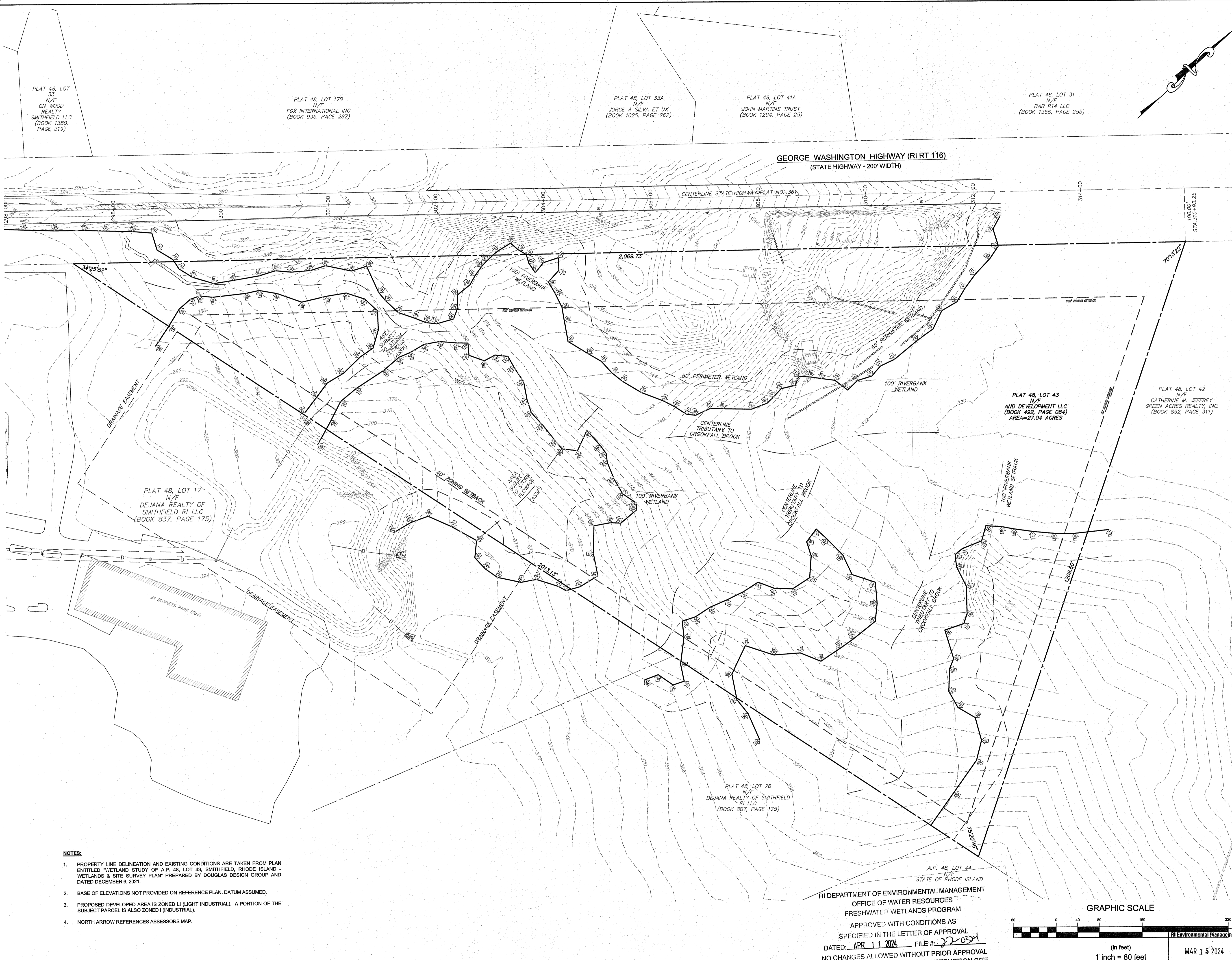
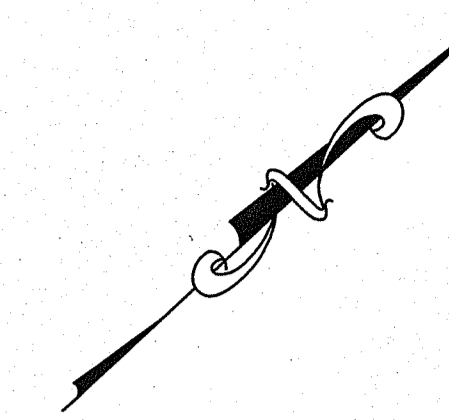
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 11 2024 FILE #: 22-0321
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RI Environmental Management
MAR 15 2024
Office of Water Resources



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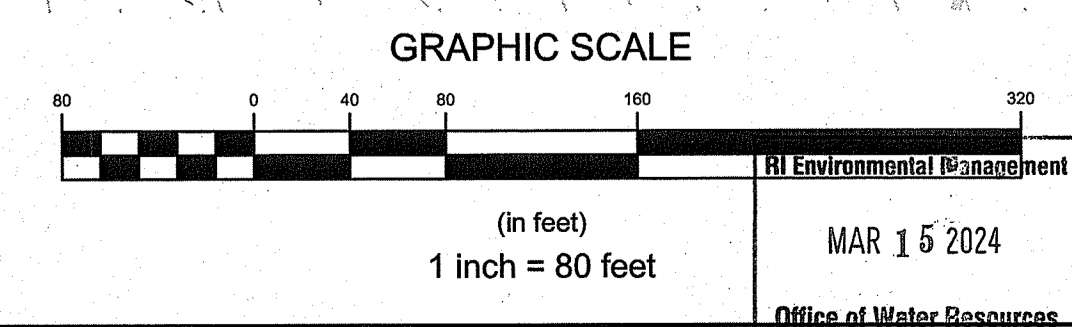
	PROPERTY LINE
	ABUTTER'S PROPERTY LINE
	TOPOGRAPHIC CONTOUR
	STONE WALL
	WETLAND BOUNDARY
	PERIMETER WETLAND
	STREAM
	RIVERBANK WETLAND
	ROADWAY CENTERLINE
	WETLAND FLAG
	SEWER MANHOLE
	UTILITY POLE

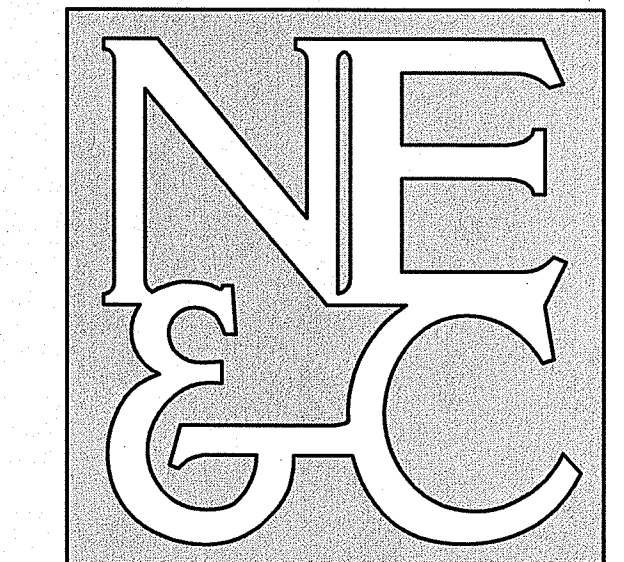
ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION AT 1-888-344-7233, AND/OR ALL LOCAL UTILITY COMPANIES)

1	SITE REVISIONS AND RIDEM COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES	Date:	08MAR23
Scale:	1"=80'	Date:	08MAR23
Project Title:			
515 GEORGE WASHINGTON HIGHWAY (NORTH SIDE) ASSESSOR'S PLAT 48 LOT 43 SMITHFIELD RHODE ISLAND			
Client/Owner:			
AND DEVELOPMENT, LLC 150 CHESTNUT STREET PROVIDENCE, RI 02903			
Issued for:			
PERMITTING			
Drawing Title:			
EXISTING CONDITIONS (OVERALL SITE)			
Drawing Number:		C-3	
Sheet		3 of 11	
Project Number:		21140.0	
Survey Index:		-	
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- NOTES:**
- PROPERTY LINE DELINEATION AND EXISTING CONDITIONS ARE TAKEN FROM PLAN ENTITLED "WETLAND STUDY OF A.P. 48, LOT 43, SMITHFIELD, RHODE ISLAND - WETLANDS & SITE SURVEY PLAN" PREPARED BY DOUGLAS DESIGN GROUP AND DATED DECEMBER 6, 2021.
 - BASE OF ELEVATIONS NOT PROVIDED ON REFERENCE PLAN, DATUM ASSUMED.
 - PROPOSED DEVELOPED AREA IS ZONED LI (LIGHT INDUSTRIAL). A PORTION OF THE SUBJECT PARCEL IS ALSO ZONED I (INDUSTRIAL).
 - NORTH ARROW REFERENCES ASSESSORS MAP.

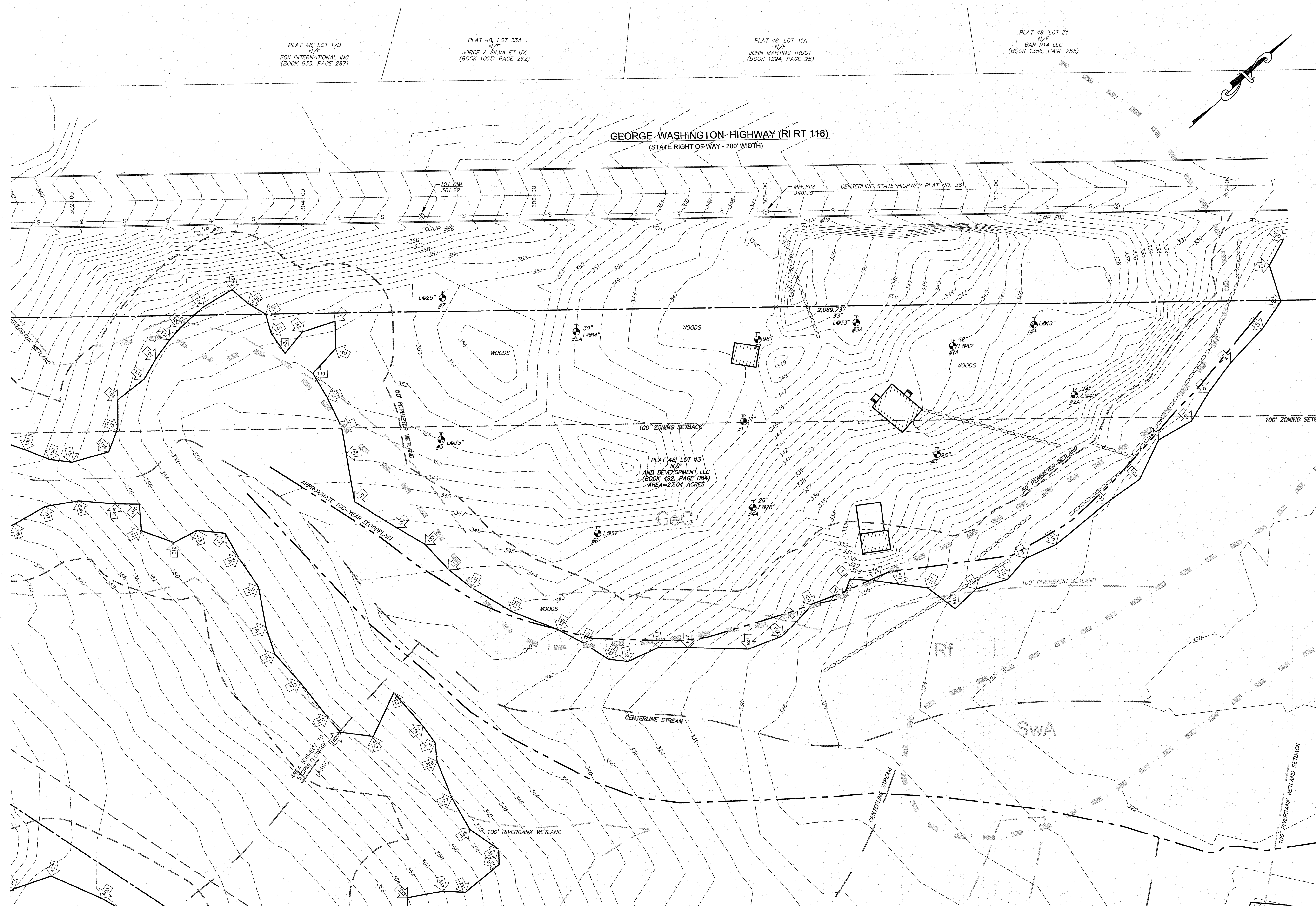
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 11 2024 FILE # 22-0324
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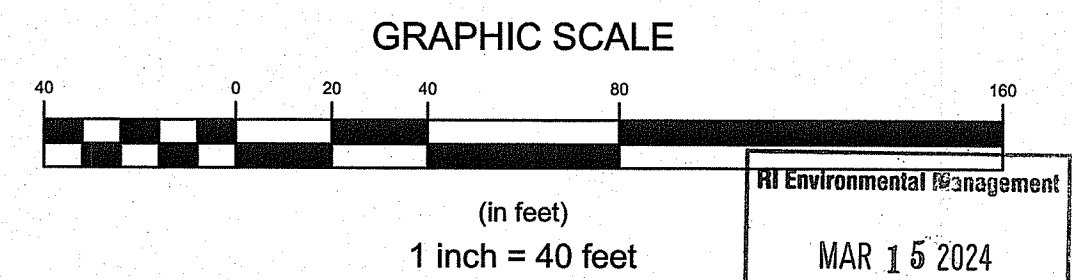


LEGEND:

	PROPERTY LINE
	ADJUTER'S PROPERTY LINE
	TOPOGRAPHIC CONTOUR
	STONE WALL
	WETLAND BOUNDARY
	PERIMETER WETLAND
	STREAM
	100-YEAR FLOOD LINE
	RIVERBANK WETLAND
	SOIL TYPE BOUNDARY
	ROADWAY CENTERLINE
	WETLAND FLAG
	SEWER MANHOLE
	UTILITY POLE

1	SITE REVISIONS AND RIDEM COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES	Scale:	1"=40'
Date:	08MAR23	Project Title:	
515 GEORGE WASHINGTON HIGHWAY (NORTH SIDE) ASSESSOR'S PLAT 48 LOT 43 SMITHFIELD RHODE ISLAND			
Client/Owner:			
AND DEVELOPMENT, LLC 150 CHESTNUT STREET PROVIDENCE, RI 02903			
Issued for:			
PERMITTING			
Drawing Title:			
EXISTING CONDITIONS (AREA OF WORK)			
Drawing Number:		C-4	
Sheet 4 of 11		Project Number:	
		21140.0	
Survey Index:			
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DATED: APR 11 2024 FILE #: 22-031
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THFIELD
319)

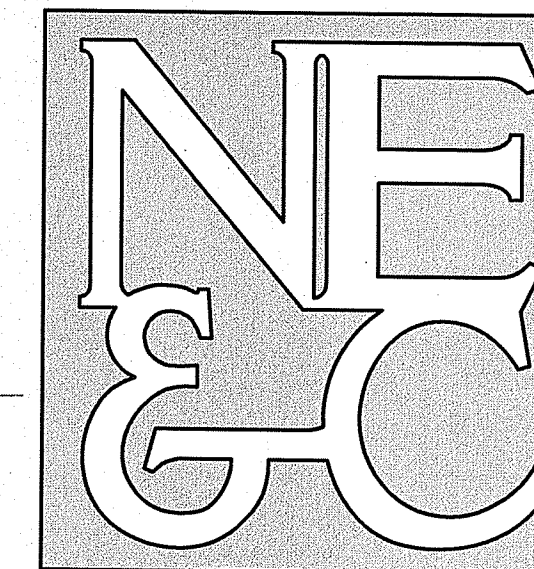
PLAT 48, LOT 17B
N/F
FOX INTERNATIONAL INC
(BOOK 935, PAGE 287)

PLAT 48, LOT 33A
N/F
JORGE A SILVA ET UX
(BOOK 1025, PAGE 262)

PLAT 48, LOT 41A
N/F
JOHN MARTINS TRUST
(BOOK 1294, PAGE 25)

PLAT 48, LOT 31
N/F
BAR R14 LLC
(BOOK 1356, PAGE 255)

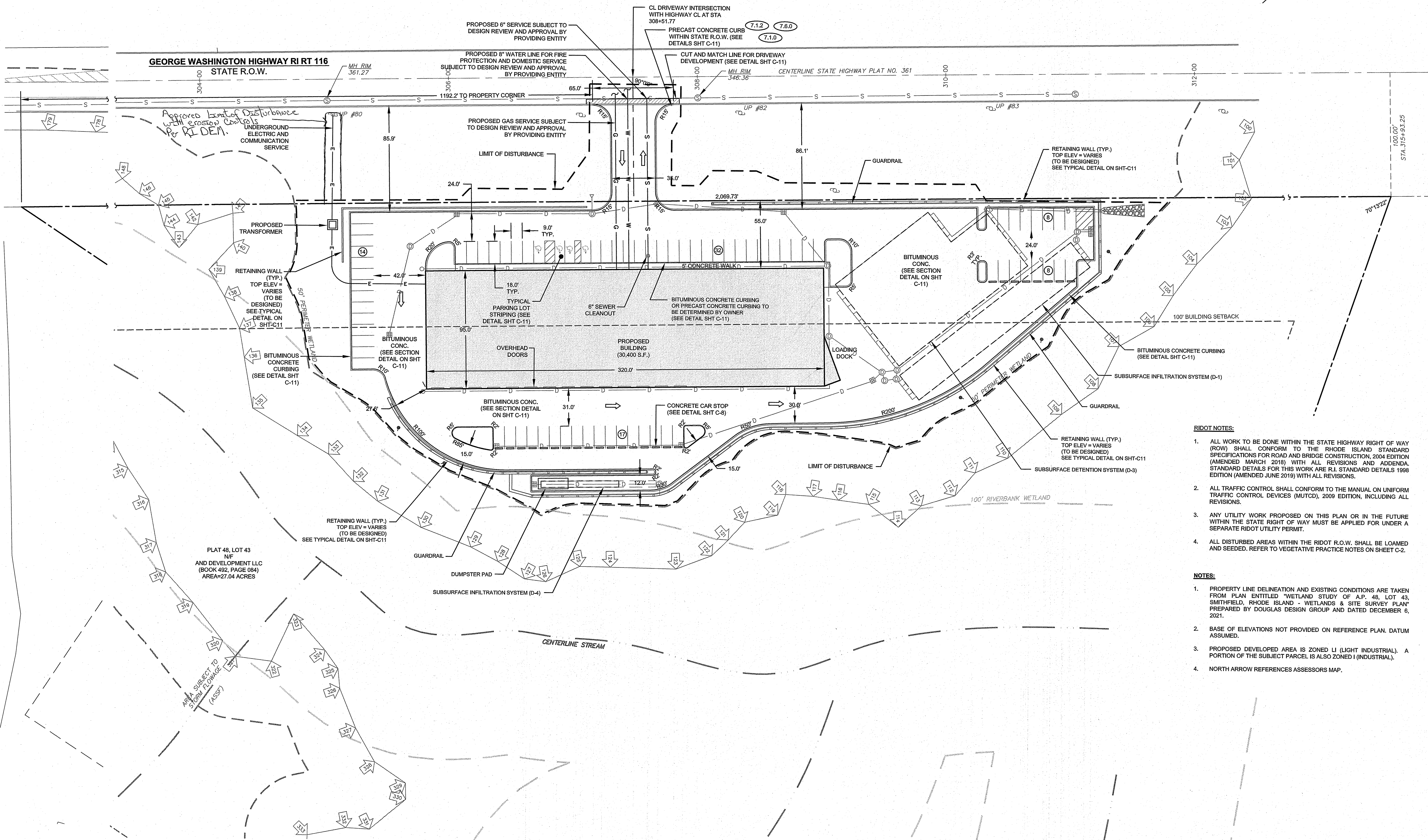
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SURVEYING
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TRANSPORTATION
STRUCTURAL



LEGEND:

	PROPERTY LINE
	ABUTTER'S PROPERTY LINE
	WETLAND BOUNDARY
	PERIMETER WETLAND
	STREAM
	RIVERBANK WETLAND
	ROADWAY CENTERLINE
	WETLAND FLAG
	SEWER MANHOLE
	UTILITY POLE
	PROPOSED CURBING
	PROPOSED SEWER SERVICE
	PROPOSED WATER SERVICE
	PROPOSED GAS SERVICE
	PROPOSED ELEC CONDUIT
	PROPOSED DRAIN LINE
	PROPOSED CATCH BASIN
	PROPOSED LIMIT OF DISTURBANCE

- RIDOT NOTES:**
- ALL WORK TO BE DONE WITHIN THE STATE HIGHWAY RIGHT OF WAY (ROW) SHALL CONFORM TO THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (AMENDED MARCH 2018) WITH ALL REVISIONS AND ADDENDA. STANDARD DETAILS FOR THIS WORK ARE R.I. STANDARD DETAILS 1998 EDITION (AMENDED JUNE 2019) WITH ALL REVISIONS.
 - ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, INCLUDING ALL REVISIONS.
 - ANY UTILITY WORK PROPOSED ON THIS PLAN OR IN THE FUTURE WITHIN THE STATE RIGHT OF WAY MUST BE APPLIED FOR UNDER A SEPARATE RIDOT UTILITY PERMIT.
 - ALL DISTURBED AREAS WITHIN THE RIDOT R.O.W. SHALL BE LOAMED AND SEEDDED. REFER TO VEGETATIVE PRACTICE NOTES ON SHEET C-2.

- NOTES:**
- PROPERTY LINE DELINEATION AND EXISTING CONDITIONS ARE TAKEN FROM PLAN ENTITLED "WETLAND STUDY OF A.P. 48, LOT 43, SMITHFIELD, RHODE ISLAND - WETLANDS & SITE SURVEY PLAN" PREPARED BY DOUGLAS DESIGN GROUP AND DATED DECEMBER 6, 2021.
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 - NORTH ARROW REFERENCES ASSESSORS MAP.

1	SITE REVISIONS AND RIDEM COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES	Date:	08MAR23
Scale:	1"=40'	Date:	08MAR23

Project Title:
**515 GEORGE WASHINGTON HIGHWAY
(NORTH SIDE)
ASSESSOR'S PLAT 48 LOT 43
SMITHFIELD
RHODE ISLAND**

Client/Owner:
**AND DEVELOPMENT, LLC
150 CHESTNUT STREET
PROVIDENCE, RI 02903**

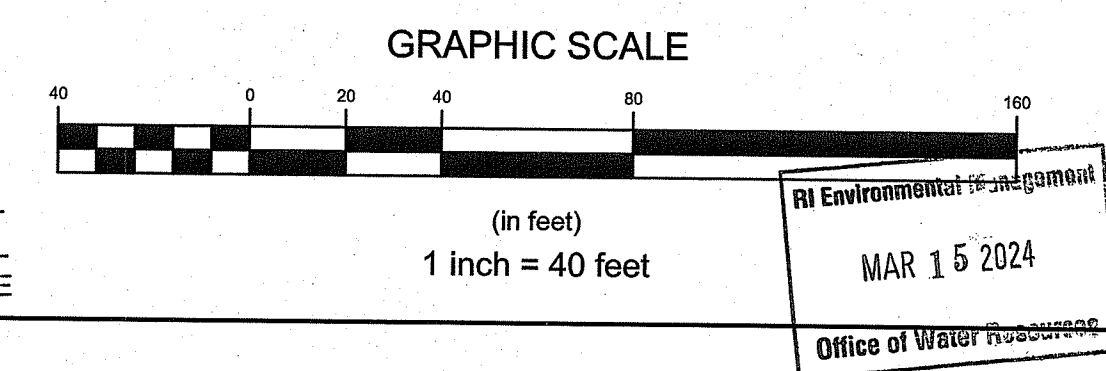
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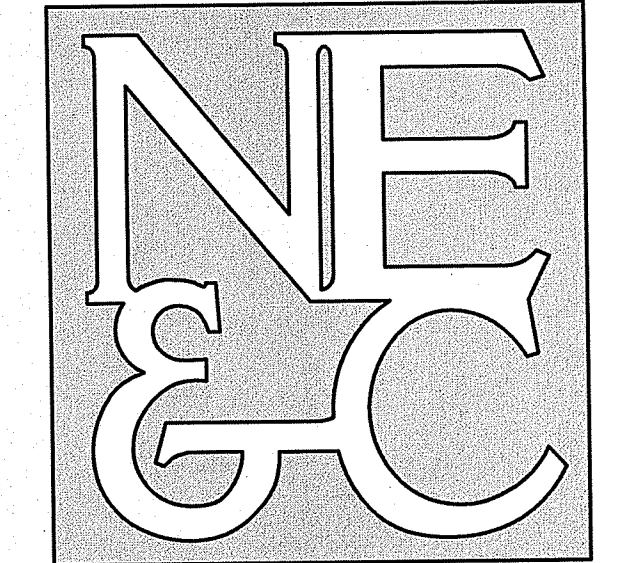
Drawing Title:
**LAYOUT
AND UTILITY PLAN**

Drawing Number: C-5
Sheet 5 of 11
Project Number: 21140.0
Survey Index: -

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: **APR 11 2024** FILE # **22-0301**
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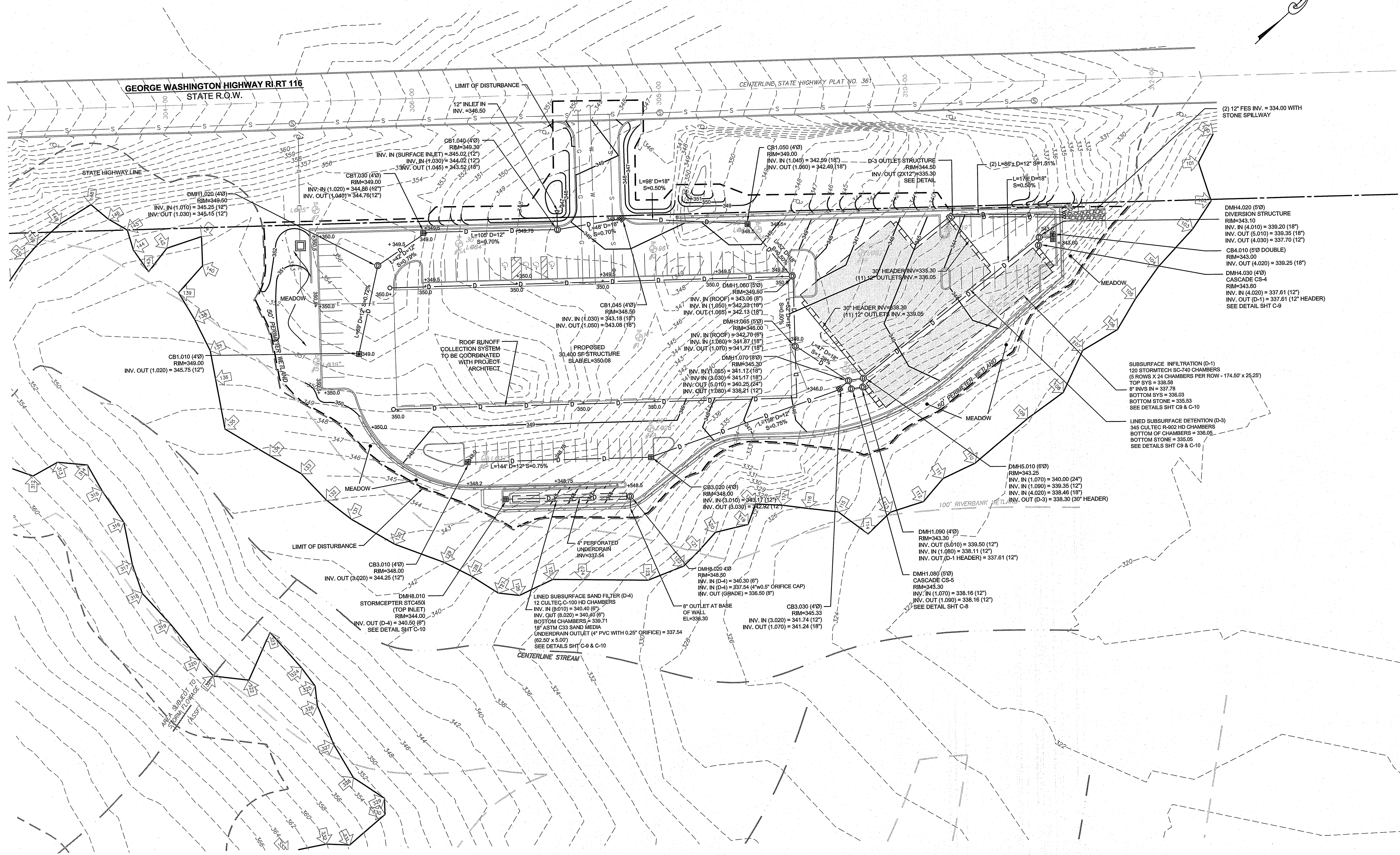
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PHONE (401) 849-0810 FAX (401) 846-4169
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PLAT 48, LOT 17B
N/F
FOX INTERNATIONAL INC
(BOOK 935, PAGE 287)

PLAT 48, LOT 33A
N/F
JORGE A SILVA ET UX
(BOOK 1025, PAGE 282)

PLAT 48, LOT 41A
N/F
JOHN MARTINS TRUST
(BOOK 1294, PAGE 25)

PLAT 48, LOT 31
N/F
BAR R14 LLC
(BOOK 1356, PAGE 255)



LEGEND:

	PROPERTY LINE
	ABUTTER'S PROPERTY LINE
	TOPOGRAPHIC CONTOUR
	WETLAND BOUNDARY
	PERIMETER WETLAND
	STREAM
	RIVERBANK WETLAND
	ROADWAY CENTERLINE
	WETLAND FLAG
	SEWER MANHOLE
	UTILITY POLE
	PROPOSED SEWER SERVICE
	PROPOSED WATER SERVICE
	PROPOSED GAS SERVICE
	PROPOSED ELEC CONDUIT
	PROPOSED DRAIN LINE
	PROPOSED CATCH BASIN
	PROPOSED CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED LIMIT OF DISTURBANCE

1	SITE REVISIONS AND RIEM COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES	Scale:	1"=40'
		Date:	08MAR23

Project Title:
515 GEORGE WASHINGTON HIGHWAY
(NORTH SIDE)
ASSESSOR'S PLAT # (LOT 43)
SMITHFIELD
RHODE ISLAND

Client/Owner:
AND DEVELOPMENT LLC
150 CHESTNUT STREET
PROVIDENCE, RI 02903

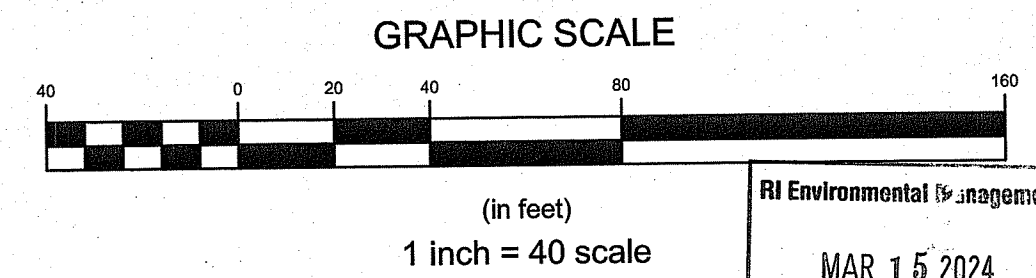
Issued for:
PERMITTING

Drawing Title:
SITE GRADING AND DRAINAGE

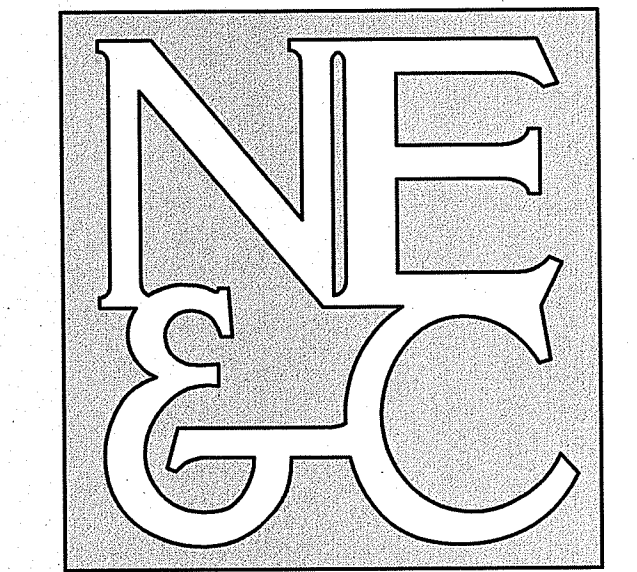
	Drawing Number:	C-6
	Sheet	6 of 11
	Project Number:	21140.0
	Survey Index:	

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: APR 11 2024 FILE # 22021
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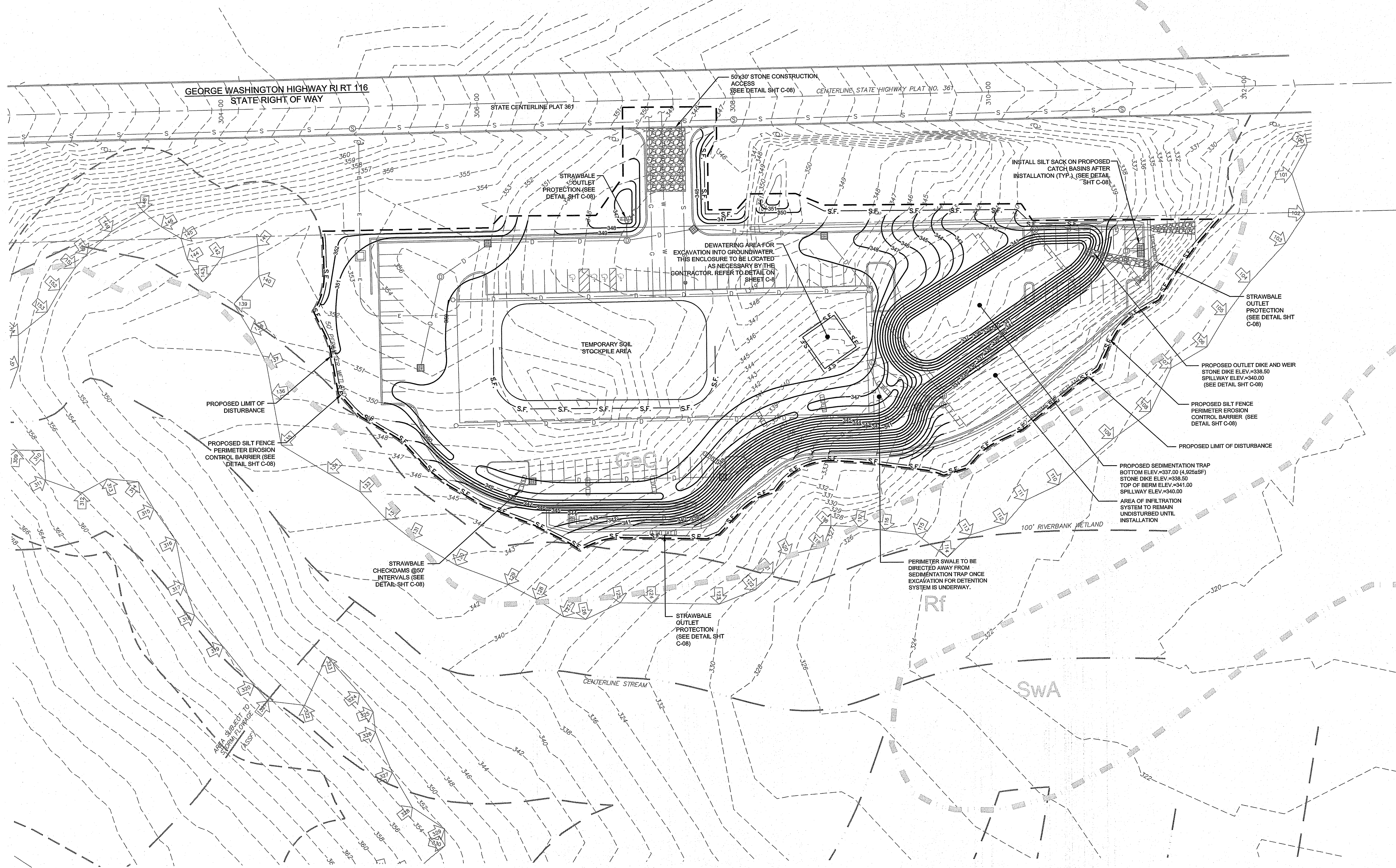
6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842
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WWW.NORTHEASTENGINEERS.COM

PLAT 48, LOT 17B
N/F
FGX INTERNATIONAL INC
(BOOK 935, PAGE 287)

PLAT 48, LOT 33A
N/F
JORGE A SILVA ET UX
(BOOK 1025, PAGE 262)

PLAT 48, LOT 41A
N/F
JOHN MARTINS TRUST
(BOOK 1294, PAGE 25)

PLAT 48, LOT 31
N/F
BAR R14 LLC
(BOOK 1356, PAGE 255)



LEGEND:

- PROPERTY LINE
- ABUTTER'S PROPERTY LINE
- - - TOPOGRAPHIC CONTOUR
- - - WETLAND BOUNDARY
- - - PERMETER WETLAND
- STREAM
- RIVERBANK WETLAND
- ROADWAY CENTERLINE
- WETLAND FLAG
- SEWER MANHOLE
- UTILITY POLE
- PROPOSED SEWER SERVICE
- PROPOSED WATER SERVICE
- PROPOSED GAS SERVICE
- PROPOSED ELEC CONDUIT
- PROPOSED DRAIN LINE
- PROPOSED DRAIN MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED CONSTRUCTION GRADING
- S.F. PROPOSED SILT FENCE
- PROPOSED STRAW BALES
- PROPOSED LIMIT OF DISTURBANCE

1	SITE REVISIONS AND RIDEM COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES		
Scale:	1"=40'	Date:	08MAR23

Project Title:
**515 GEORGE WASHINGTON HIGHWAY
(NORTH SIDE)
ASSESSOR'S PLAT 46 LOT 43)
SMITHFIELD 18
RHODE ISLAND**

Client/Owner:
**AND DEVELOPMENT LLC
150 CHESTNUT STREET
PROVIDENCE, RI 02903**

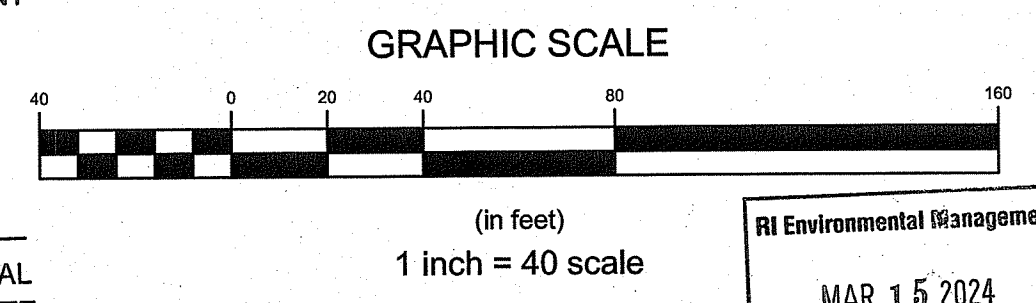
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PERMITTING

Drawing Title:
**SOIL EROSION AND
SEDIMENT CONTROL
SHOWING CONSTRUCTION GRADING**

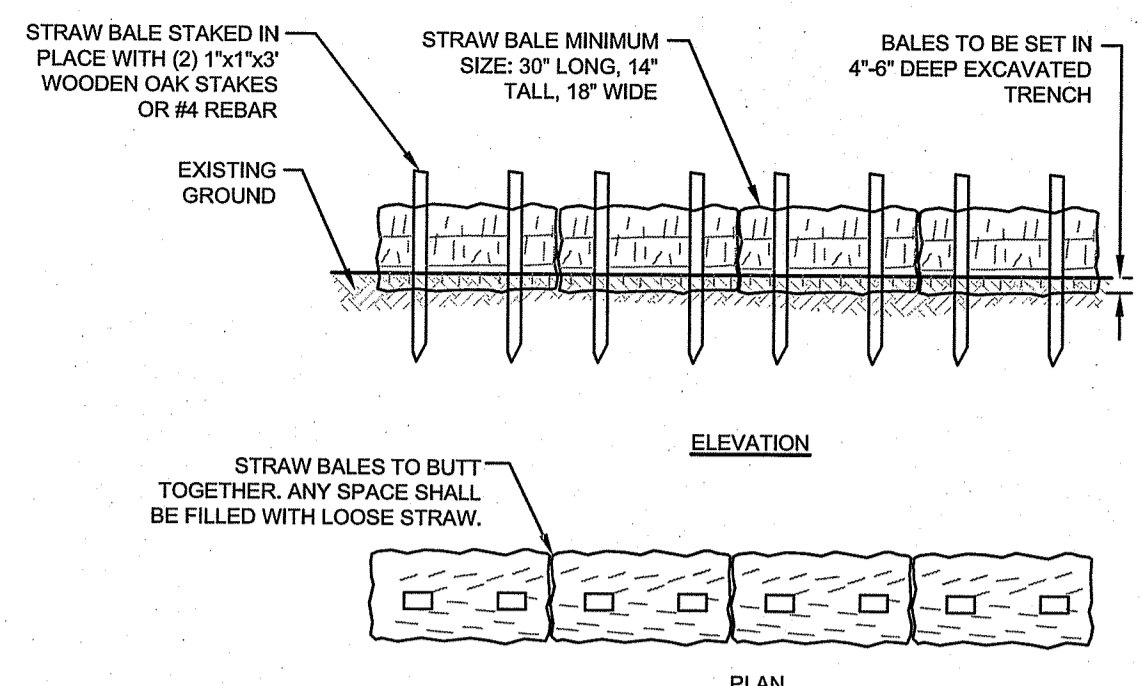
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	Sheet	7 of 11
	Project Number:	21140.0
	Survey Index:	

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DATED: APR 11 2024 FILE #: 27-034
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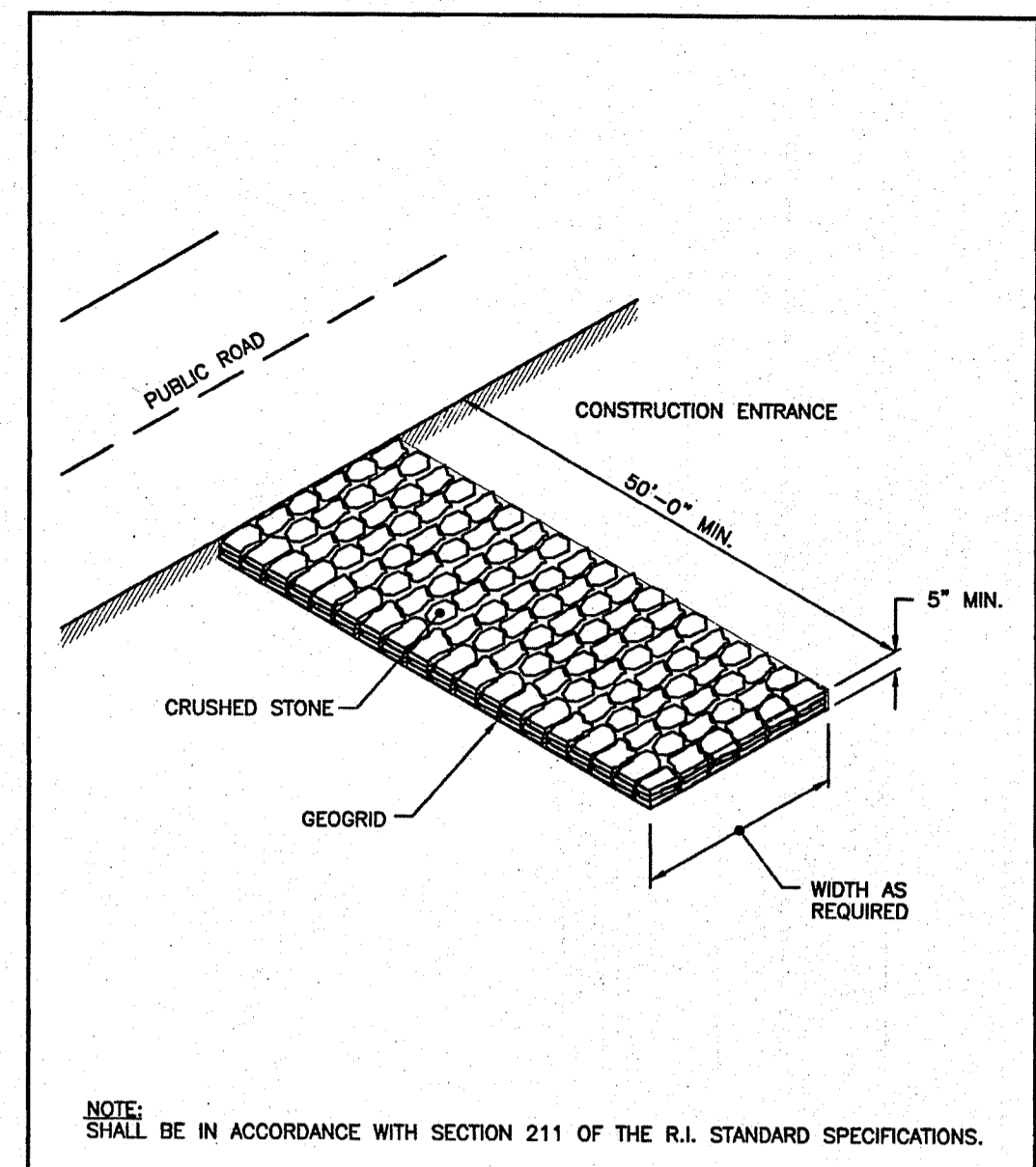


RI Environmental Management
MAR 15 2024
Office of Water Resources



- NOTES:**
- BALE WEIGHT SHALL NOT BE LESS THAN 50 LBS AND SHALL BE BOUND WITH NO LESS THAN TWO STRINGS OR WIRES CONTAINING A MINIMUM OF FIVE (5) CUBIC FEET OF MATERIAL. MINIMUM DIMENSIONS SHOWN IN DETAIL.
 - STRAW BALES SHALL BE CERTIFIED AS BEING NOXIOUS WEED-FREE BALES. TO BE "CERTIFIED" MEANS THAT THE PRODUCT IS FREE OF ANY NOXIOUS WEEDS.
 - STAKES SHALL BE DRIVEN THROUGH STAKES AT A SLIGHT UPSTREAM ANGLE TO PREVENT BALE FROM OVERTURNING.
 - LOOSE STRAW SHALL BE WEDGED BETWEEN BALES AFTER INSTALLATION.
 - MATERIAL EXCAVATED FROM TRENCH SHALL BE BACKFILLED, COMPACTED, AND STABILIZED.

BALED STRAW EROSION CONTROL BARRIER
SCALE: NOT TO SCALE



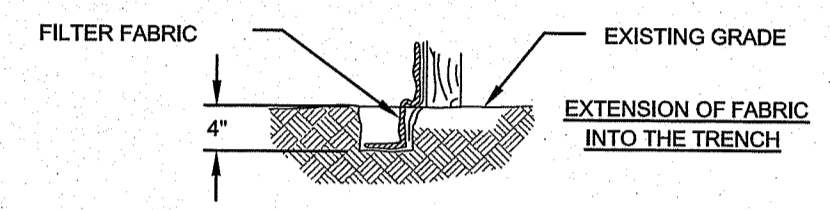
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CONSTRUCTION ACCESS

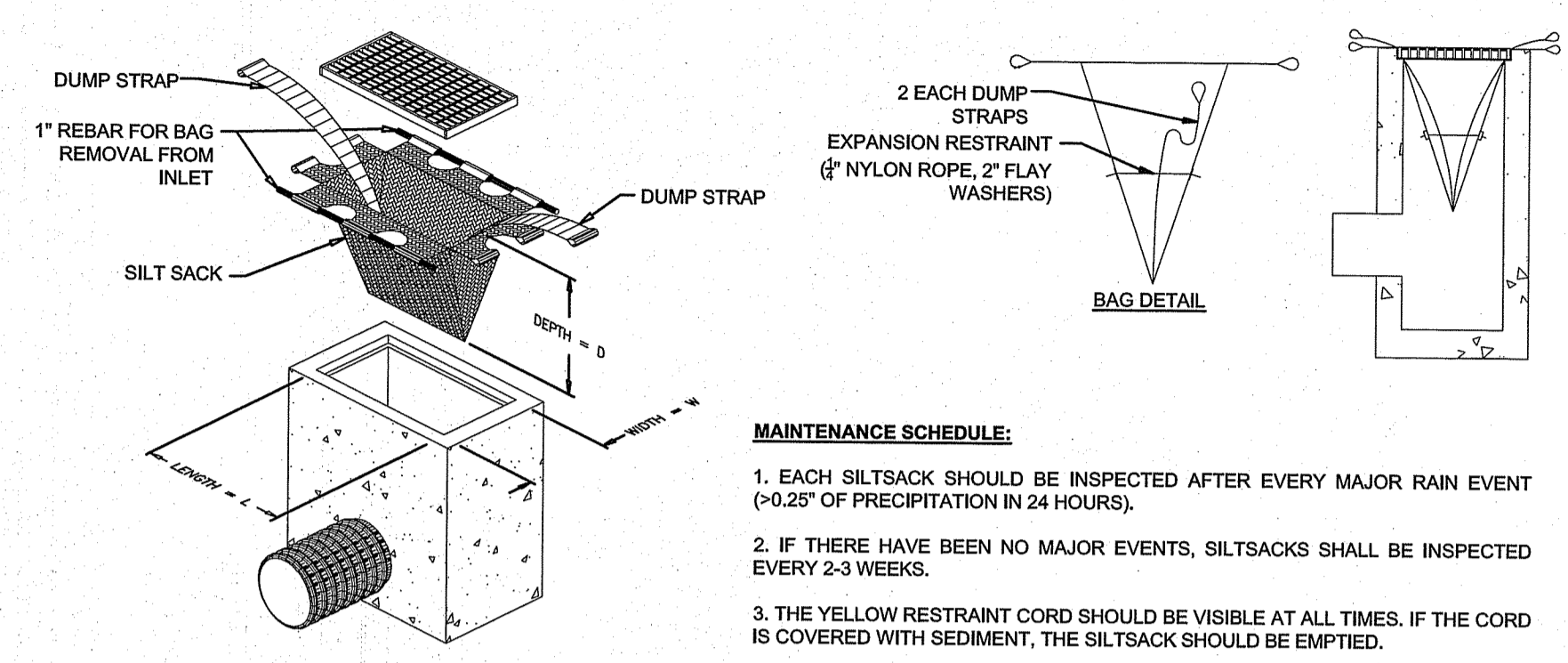
DATE: JUNE 15, 1998

R.I. STANDARD 9.9.0

- SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
- STAPLE FILTER FABRIC TO THE POSTS AND EXTEND INTO TRENCH.
- BACK FILL AND COMPACT THE EXCAVATED SOIL INTO THE TRENCH.

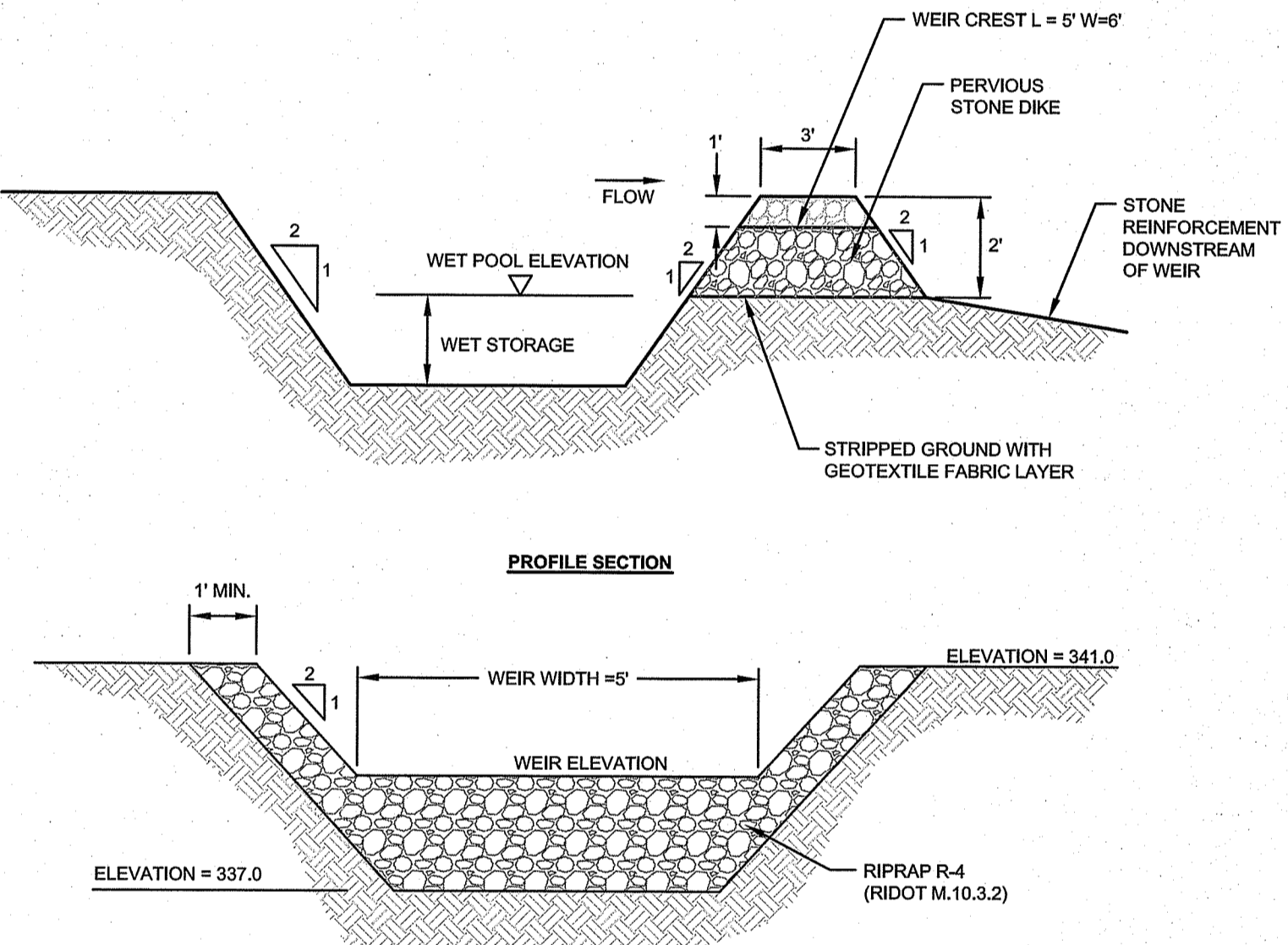


SILT FENCE EROSION CONTROL BARRIER
SCALE: NOT TO SCALE

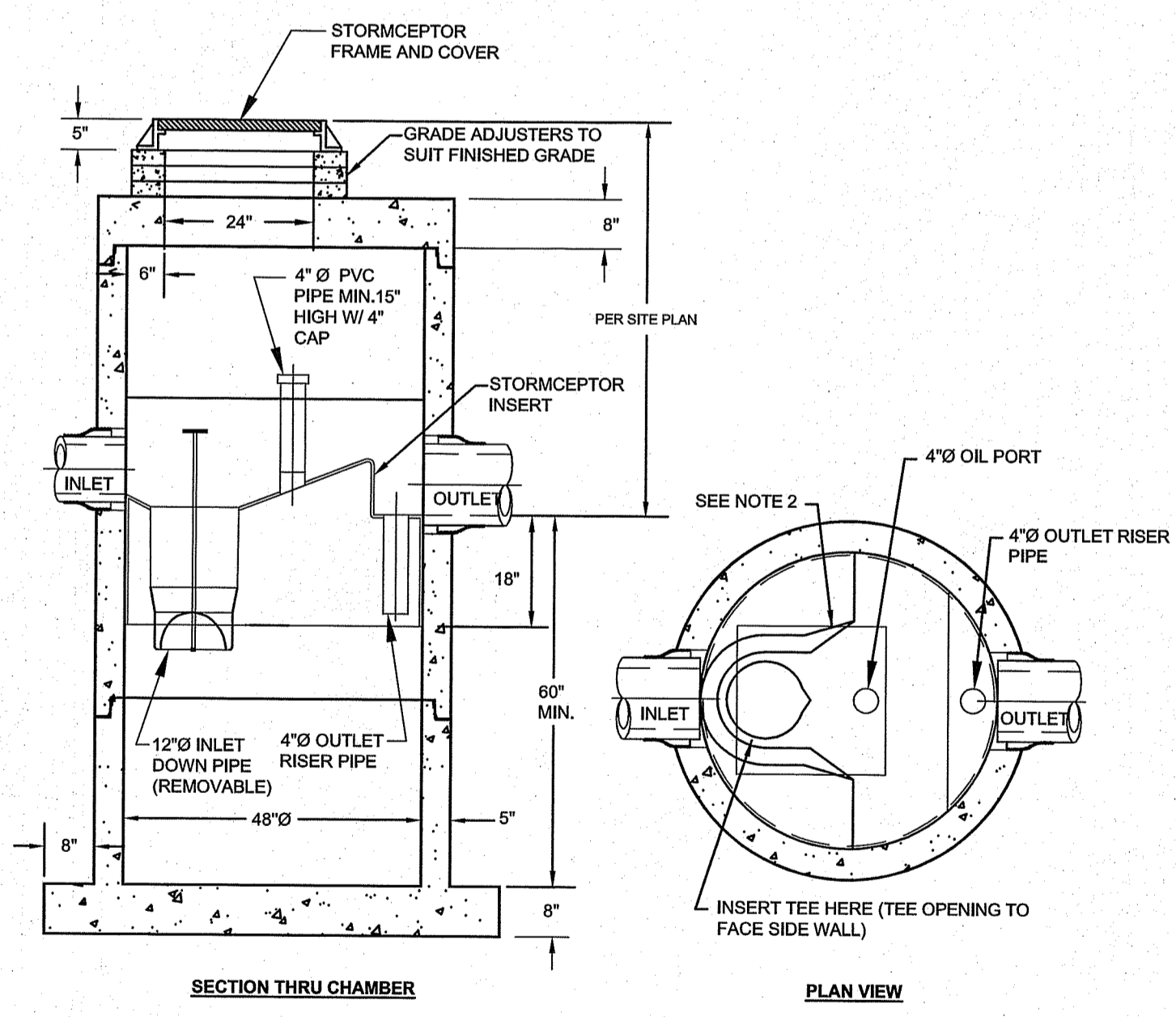


- MAINTENANCE SCHEDULE:**
- EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT (>0.25" OF PRECIPITATION IN 24 HOURS).
 - IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACKS SHALL BE INSPECTED EVERY 2-3 WEEKS.
 - THE YELLOW RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

SILT SACK DETAIL
SCALE: NOT TO SCALE

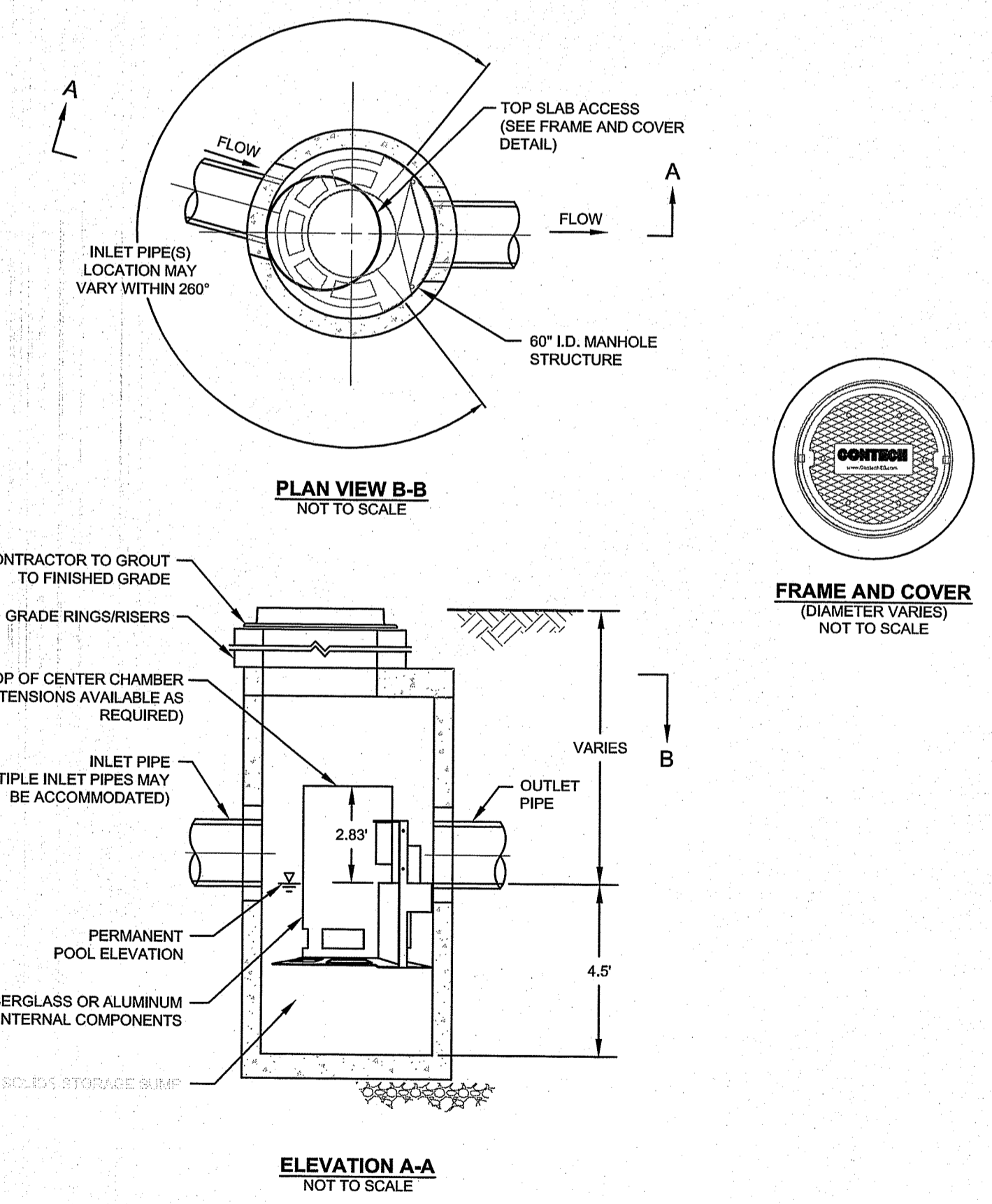


SEDIMENT TRAP DETAILS
SCALE: NOT TO SCALE

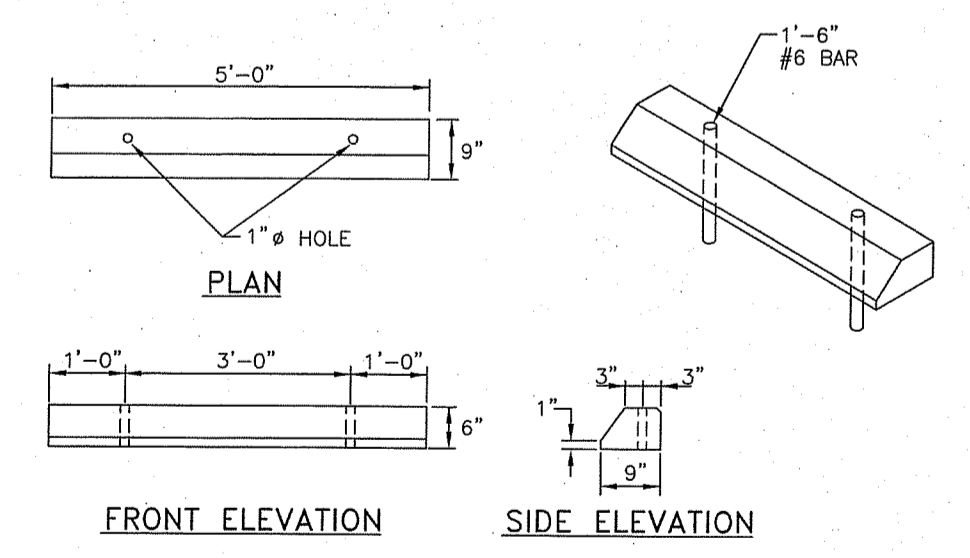


- NOTES:**
- THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
 - THE COVER SHOULD BE POSITIONED OVER THE INLET DROP PIPE AND THE OIL PORT.
 - THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.

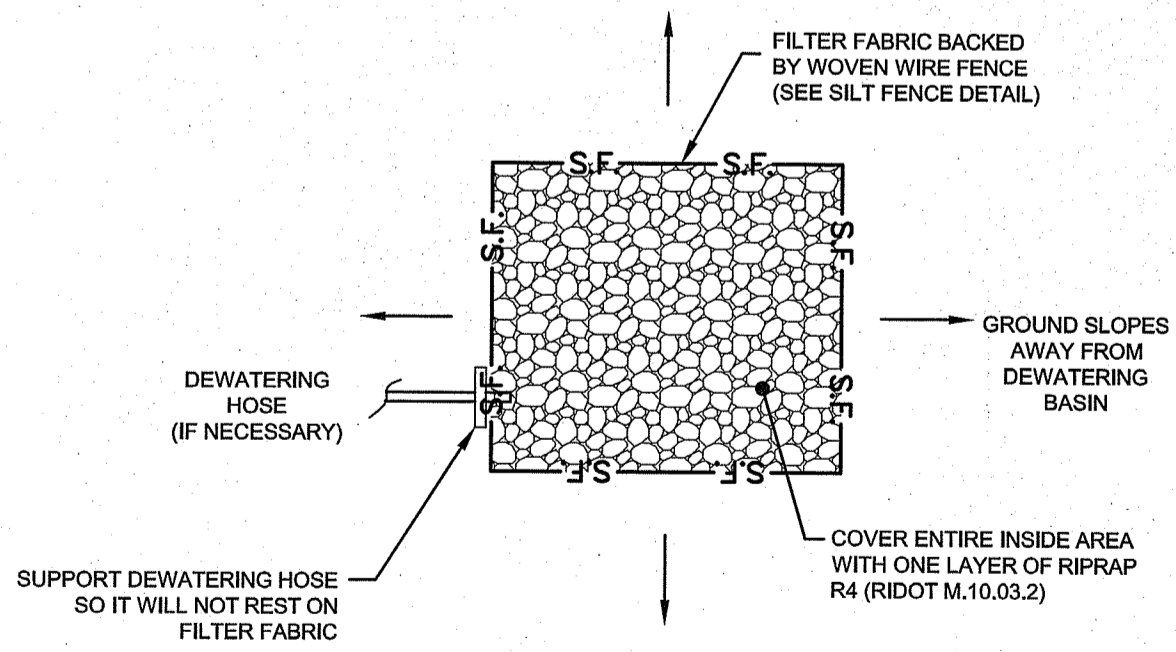
STC 450i PRECAST CONCRETE STORMCEPTOR
FOR DMH 7.080 AND DMH 4.030
(450 U.S. GALLON CAPACITY)
SCALE: NOT TO SCALE



CASCADE SEPARATOR MODEL CS-5 DETAIL
SCALE: NOT TO SCALE



CONCRETE CAR STOP
SCALE: NOT TO SCALE



TYPICAL DEWATERING BASIN
SCALE: NOT TO SCALE

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 - ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
 - ALL SURFACES TO HAVE A SPONGE FLOAT FINISH.

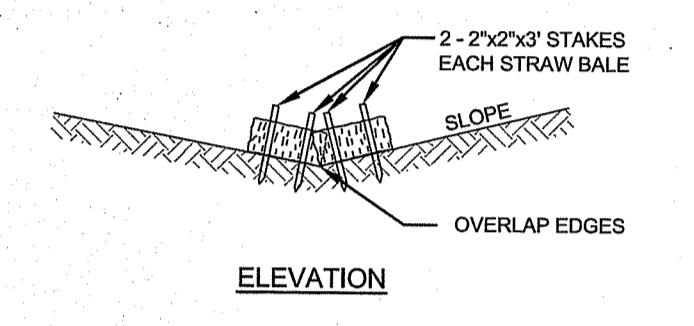
NORTHEAST ENGINEERS & CONSULTANTS, INC.

NE & C

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STRUCTURAL



STRAW BALE CHECKDAM
SCALE: NOT TO SCALE

1	SITE REVISIONS AND RIDEW COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES	Date:	08MAR23
Project Title:			
515 GEORGE WASHINGTON HIGHWAY (NORTH SIDE) ASSESSOR'S PLAT 48 LOT 43 SMITHFIELD RHODE ISLAND			
Client/Owner:			
AND DEVELOPMENT, LLC 150 CHESTNUT STREET PROVIDENCE, RI 02903			
Issued for:			
PERMITTING			
Drawing Title:			
SITE DETAILS 1			
Drawing Number:		C-8	
Sheet 8 of 11		Project Number:	
		21140.0	
Survey Index:			
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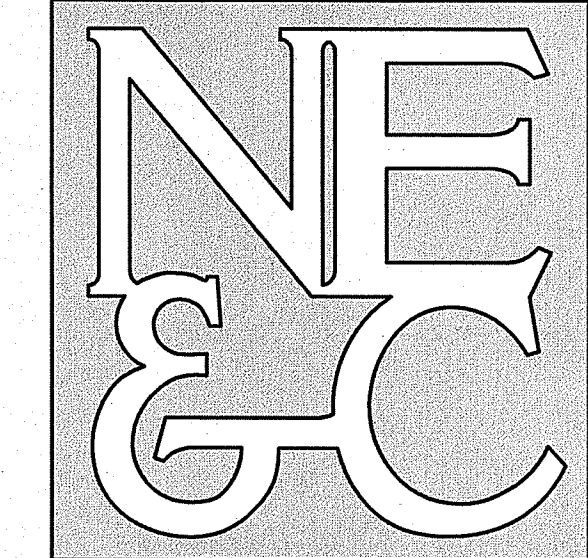
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATE: APR 11 2024 FILE #: 22-024

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

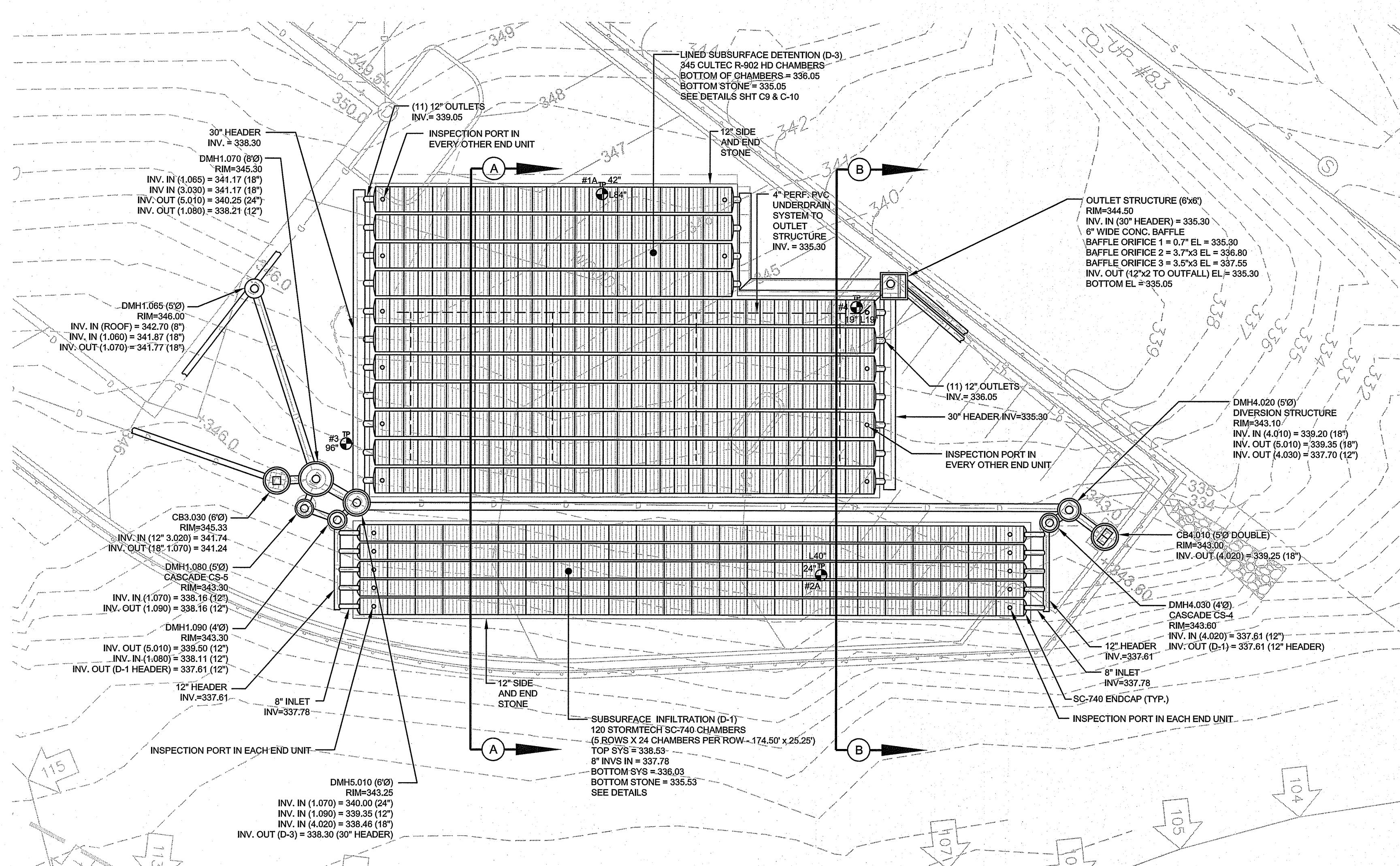
RI Environmental Management
MAR 15 2024
Office of Water Resources



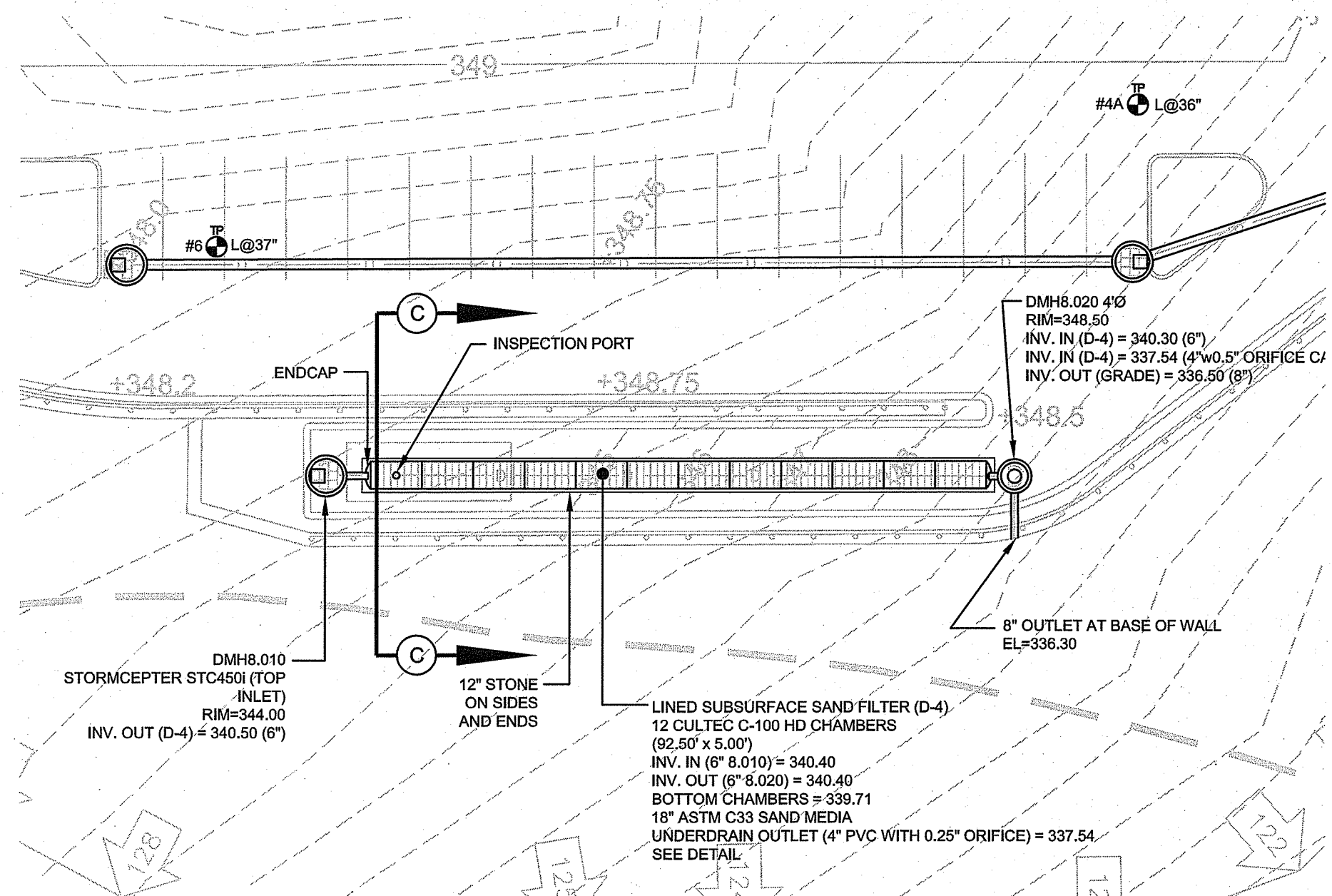
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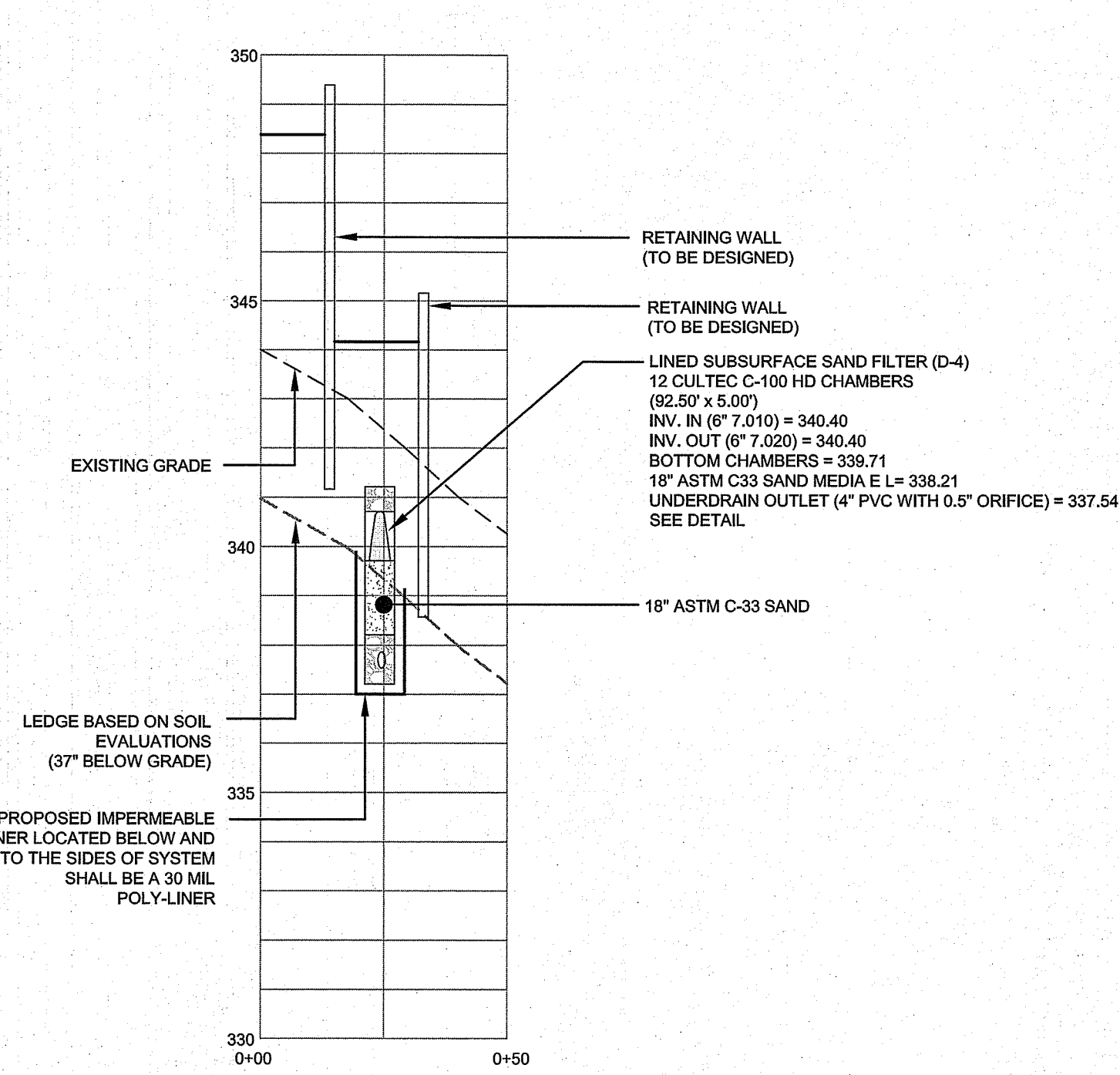
SITE/CIVIL
LAND PLANNING
WATERFRONT
SURVEYING
GEOTECHNICAL
ENVIRONMENTAL
TRANSPORTATION
STRUCTURAL



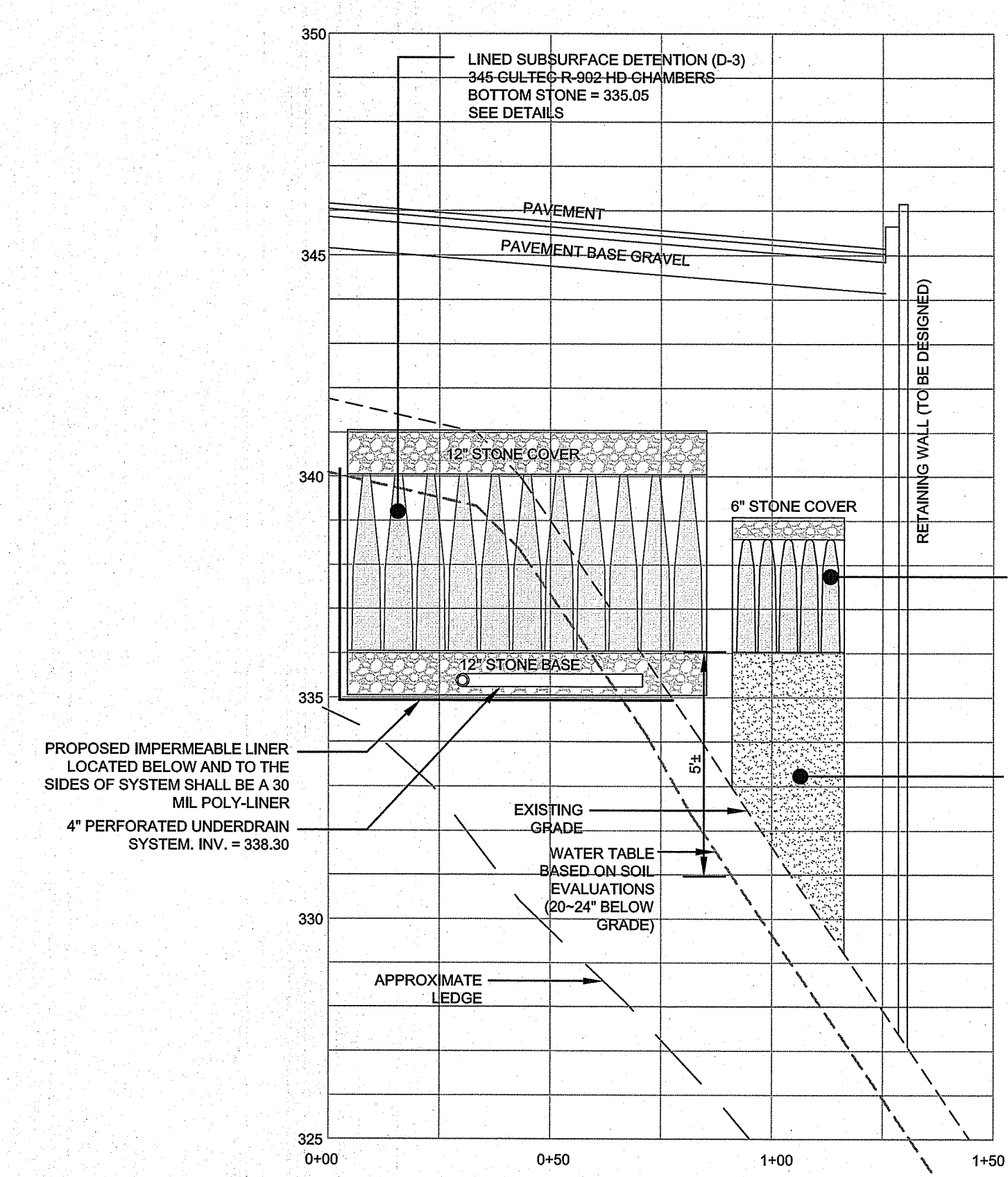
STORMWATER SYSTEM DETAIL VIEW 1
HORIZONTAL SCALE: 1" = 20'



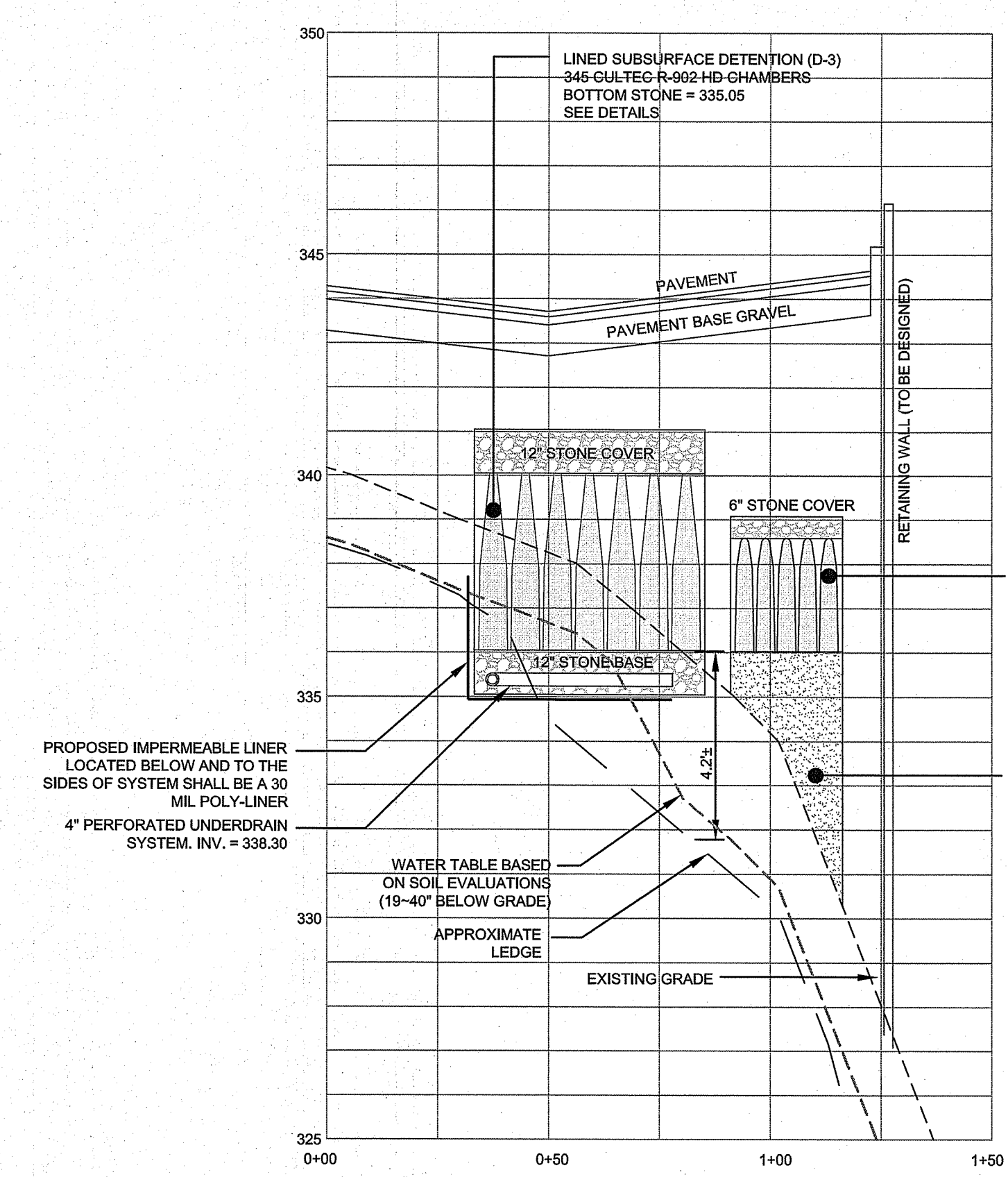
STORMWATER SYSTEM DETAIL VIEW 2
HORIZONTAL SCALE: 1" = 20'



STORMWATER SYSTEM SECTION C-C
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



STORMWATER SYSTEM SECTION A-A
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

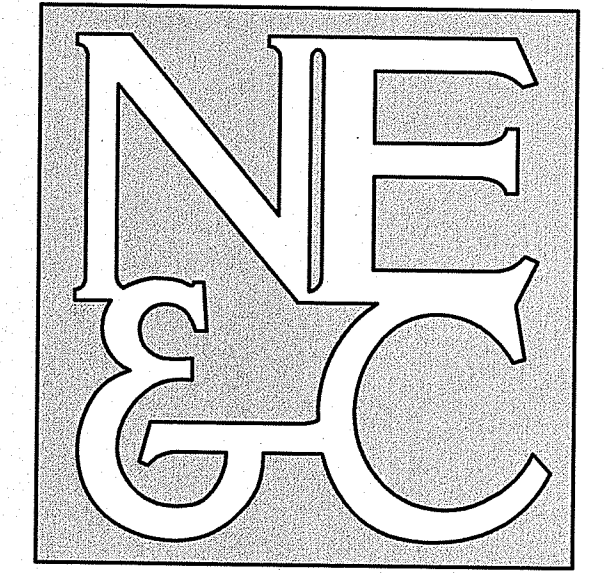


STORMWATER SYSTEM SECTION B-B
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

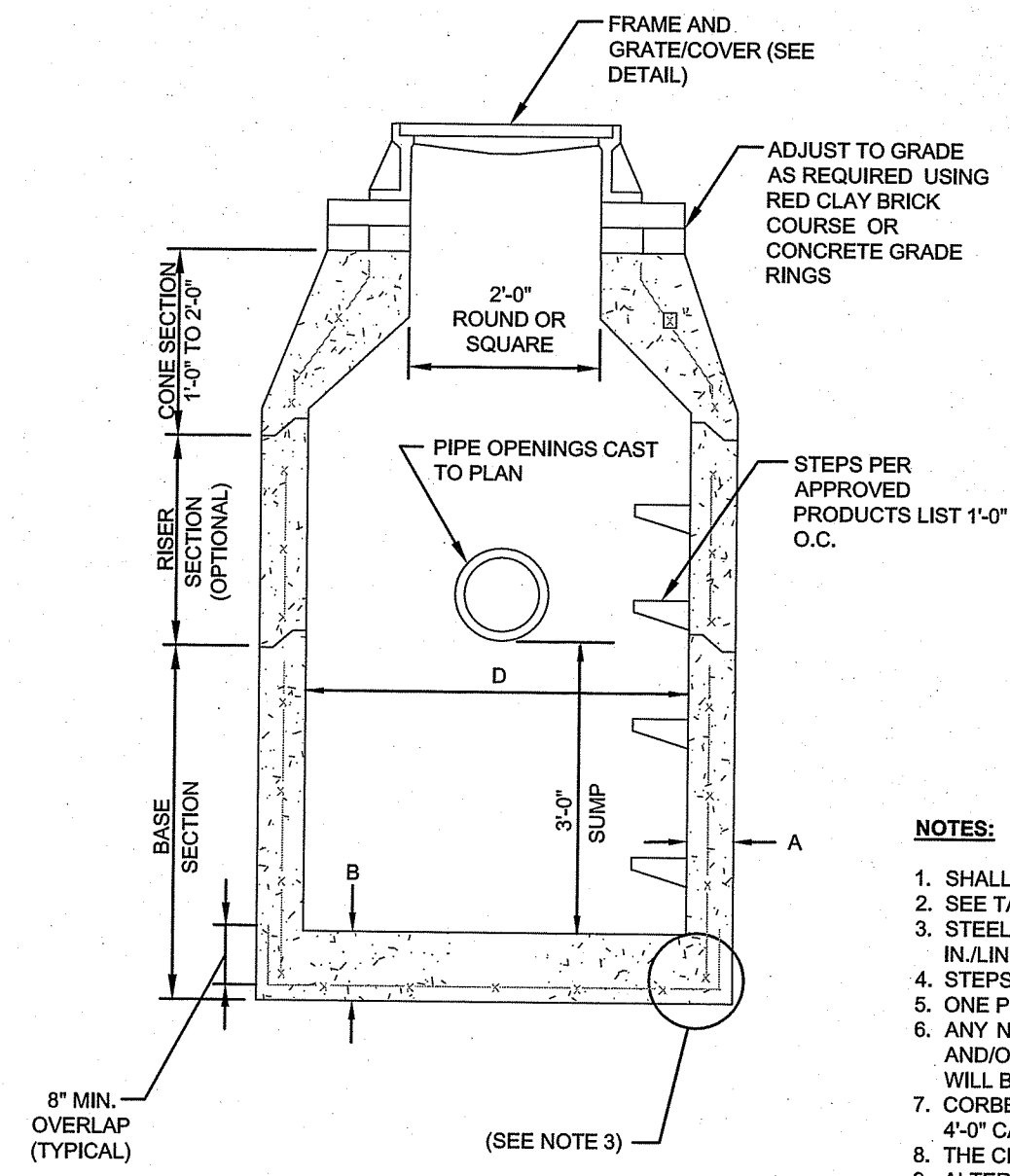
1	SITE REVISIONS AND RIDEEM COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES	Date:	08MAR23
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AND DEVELOPMENT, LLC 150 CHESTNUT STREET PROVIDENCE, RI 02903			
Issued for:			
PERMITTING			
Drawing Title:			
SITE DETAILS 2			
Drawing Number:		C-9	
Sheet		9 of 11	
Project Number:		21140.0	
Survey Index:			
		Drawing Number: C-9 Sheet 9 of 11 Project Number: 21140.0 Survey Index:	
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
APR 11 2024 FILE # 22-0324
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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RI Environmental Management
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Office of Water Resources



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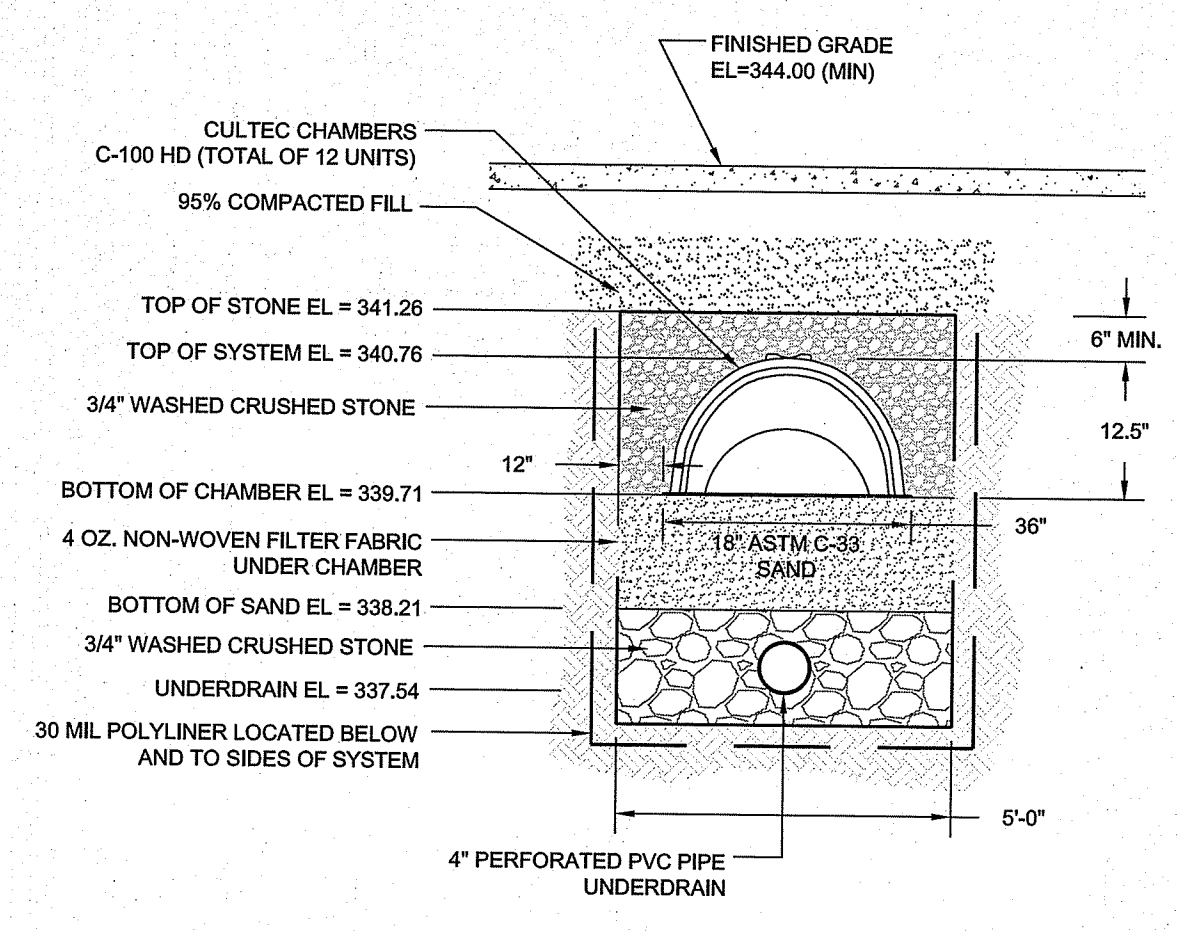
ALTERNATIVE TOP SLAB (See Notes 9 & 10)

CATCH BASIN DIAMETER (D)	AS REQUIRED		CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
	A	B	
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.
8'-0"	9"	8"	REFER TO MANUFACTURER

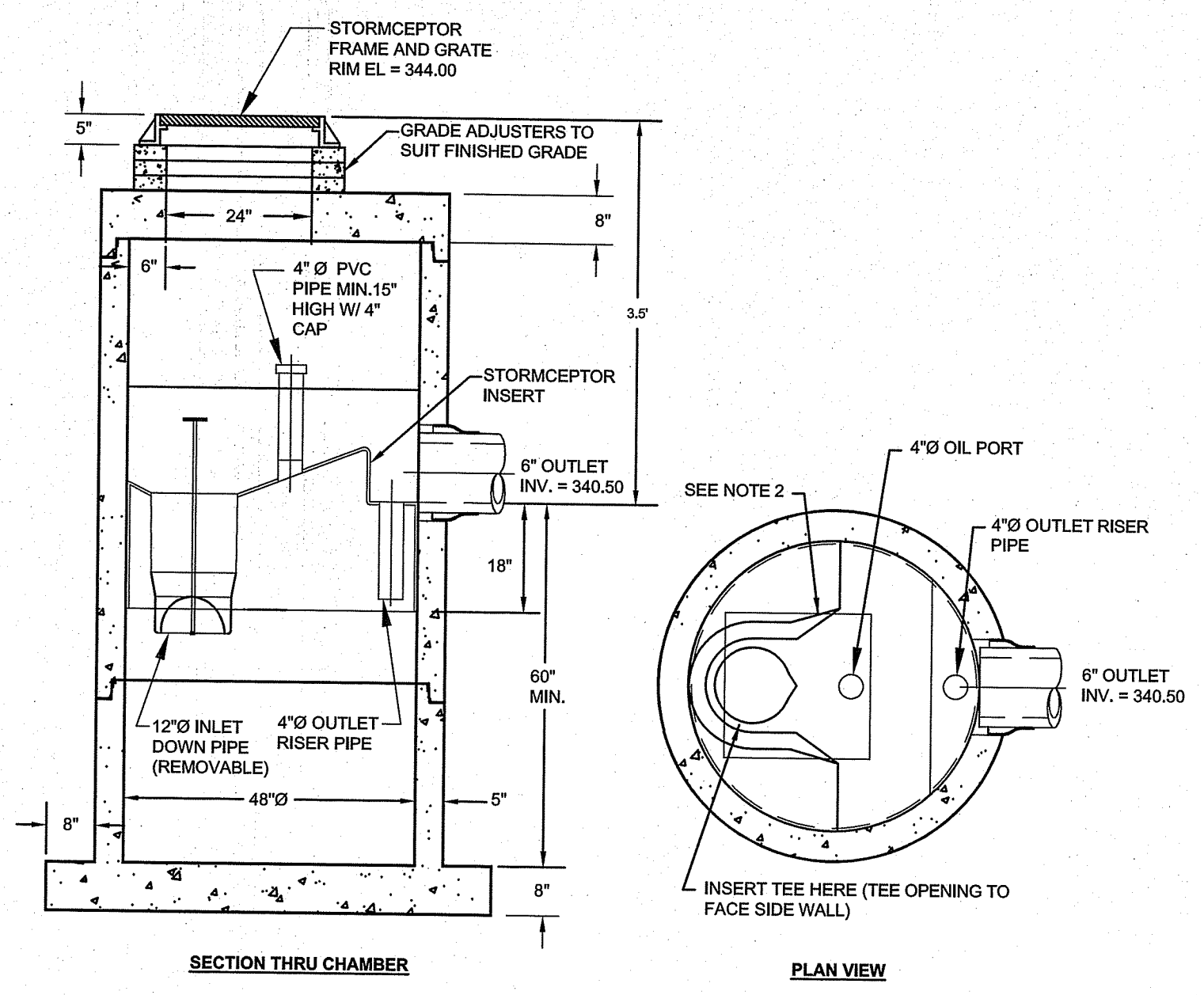
* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

- NOTES:
- SHALL BE ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATION.
 - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ONE POUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 - ALTERNATIVE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATIVE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.

PRECAST ROUND CATCH BASIN & DRAIN MANHOLE
SCALE: NOT TO SCALE

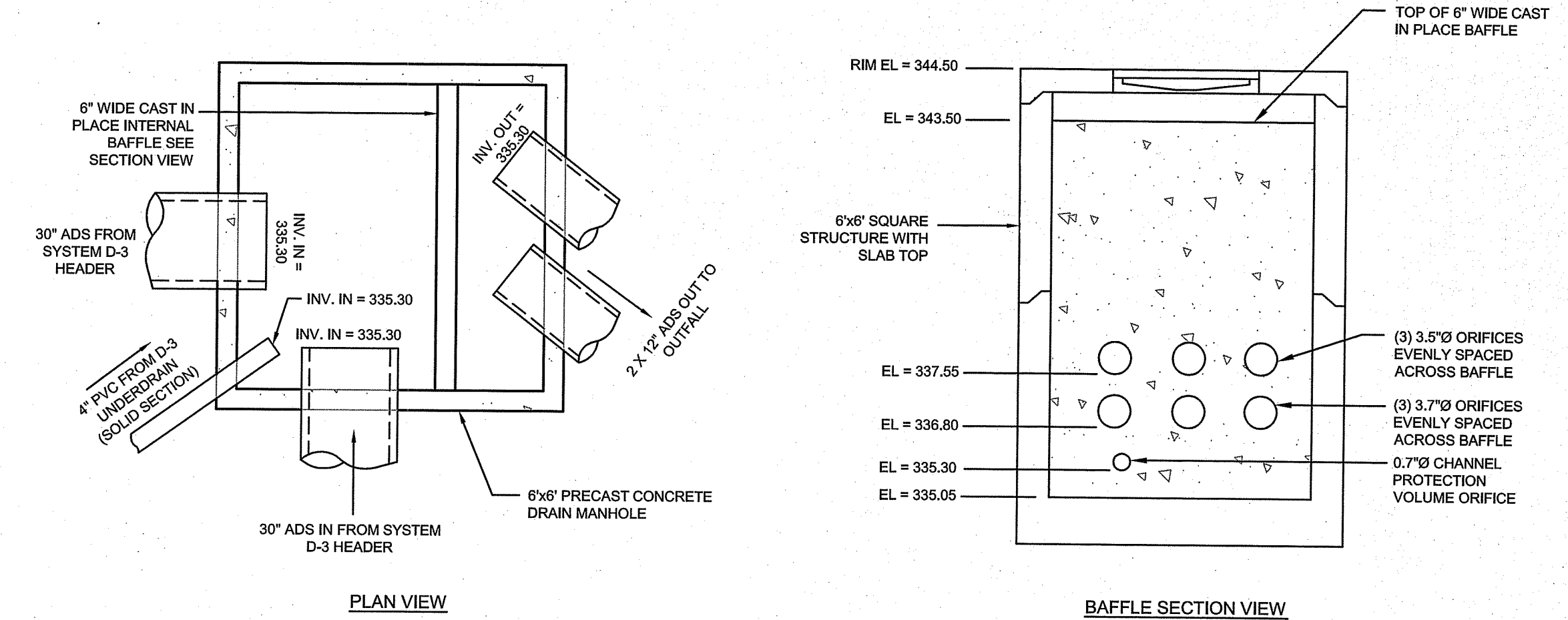


LINED SAND FILTER (D-4) SECTION
SCALE: NOT TO SCALE

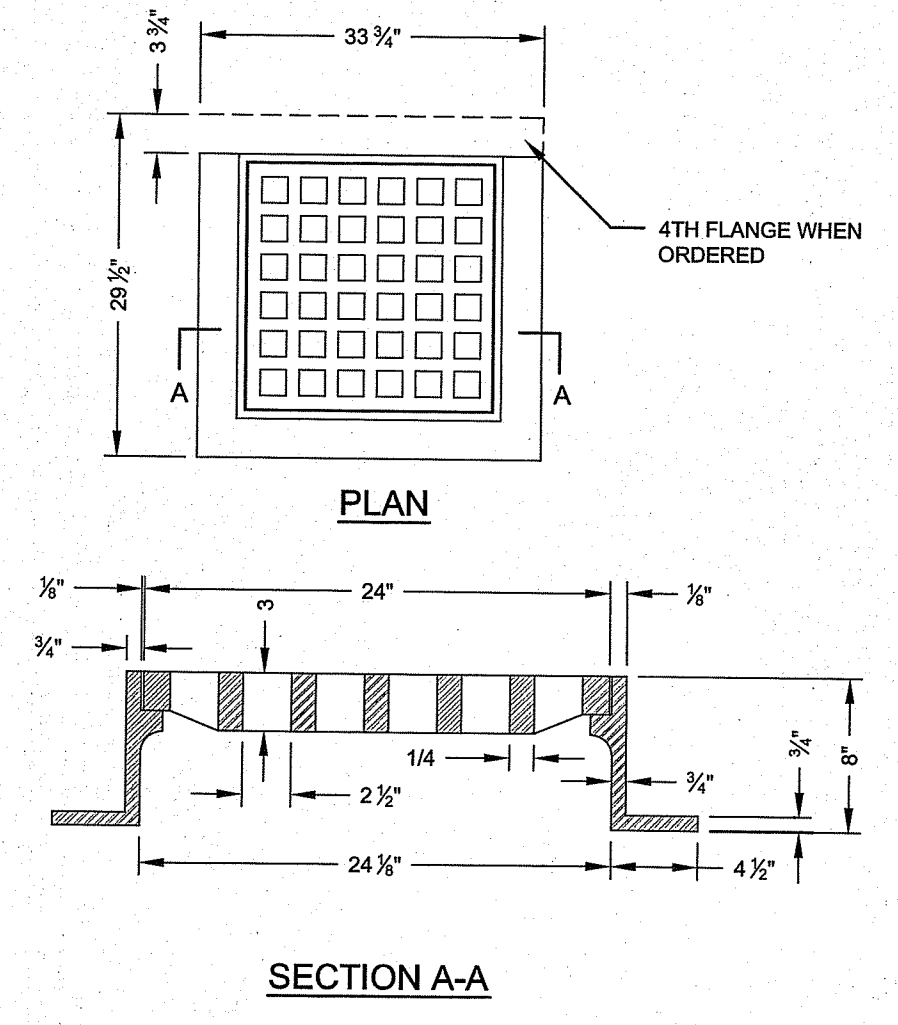


- NOTES:
- THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
 - THE INLET SHOULD BE POSITIONED OVER THE INLET DROP PIPE AND THE OIL PORT.
 - THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.

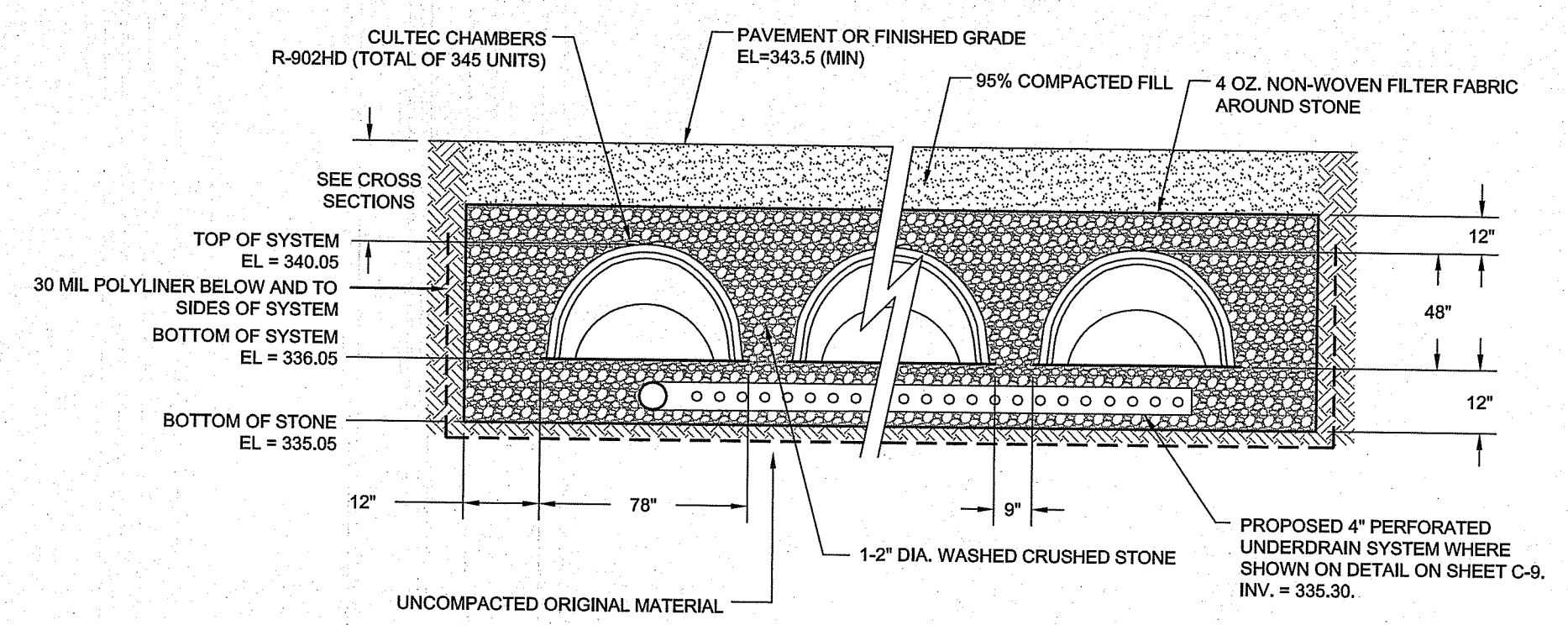
STC 450I PRECAST CONCRETE STORMCEPTOR DMH 8.010 (450 U.S. GALLON CAPACITY)
SCALE: NOT TO SCALE



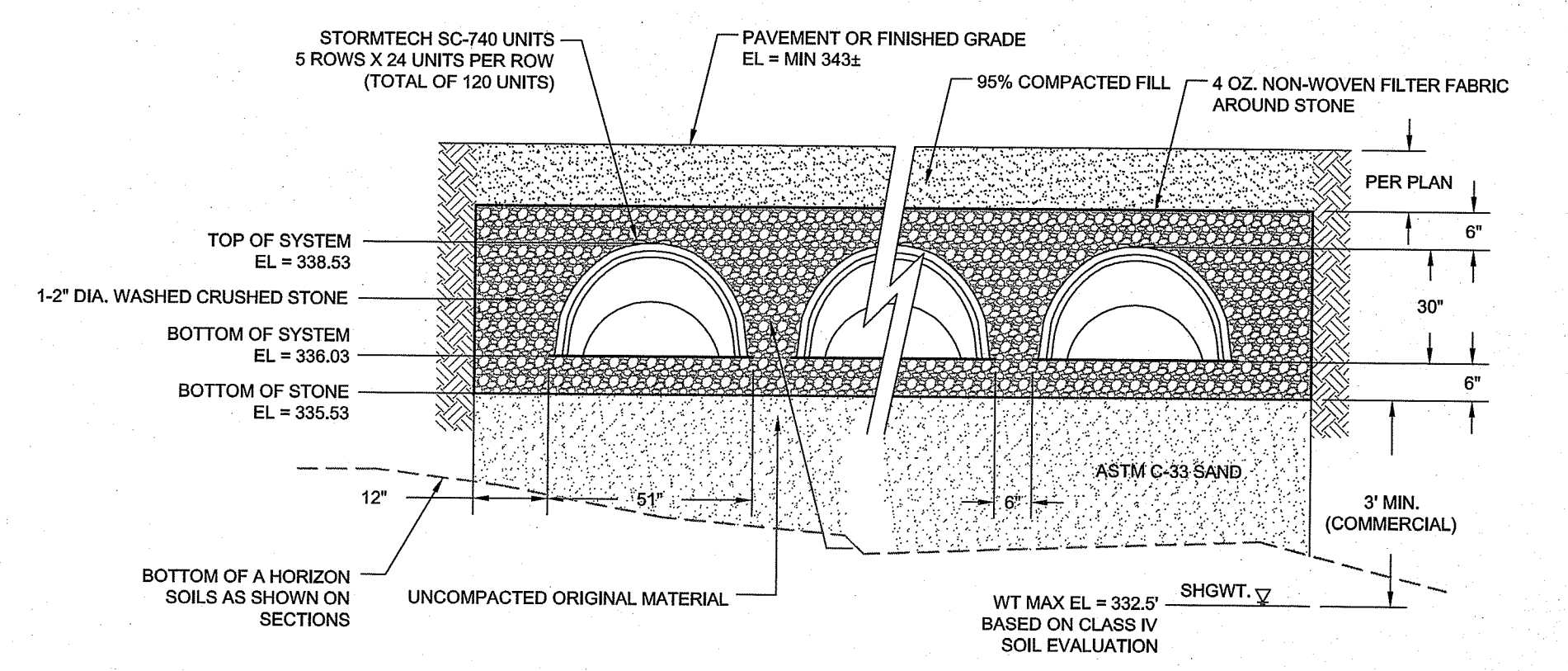
SYSTEM D-3 OUTLET STRUCTURE DETAILS
SCALE: NOT TO SCALE



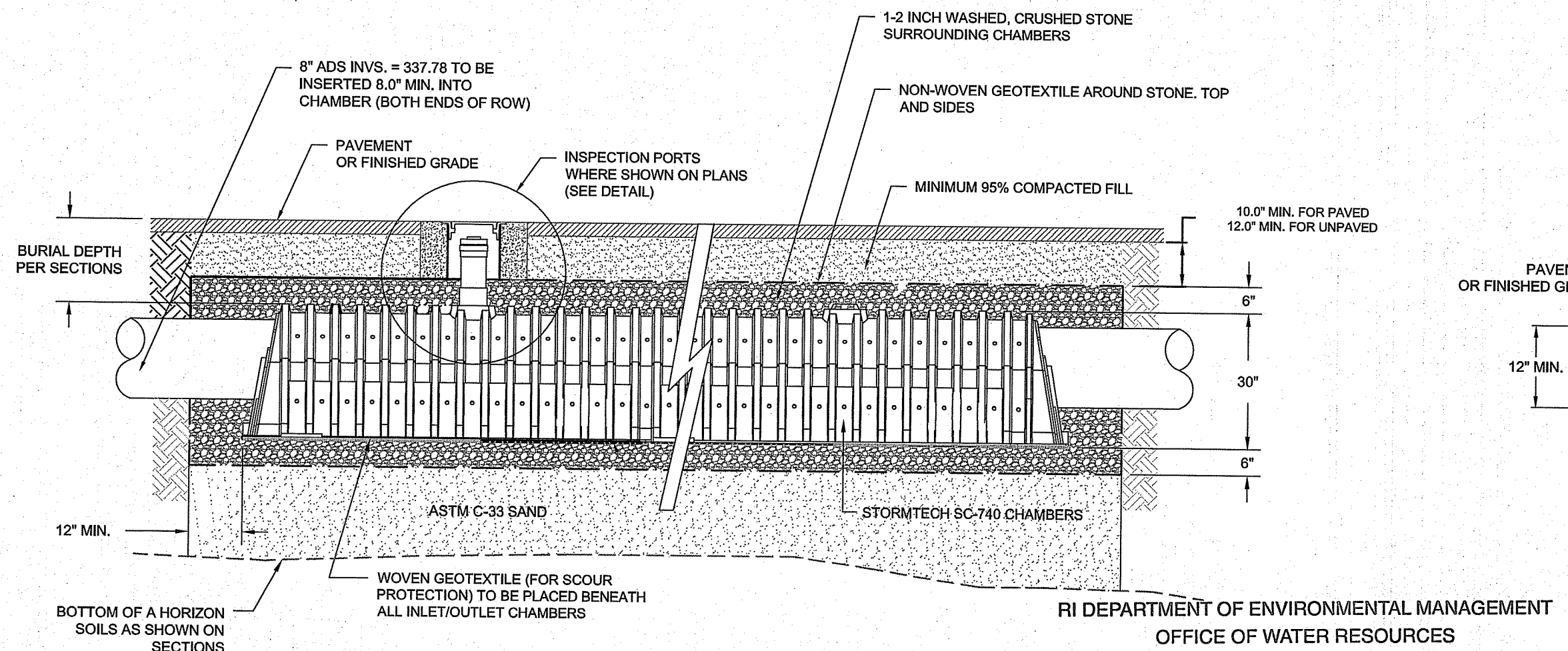
SQUARE FRAME AND GRATE
SCALE: NOT TO SCALE



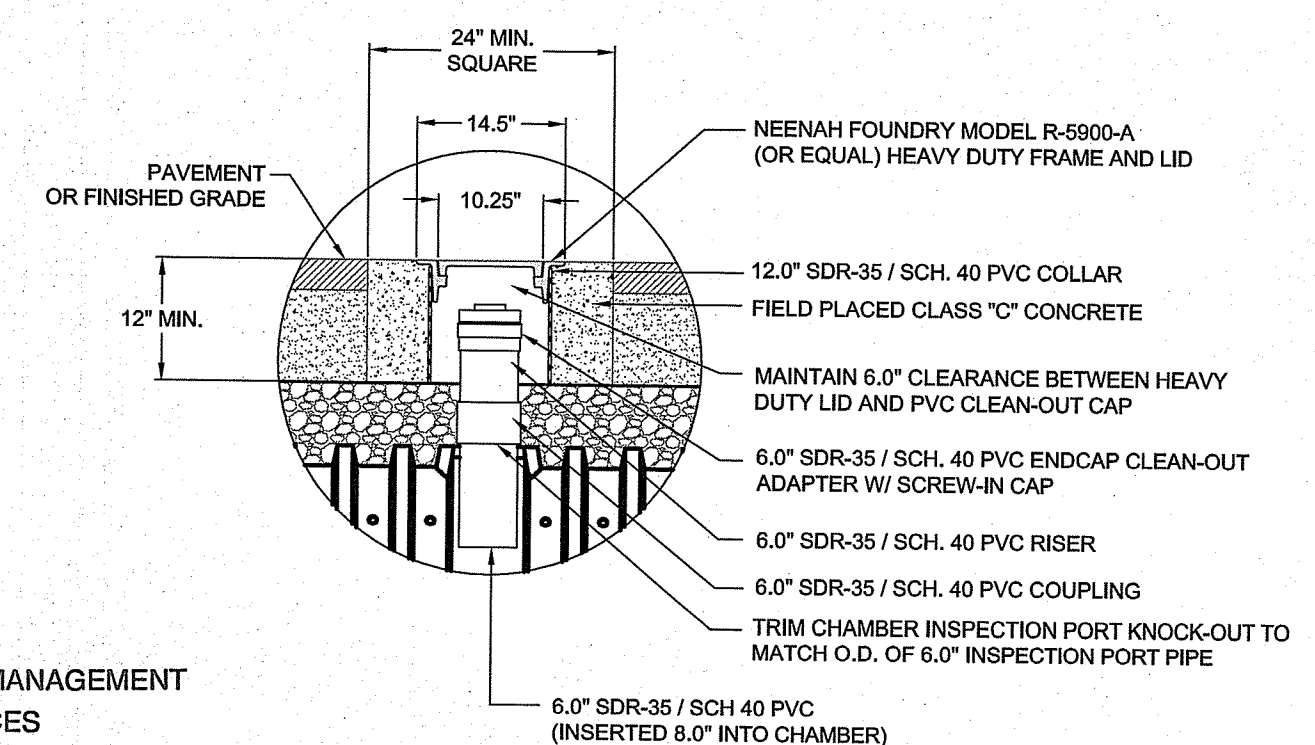
CULTEC R-902HD SYSTEM D-3 CROSS SECTION
SCALE: NOT TO SCALE



STORMTECH SC-740 INFILTRATION SYSTEM D-1 CROSS SECTION
SCALE: NOT TO SCALE



STORMTECH SC-740 INFILTRATION SYSTEM D-1 PROFILE
SCALE: NOT TO SCALE

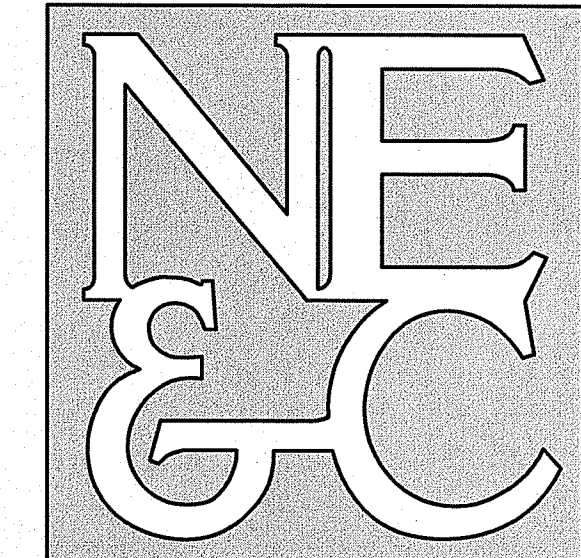


INSPECTION PORT (PAVED APPLICATION)
SCALE: NOT TO SCALE

1	SITE REVISIONS AND RIDE COMMENTS	08MAR24	
No.	Revision	Date	App.
Designed By:	JJR	Drawn by:	JJR
Checked by:	GES		
Scale:	AS SHOWN	Date:	08MAR23
Project Title:			
515 GEORGE WASHINGTON HIGHWAY (NORTH SIDE) ASSESSOR'S PLAT 48 LOT 43 SMITHFIELD RHODE ISLAND			
Client/Owner:			
AND DEVELOPMENT, LLC 150 CHESTNUT STREET PROVIDENCE, RI 02903			
Issued for:			
PERMITTING			
Drawing Title:			
SITE DETAILS 3			
Drawing Number:		C-10	
Sheet		10 of 11	
Project Number:		21140.0	
Survey Index:			
		Drawing Number: Sheet 10 of 11 Project Number: 21140.0 Survey Index:	
OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.			

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: APR 11 2024 FILE #: 22034
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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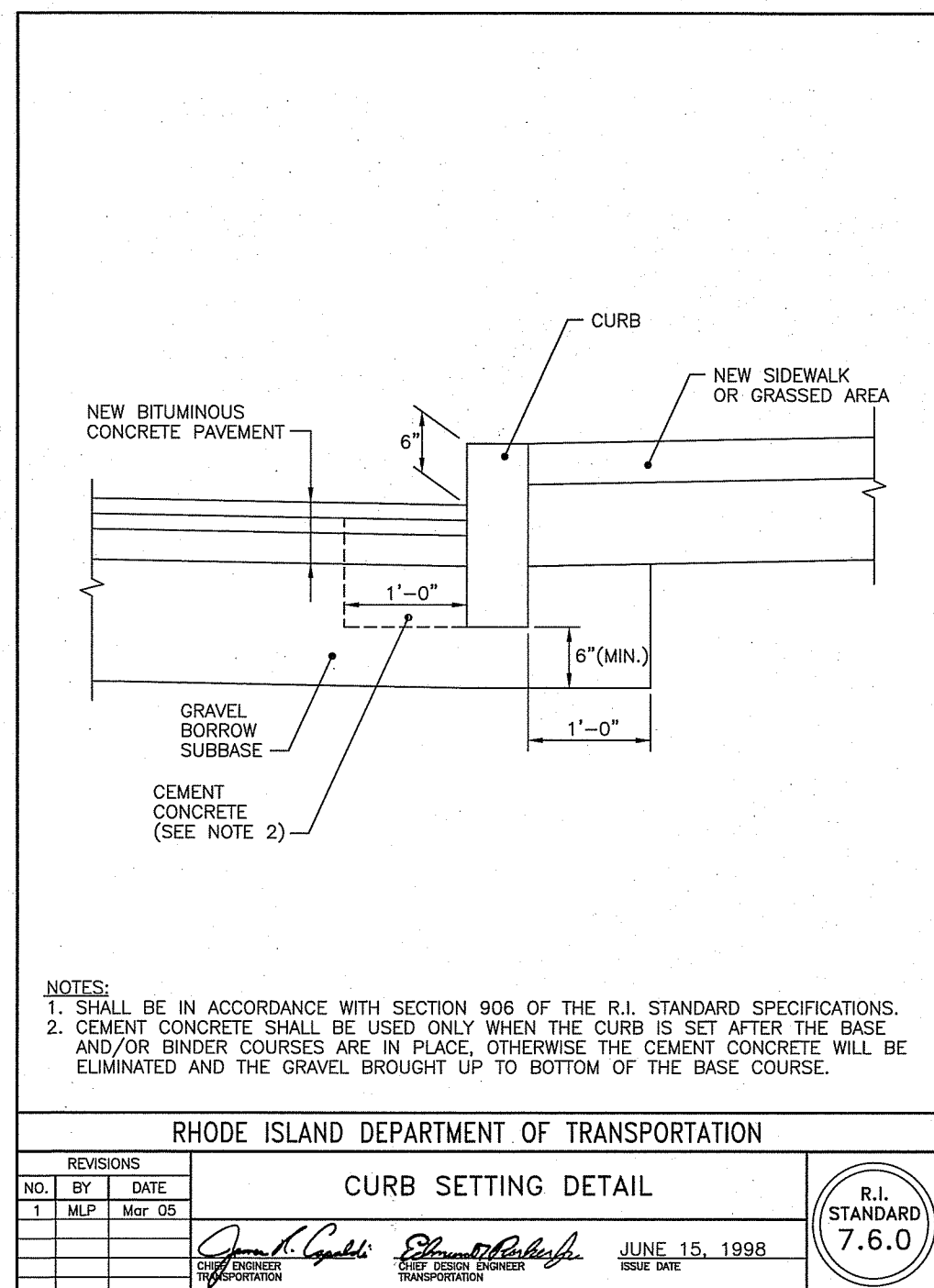
RI Environmental Management
MAR 15 2024
Office of Water Resources



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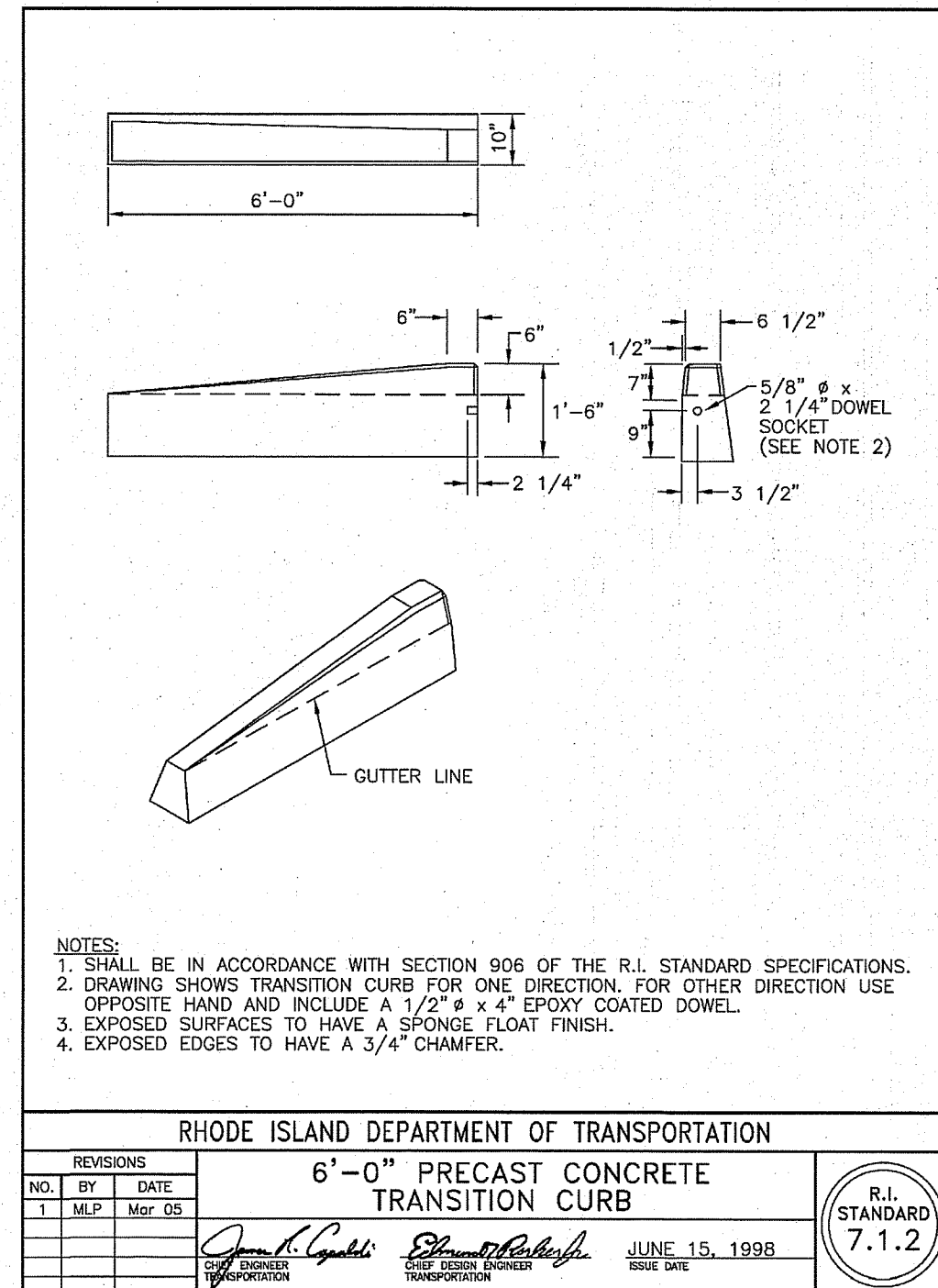
6 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842
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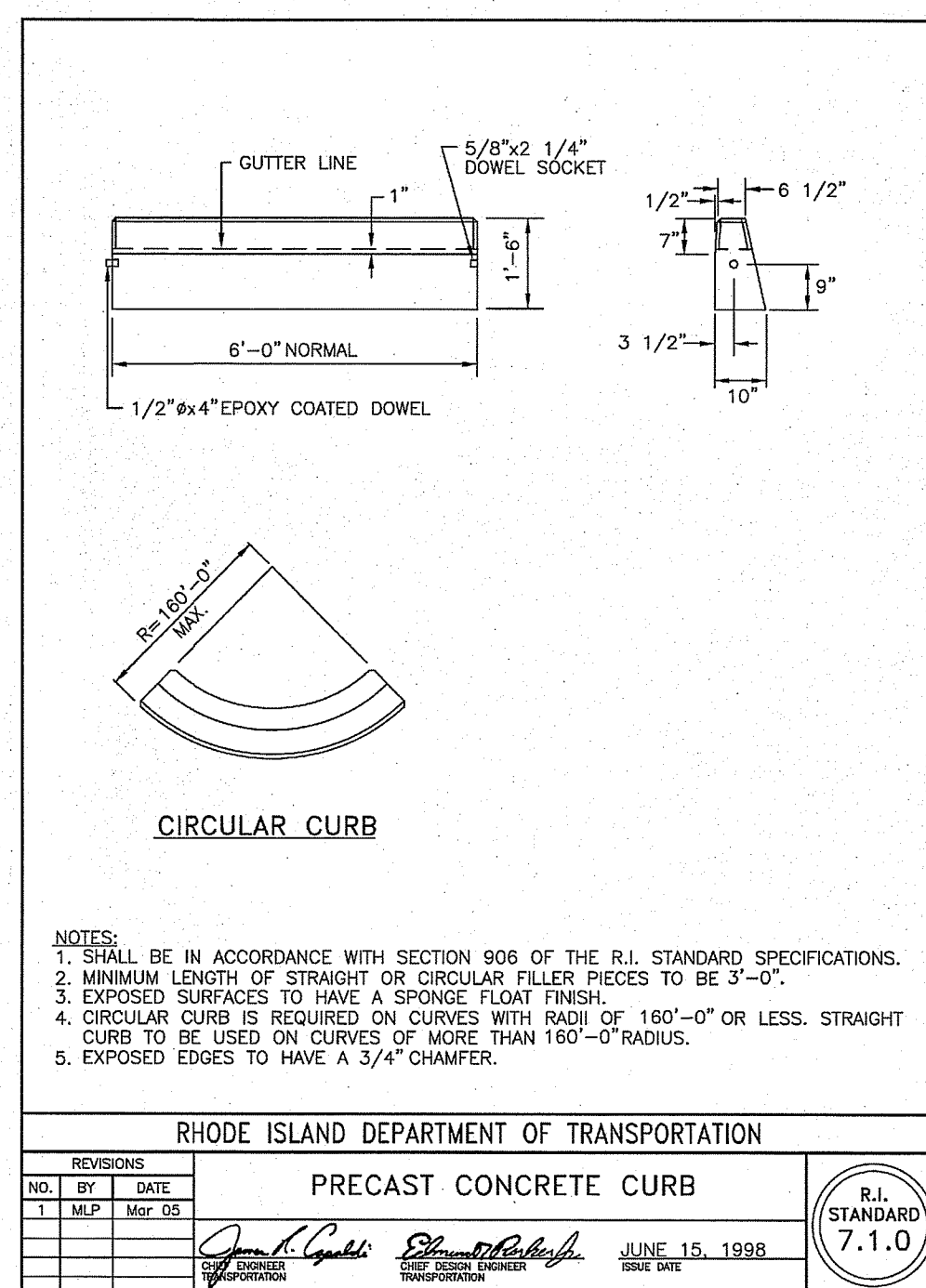
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS SET AFTER THE BASE AND/OR BINDER COURSES ARE IN PLACE. OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE BASE COURSE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
CURB SETTING DETAIL		
NO.	BY	DATE
1	M.P.	06/05



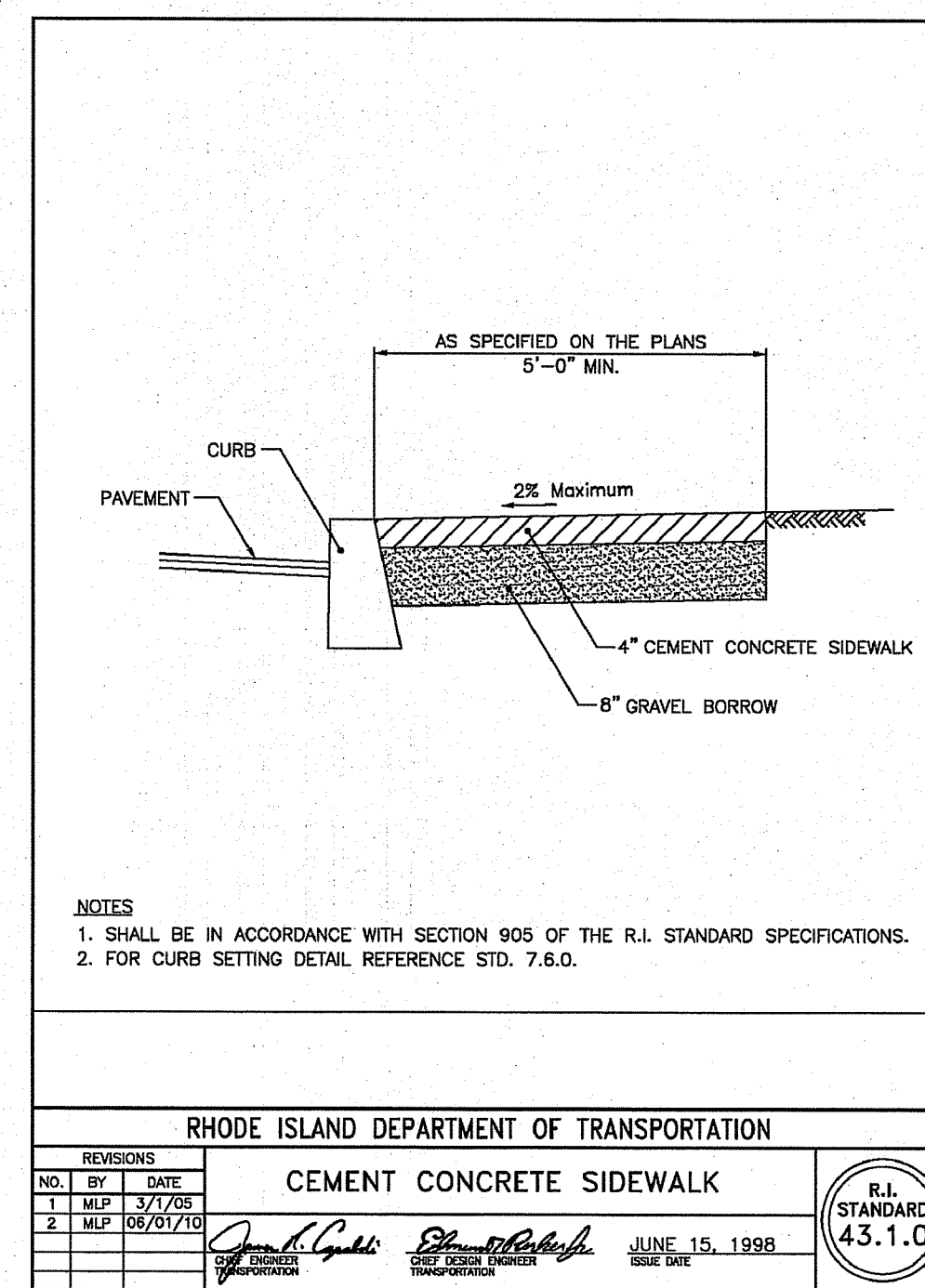
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" x 4" EPOXY COATED DOWEL.
3. EXPOSED SURFACES TO HAVE A SPONGE-FLOAT FINISH.
4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
6'-0" PRECAST CONCRETE TRANSITION CURB		
NO.	BY	DATE
1	M.P.	06/05



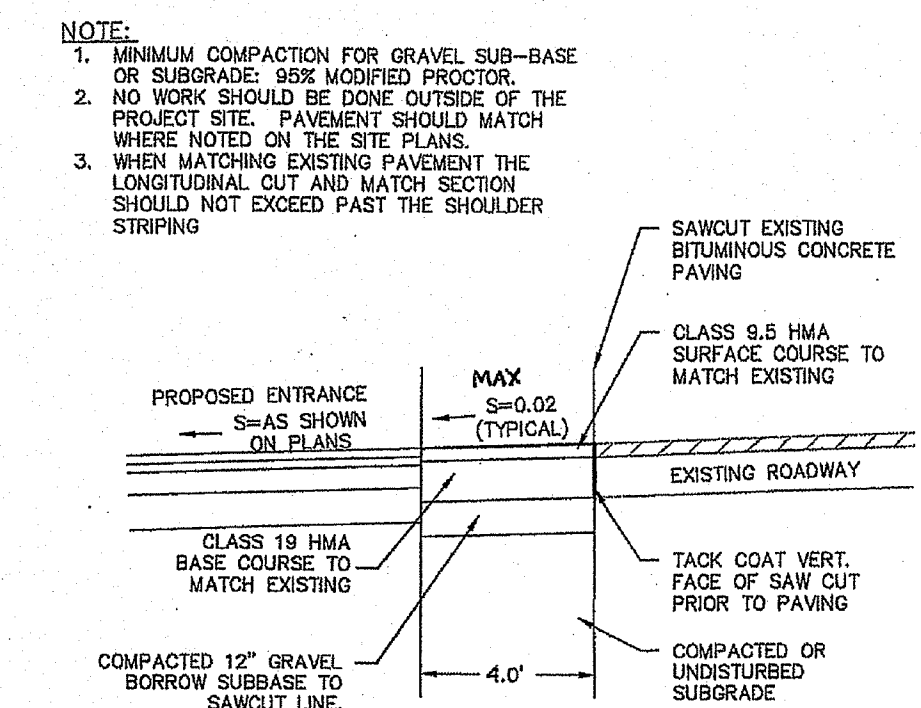
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
3. EXPOSED SURFACES TO HAVE A SPONGE-FLOAT FINISH.
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADIUS OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
PRECAST CONCRETE CURB		
NO.	BY	DATE
1	M.P.	06/05

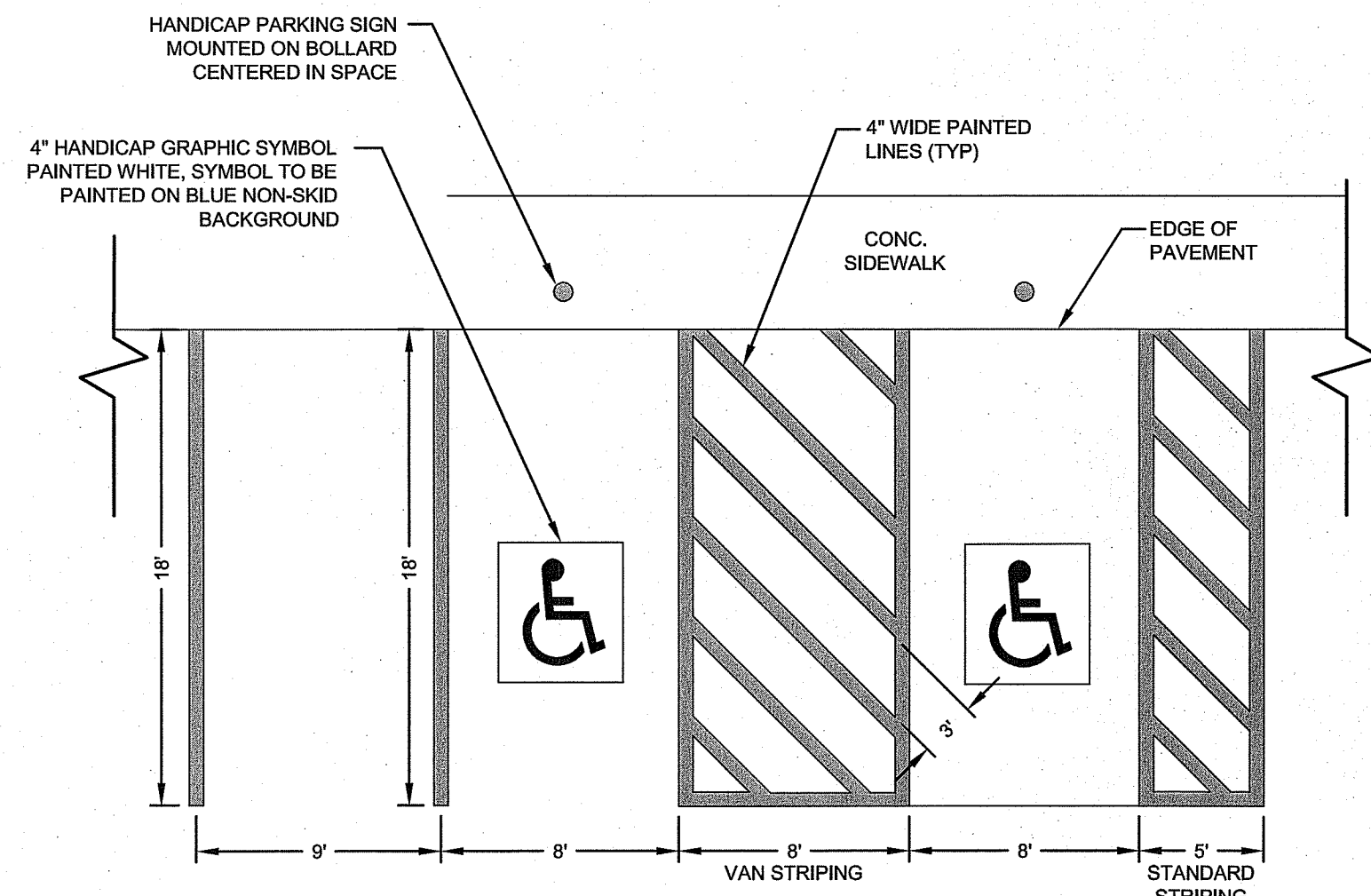


NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

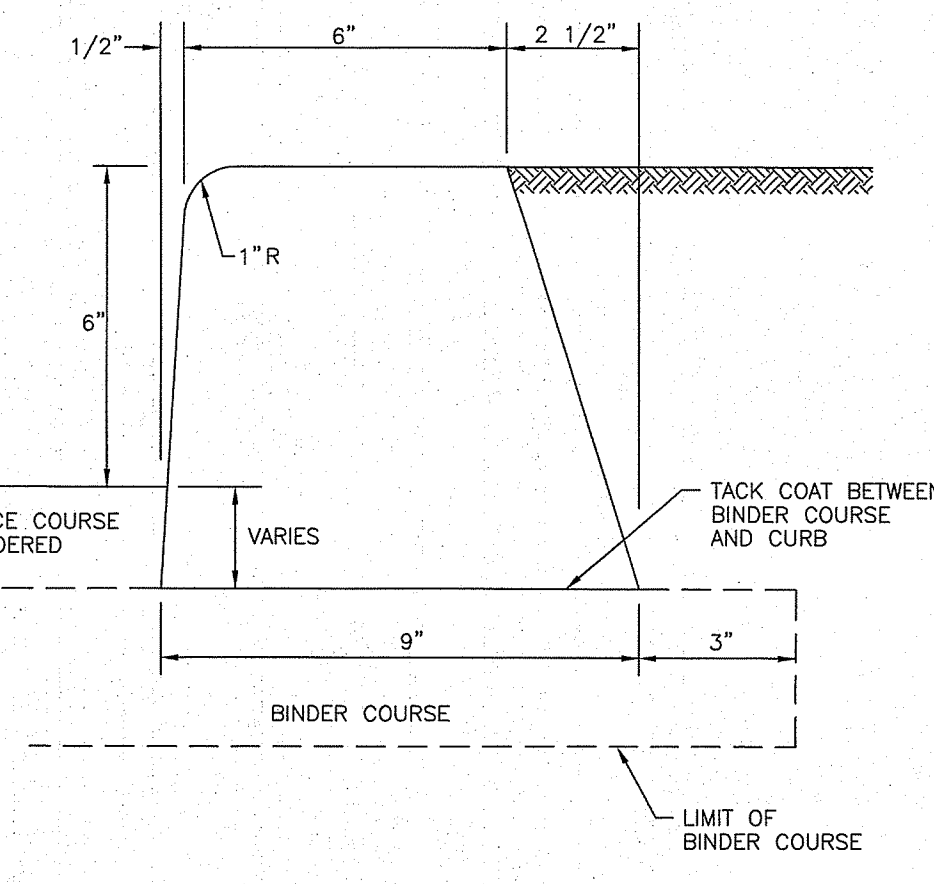
RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
CEMENT CONCRETE SIDEWALK		
NO.	BY	DATE
1	M.P.	06/05
2	M.P.	06/07/10



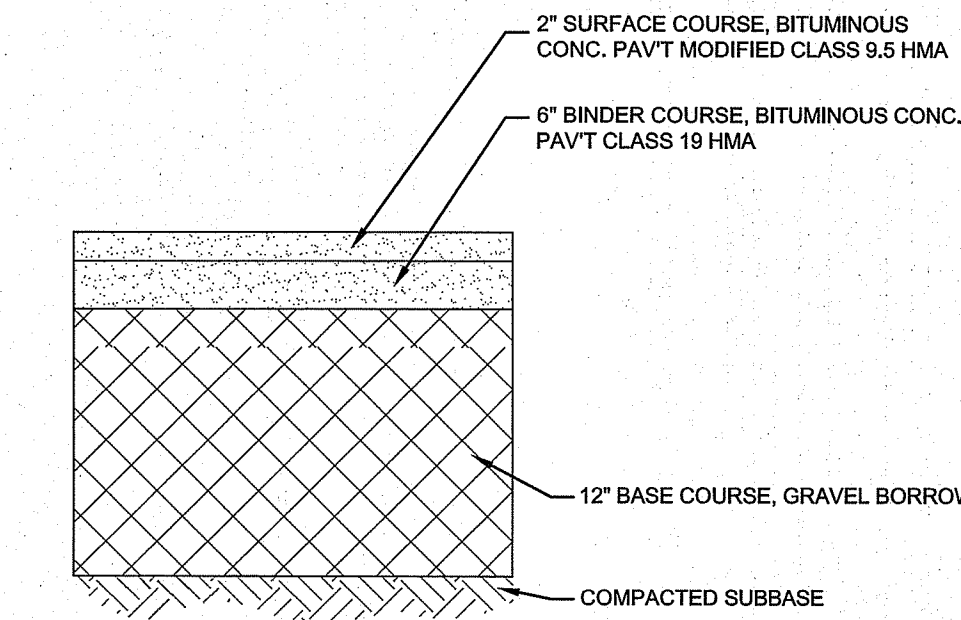
RIGHT OF WAY SAWCUT & MATCH DETAIL
SCALE: NOT TO SCALE



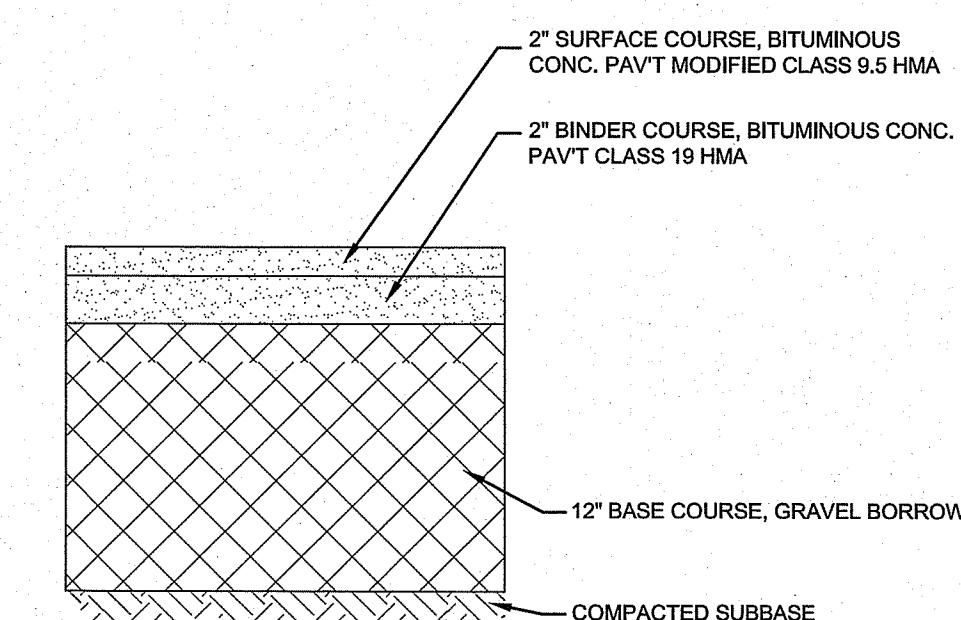
PARKING STALL STRIPING
SCALE: NOT TO SCALE



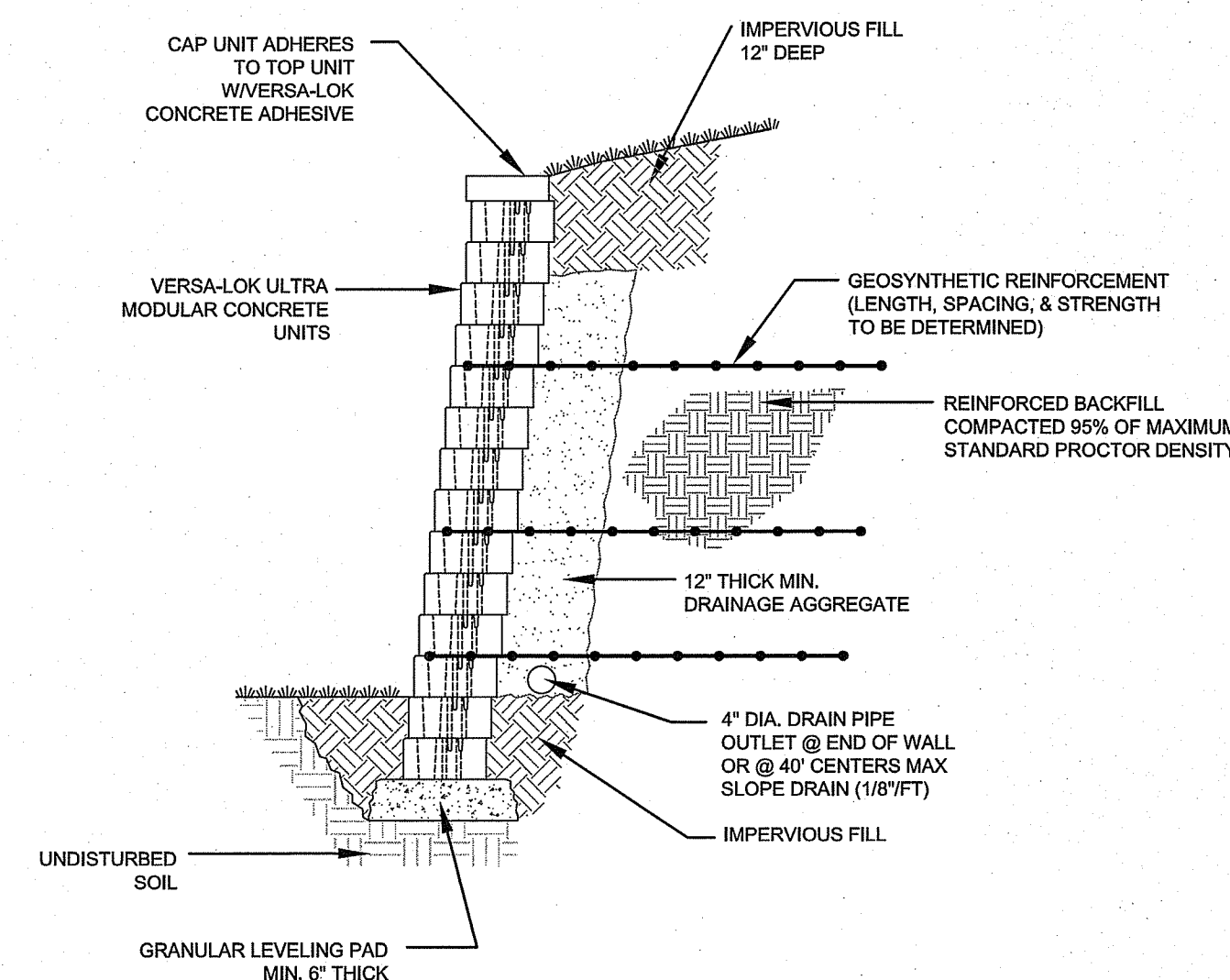
BITUMINOUS CONCRETE CURB
SCALE: NOT TO SCALE
NOT APPLICABLE TO WORK WITHIN RIDOT RIGHT OF WAY



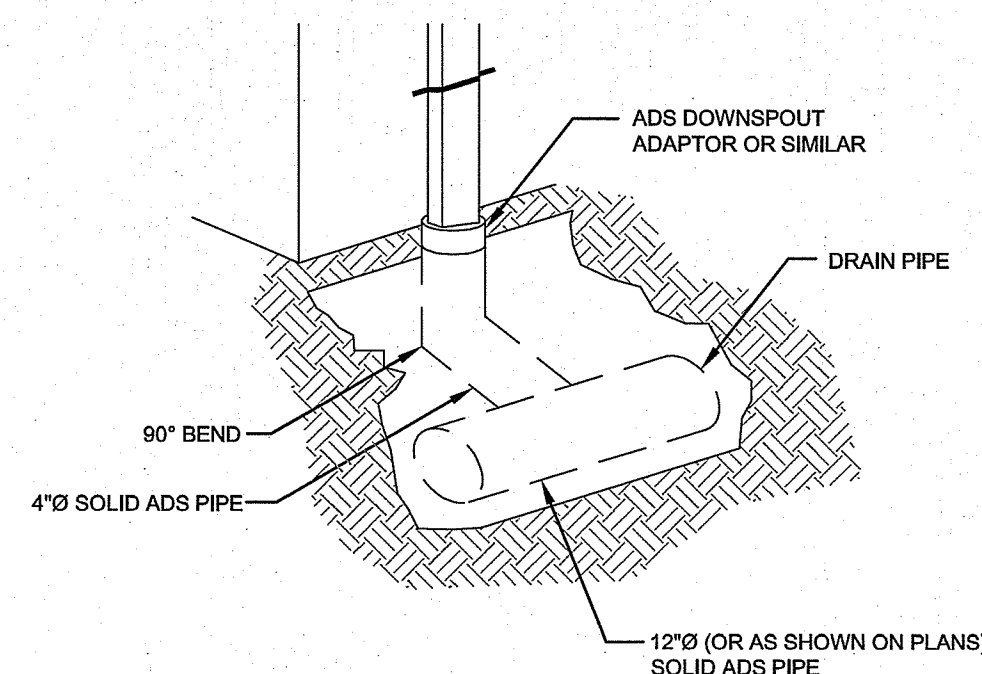
BITUMINOUS PAVEMENT SECTION (RIDOT)
SCALE: NOT TO SCALE



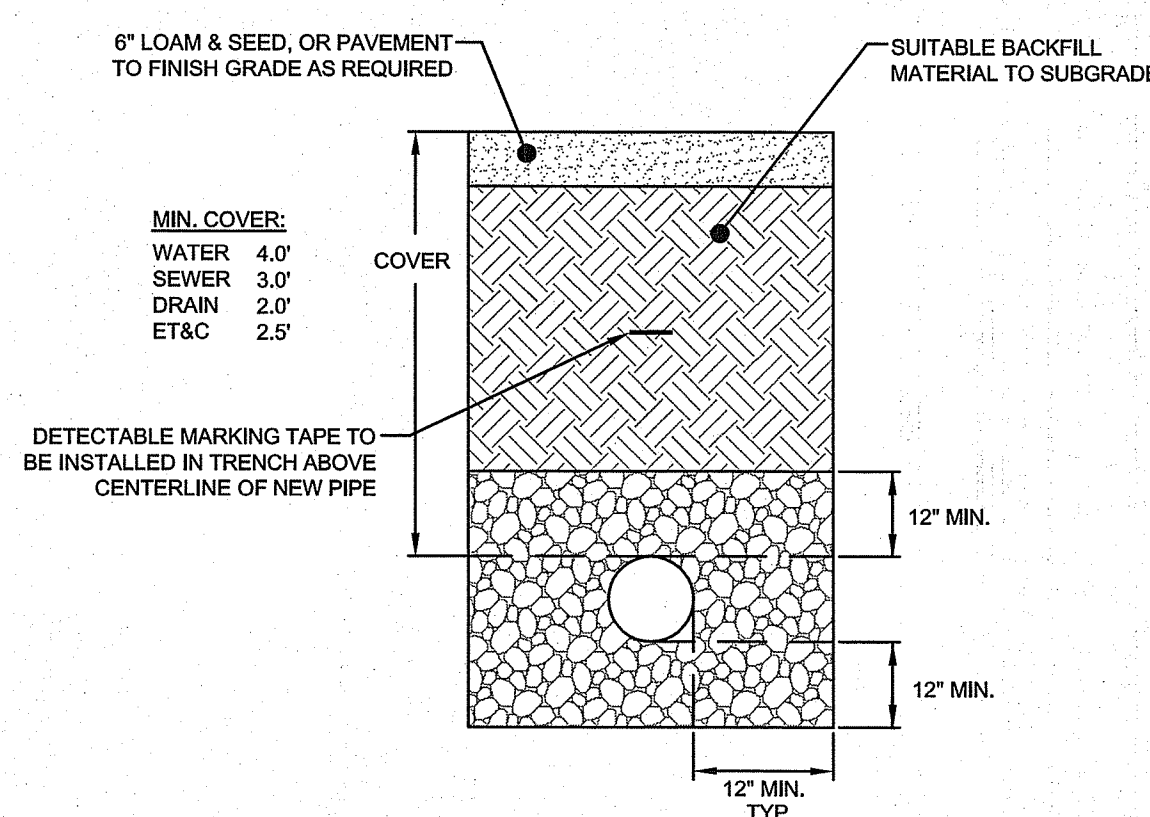
BITUMINOUS PAVEMENT SECTION (ON-SITE)
SCALE: NOT TO SCALE



TYPICAL SECTION FOR VERSA LOK RETAINING WALL
HORIZONTAL SCALE: NOT TO SCALE
WALL SUBJECT TO FURTHER DESIGN



BUILDING ROOF DOWNSPOUT CONNECTION DETAIL
ARCHITECT MAY SPECIFY ALTERNATE
SCALE: NOT TO SCALE



UTILITY TRENCH DETAIL
SCALE: NOT TO SCALE

- NOTES:
- UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
 - TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
 - SEWER AND DRAIN PIPES SHALL BE LAID BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE.
 - ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE SDR 35, OR SIMILAR APPROVED.
 - ALL DRAIN PIPES SHALL BE ADS N-12 TYPE IB (SOILTIGHT) UNLESS OTHERWISE INDICATED.
 - ALL SEWER PIPE AND GASKETS SHALL CONFORM TO ASTM 3034 AND ASTM F679.
 - BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN HEIGHT WHEN INSTALLED UNDER LANDSCAPED AREAS ONLY. INSTALLATIONS UNDER PAVEMENT REQUIRE BACKFILL MATERIAL TO BE PLACED IN LAYERS NOT TO EXCEED 6" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (AASHTO 1180). SUITABLE BACKFILL SHALL BE FREE OF LOAM, CLAY, ORGANIC MATTER AND PARTICLES LARGER THAN 2 INCHES IN DIAMETER.
 - SEWER AND DRAINAGE PIPE TRENCHES SHALL BE BEDDED WITH CRUSHED STONE OR SCREENED GRAVEL. THESE MATERIALS MUST CONFORM TO RIDOT STANDARD M.01.09 TYPE II MATERIAL.
 - WATER PIPE TRENCHES MUST BE BEDDED WITH SAND CONTAINING NO PARTICLES LARGER THAN 3/8". THIS MATERIAL MUST CONFORM TO AASHTO M.01.09 TYPE II MATERIAL.
 - UTILITY INSTALLATIONS SHALL CONFORM TO ALL REQUIREMENTS OF THE TOWN OF SMITHFIELD PUBLIC WORKS DEPARTMENT AND SMITHFIELD WATER SUPPLY BOARD RULES AND REGULATIONS.
 - WHEN TRENCH EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT AND FOR PROPERLY UNDERPINNING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDERPINNING TO FULLY PROTECT THEM FROM DAMAGE.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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RI Environmental Management
MAR 15 2024
Office of Water Resources

No.	Revision	Date	App.
1	SITE REVISIONS AND RIDEM COMMENTS	08MAR24	

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 ASSESSOR'S PLAT 48 LOT 43
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