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5	JOB SPECIFIC PLAN SYMBOLS & LEGEND
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**SECTION 1**

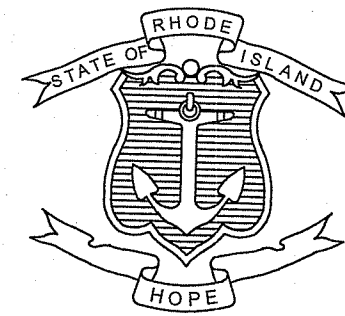
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STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION  
 PLAN, PROFILE AND SECTIONS OF PROPOSED  
 STATE HIGHWAY  
 PAVEMENT IMPROVEMENTS – EAST MAIN RD

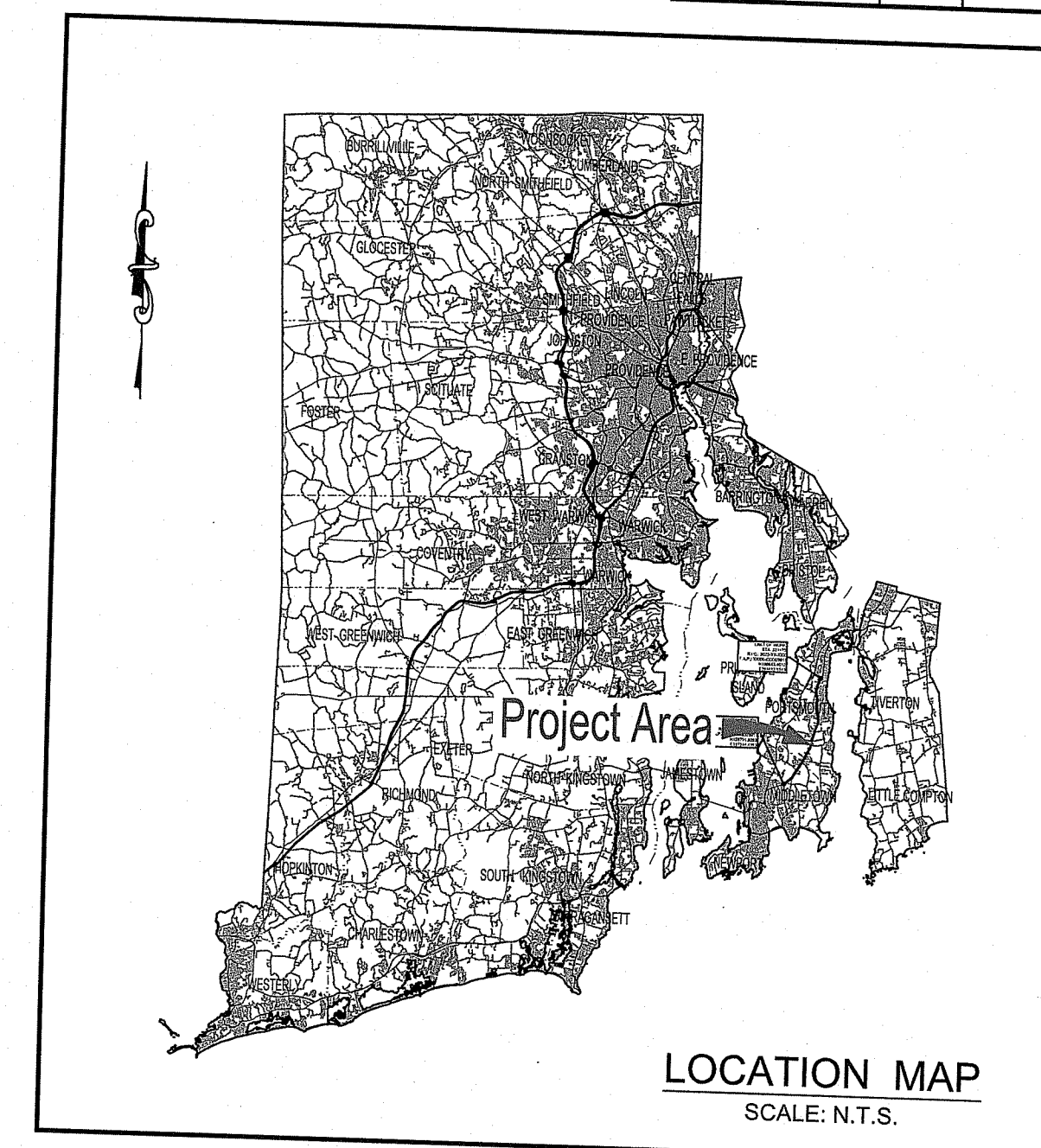
PROJECT LIMITS

MIDDLETOWN & PORTSMOUTH, RHODE ISLAND  
 COUNTY OF NEWPORT

R.I. CONTRACT NO. 2023-XX-XXX F.A. PROJECT NO. XXXX-XXXX(001)

6.06 MILES

RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2023-XX-XXX	2023	1	24



DESIGN	DESIGNATION
AADT (2023)	20,150 V.P.D.
AADT	24,600 V.P.D.
D	53% / 47%
K	8.8%
T	9.3%
DDHV	2,200 V.P.P.H.
DESIGN SPEED	35 M.P.H.

HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:

- East Main Road (Rte. 138)

PROPOSED PAVEMENT STRUCTURE

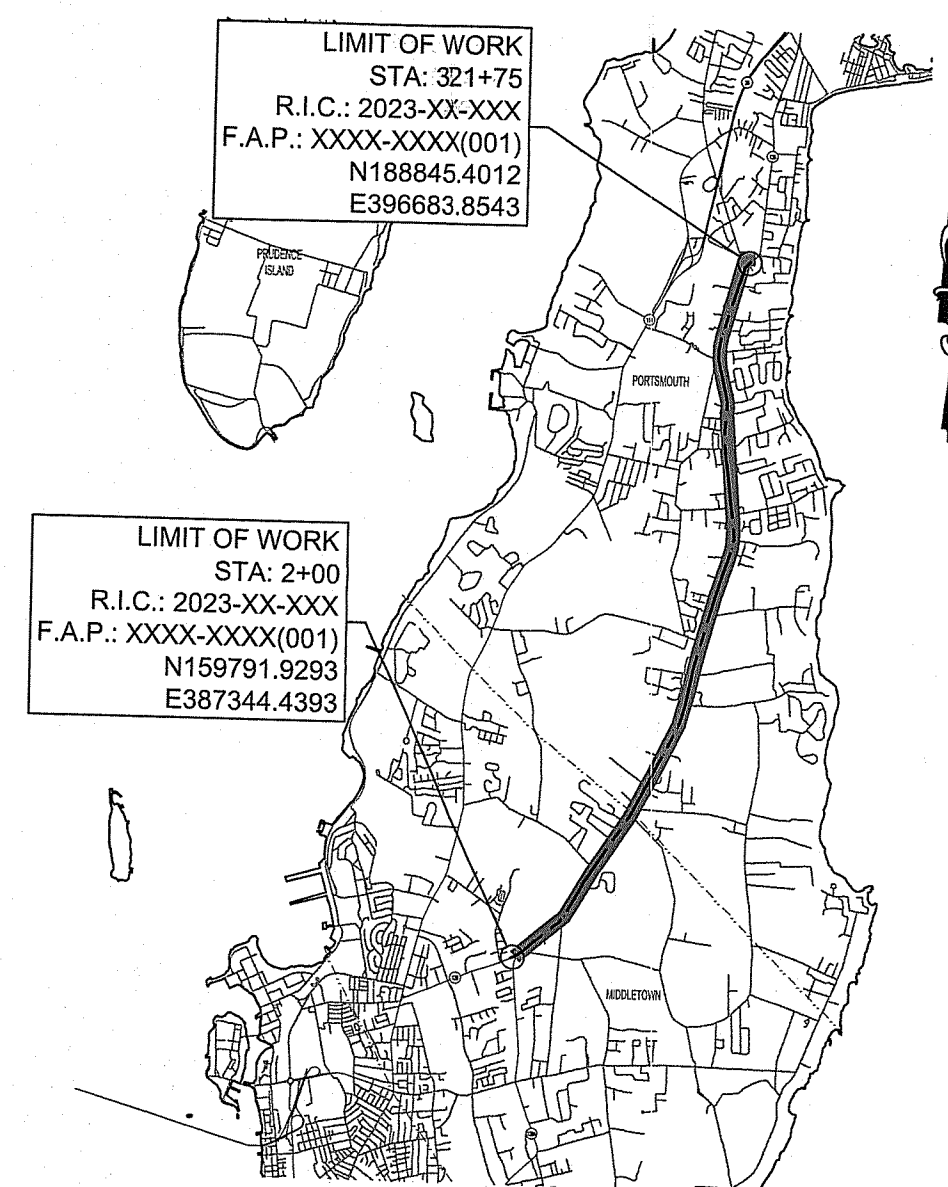
FULL DEPTH PAVEMENT CONSTRUCTION:  
 REMOVE & DISPOSE BITUMINOUS PAVEMENT & CONCRETE BASE  
 2.5" MODIFIED CLASS 12.5 HMA OVER  
 6.5" CLASS 19.0 HMA (PLACED IN TWO LIFTS)  
 ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS

MILL & OVERLAY:  
 MICROMILL 2.5" OF EXISTING PAVEMENT  
 OVERLAY 2.5" MODIFIED CLASS 12.5 HMA  
 ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AUGUST 2023, WITH ALL REVISIONS AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.



LAYOUT PLAN  
 SCALE: 1" = 8,000'

SCALES OF DRAWINGS

Plans	1 inch = 20 feet
Profiles	1 inch = 20 feet Horizontal
Profiles	1 inch = 4 feet Vertical
Cross Sections	1 inch = 4 feet Horizontal
Cross Sections	1 inch = 4 feet Vertical

BASE OF LEVELS

VERTICAL DATUM USED: NAVD-88

HORIZONTAL DATUM: RHODE ISLAND STATE PLANE, NAD-83 (2011) (2002.00)

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

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: DEC 04 2023 FILE # 03-0133  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

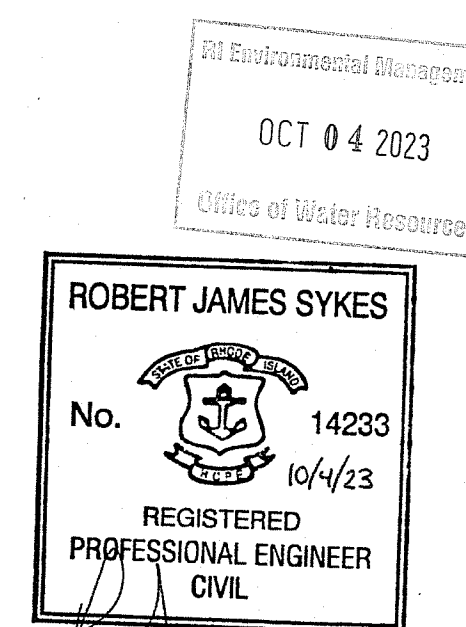
*Andy Chapman*

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

RIDEM PERMIT SUBMISSION  
 OCTOBER 2023



R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
ADMINISTRATOR, PROJECT MANAGEMENT	DATE
APPROVED	
CHIEF ENGINEER OF INFRASTRUCTURE	DATE
APPROVED	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

Contract Number 2023-XX-XXX

Number of Sheet 1

Total Sheets 24





FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XXXX-XXXX(001)	2023	3	24

**GENERAL NOTES:**

- ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, DRAINAGE STRUCTURES, DRAINAGE PIPES, INFILTRATION AREAS, ROADSIDE, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.05 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION. EQUIPMENT AND MATERIAL SHALL NOT BE STORED IN AREAS DESIGNATED FOR STORMWATER INFILTRATION OR OUTSIDE THE L.O.D. WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT DISTURBED OR OBLITERATED BEFORE SURVEY GROUND CONTROL POINTS ARE LOCATED, VERIFIED, AND DEEMED ADEQUATE FOR CONSTRUCTION LAYOUT. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING THE CONTRACTOR TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION ACTIVITIES UNTIL ADEQUATE SURVEY GROUND CONTROL POINTS HAVE BEEN ESTABLISHED, TIED DOWN, AND VERIFIED IN WRITING BY THE CONTRACTOR'S PROFESSIONAL LAND SURVEYOR.
- ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
- THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF SECTION 907.
- ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 7 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE INCIDENTAL TO THE APPLICABLE PAVEMENT ITEMS.
- THE LIMITS OF CLEARING AND SURFACE DISTURBANCE SHALL BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT ITS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
- CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. CLEANING WITH COMPRESSED AIR SHALL ONLY BE ALLOWED WITH THE APPROVAL OF THE ENGINEER.
- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS AND SHOP DRAWINGS OR AS MODIFIED BY THE ENGINEER.
- THE COORDINATE SYSTEM, IF SHOWN, IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM.
- PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAVER FOR CONTROLLING GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO MAINTAIN THE SAFE TRAVEL OF THE PUBLIC AT NO ADDITIONAL COST TO THE STATE.
- NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO NEW AND EXISTING DRAINAGE STRUCTURES HAS BEEN PROPERLY ESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; ANY CORRECTIVE ACTION SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.
- ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- IF THIS PROJECT IS ON A HURRICANE EVACUATION AND DIVERSIONARY ROUTE, AS DESIGNATED ON THE COVERSHEET, THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL. ANY EXTRA WORK NECESSARY TO COMPLY WITH THIS REQUIREMENT WILL BE REIMBURSED UNDER FORCE ACCOUNT PROCEDURES.
- THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS STATED IN THE ENVIRONMENTAL APPROVALS ISSUED FOR THE PROJECT FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM), AND/OR THE ARMY CORPS OF ENGINEERS (ACOE), AND/OR THE COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC), COPIES OF EACH OF THESE PERMITS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THESE CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).

**GENERAL NOTES (CONTINUED):**

- FOR ALL PROJECTS INVOLVING KNOWN SITE REMEDIATION ISSUES, THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE CONSTRUCTION RELATED PROVISIONS, CONDITIONS, AND STIPULATIONS OF ANY REMEDIAL ACTION WORK AND/OR SOIL MANAGEMENT PLANS DEVELOPED FOR THE PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THESE DOCUMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNPROTECTED CONSTRUCTED FEATURE MAY PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. HEADWALL, DRAINAGE INLET, ETC.
- THE REMAINING SECTION OR STUB OF A BREAKAWAY BASE MAY NOT PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. SIGN POSTS, LIGHT POLES, FIRE HYDRANTS, ETC.

**DRAINAGE AND EROSION CONTROL NOTES:**

- THE CONTRACTOR IS REQUIRED TO ADHERE WITH THE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE-SPECIFIC SWPPP FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AS SITE CONDITIONS WARRANT. A COPY OF THE SWPPP MUST BE ON-SITE AT ALL TIMES. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS.
- NO UNDISTURBED AREAS SHALL BE GRUBBED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE REESTABLISHED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
- STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODIBLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES TO STABILIZE. STOCKPILES OF CONTAMINATED MATERIALS MUST BE PLACED ON TOP OF A POLY-ETHYLENE SHEET AND COVERED AT ALL TIMES UNLESS IT IS AN ACTIVE WORKING PILE.
- IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. ENVIRONMENTAL DIVISION.
- SURFACE EROSION CONTROL MATTING SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
- SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
  - SEEDING TYPE I.
  - ADHESIVE MULCH STABILIZER
- UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- PRIOR TO CONSTRUCTION OPERATIONS, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL CATCH BASINS AND FLUSHING THE PIPES, AND THEN VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION.
- ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EFFICACY OF THE DRAINAGE SYSTEM. ONCE CONSTRUCTION IS COMPLETED THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL CATCH BASINS AND FLUSHING ALL PIPES OF ANY CONSTRUCTION RELATED DEBRIS AT NO ADDITIONAL COST.
- CATCH BASIN RIM GRADES FOR STRUCTURES NOT IN A TRAVEL LANE NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
- PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL STRICTLY ADHERE TO THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. SEDIMENT AND EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
- R.I. STD. 9.8.0 BALED STRAW INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
- WHERE BALED STRAW INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.

**DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):**

- DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENT HAVE BEEN REMOVED AND INFILTRATION IS REESTABLISHED. FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED TO COMPLY WITH THE PLANS, SPECIFICATIONS, AND PERMITS. ANY ISSUES RELATING TO EROSION AND/OR SEDIMENT TRANSPORT INTO WETLAND AREAS RESULTING FROM SUCH USE OF SEDIMENTATION BASINS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CORRECTIVE ACTION AND COSTS REQUIRED TO RESOLVE SUCH ISSUES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST 1' INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR, OR ANY AGENT OF THE CONTRACTOR, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS ACCOMPLISHED.
- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THOSE AREAS INDICATED ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS.
- ALL COMPOST FILTER SOCK, STRAW BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. TEMPORARY SEED WILL CONFORM TO R.I.D.O.T. STANDARD TEMPORARY SEED MIX.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE STATE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEMS. ADDITIONAL SEDIMENT AND EROSION CONTROLS, SHALL BE INSTALLED IN ACCORDANCE WITH THE SWPPP REPORT. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.
- ANY OBSERVATIONS OF ILLICIT CONNECTIONS OR DISCHARGES TO RIDOT'S DRAINAGE NETWORK OR OUTFALLS SHALL BE REPORTED TO THE RIDOT STORMWATER UNIT IMMEDIATELY.

**UTILITY NOTES:**


- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009 AND, WHEN NECESSARY, BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
- ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
- EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.
- UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
- FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
- ALL NEW WATER LINES SHALL BE DISINFECTED TO THE SATISFACTION OF THE WATER AUTHORITY IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.
- THE CONTRACTOR SHALL PROVIDE 72-HOUR ADVANCE NOTICE TO THE RIDOT TMC (401-222-2378) FOR WORK AROUND RIDOT OWNED INFRASTRUCTURE (DRAINAGE, LIGHTING, ITS EQUIPMENT, TOLL GANTRIES, COUNTING STATIONS, ETC.). ANY DAMAGE TO THIS INFRASTRUCTURE MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT RIDOT IN ADVANCE, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.

RI Environmental Management  
OCT 04 2023  
Office of Water Resources


RI Environmental Management  
OCT 04 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: DEC 04 2023 FILE #: 23-0133  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Andy Cloutier*



**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
401-334-4100



**RHODE ISLAND**  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	KJS	SCALE:	NOT TO SCALE
CHECKED BY:	KMD		
DATE:	SEPT. 2023		
SHEET:	3		
OF:	123		
		REVISIONS	REVISIONS
		NO. DATE BY	NO. DATE BY
		1 4/07 TRB	4 12/22 JRP
		2 3/10 RBH	
		3 4/14 MLP	

**PAVEMENT IMPROVEMENTS - EAST MAIN RD**  
MIDDLETOWN & PORTSMOUTH  
RHODE ISLAND  
**STANDARD NOTES - 1**

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XXXX-XXXX(001)	2023	4	24

**LANDSCAPE NOTES:**

- ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY (A RECOGNIZED GROWER OF PLANT MATERIAL) IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION. ALL PLANT MATERIAL MUST BE NURSERY GROWN; NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
- ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATION MUST BE APPROVED IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
- COORDINATE WITH THE R.I.D.O.T. CONSTRUCTION MANAGER PRIOR TO ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS.
- ANY TOPSOIL USED AS PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM TO SECTION M.18 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND SHRUBS SHALL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND/OR SHRUBS THAT ARE PLANTED AS A BED SHALL BE MULCHED AS A BED.
- PROVIDE A MINIMUM 6'-8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS AND/OR PEDESTRIAN ACCESS AREAS.
- THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT THERE ARE NO CONTAMINANTS THAT EXCEED THE R.I.D.E.M. PERMISSIBLE LEVELS IN THE SOILS USED AS LOAM OR PLANTABLE SOIL.

**STRUCTURAL NOTES FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS:**

**GENERAL**

- ALL SUPPORT DESIGNS AND ASSOCIATED SHOP DRAWING REVIEWS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION AND REVISIONS, OF THE AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.

**CONSTRUCTION DRAWINGS AND DETAILS**

- THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS AND/OR SHOP DRAWINGS IN REFERENCE TO ANCHOR BOLTS:
  - "PRETENSIONING OF ALL ANCHOR NUTS IS REQUIRED, AND SHALL BE ACCOMPLISHED BY TIGHTENING TO 1/6TH TURN BEYOND THE SNUG-TIGHT POSITION."
  - "THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM OF THE LEVELING NUTS AND THE TOP OF THE CONCRETE IS CRITICAL AND SHALL NOT EXCEED THE AMOUNT SPECIFIED ON THIS DRAWING."
- THE USE OF GROUT UNDER BASE PLATES SHALL GENERALLY NOT BE PERMITTED. IF SPECIFIC CONDITIONS WARRANT ITS USE, THE GROUT SHALL NOT BE CONSIDERED LOAD CARRYING; LOADS SHALL BE DIRECTLY SUPPORTED BY THE ANCHOR BOLTS. ADEQUATE DRAINAGE SHALL BE PROVIDED.
- THE DAMPENING EFFECTS OF VIBRATION MITIGATION DEVICES SHALL NOT BE CONSIDERED IN THE DESIGN OF STRUCTURAL SUPPORTS FOR SIGNS AND TRAFFIC SIGNALS. IF THE CONTRACTOR CHOOSES TO USE THESE DEVICES FOR WARRANTY PURPOSES, THE TYPE OF DEVICES PROPOSED SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO FABRICATION OF SUPPORTS.

**TRAFFIC SIGNAL NOTES:**

- ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE R.I.D.O.T. MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RHODE ISLAND, 02888. THE COST FOR DELIVERY IS CONSIDERED INCIDENTAL TO THE WORK.
- BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE LOOP DETECTORS. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER CABINET LOCATION. THE ASSIGNMENT INFORMATION SHALL BE INCLUDED IN A TABLE WHICH SHALL INCLUDE, AT A MINIMUM, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
- TRAFFIC CONTROLLER CABINETS, UNLESS OTHERWISE NOTED, SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 (P" TYPE) WITH NOMINAL DIMENSIONS OF 52"Hx44"Wx24"D.
- ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED LOOP DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER AND NOT THE DETECTOR RELAY.
- INSULATED GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE FINAL POSITION OF SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, DETECTORS, AND STOP LINE AND CROSSWALK PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD ACCORDING TO ACTUAL INTERSECTION CHARACTERISTICS.
- A 2' MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIAN SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
- ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
- WHEN PLACING TRAFFIC SIGNAL HANDHOLES OR CONDUIT IN EXISTING PORTLAND CEMENT CONCRETE SIDEWALKS, THE ENTIRE SIDEWALK SQUARE OF CONCRETE SHALL BE REPLACED IN ACCORDANCE WITH R.I. STD. 43.1.0. NO PATCHES WILL BE ALLOWED.
- ALL PEDESTRIAN PUSHBUTTONS SHALL BE COMPLIANT WITH "THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" (ADAAG) AND SHALL INCLUDE A PRESSURE-ACTIVATED (NON-MOVING) BUTTON. SIGNS APPLICABLE TO PUSHBUTTON ACTUATION SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED. IF SITE CONDITIONS DO NOT ALLOW PEDESTRIAN PUSHBUTTONS TO BE INSTALLED WHERE CALLED FOR ON THE PLANS, THE R.I.D.O.T. TRAFFIC ENGINEERING UNIT SHALL BE CONSULTED WITH THROUGH AN R.F.I. PRIOR TO INSTALLING THE PUSHBUTTONS. THE FINAL PLACEMENT OF ALL PEDESTRIAN PUSHBUTTONS SHALL BE IN ACCORDANCE WITH ADAAG AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
- ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
- TRAFFIC SIGNAL CONTROLLERS AND CABINETS SHALL BE PROGRAMMED AND WIRED SO THAT ANY FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
- THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE TRAFFIC SIGNAL OPERATION TO ITS INTENDED PURPOSE WHEN REPLACING THE TRAFFIC SIGNAL EQUIPMENT. A POLICE DETAIL IS REQUIRED TO DIRECT TRAFFIC AT THE INTERSECTION AT ALL TIMES WHEN THE TRAFFIC SIGNAL IS INOPERATIVE. AT NO TIME SHALL THE CONTRACTOR LEAVE THE SITE BEFORE RESTORING FULL TRAFFIC OPERATIONS.



**MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:**

- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
- ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
- POLICE OFFICERS AND FLAGPERSONS SHALL BE UTILIZED AS OUTLINED IN SECTIONS 913 & 914 OF THE RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
- ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE RIGHT-OF-WAY ONLY IN AREAS BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
- THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. APPROVED PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT. FAILURE TO COMPLY WILL RESULT IN AN ASSESSMENT OF A CHARGE AS OUTLINED IN SECTION 937 OF THE RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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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  
DATED: DEC 04 2023 FILE #: 23-0133  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Andy Clough*

 <p><b>PARE CORPORATION</b> ENGINEERS - SCIENTISTS - PLANNERS 8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100</p>	 <p><b>RHODE ISLAND</b> DEPARTMENT OF TRANSPORTATION</p>	DESIGNED BY: KJS CHECKED BY: KMD DATE: SEPT. 2023 SHEET: 4 OF: 123	SCALE: NOT TO SCALE REVISIONS <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td>1</td> <td>4/07</td> <td>TRB</td> <td>4</td> <td>12/22</td> <td>JRP</td> </tr> <tr> <td>2</td> <td>11/07</td> <td>TRB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>3/10</td> <td>RBH</td> <td></td> <td></td> <td></td> </tr> </table>	NO.	DATE	BY	NO.	DATE	BY	1	4/07	TRB	4	12/22	JRP	2	11/07	TRB				3	3/10	RBH				PAVEMENT IMPROVEMENTS – EAST MAIN RD MIDDLETOWN & PORTSMOUTH RHODE ISLAND STANDARD NOTES - 2
		NO.	DATE	BY	NO.	DATE	BY																					
1	4/07	TRB	4	12/22	JRP																							
2	11/07	TRB																										
3	3/10	RBH																										

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**JOB SPECIFIC LEGEND:**

- AH** ADJUST HYDRANT TO GRADE
- BCD** HMA DRIVEWAY  
3" MODIFIED CLASS 12.5 HMA  
8" GRAVEL BORROW SUBBASE COURSE
- BCD-1X** BITUMINOUS CONCRETE DRIVEWAY - TYPE 1 (SEE DETAILS)
- BCD-2X** BITUMINOUS CONCRETE DRIVEWAY - TYPE 2 (SEE DETAILS)
- BTC** HMA BERM TRANSITION TO CURB (SEE "DETAILS")
- CFS** COMPOST FILTER SOCK (SEE "DETAILS")
- CCP** CUT AND CAP EXISTING WATER
- CEW** CONNECT TO EXISTING WATER WITH TRANSITION COUPLING
- CM** CUT AND MATCH
- DWB** REMOVE AND DISPOSE WATER GATE VALVE BOX
- ETR** EXISTING TO REMAIN
- FDS** FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT
- GD-1** GUARDRAIL END DELINEATOR-RED
- GD-2** GUARDRAIL END DELINEATOR-GREEN
- GL** GUTTER LINE
- ISCD** INLET SEDIMENT CONTROL DEVICE (SEE "DETAILS")
- MEPM** MATCH EXISTING PAVEMENT MARKING
- MMO** MICROMILL AND OVERLAY  
MICROMILL 2.5" OF EXISTING PAVEMENT  
OVERLAY WITH 2.5" OF MODIFIED CLASS 12.5 HMA  
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS
- NUP** NUP - NEW UTILITY POLE (BY OTHERS)
- NGB** FURNISH AND INSTALL NEW GAS GATE VALVE BOX
- P** FULL DEPTH PAVEMENT RECONSTRUCTION  
REMOVE AND DISPOSE EXISTING PAVEMENT  
REMOVE AND DISPOSE EXISTING CONCRETE BASE (AS NEEDED)  
2.5" MODIFIED CLASS 12.5 HMA  
6.5" CLASS 19.0 HMA (PLACED IN TWO LIFTS)  
12" GRAVEL BORROW SUBBASE  
ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS
- P1** BITUMINOUS WALKWAY  
1.0" CLASS 4.75 HMA OVER  
3.0" CLASS 19.0 HMA OVER  
12" GRAVEL BORROW SUBBASE COURSE OVER COMMON BORROW AS REQUIRED  
PROVIDE ASPHALT EMULSION TACK COAT BETWEEN HMA LAYERS

**JOB SPECIFIC LEGEND:**

- PCR X-X** PEDESTRIAN CURB RAMP
- R&D** REMOVE AND DISPOSE
- R&S** REMOVE AND STOCKPILE
- RPMA** ROUNDABOUT PAVEMENT MARKING ARROW
- SCP** PORTLAND CEMENT CONCRETE TRUCK APRON  
8" PORTLAND CEMENT CONCRETE  
8" GRAVEL BORROW SUBBASE COURSE
- SRF** SPLIT RAIL FENCE (SEE "DETAILS")
- SRW** SEGMENTAL RETAINING WALL (SEE "DETAILS")
- TPIT** TEST PIT
- T6W** TEMPORARY 6" WHITE PAVEMENT MARKINGS
- T12W** TEMPORARY 12" WHITE PAVEMENT MARKINGS
- T4DY** TEMPORARY 4" DOUBLE YELLOW PAVEMENT MARKINGS

**R.I. STD. DETAILS:**

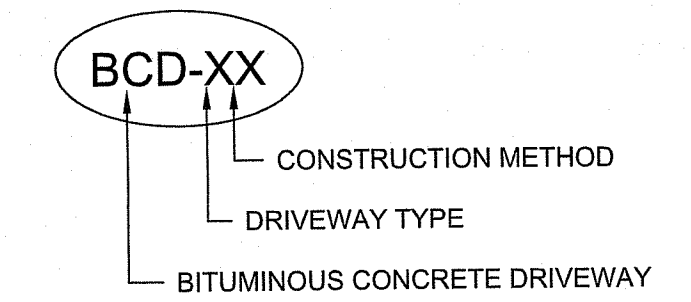
- 7.7.0** GRANITE TRUCK APRON STONE
- 19.4.0** ALUMINUM PEDESTAL
- 20.1.0** PAVEMENT MARKING "ARROW" AND "ONLY"
- 20.3.0** PAVEMENT MARKINGS - CROSSWALKS AND STOP LINES
- 20.4.0** PAVEMENT MARKINGS - YIELD LINE
- 26.1.0** FLUORESCENT TRAFFIC CONES
- 29.1.0** CONSTRUCTION SIGNS
- 34.1.0M** GUARDRAIL INSTALLATION - MODIFIED (31" HEIGHT)
- 34.2.0M** STEEL BEAM GUARDRAIL - MODIFIED (MASH)
- 34.3.0M** GUARDRAIL STEEL BEAM ANCHORAGE TRAILING END SECTION - MODIFIED (MASH)
- 43.1.0M** CEMENT CONCRETE SIDEWALK - MODIFIED
- 43.3.0M1** WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - TYPE 1 (SEE "DETAILS")
- 43.3.0M2** WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - TYPE 2 (SEE "DETAILS")
- 43.3.0M3** WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - TYPE 3 (SEE "DETAILS")
- 43.3.0M4** WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - TYPE 4 (SEE "DETAILS")
- 47.1.1** TRANSVERSE PAVEMENT CUT AND MATCH
- T20.1.0** TEMPORARY PAVEMENT MARKING "ARROW" AND "ONLY"

**JOB SPECIFIC PLAN SYMBOLS**

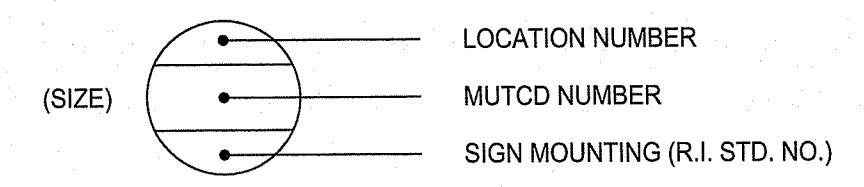
EXISTING		NEW
	DIRECTION OF TRAVEL	
	CHAIN LINK FENCE	
	STONE WALL	
	TREE	
	BOLLARD	
	SIGN	
	UTILITY POLE	
	GAS GATE	
	C.P. TEST (GAS)	
	WATER GATE	
	SEWER MANHOLE	
	DRAIN MANHOLE	
	CATCH BASIN	
	DROP INLET	
	CURB INLET	
	VERTICAL CURB	
	BITUMINOUS	
	CONCRETE	
	CONCRETE WALK	
	WETLAND EDGE	
	100' RIVERBANK WETLAND	
	50' PERIMETER WETLAND	
	OVERHEAD WIRES	
	RETAINING WALL	
	GUARDRAIL	
	COMPOST FILTER SOCK	
	RECTANGULAR RAPID FLASH BEACON	
	CHECK DAM	
	TEST PIT	
	TREE/SHRUB PROTECTION	
	GUTTER LINE	
	JOINT DETERIORATION	
	PCC DETERIORATION	
	VOIDING / MOISTURE	

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**TYPICAL DRIVEWAY DESIGNATION SYMBOL (SEE DETAILS)**



**TYPICAL SIGN DESIGNATION SYMBOL**



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FRESHWATER WETLANDS PROGRAM  
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DATED: DEC 04 2023 FILE #: 23-0133  
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OF: 123

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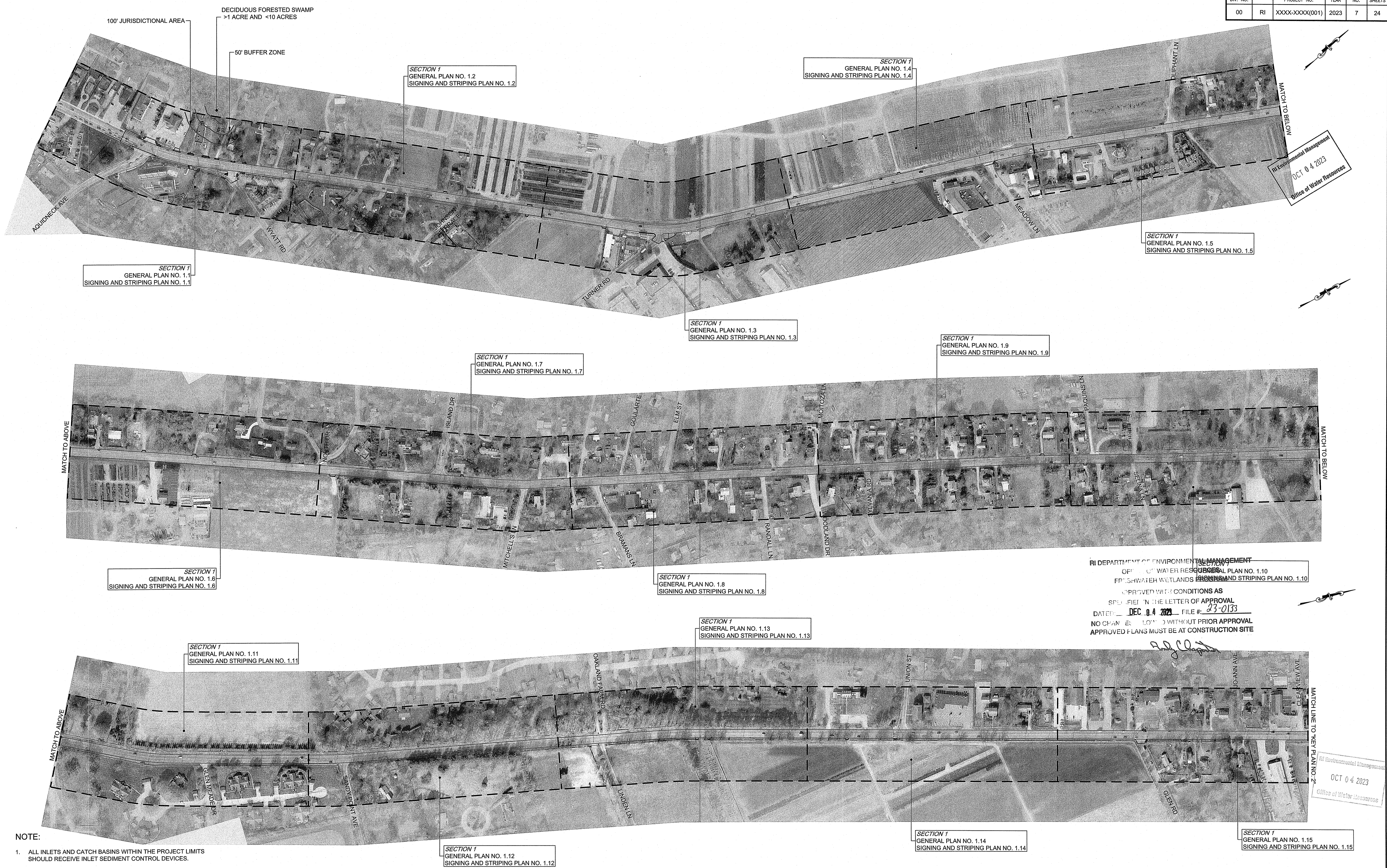
PAVEMENT IMPROVEMENTS EAST MAIN RD  
MIDDLETOWN & PORTSMOUTH  
RHODE ISLAND

**JOB SPECIFIC PLAN SYMBOLS & LEGEND**

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FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XXXX-XXXX(001)	2023	7	24



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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 GENERAL PLAN NO. 1.10  
 FRESHWATER WETLANDS SIGNING AND STRIPING PLAN NO. 1.10  
 APPROVED WITH CONDITIONS AS  
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*Andy C. [Signature]*

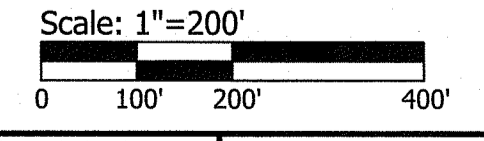
RI Department of Environmental Management  
 Office of Water Resources  
 OCT 04 2023

NOTE:  
 1. ALL INLETS AND CATCH BASINS WITHIN THE PROJECT LIMITS SHOULD RECEIVE INLET SEDIMENT CONTROL DEVICES.

**PARE CORPORATION**  
 ENGINEERS - SCIENTISTS - PLANNERS  
 8 BLACKSTONE VALLEY PLACE  
 LINCOLN, RI 02865  
 401-334-4100

**RI DOT** RHODE ISLAND DEPARTMENT OF TRANSPORTATION

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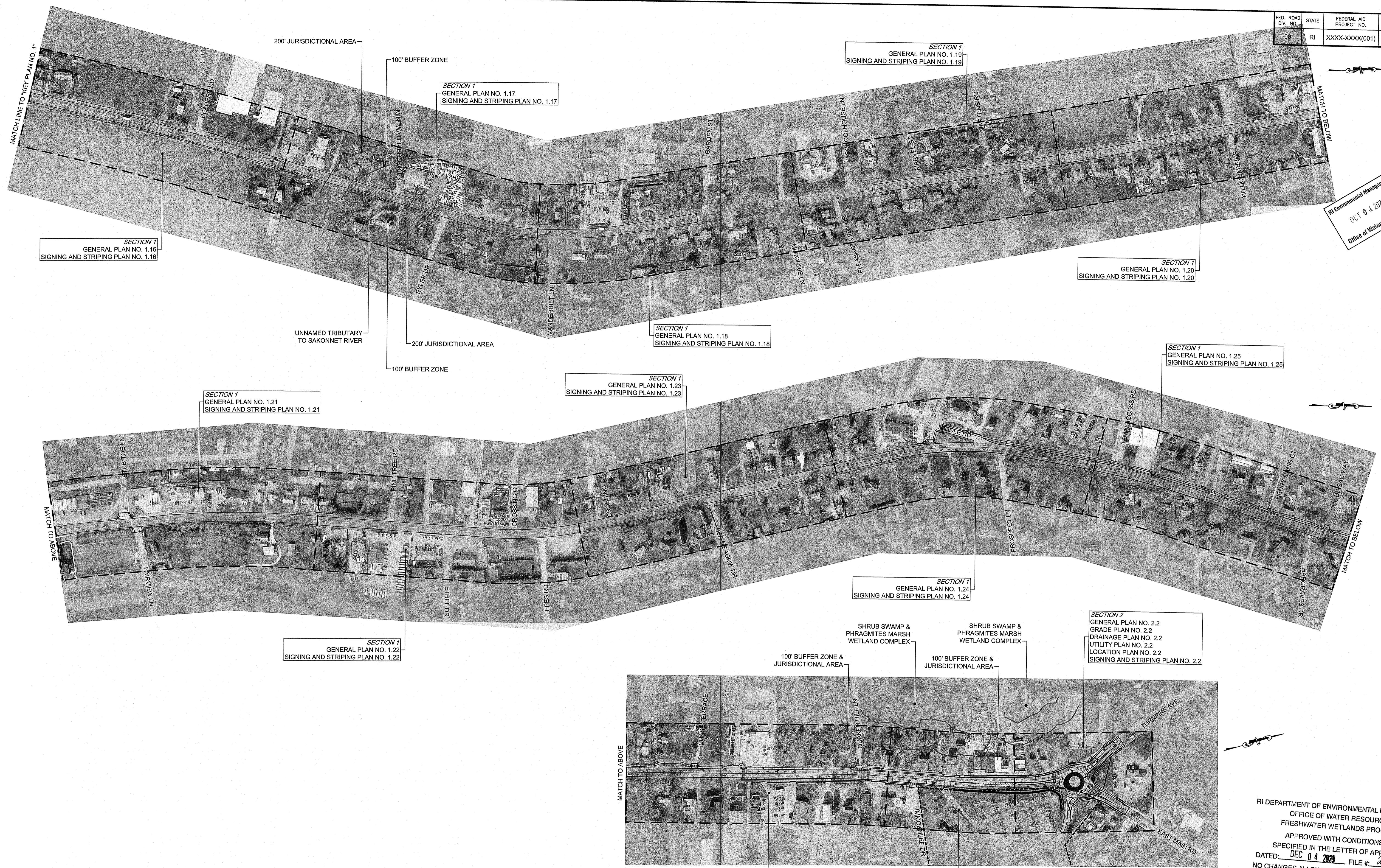
PAVEMENT IMPROVEMENTS - EAST MAIN RD

MIDDLETOWN & PORTSMOUTH

RHODE ISLAND

KEY PLAN NO. 1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XXXX-XXXX(001)	2023	8	24



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*[Signature]*

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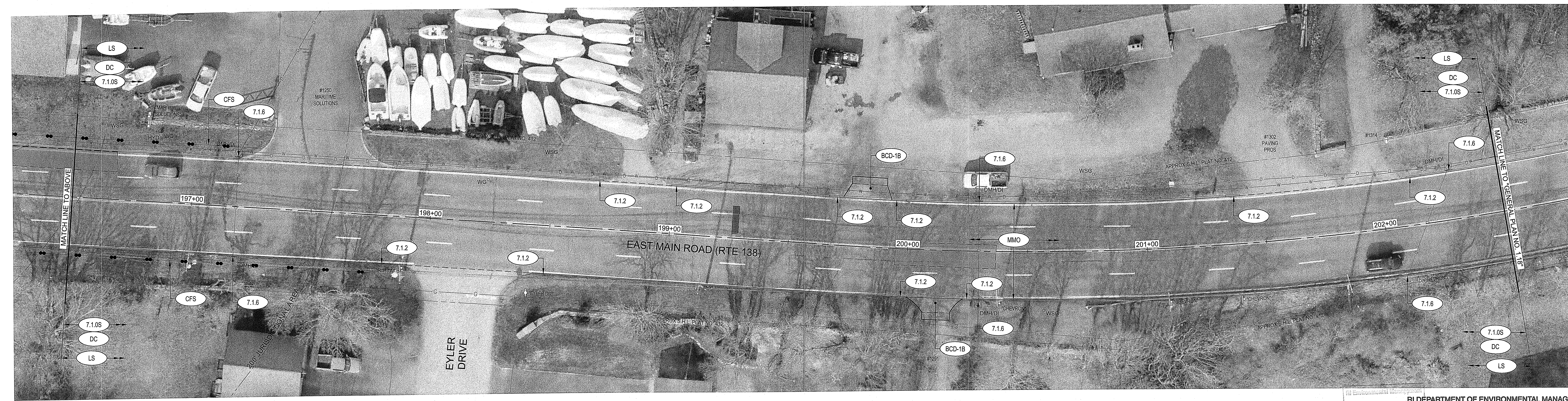
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**PARE CORPORATION**  
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 401-334-4100

**RI DOT**  
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 DEPARTMENT OF TRANSPORTATION

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OF:	123				

**PAVEMENT IMPROVEMENTS – EAST MAIN RD**  
 MIDDLETOWN & PORTSMOUTH  
 RHODE ISLAND  
**KEY PLAN NO. 2**



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PAVEMENT IMPROVEMENTS - EAST MAIN RD  
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GENERAL PLAN NO. 1.17  
 SECTION 1

**PARE CORPORATION**  
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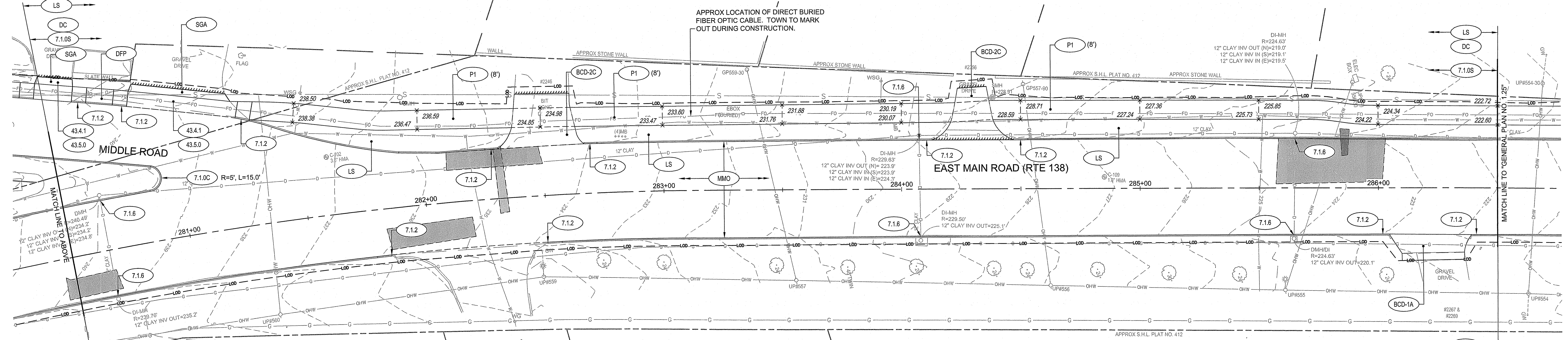
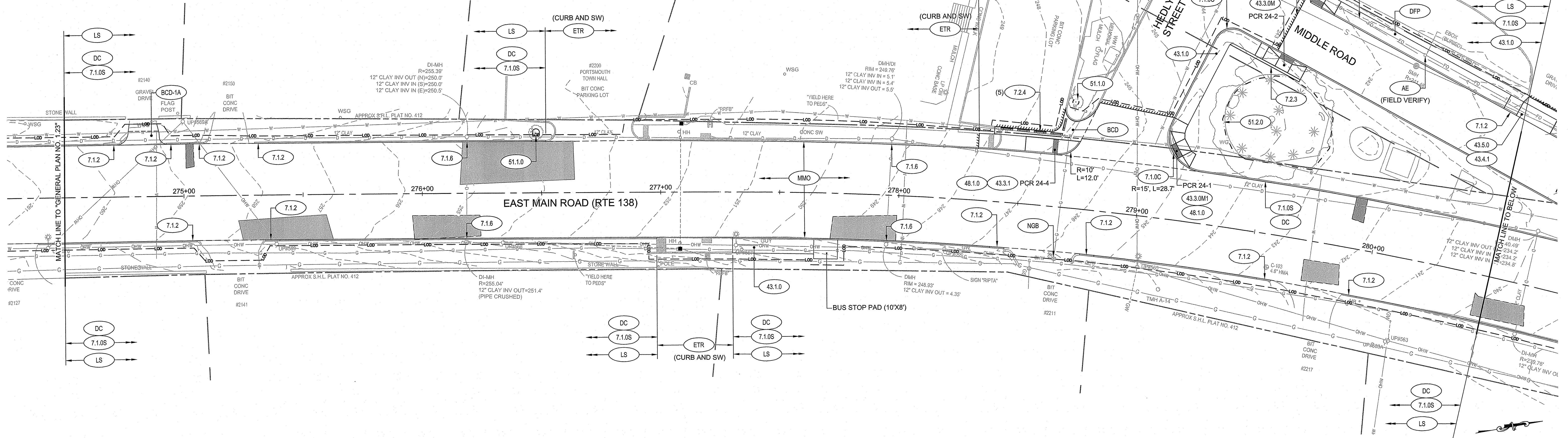
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NO.	DATE	BY	NO.	DATE	BY						

MIDDLETOWN & PORTSMOUTH

PEDESTRIAN CURB RAMP DATA										
PCR #	RAMP LOCATION (CENTERLINE OF RAMP STONE)		LENGTH OF LEVEL LANDING (4' MIN)	WIDTH OF RAMP STONE (4' MIN) RI STD 7.1.9	ROADWAY GUTTER SLOPE (%)		TRANSITION LENGTH RI STD 7.1.2 & 7.1.3			
	STATION	OFFSET			LEFT SIDE	RIGHT SIDE	LEFT SIDE		RIGHT SIDE	
							CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT
PCR 24-1	279+12.05	28.00' LT	6.50'	4.00'	3.7%	-3.7%	6.00'	-	6.00'	-
PCR 24-2	279+52.94	74.92' LT	5.50'	4.00'	-1.8%	-1.8%	-	6.00'	-	6.00'
PCR 24-3	279+60.59	97.56' LT	4.00'	4.00'	1.8%	-1.8%	-	-	-	6.00'
PCR 24-4	278+71.00	24.5' LT	4.00'	4.00'	3.7%	-	-	11.50'	-	-

(-) NEGATIVE SLOPE DENOTES SW SLOPING AWAY FROM THE CENTER OF THE PEDESTRIAN CURB RAMP



NOTE:  
1. ALL INLETS AND CATCH BASINS WITHIN THE PROJECT LIMITS SHOULD RECEIVE INLET SEDIMENT CONTROL DEVICES.

RI Environmental Management  
OCT 04 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  
DATE: DEC 04 2023 FILE # 23-013

**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
401-334-4100

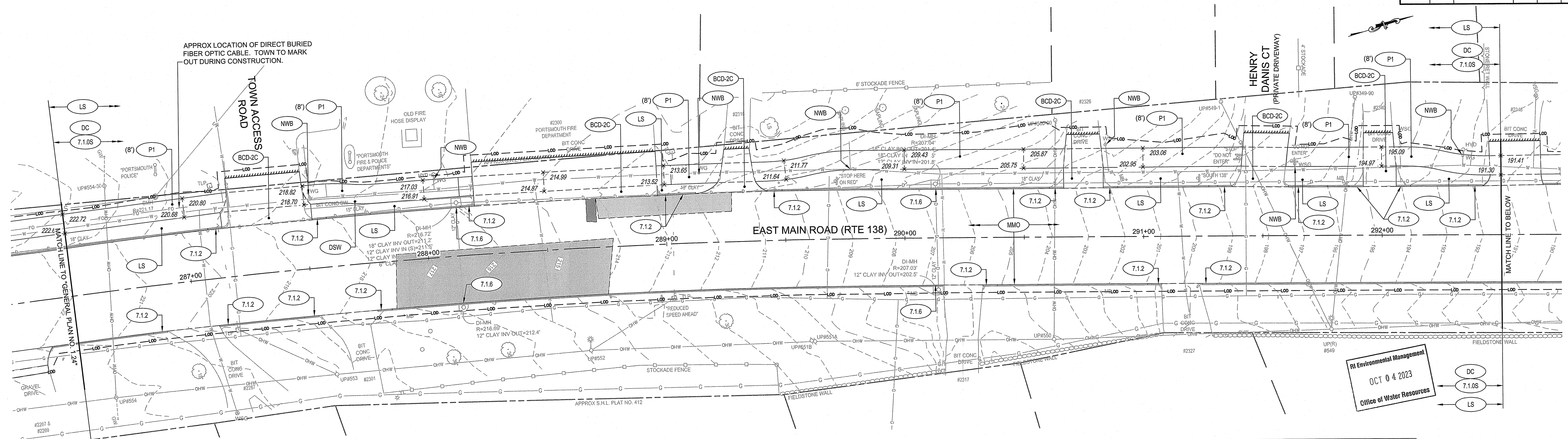
**RI DOT** RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY: KJS  
CHECKED BY: KMD  
DATE: SEPT. 2023  
SHEET: 10  
OF: 125

Scale: 1"=20'

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

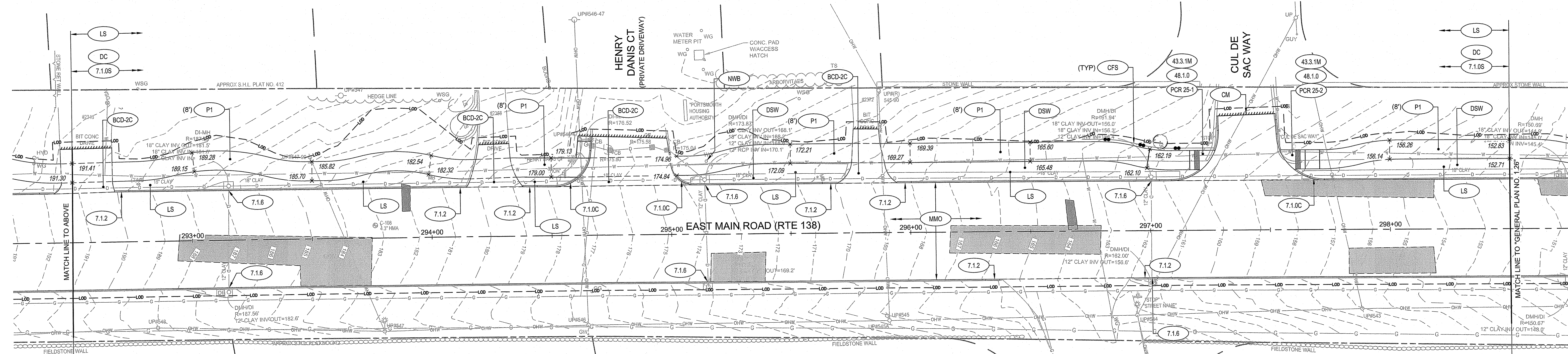
CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
PROVED PLANS FOR CONSTRUCTION  
MIDDLETOWN & PORTSMOUTH  
GENERAL PLAN NO. 1.24  
SECTION 1



RI Environmental Management  
OCT 04 2023  
Office of Water Resources

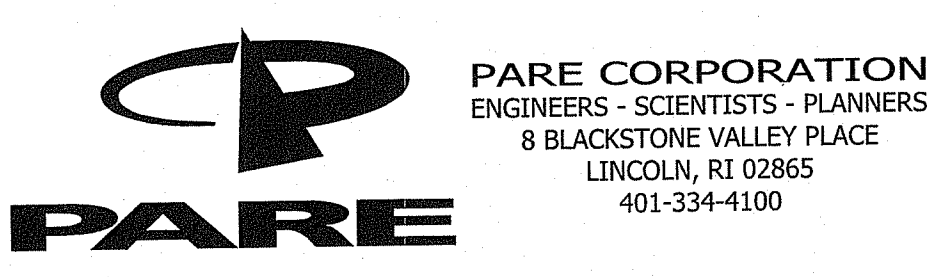
PCR #	RAMP LOCATION (CENTERLINE OF RAMP STONE)		LENGTH OF RAMP (4' MIN)	WIDTH OF RAMP STONE (4' MIN) RI STD 7.1.9	ROADWAY GUTTER SLOPE (%)		TRANSITION LENGTH RI STD 7.1.2 & 7.1.3			
	STATION	OFFSET			LEFT SIDE	RIGHT SIDE	LEFT SIDE		RIGHT SIDE	
							CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT
PCR 25-1	297+24.55	28.45' LT	10.00'	-	6.1%	-	13.00'	5.00'	-	-
PCR 25-2	297+56.82	28.49' LT	10.00'	-	-6.1%	-	-	-	6.00'	-

(-) NEGATIVE SLOPE DENOTES SIDEWALK SLOPING AWAY FROM THE CENTER OF THE PEDESTRIAN CURB RAMP



NOTE:  
1. ALL INLETS AND CATCH BASINS WITHIN THE PROJECT LIMITS SHOULD RECEIVE INLET SEDIMENT CONTROL DEVICES.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: DEC 04 2023 FILE #: 23-0133



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CHECKED BY: KMD  
DATE: SEPT. 2023  
SHEET: 11  
OF: 125

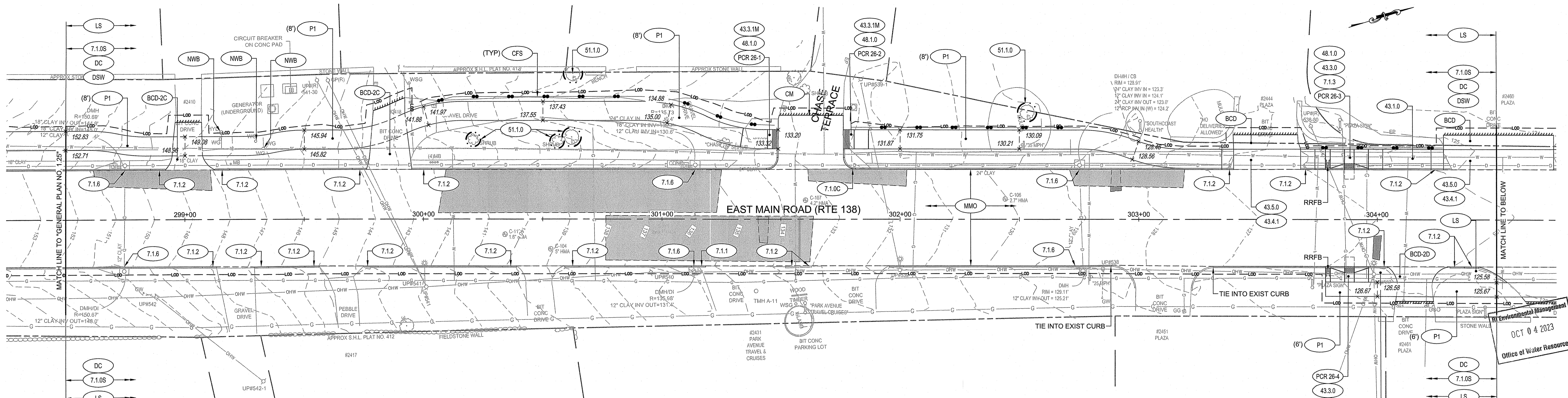
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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
PAVEMENT IMPROVEMENTS - EAST MAIN RD

GENERAL PLAN NO. 1.25

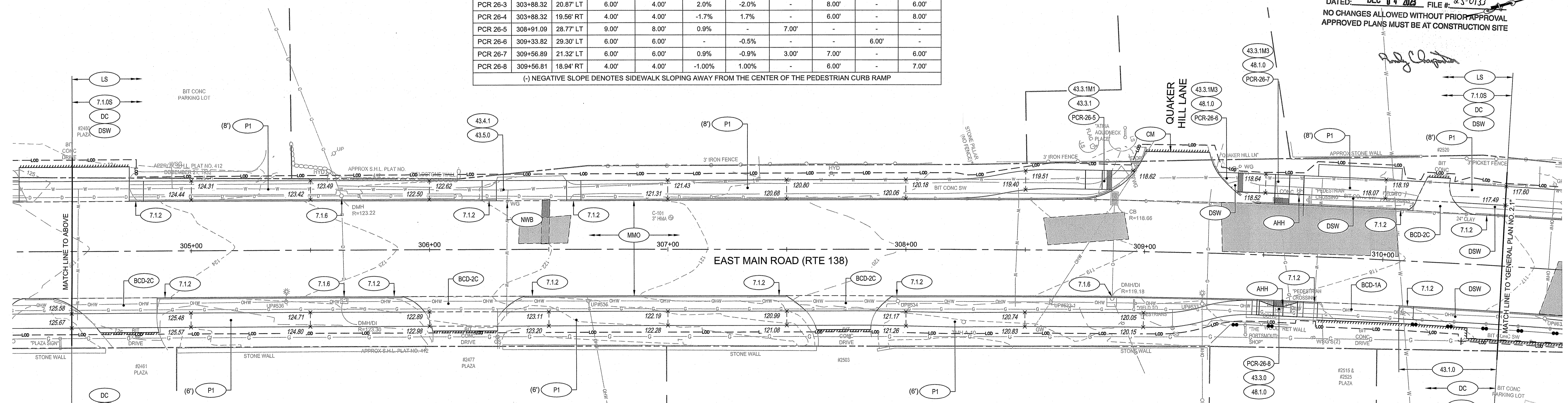
SECTION 1



**PEDESTRIAN CURB RAMP DATA**

PCR #	RAMP LOCATION (CENTERLINE OF RAMP STONE)		LENGTH OF LEVEL LANDING (4' MIN)	WIDTH OF RAMP STONE (4' MIN) RI STD 7.1.9	ROADWAY GUTTER SLOPE (%)		TRANSITION LENGTH RI STD 7.1.2 & 7.1.3			
					LEFT SIDE	RIGHT SIDE	LEFT SIDE		RIGHT SIDE	
	STATION	OFFSET	LEFT SIDE	RIGHT SIDE	CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT		
PCR 26-1	301+48.85	33.43' LT	4.00'	8.00'	4.4%	-	8.00'	7.00'	-	-
PCR 26-2	301+77.01	33.41' LT	4.00'	8.00'	-	-4.4%	-	-	3.00'	4.00'
PCR 26-3	303+88.32	20.87' LT	6.00'	4.00'	2.0%	-2.0%	8.00'	-	6.00'	8.00'
PCR 26-4	303+88.32	19.56' RT	4.00'	4.00'	-1.7%	1.7%	-	6.00'	-	8.00'
PCR 26-5	308+91.09	28.77' LT	9.00'	8.00'	0.9%	-	7.00'	-	-	-
PCR 26-6	309+33.82	29.30' LT	6.00'	6.00'	-	-0.5%	-	-	6.00'	-
PCR 26-7	309+56.89	21.32' LT	6.00'	6.00'	0.9%	-0.9%	3.00'	7.00'	-	6.00'
PCR 26-8	309+56.81	18.94' RT	4.00'	4.00'	-1.00%	1.00%	-	6.00'	-	7.00'

(-) NEGATIVE SLOPE DENOTES SIDEWALK SLOPING AWAY FROM THE CENTER OF THE PEDESTRIAN CURB RAMP



**NOTE:**  
1. ALL INLETS AND CATCH BASINS WITHIN THE PROJECT LIMITS SHOULD RECEIVE INLET SEDIMENT CONTROL DEVICES.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: **DEC 04 2023** FILE # **23-0133**  
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

OCT 04 2023  
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Office of Water Resources

**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
401-334-4100

**RI DOT**  
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: KJS  
CHECKED BY: KMD  
DATE: SEPT. 2023  
SHEET: 12  
OF: 123

Scale: 1"=20'

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**PAVEMENT IMPROVEMENTS - EAST MAIN RD**

MIDDLETOWN & PORTSMOUTH  
RHODE ISLAND

**GENERAL PLAN NO. 1.26**

**SECTION 1**

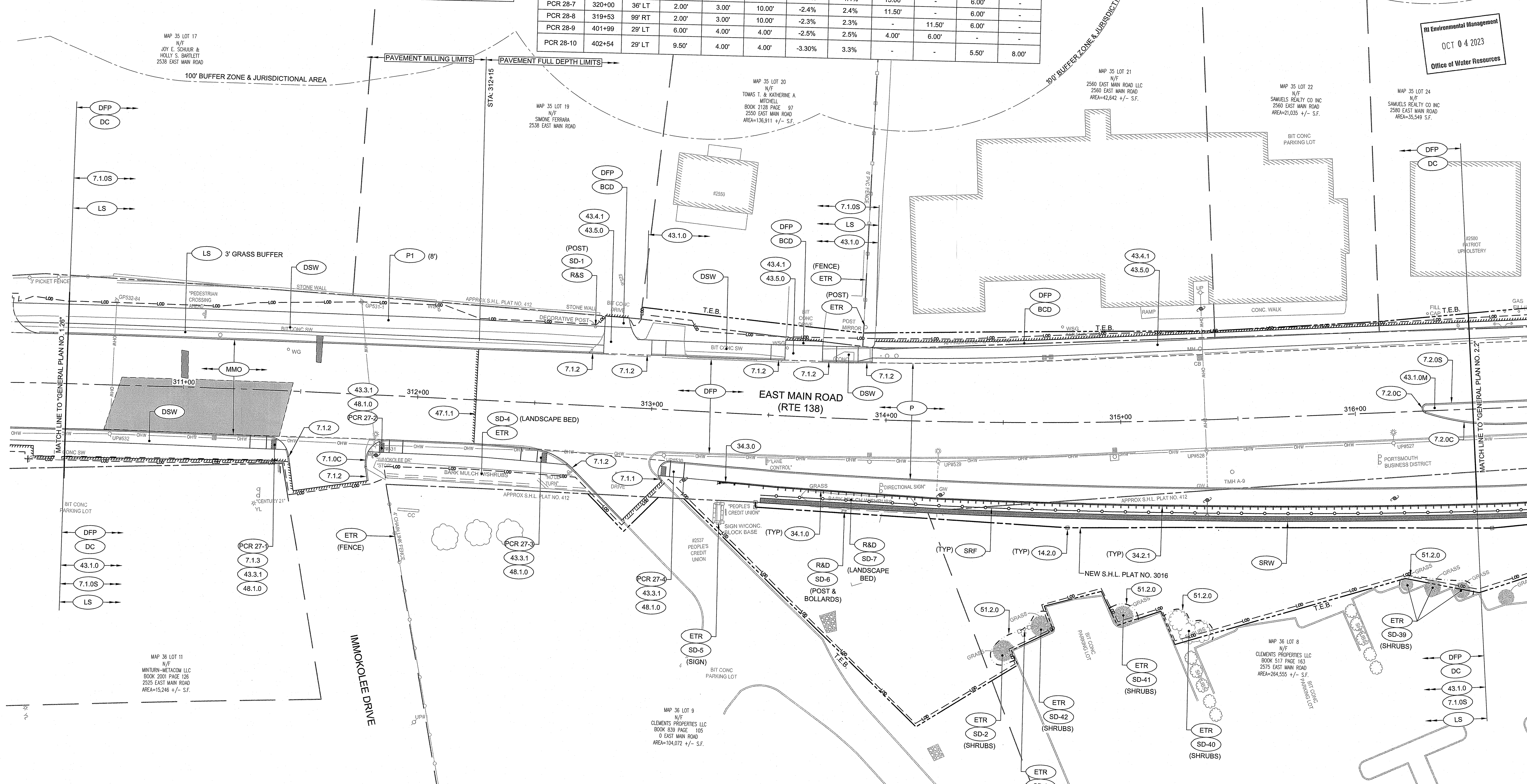
PEDESTRIAN CURB RAMP DATA

PCR #	RAMP LOCATION (CENTERLINE OF RAMP STONE)		LENGTH OF PRIMARY RAMP (2' MIN)	LENGTH OF LANDING (4' MIN)	WIDTH OF RAMP ENTRANCE (4' MIN)	ROADWAY GUTTER SLOPE (%)		TRANSITION LENGTH			
	STATION	OFFSET				LEFT SIDE	RIGHT SIDE	LEFT SIDE		RIGHT SIDE	
								CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT
PCR 27-1	311+40	23' R	7.00'	4.00'	4.00'	-	-2.5%	-	-	4.20'	6.00'
PCR 27-2	311+85	22' R	6.00'	4.00'	4.00'	-2.2%	-	4.50'	6.00'	-	-
PCR 27-3	312+56	23' R	7.00'	4.00'	4.00'	-	-2.7%	-	-	7.60'	2.40'
PCR 27-4	313+05	26' R	6.00'	4.00'	4.00'	-2.0%	-	4.20'	6.00'	-	-

PEDESTRIAN CURB RAMP DATA

PCR #	RAMP LOCATION (CENTERLINE OF RAMP STONE)		LENGTH OF PRIMARY RAMP (2' MIN)	LENGTH OF LANDING (4' MIN)	WIDTH OF RAMP ENTRANCE (4' MIN)	ROADWAY GUTTER SLOPE (%)		TRANSITION LENGTH			
	STATION	OFFSET				LEFT SIDE	RIGHT SIDE	LEFT SIDE		RIGHT SIDE	
								CIRCULAR	STRAIGHT	CIRCULAR	STRAIGHT
PCR 28-1	318+00	38' LT	2.00'	4.00'	10.00'	-4.5%	4.5%	6.00'	-	15.00'	-
PCR 28-2	401+17	32' LT	2.00'	3.00'	10.00'	-4.1%	4.1%	6.00'	-	15.00'	-
PCR 28-3	317+95	36' RT	2.00'	4.00'	6.00'	4.6%	-4.6%	15.00'	-	6.00'	-
PCR 28-4	318+49	96' RT	2.00'	3.00'	10.00'	-0.7%	0.7%	6.00'	-	11.50'	-
PCR 28-5	319+57	88' RT	2.00'	3.00'	10.00'	-3.7%	3.7%	11.50'	-	-	-
PCR 28-6	319+91	27' RT	2.00'	4.00'	10.00'	-4.4%	4.4%	15.00'	-	6.00'	-
PCR 28-7	320+00	36' LT	2.00'	3.00'	10.00'	-2.4%	2.4%	11.50'	-	6.00'	-
PCR 28-8	319+53	99' RT	2.00'	3.00'	10.00'	-2.3%	2.3%	-	11.50'	6.00'	-
PCR 28-9	401+99	29' LT	6.00'	4.00'	4.00'	-2.5%	2.5%	4.00'	6.00'	-	-
PCR 28-10	402+54	29' LT	9.50'	4.00'	4.00'	-3.30%	3.3%	-	-	5.50'	8.00'

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XXXX-XXXX(001)	2023	13	24



RI Environmental Management  
OCT 04 2023  
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NOTE:  
1. ALL INLETS AND CATCH BASINS WITHIN THE PROJECT LIMITS SHOULD RECEIVE INLET SEDIMENT CONTROL DEVICES.

**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
401-334-4100

**RI DOT**  
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

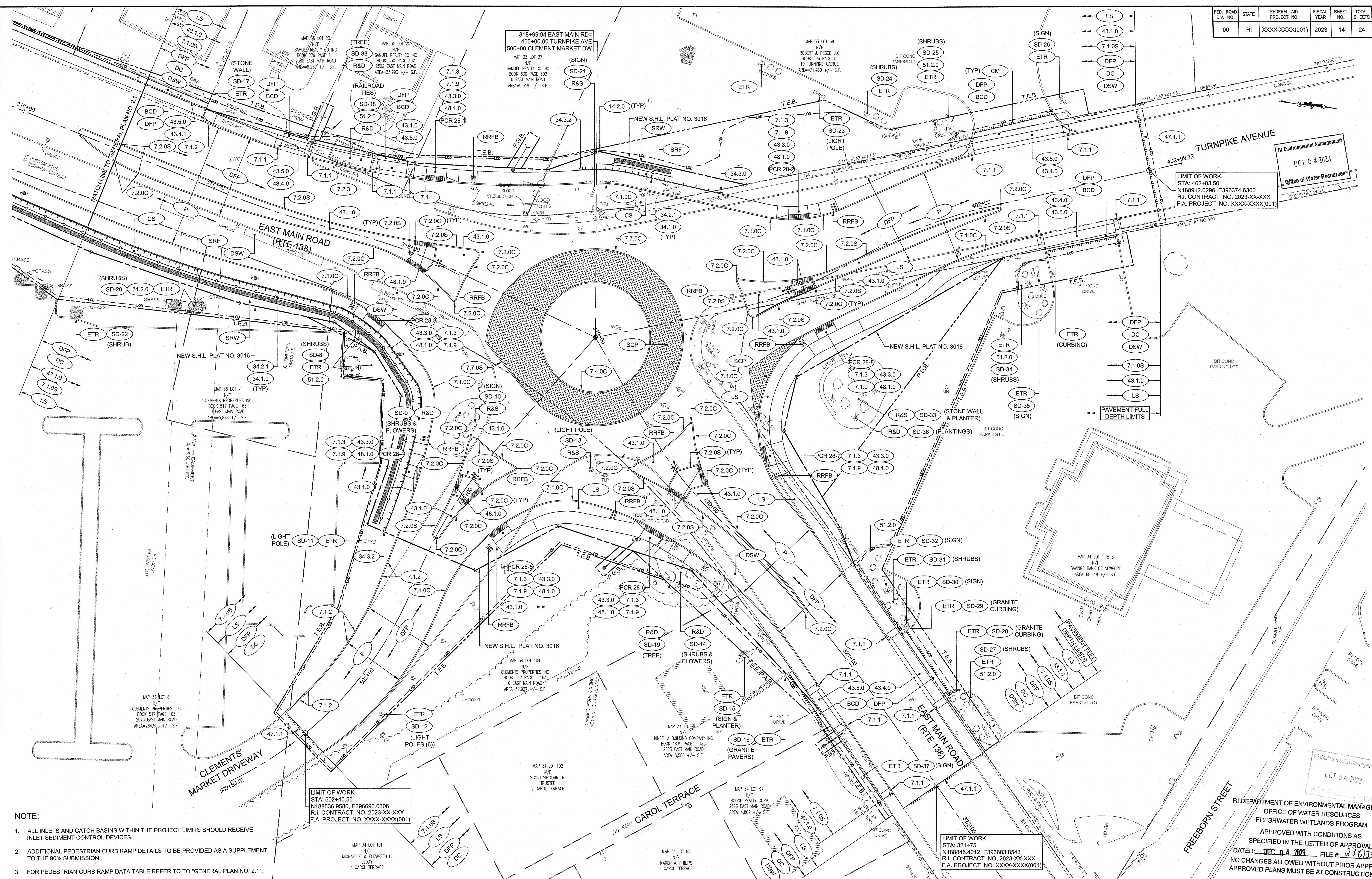
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CHECKED BY: KMD  
DATE: SEPT. 2023  
SHEET: 13  
OF: 123

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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: DEC 04 2023 FILE # 23-0133  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
PAVEMENT IMPROVEMENTS - EAST MAIN RD  
MIDDLETOWN & PORTSMOUTH  
GENERAL PLAN NO. 2.1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XXXX-XXXX(001)	2023	14	24



RI Environmental Management  
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LIMIT OF WORK  
 STA: 402+83.50  
 N188912.0296, E396374.6300  
 R.I. CONTRACT NO. 2023-XX-XXX  
 F.A. PROJECT NO. XXXX-XXXX(001)

LIMIT OF WORK  
 STA: 321+75  
 N188845.4012, E396683.8543  
 R.I. CONTRACT NO. 2023-XX-XXX  
 F.A. PROJECT NO. XXXX-XXXX(001)

- NOTE:
- ALL INLETS AND CATCH BASINS WITHIN THE PROJECT LIMITS SHOULD RECEIVE INLET SEDIMENT CONTROL DEVICES.
  - ADDITIONAL PEDESTRIAN CURB RAMP DETAILS TO BE PROVIDED AS A SUPPLEMENT TO THE 90% SUBMISSION.
  - FOR PEDESTRIAN CURB RAMP DATA TABLE REFER TO TO "GENERAL PLAN NO. 2.1".

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
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**PARE CORPORATION**  
 ENGINEERS - SCIENTISTS - PLANNERS  
 8 BLACKSTONE VALLEY PLACE  
 LINCOLN, RI 02865  
 401-334-4100

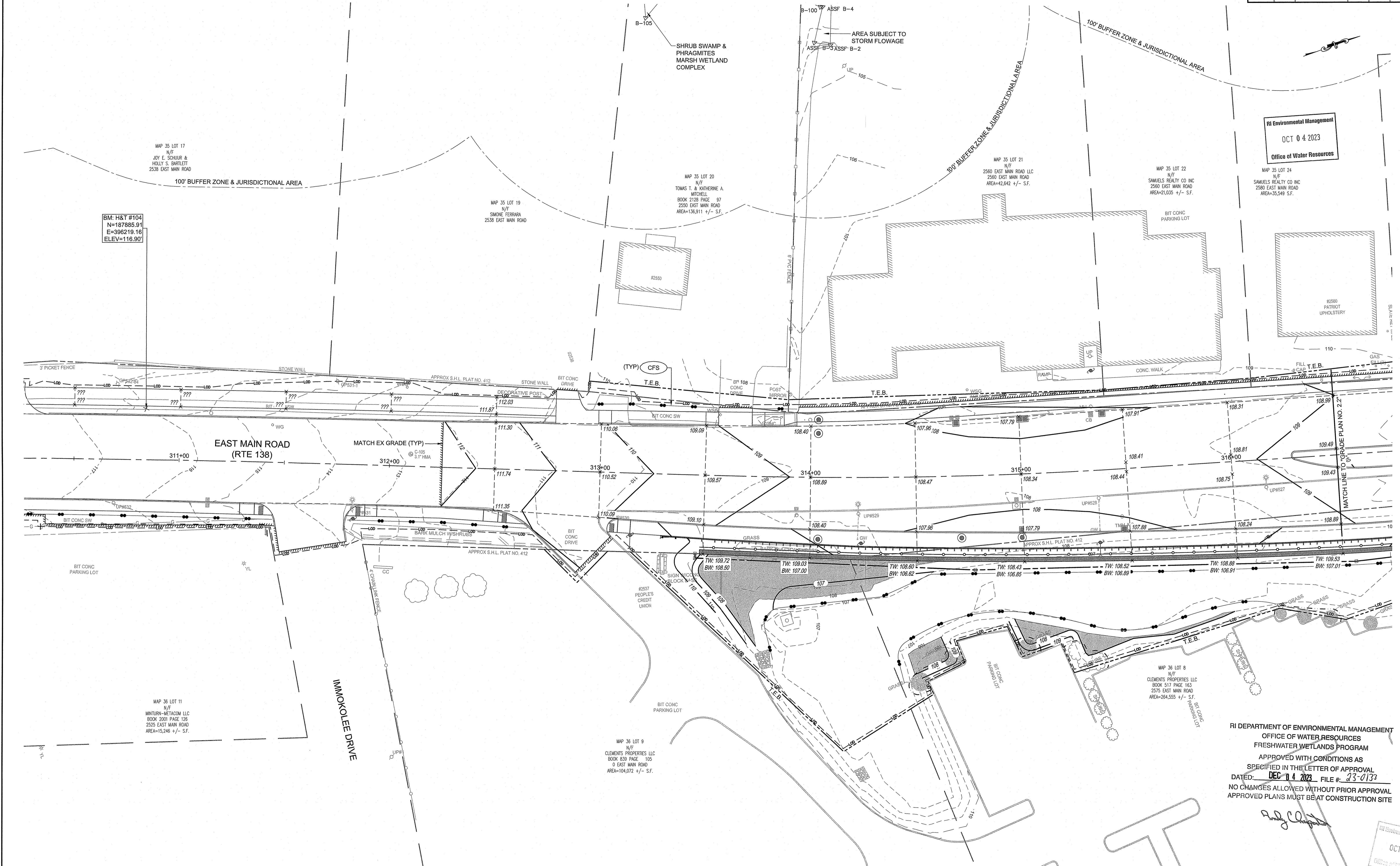
**RI DOT**  
 RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY: KJS  
 CHECKED BY: KMD  
 DATE: SEPT. 2023  
 SHEET: 14  
 OF: 123

Scale: 1"=20'

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

PAVEMENT IMPROVEMENTS - EAST MAIN RD  
 MIDDLETOWN & PORTSMOUTH  
 RHODE ISLAND  
 GENERAL PLAN NO. 2.2



BM: H&T #104  
N=187885.91  
E=396219.16  
ELEV=116.90'

RI Environmental Management  
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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DATED: **DEC 04 2023** FILE #: **23-0133**  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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*Andy Clapton*

RI Environmental Management  
OCT 04 2023

**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
401-334-4100

**RI DOT** RHODE ISLAND DEPARTMENT OF TRANSPORTATION

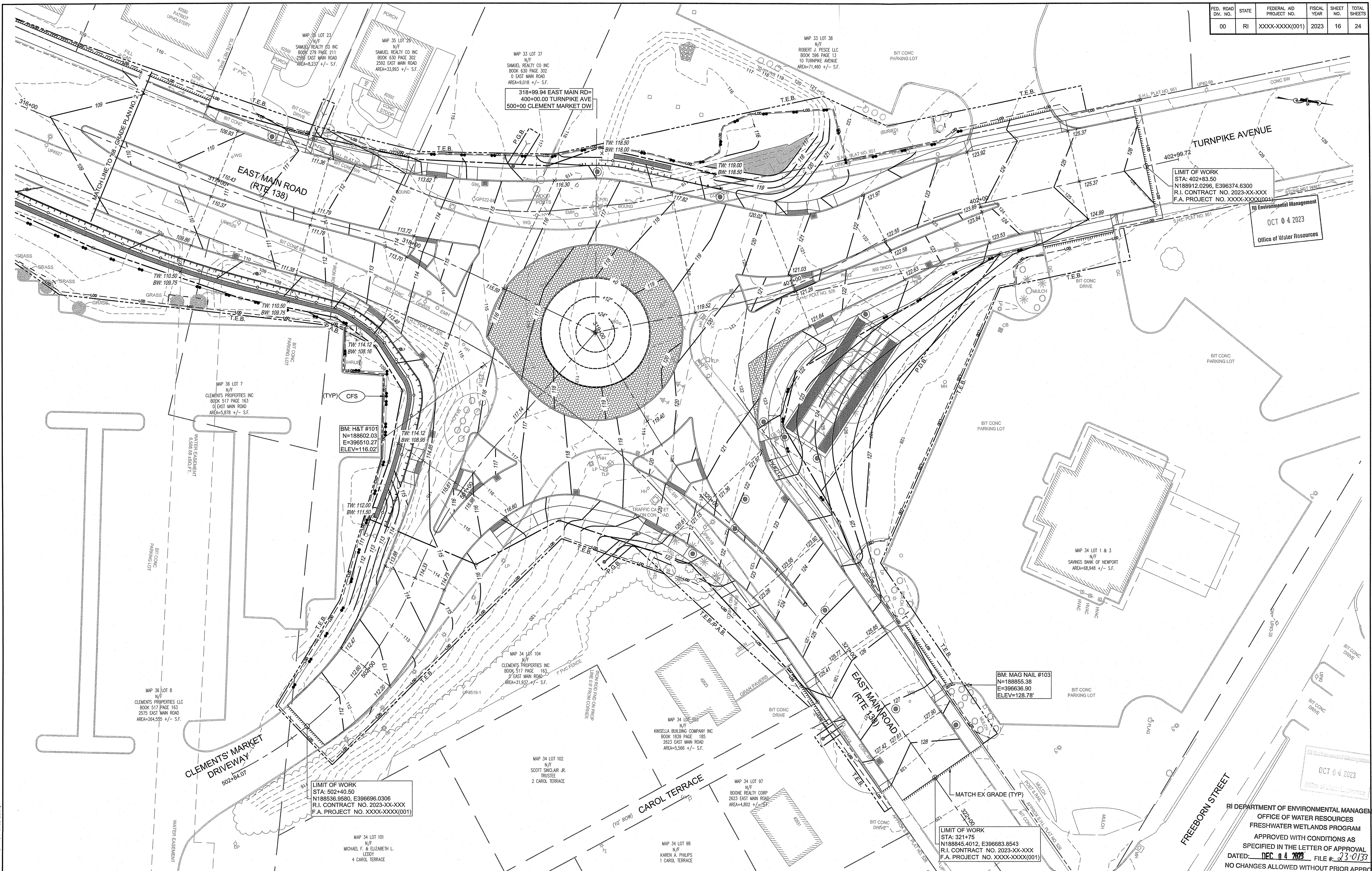
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DATE: SEPT. 2023  
SHEET: 15  
OF: 123

Scale: 1"=20'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - EAST MAIN RD  
MIDDLETOWN & PORTSMOUTH  
RHODE ISLAND  
GRADE PLAN NO. 2.1  
SECTION 2

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XXXX-XXXX(001)	2023	16	24



LIMIT OF WORK  
 STA: 402+83.50  
 N188912.0296, E396374.6300  
 R.I. CONTRACT NO. 2023-XX-XXX  
 F.A. PROJECT NO. XXXX-XXXX(001)

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LIMIT OF WORK  
 STA: 502+40.50  
 N188536.9580, E396696.0306  
 R.I. CONTRACT NO. 2023-XX-XXX  
 F.A. PROJECT NO. XXXX-XXXX(001)

LIMIT OF WORK  
 STA: 321+75  
 N188845.4012, E396683.8543  
 R.I. CONTRACT NO. 2023-XX-XXX  
 F.A. PROJECT NO. XXXX-XXXX(001)

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 DATED: DEC 14 2023 FILE #: 23-0133  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**PARE CORPORATION**  
 ENGINEERS - SCIENTISTS - PLANNERS  
 8 BLACKSTONE VALLEY PLACE  
 LINCOLN, RI 02865  
 401-334-4100

RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

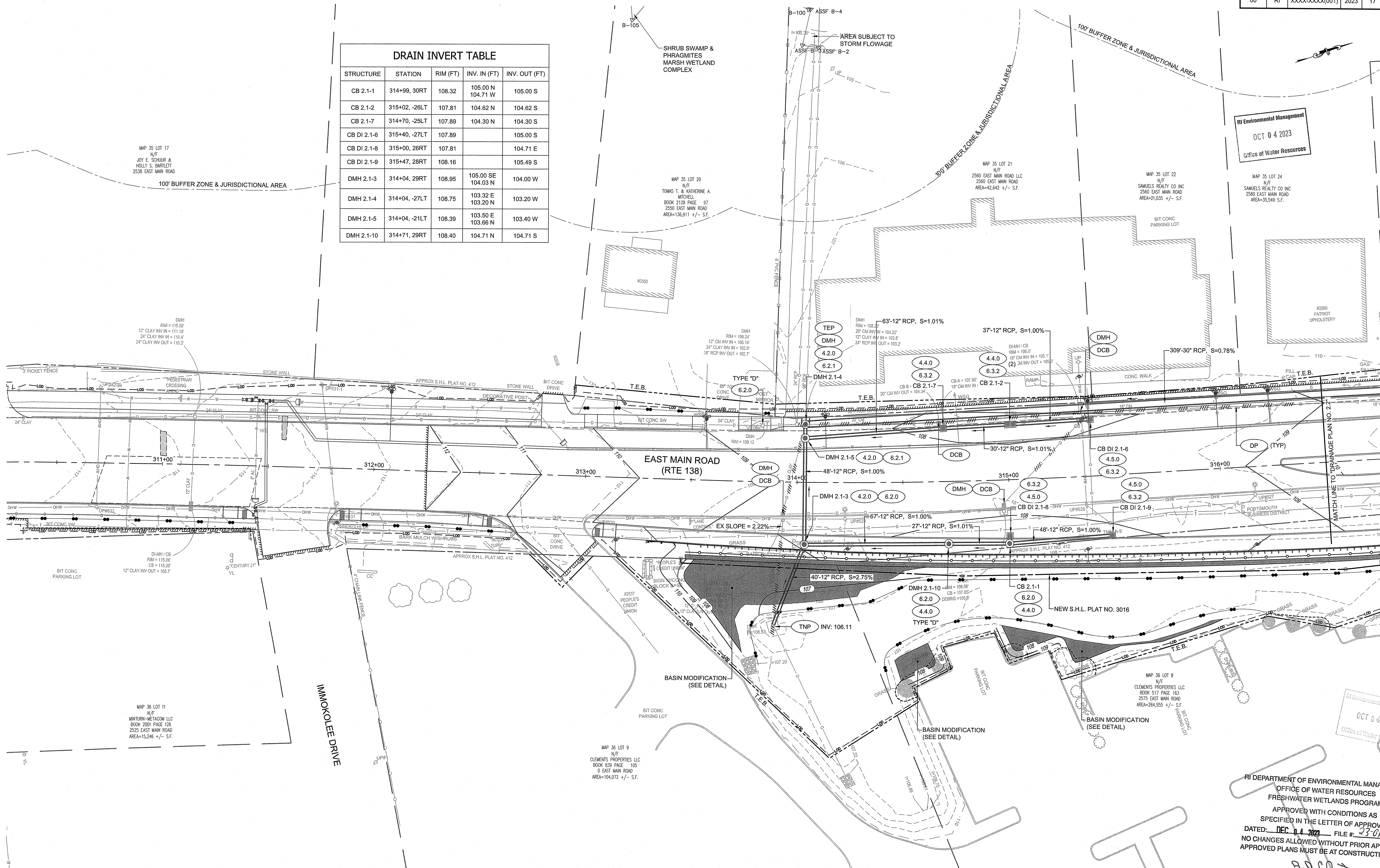
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 DATE: SEPT. 2023  
 SHEET: 16  
 OF: 123

Scale: 1"=20'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - EAST MAIN RD  
 MIDDLETOWN & PORTSMOUTH  
 GRADE PLAN NO. 2.2  
 SECTION 2

STRUCTURE	STATION	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB 2.1-1	314+99, 30RT	108.32	105.00 N 104.71 W	105.00 S
CB 2.1-2	315+02, -26LT	107.81	104.62 N	104.62 S
CB 2.1-7	314+70, -25LT	107.89	104.30 N	104.30 S
CB DI 2.1-6	315+40, -27LT	107.89		105.00 S
CB DI 2.1-8	315+00, 26RT	107.81		104.71 E
CB DI 2.1-9	315+47, 28RT	108.16		105.49 S
DMH 2.1-3	314+04, 29RT	108.95	105.00 SE 104.03 N	104.00 W
DMH 2.1-4	314+04, -27LT	108.75	103.32 E 103.20 N	103.20 W
DMH 2.1-5	314+04, -21LT	108.39	103.50 E 103.66 N	103.40 W
DMH 2.1-10	314+71, 29RT	108.40	104.71 N	104.71 S



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OCT 04 2023  
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
401-334-4100

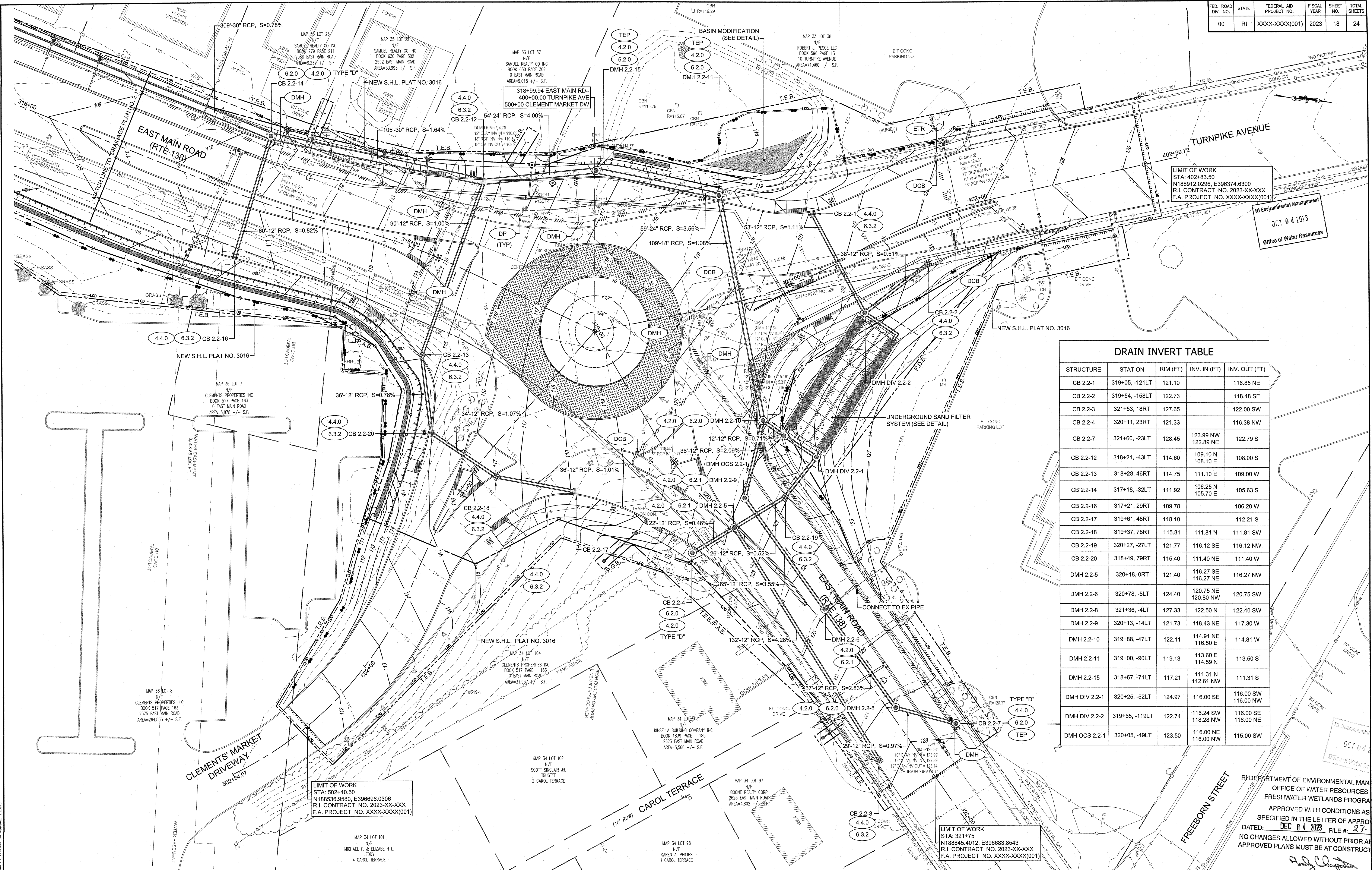
**RI DOT** RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: KJS  
CHECKED BY: KMD  
DATE: SEPT. 2023  
SHEET: 17  
OF: 123

Scale: 1"=20'

NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - EAST MAIN RD  
MIDDLETOWN & PORTSMOUTH  
RHODE ISLAND  
DRAINAGE PLAN NO. 2.1  
SECTION 2



LIMIT OF WORK  
 STA: 402+83.50  
 N188912.0296, E396374.6300  
 R.I. CONTRACT NO. 2023-XX-XXX  
 F.A. PROJECT NO. XXXX-XXXX(001)

RI Environmental Management  
 OCT 04 2023  
 Office of Water Resources

**DRAIN INVERT TABLE**

STRUCTURE	STATION	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB 2.2-1	319+05, -12LT	121.10		116.85 NE
CB 2.2-2	319+54, -158LT	122.73		118.48 SE
CB 2.2-3	321+53, 18RT	127.65		122.00 SW
CB 2.2-4	320+11, 23RT	121.33		116.38 NW
CB 2.2-7	321+60, -23LT	128.45	123.99 NW 122.89 NE	122.79 S
CB 2.2-12	318+21, -43LT	114.60	109.10 N 108.10 E	108.00 S
CB 2.2-13	318+28, 46RT	114.75	111.10 E	109.00 W
CB 2.2-14	317+18, -32LT	111.92	106.25 N 105.70 E	105.63 S
CB 2.2-16	317+21, 29RT	109.78		106.20 W
CB 2.2-17	319+61, 48RT	118.10		112.21 S
CB 2.2-18	319+37, 78RT	115.81	111.81 N	111.81 SW
CB 2.2-19	320+27, -27LT	121.77	116.12 SE	116.12 NW
CB 2.2-20	318+49, 79RT	115.40	111.40 NE	111.40 W
DMH 2.2-5	320+18, 0RT	121.40	116.27 SE 116.27 NE	116.27 NW
DMH 2.2-6	320+78, -5LT	124.40	120.75 NE 120.80 NW	120.75 SW
DMH 2.2-8	321+36, -4LT	127.33	122.50 N	122.40 SW
DMH 2.2-9	320+13, -14LT	121.73	118.43 NE	117.30 W
DMH 2.2-10	319+88, -47LT	122.11	114.91 NE 116.50 E	114.81 W
DMH 2.2-11	319+00, -90LT	119.13	113.60 E 114.59 N	113.50 S
DMH 2.2-15	318+67, -71LT	117.21	111.31 N 112.61 NW	111.31 S
DMH DIV 2.2-1	320+25, -52LT	124.97	116.00 SE	116.00 SW 116.00 NW
DMH DIV 2.2-2	319+65, -119LT	122.74	116.24 SW 118.28 NW	116.00 SE 116.00 NW
DMH OCS 2.2-1	320+05, -49LT	123.50	116.00 NE 116.00 NW	115.00 SW

LIMIT OF WORK  
 STA: 502+40.50  
 N188536.9580, E396696.0306  
 R.I. CONTRACT NO. 2023-XX-XXX  
 F.A. PROJECT NO. XXXX-XXXX(001)

LIMIT OF WORK  
 STA: 321+75  
 N188845.4012, E396683.8543  
 R.I. CONTRACT NO. 2023-XX-XXX  
 F.A. PROJECT NO. XXXX-XXXX(001)

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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**PARE CORPORATION**  
 ENGINEERS - SCIENTISTS - PLANNERS  
 8 BLACKSTONE VALLEY PLACE  
 LINCOLN, RI 02865  
 401-334-4100

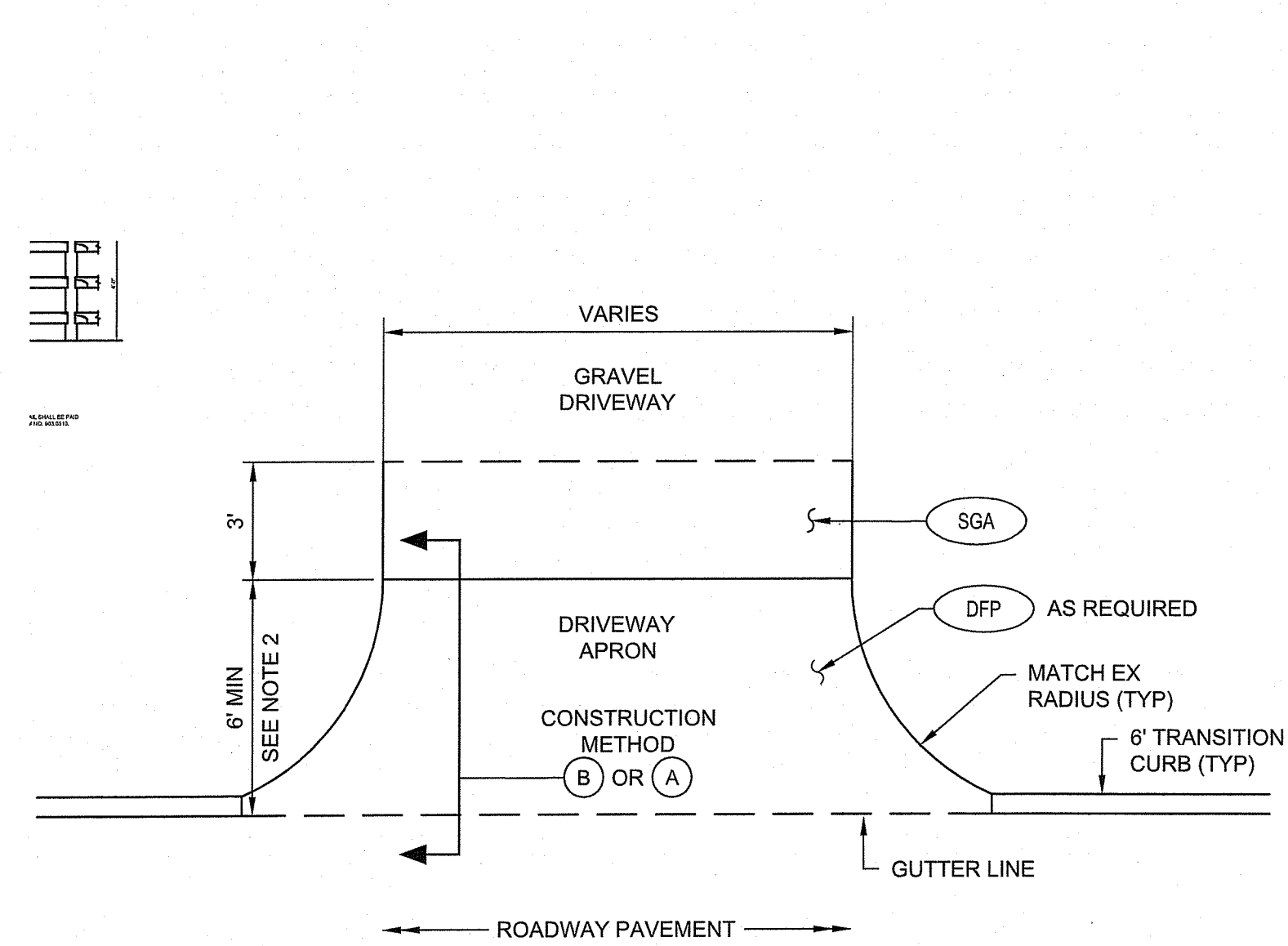
**RI DOT** RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY: KJS  
 CHECKED BY: KMD  
 DATE: SEPT. 2023  
 SHEET: 18  
 OF: 123

Scale: 1"=20'

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

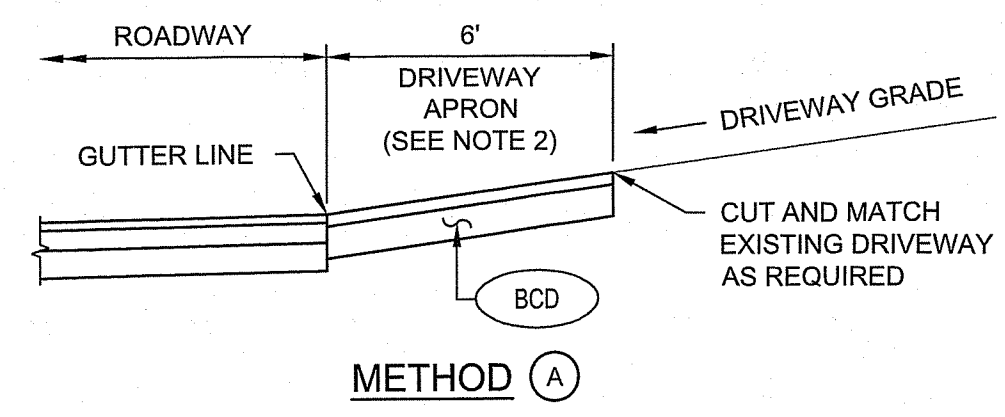
PAVEMENT IMPROVEMENTS - EAST MAIN RD  
 MIDDLETOWN & PORTSMOUTH  
 RHODE ISLAND  
 DRAINAGE PLAN NO. 2.2  
 SECTION 2



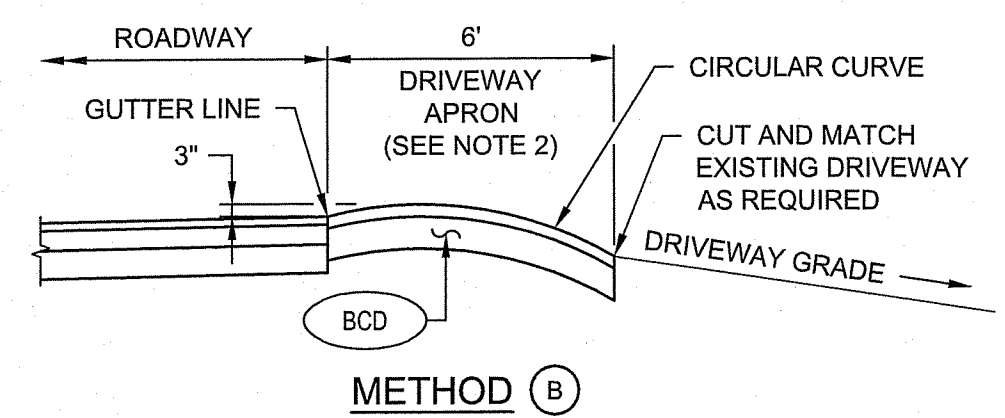
**NOTES:**

- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- DRIVEWAY APRON SHALL EXTEND A MINIMUM OF SIX (6) FEET FROM THE GUTTER LINE. CONTRACTOR SHOULD NOTIFY THE ENGINEER IF MORE THAN 6 FEET IS REQUIRED IN ORDER TO ACHIEVE POSITIVE DRAINAGE AND/OR TO PREVENT CARS FROM BOTTOMING OUT.
- CONTRACTOR TO PAVE DRIVEWAY APRONS AFTER THE MAINLINE PAVING HAS BEEN COMPLETED.

**BCD-1X BITUMINOUS CONCRETE DRIVEWAY APRON AT GRAVEL DRIVEWAY**  
SEE CONSTRUCTION METHOD DETAILS A OR B

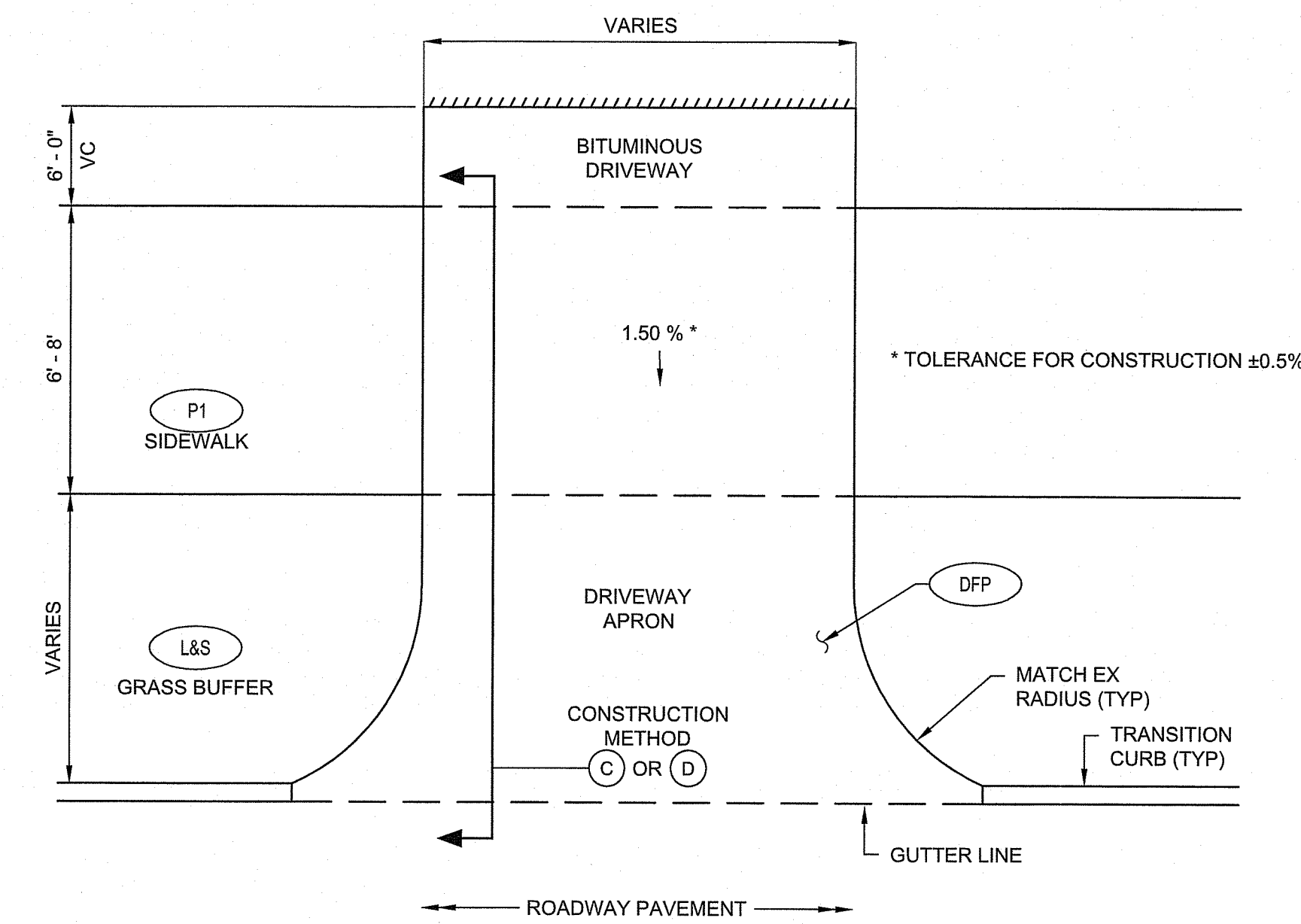


**METHOD (A)**



**METHOD (B)**

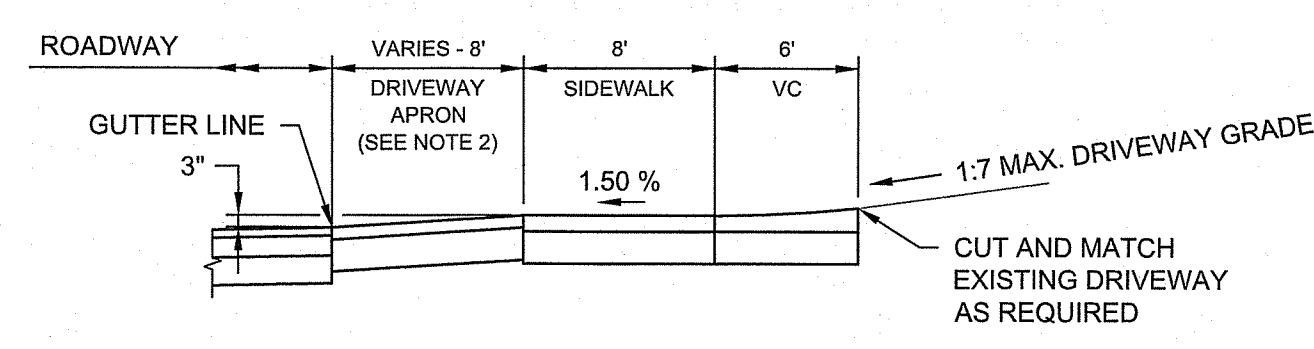
**CONSTRUCTION METHOD**  
NOT TO SCALE



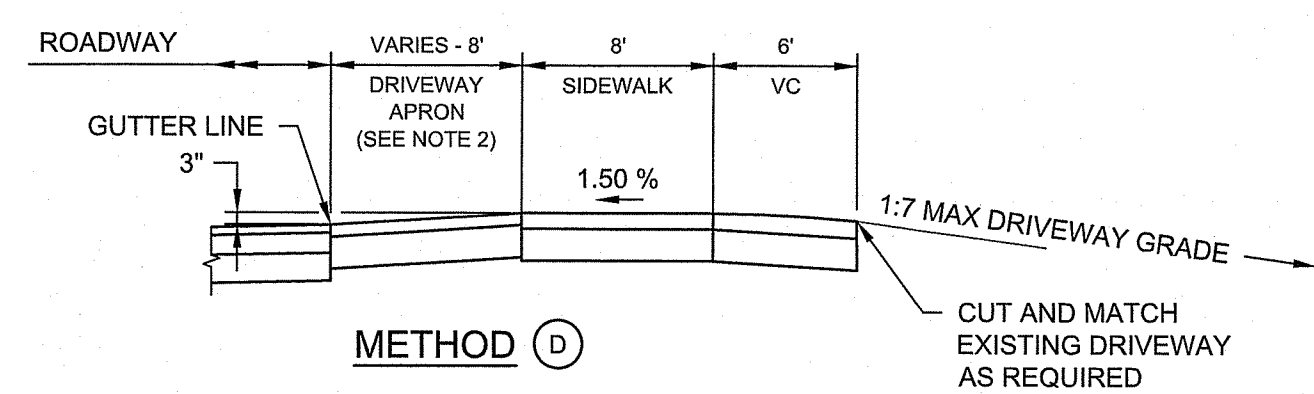
**NOTES:**

- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- DRIVEWAY APRON SHALL EXTEND A MINIMUM OF SIX (6) FEET FROM THE GUTTER LINE. CONTRACTOR SHOULD NOTIFY THE ENGINEER IF MORE THAN 6 FEET IS REQUIRED IN ORDER TO ACHIEVE POSITIVE DRAINAGE AND/OR TO PREVENT CARS FROM BOTTOMING OUT.

**BCD-2X PATH AT DRIVEWAY CROSSING**  
SEE CONSTRUCTION METHOD DETAILS 'C' OR 'D'

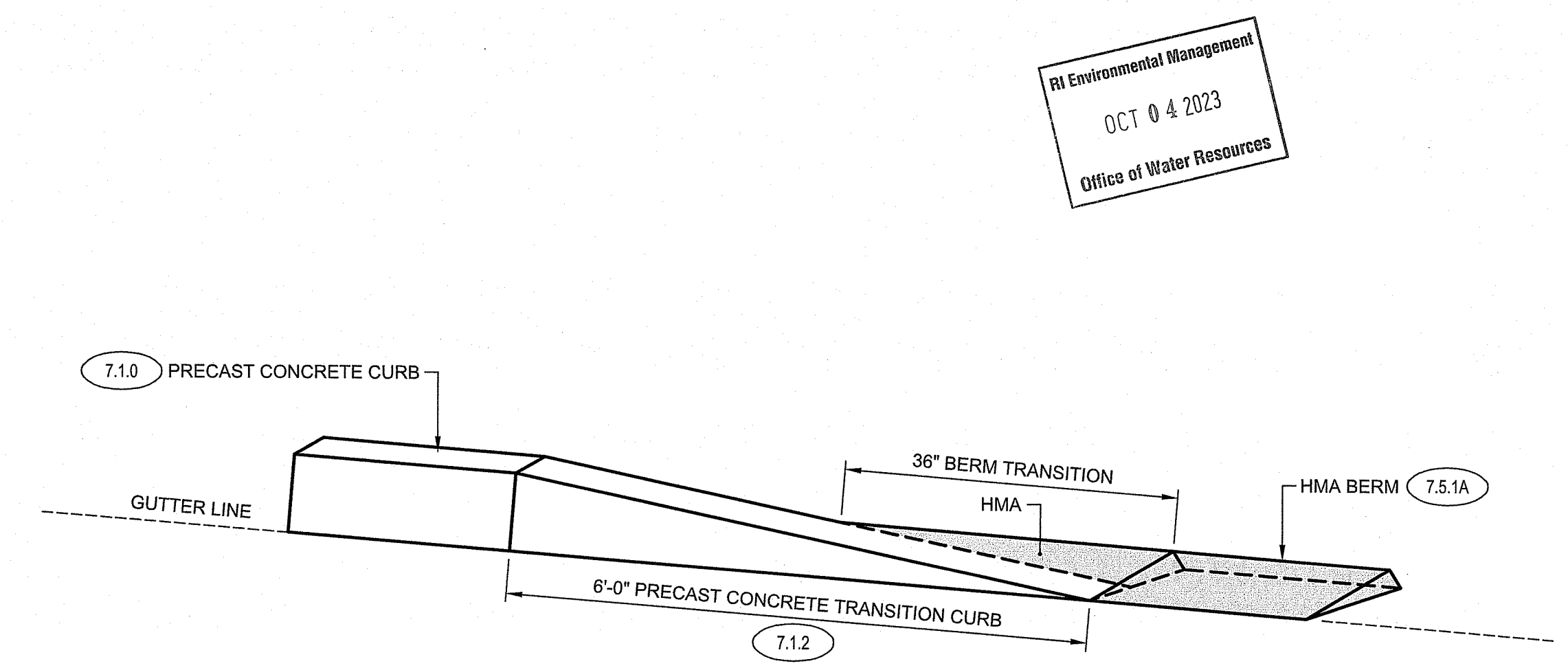


**METHOD (C)**

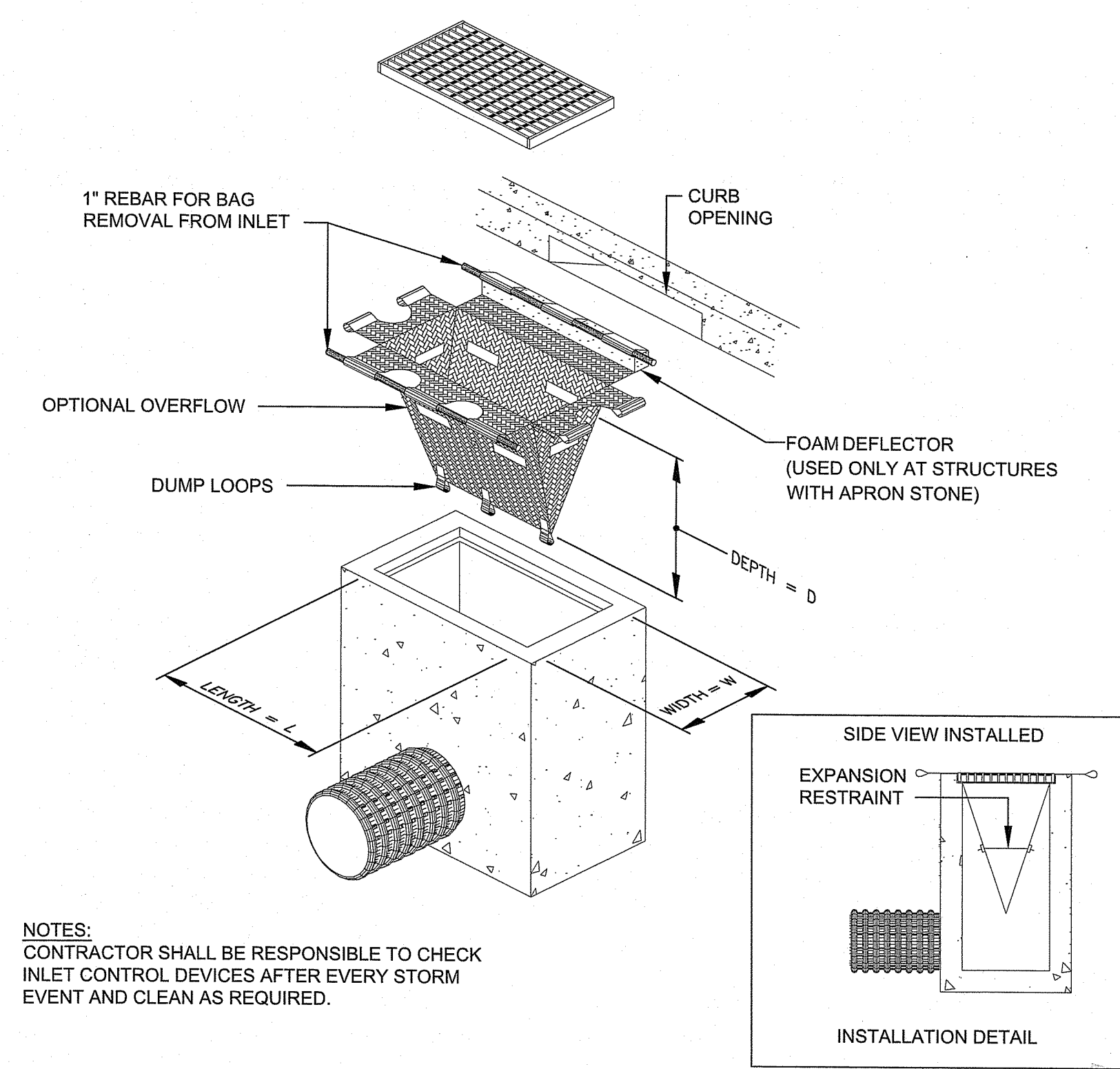


**METHOD (D)**

**CONSTRUCTION METHOD**



**BTC HMA BERM TRANSITION TO CURB**  
NOT TO SCALE



- NOTES:**  
CONTRACTOR SHALL BE RESPONSIBLE TO CHECK INLET CONTROL DEVICES AFTER EVERY STORM EVENT AND CLEAN AS REQUIRED.

**ISCD INLET SEDIMENT CONTROL DEVICE (WITH OPTIONAL CURB DEFLECTOR)**  
NOT TO SCALE

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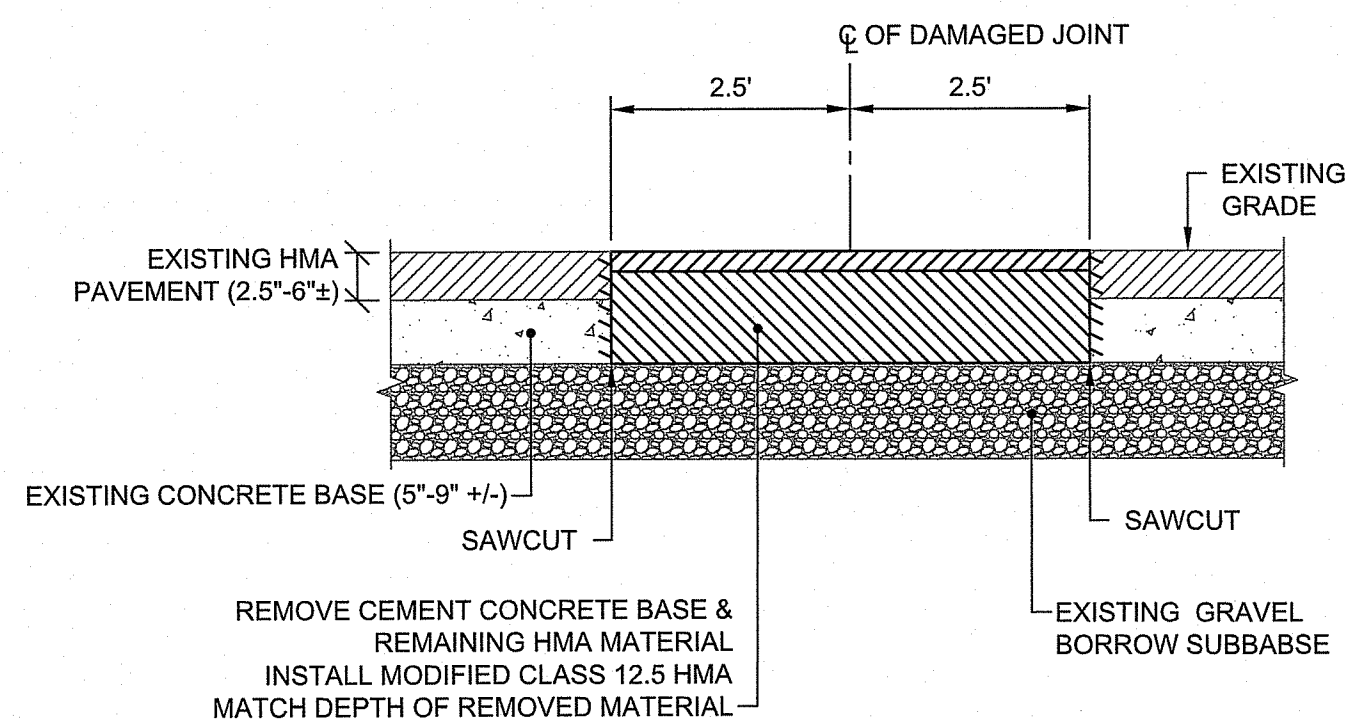
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH COMMENTS AS SPECIFIED IN  
DATE: DEC-04-2023  
BY: [Signature]  
SUPERVISOR APPROVAL  
APPROVED FOR CONSTRUCTION SITE

**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
401-334-4100

**RI DOT** RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	KJS
CHECKED BY:	KMD
DATE:	SEPT. 2023
SHEET:	19
OF:	123

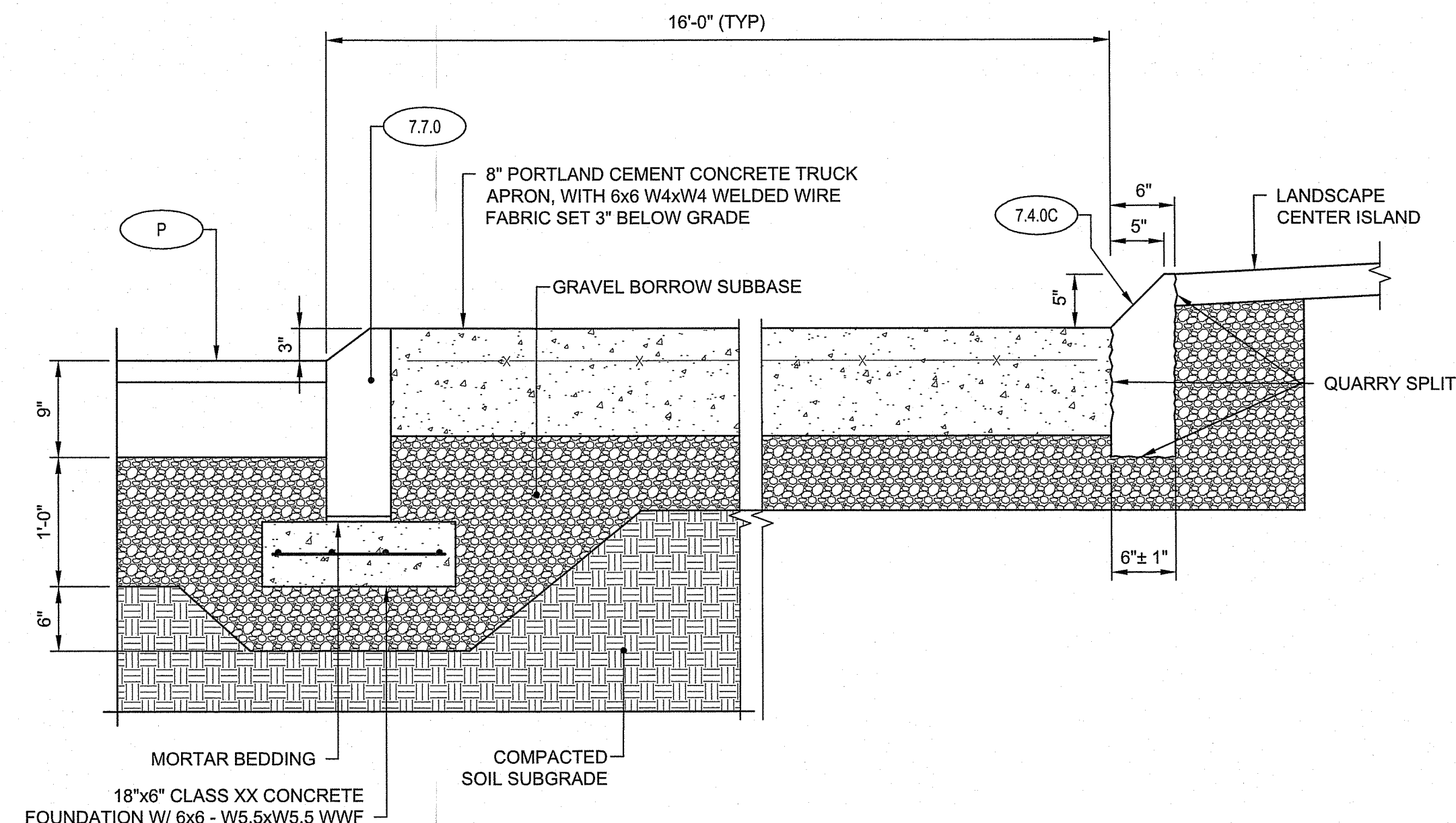
PAVEMENT IMPROVEMENTS - EAST MAIN RD  
MIDDLETOWN & PORTSMOUTH  
RHODE ISLAND  
**RIDEM DETAILS NO. 1**



**NOTES:**

- SEE JOB SPECIFIC SPECIFICATIONS FOR FULL REQUIREMENTS INCLUDING REPLACEMENT.
- JOINT REPAIR AND CONCRETE BASE REPAIR TO BE COMPLETED PRIOR TO PAVEMENT MILLING OPERATIONS.

**REPAIRS TO TRANSVERSE JOINTS DETAIL**  
NOT TO SCALE

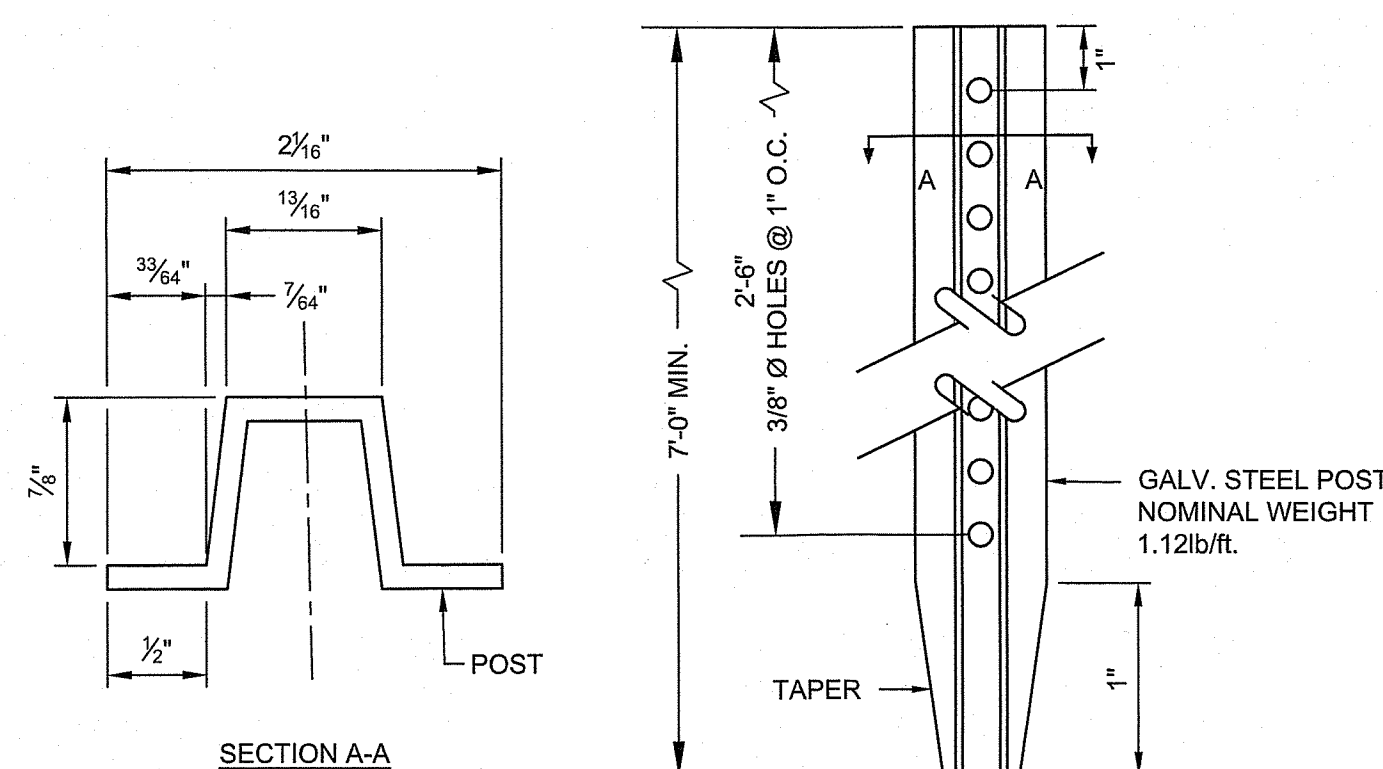


**SECTION THRU ROUNDABOUT**  
SCALE: 1"=1'

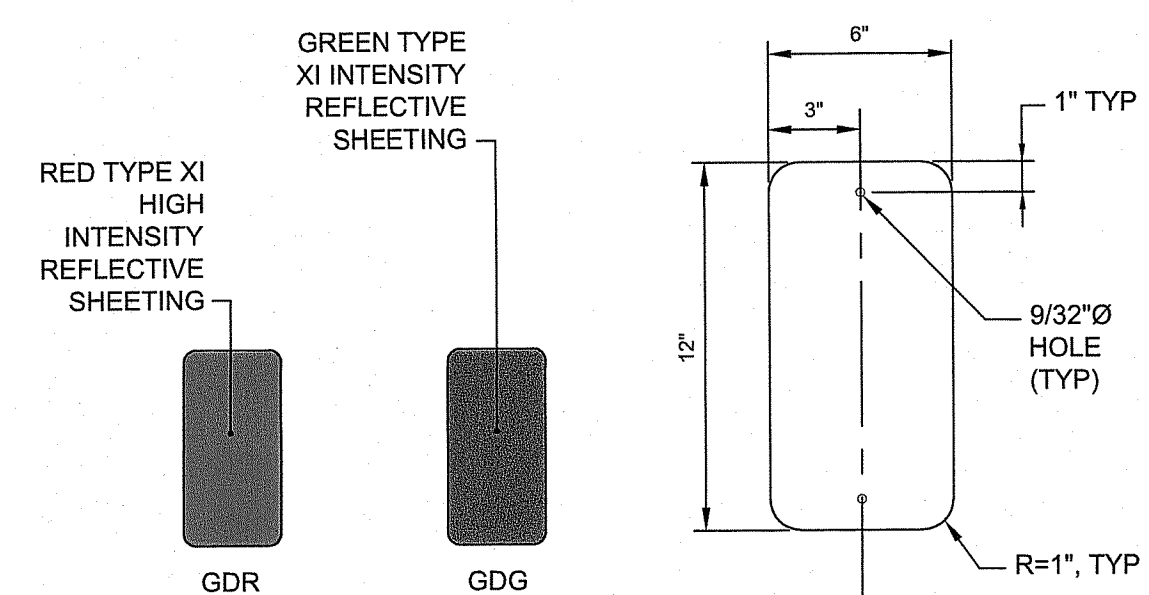
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OCT 04 2023  
Office of Water Resources

**NOTES:**

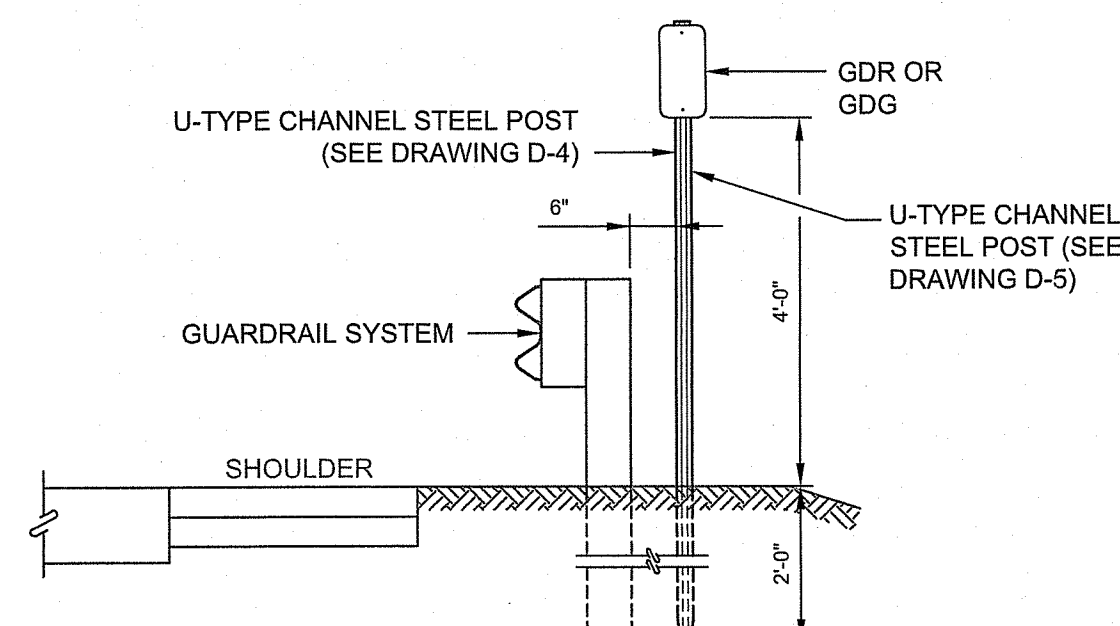
- GUARDRAIL END DELINEATORS GDR AND GDG SHALL BE USED TO MARK THE STARTS AND ENDS OF A LONGITUDINAL GUARDRAIL, AND SHALL BE INSTALLED IMMEDIATELY BEHIND GUARD RAIL TERMINAL ENDS (ALL TYPES) AS SHOWN ON THIS SHEET. THE HOLE SHALL BE THOROUGHLY PAINTED WITH TOUCH-UP GALVANIZING SPRAY PAINT PRIOR TO ATTACHING THE DELINEATOR POST.
- WHEN SOUND ROCK IS ENCOUNTERED BEFORE THE 2'-0" MINIMUM EMBEDDED DEPTH, POSTS SHALL BE SECURED A MINIMUM OF 12" INTO SOUND ROCK.
- INSTALLATION OF GUARDRAIL END DELINEATORS SHALL BE CONSIDERED INCIDENTAL TO INSTALLATION OF THE GUARDRAIL.



**LIGHT WEIGHT STEEL POST**  
NOT TO SCALE

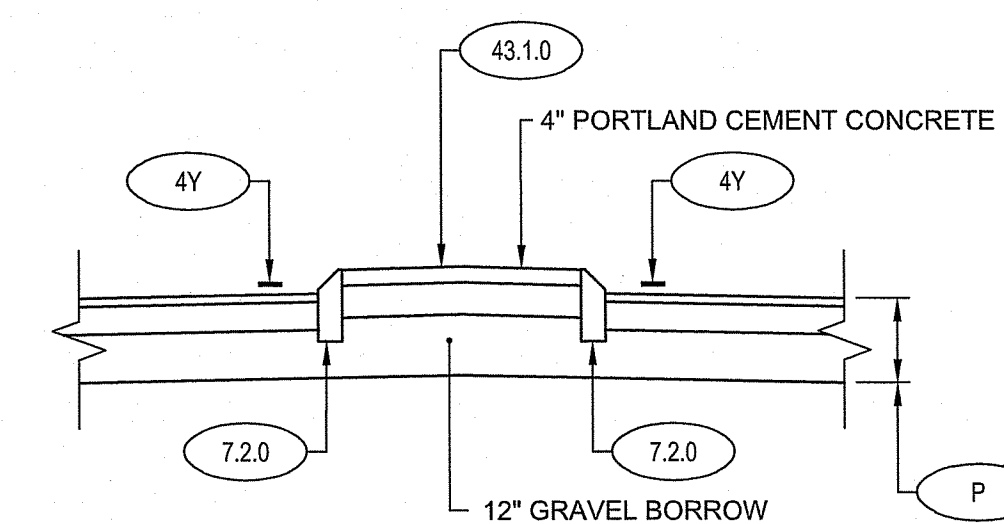


**DELINEATOR DETAIL**  
NOT TO SCALE



**TYPICAL SHOULDER SECTION**  
NOT TO SCALE

**GUARDRAIL END DELINEATOR DETAILS AND NOTES**



**TYPICAL TRAFFIC ISLAND DETAIL**  
SCALE: 1/4" = 1'-0"

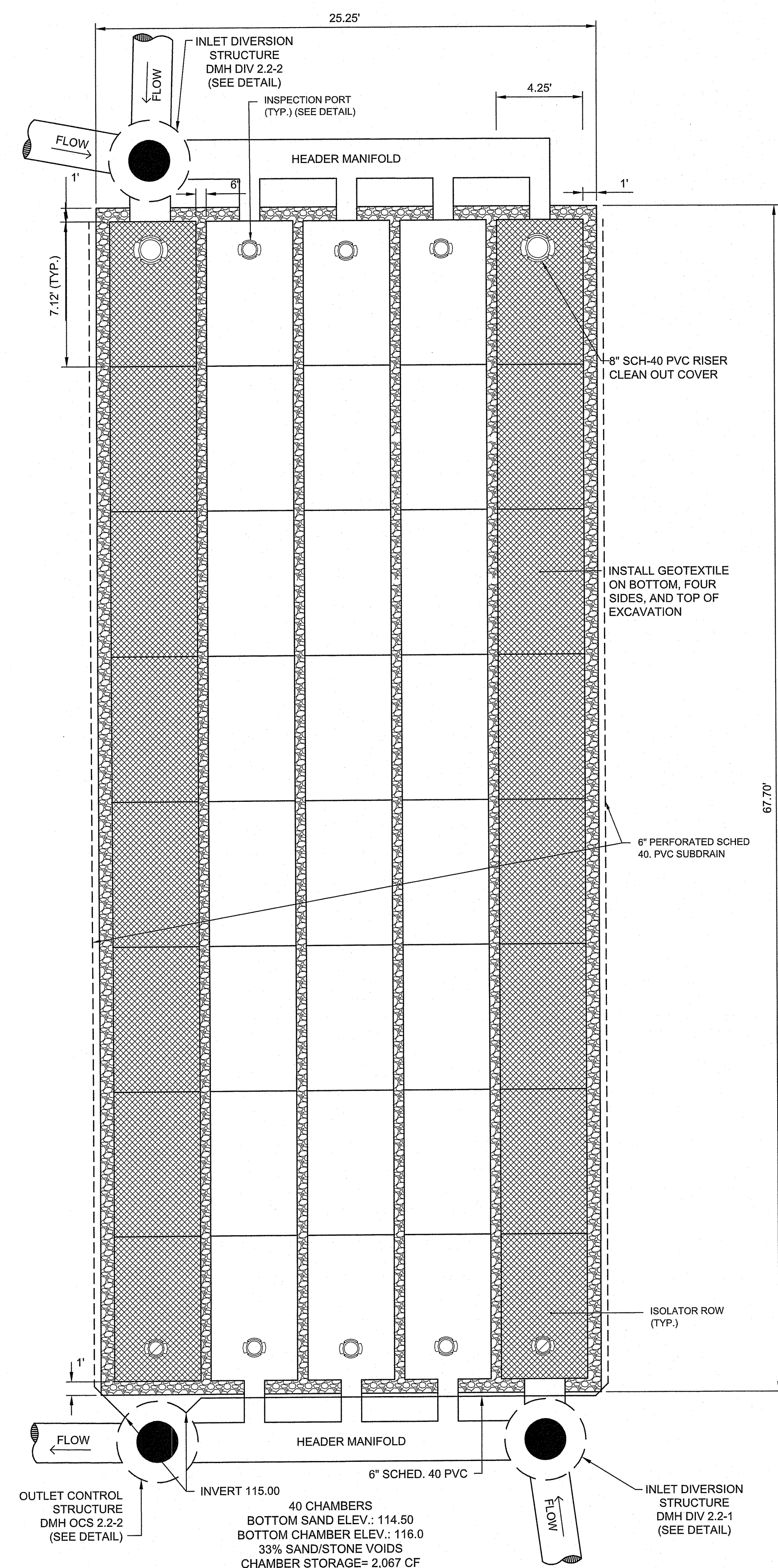
RI Environmental Management  
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: DEC 04 2023 FILE #: 23-0137  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Andy Chapman*

DESIGNED BY:	KJS
CHECKED BY:	KMD
DATE:	SEPT. 2023
SHEET:	20
OF:	123

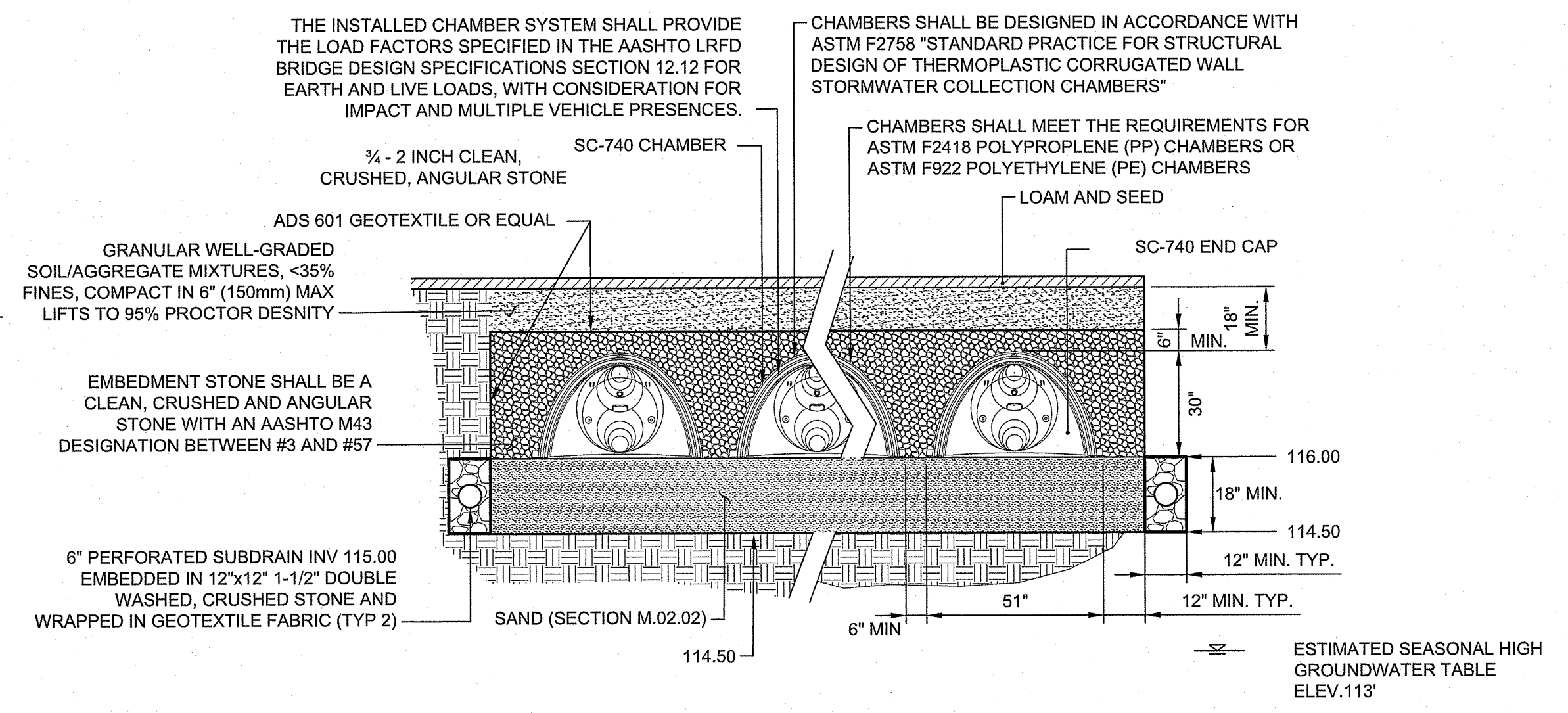
PAVEMENT IMPROVEMENTS – EAST MAIN RD		MIDDLETOWN & PORTSMOUTH		RHODE ISLAND	
<b>RIDEM DETAILS NO. 2</b>					



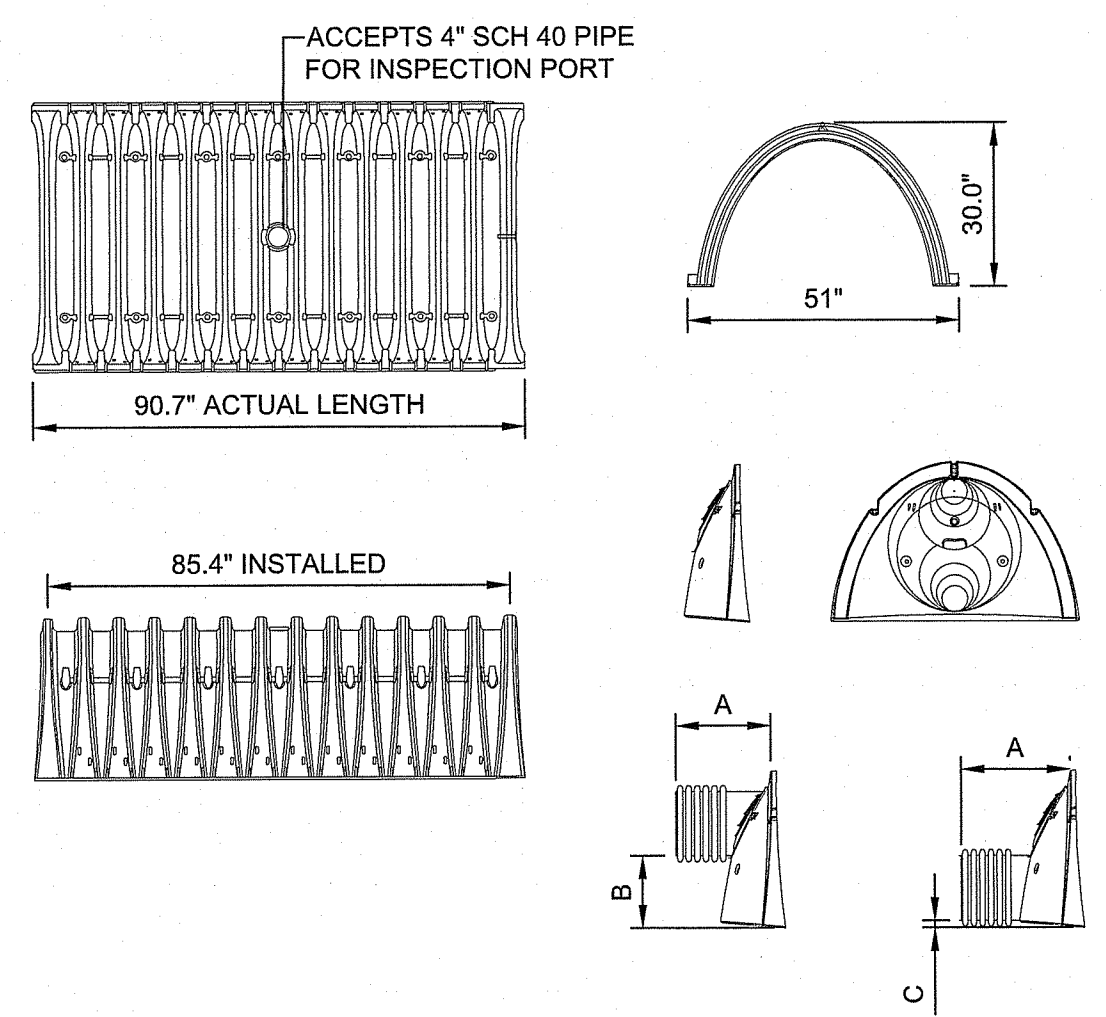
40 CHAMBERS  
 BOTTOM SAND ELEV.: 114.50  
 BOTTOM CHAMBER ELEV.: 116.0  
 33% SAND/STONE VOIDS  
 CHAMBER STORAGE= 2,067 CF  
 SAND/STONE STORAGE= 1,574 CF  
 TOTAL SYSTEM STORAGE (INCLUDING STONE VOIDS): 3,641 CF

**NOTE:**  
 HEADER MANIFOLD AND CHAMBER PIPING TO BE SIZED BY MANUFACTURER.

**UNDERGROUND SAND FILTER SYSTEM PLAN VIEW**  
 NOT TO SCALE

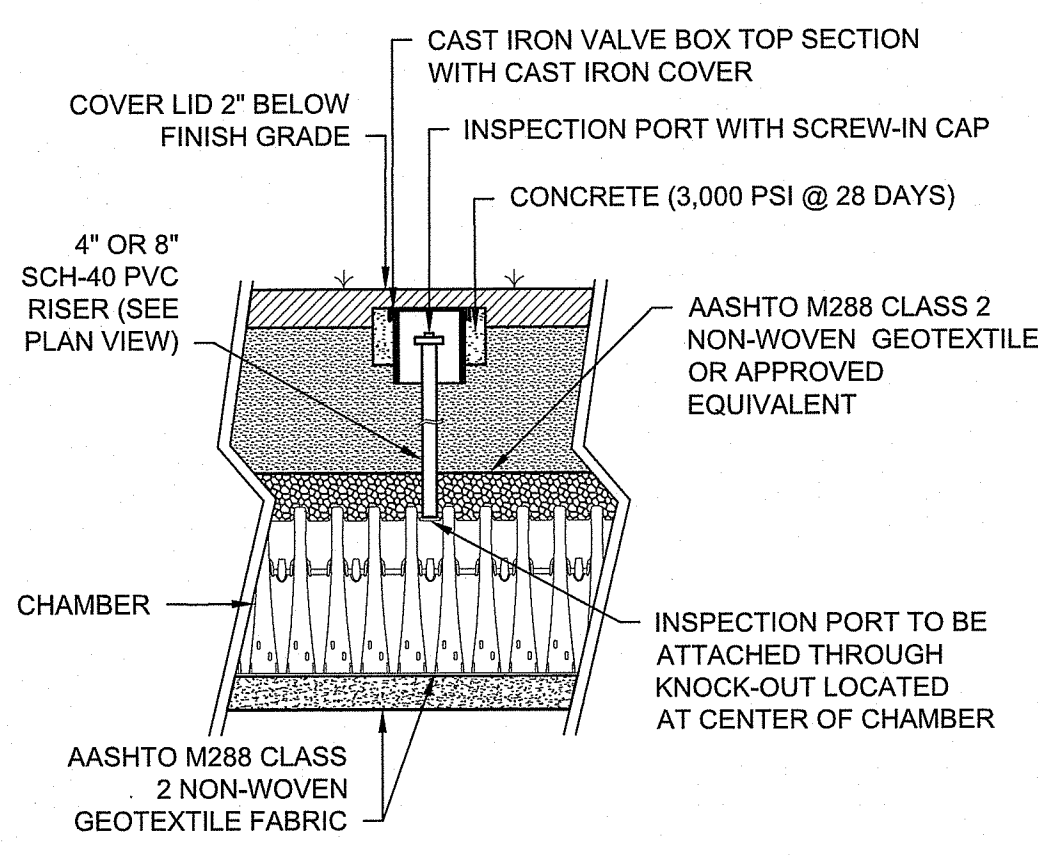


**STORMTECH SC-740 CROSS-SECTION DETAIL**  
 NOT TO SCALE

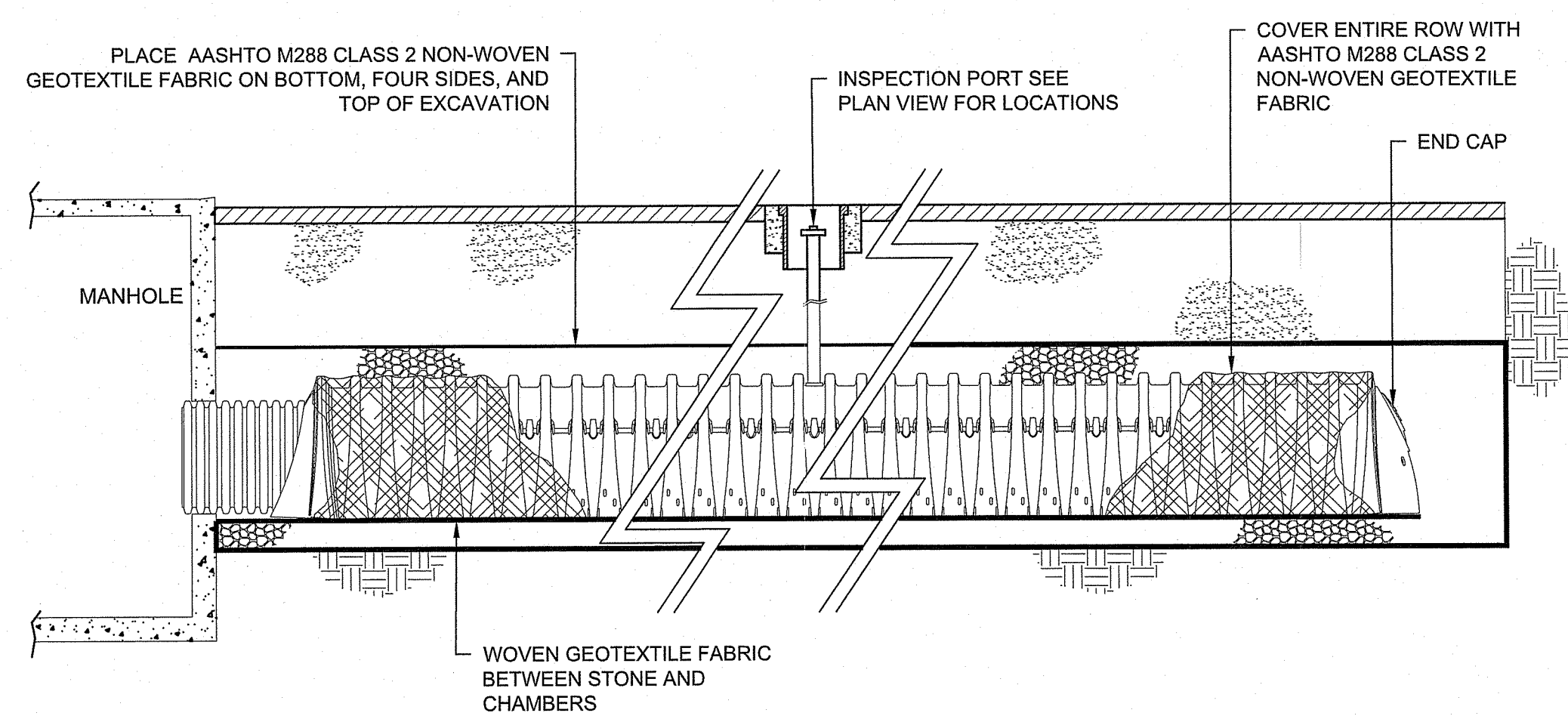


**NOMINAL CHAMBER SPECIFICATIONS**  
 SIZE (W x H x INSTALLED LENGTH) - 51.0" x 30.0" x 85.4"  
 CHAMBER STORAGE - 45.9 CUBIC FEET  
 MINIMUM INSTALLED STORAGE - 74.9 CUBIC FEET  
 WEIGHT - 75 LBS.

**STORMTECH SC-740 CHAMBER DETAIL**  
 NOT TO SCALE

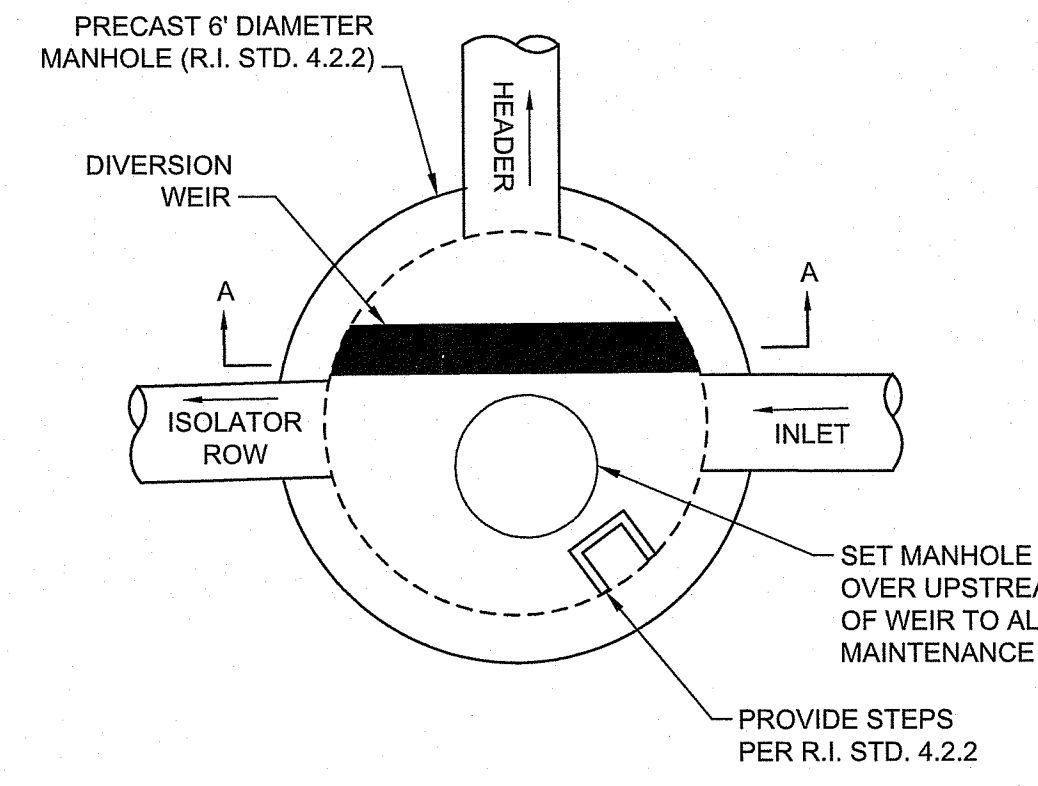


**INSPECTION PORT DETAIL**  
 NOT TO SCALE

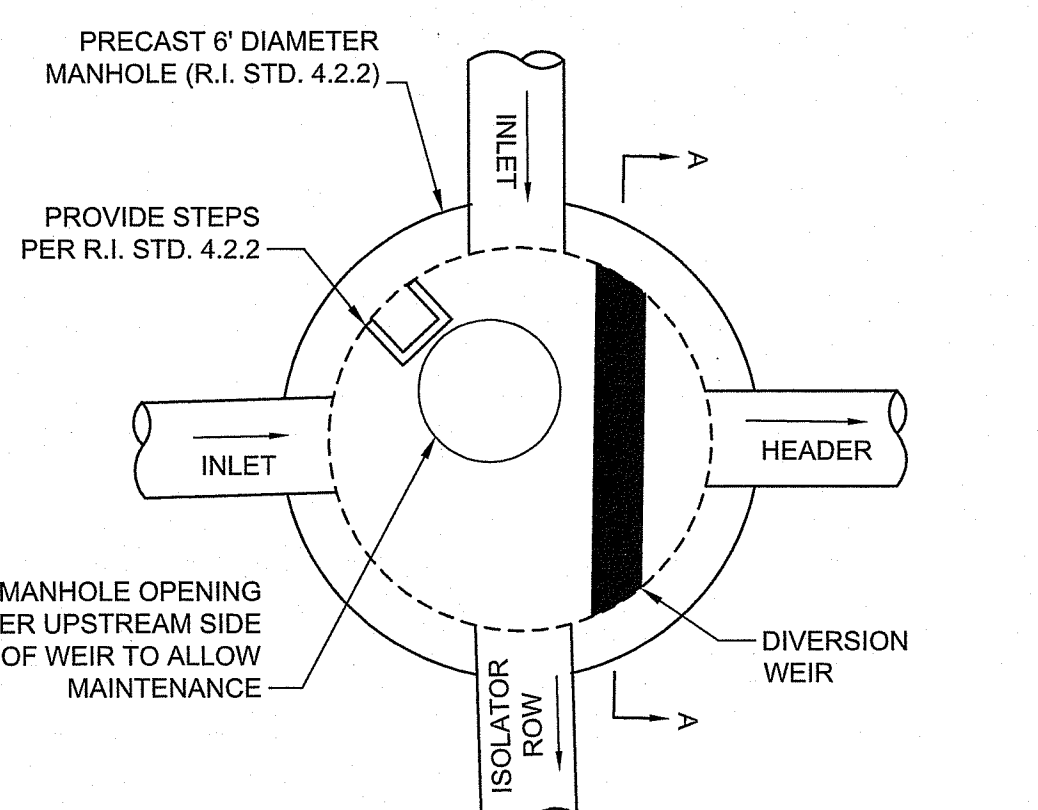


**NOTE:**  
 ISOLATOR ROW CONSTRUCTION IS THE SAME AS OTHER ROWS WITH THE EXCEPTION OF THE WOVEN AND NON-WOVEN GEOTEXTILES BEING PLACED AROUND AND BENEATH THE ROW RESPECTIVELY. SEE TYPICAL SECTION DETAIL.

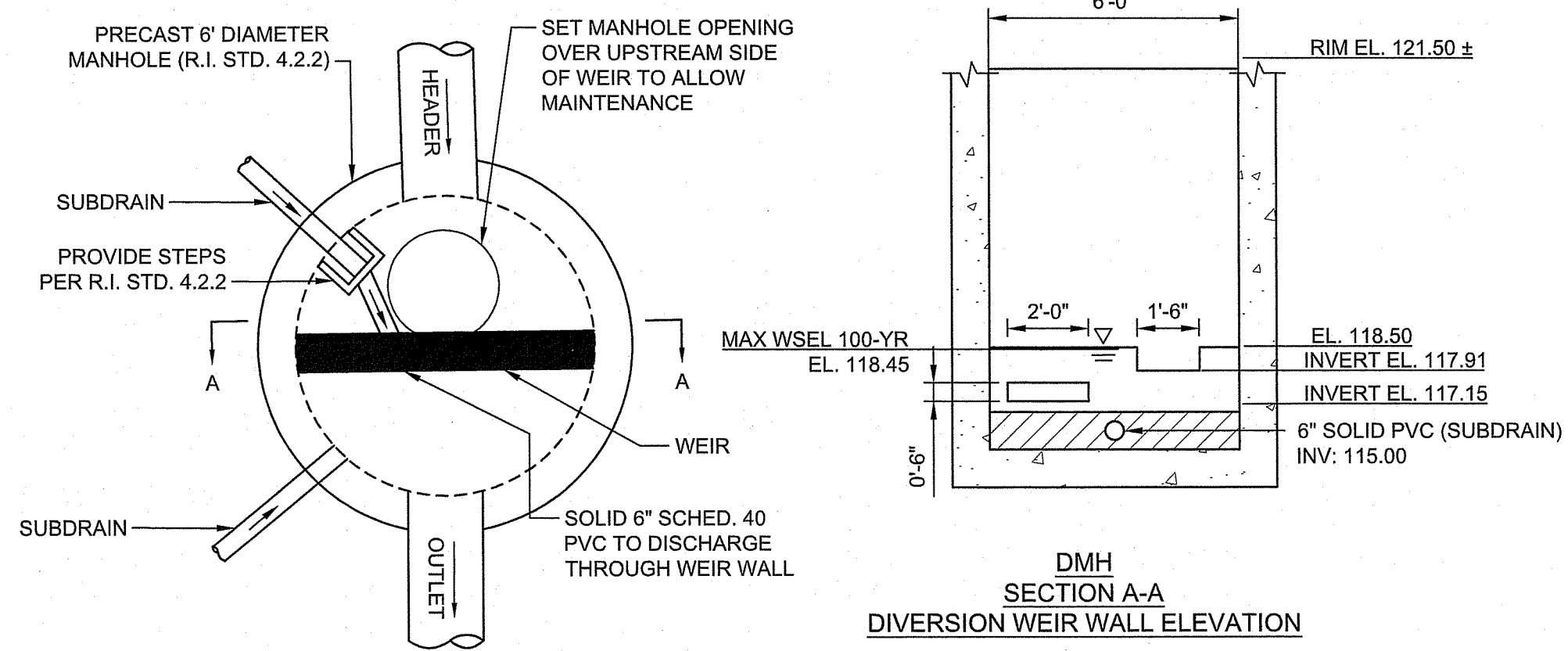
**ISOLATOR ROW DETAIL**  
 NOT TO SCALE



**DMH DIV 2.2-1 INLET DIVERSION STRUCTURE DETAIL**  
 NOT TO SCALE

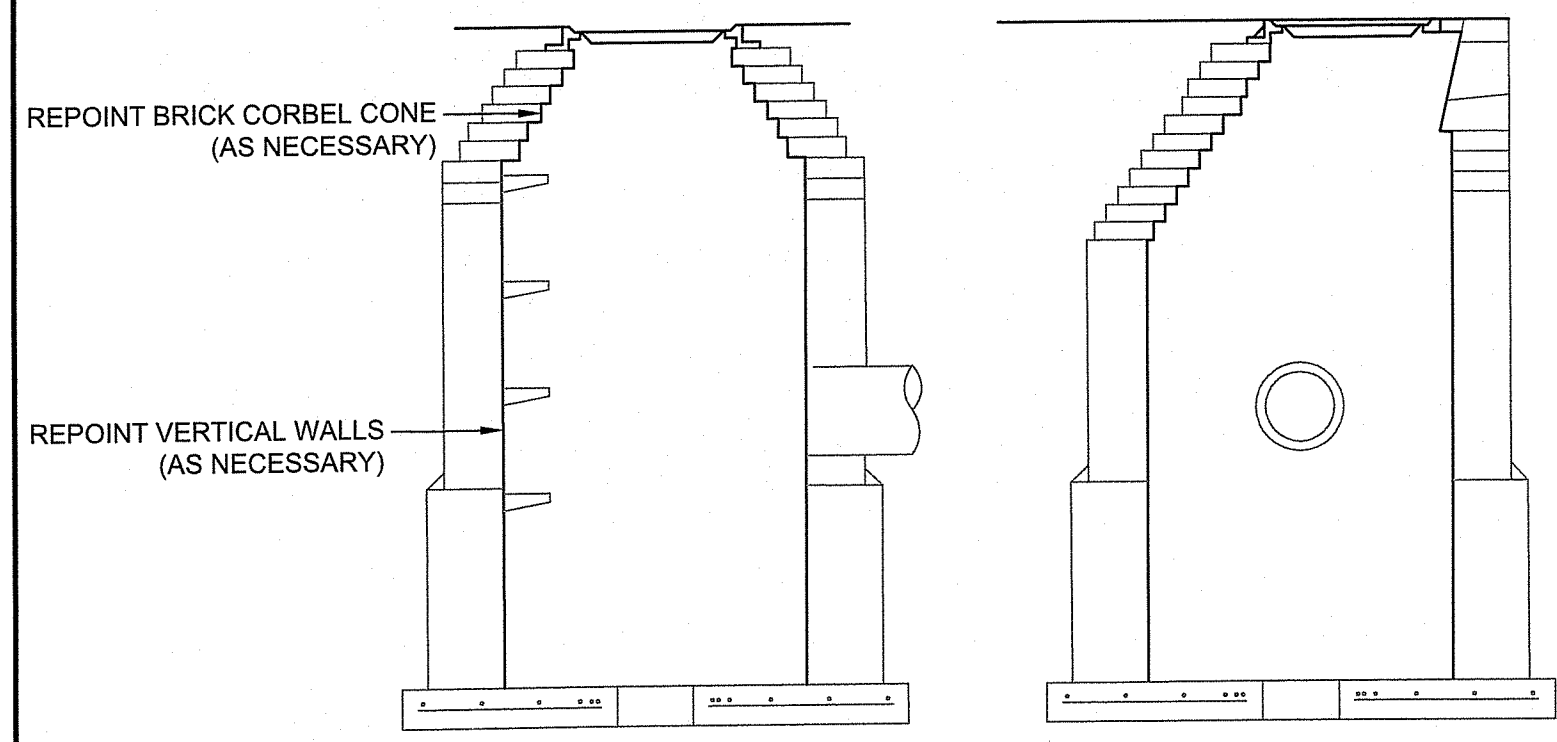
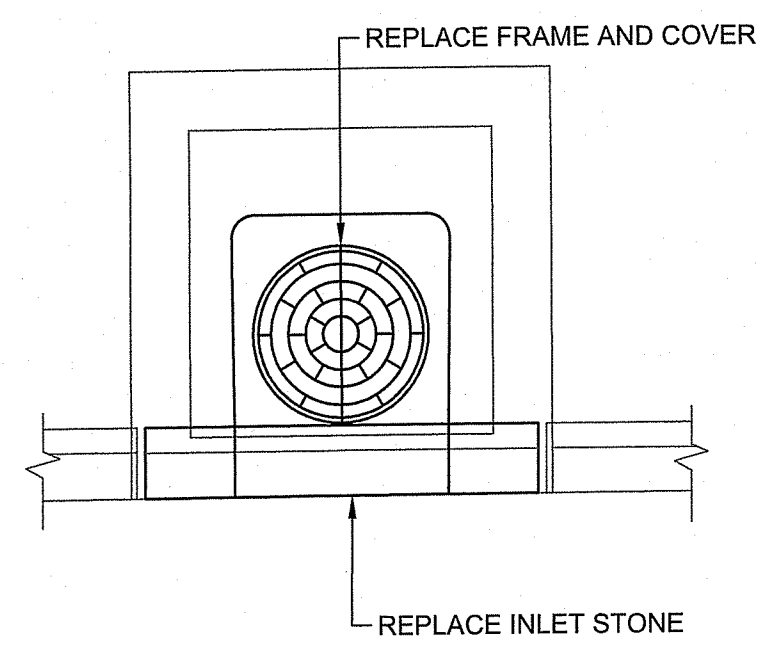


**DMH DIV 2.2-2 INLET DIVERSION STRUCTURE DETAIL**  
 NOT TO SCALE

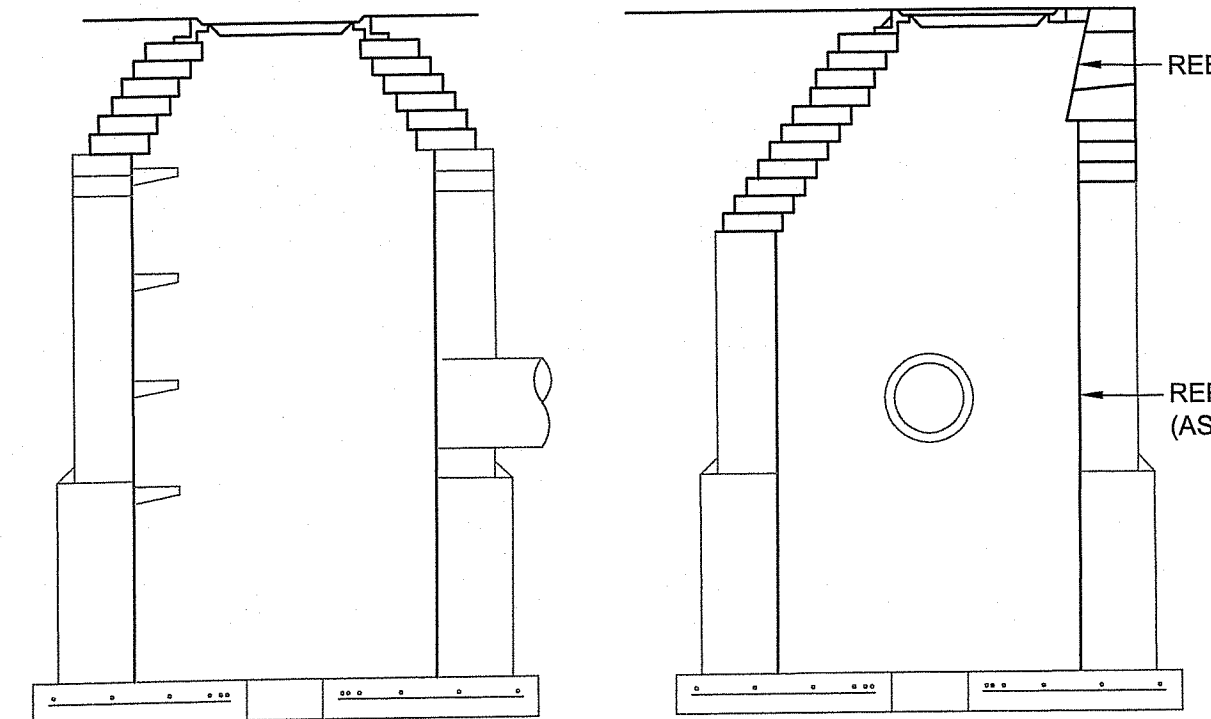
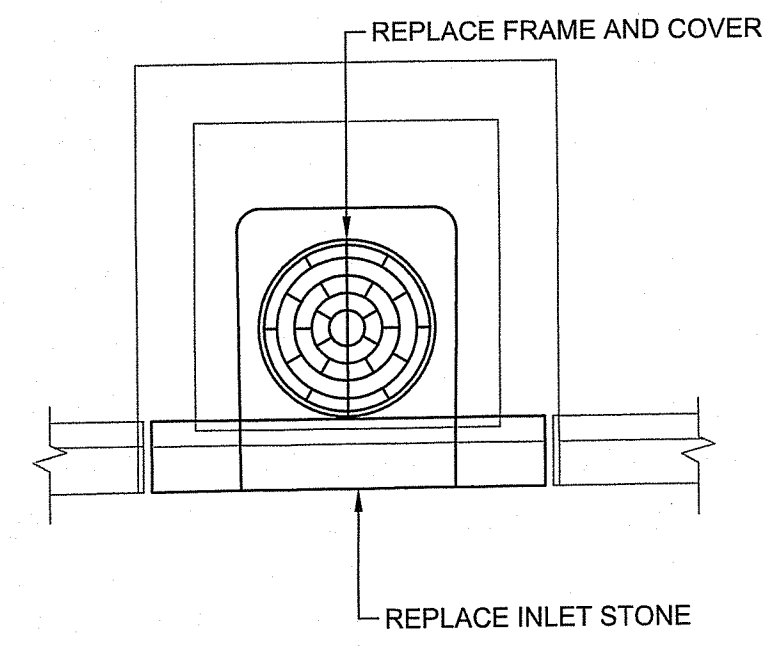


**DMH OCS 2.2-1 OUTLET CONTROL DETAIL**  
 NOT TO SCALE

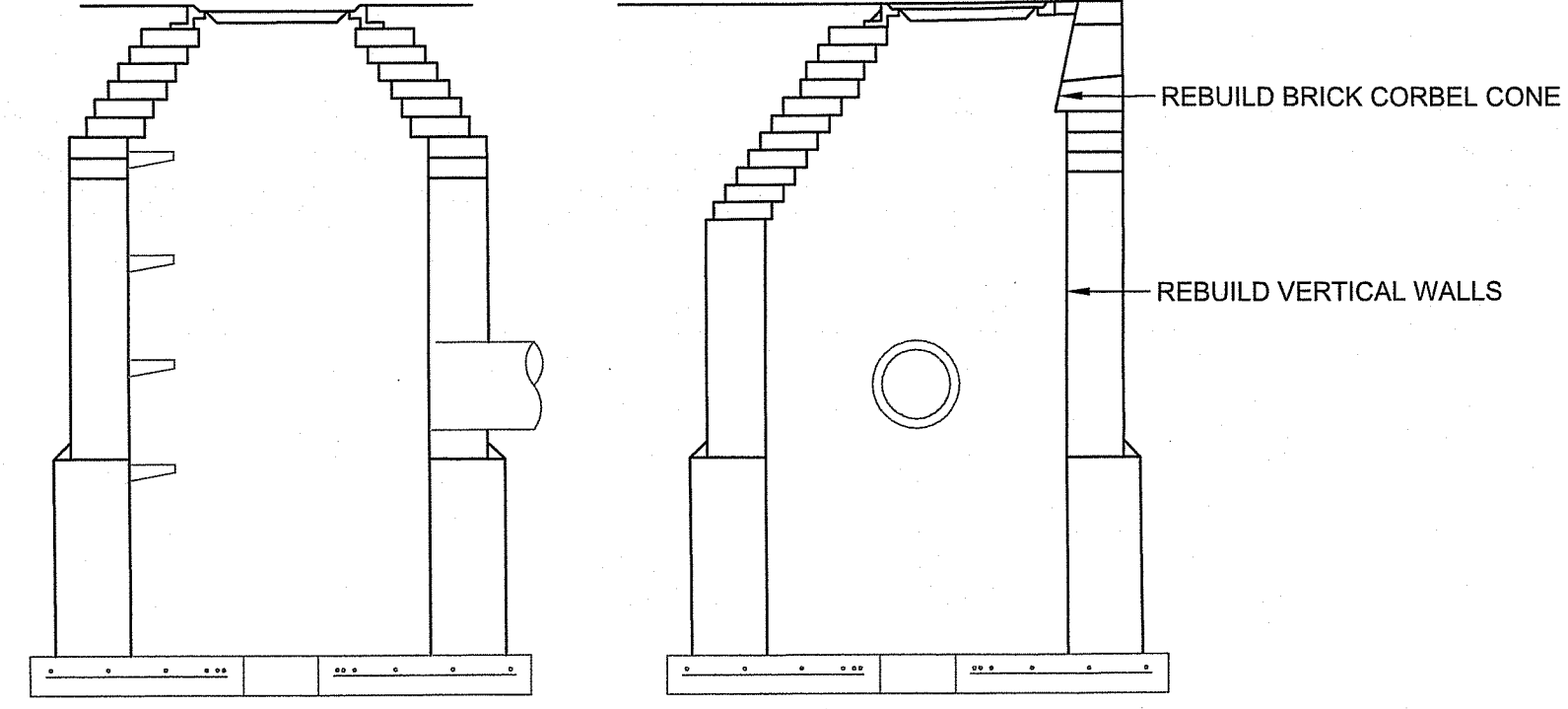
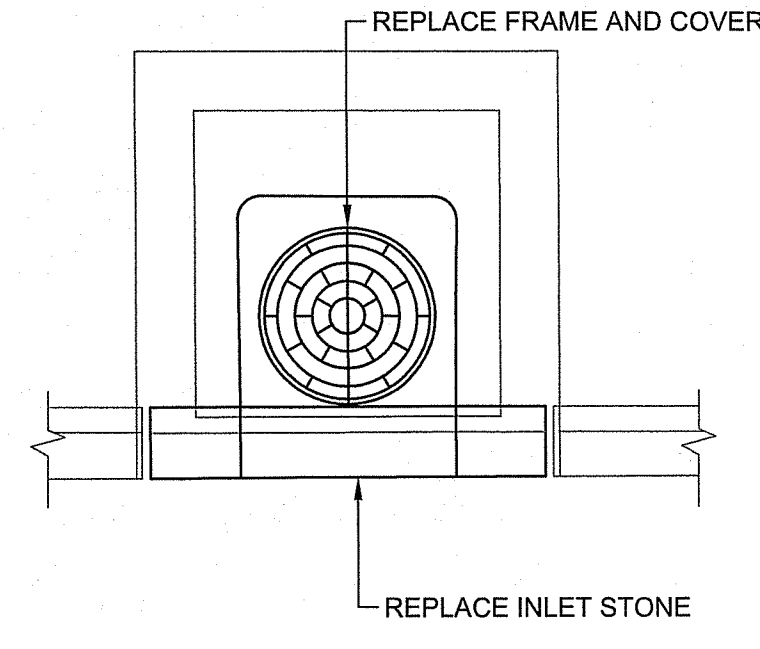
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: DEC 04 2023  
 NO CHANGES TO BE MADE AT CONSTRUCTION SITE  
 PAVEMENT IMPROVEMENTS - EAST MAIN RD  
 MIDDLETOWN & PORTSMOUTH  
 RHODE ISLAND  
 DETAILS NO. 3



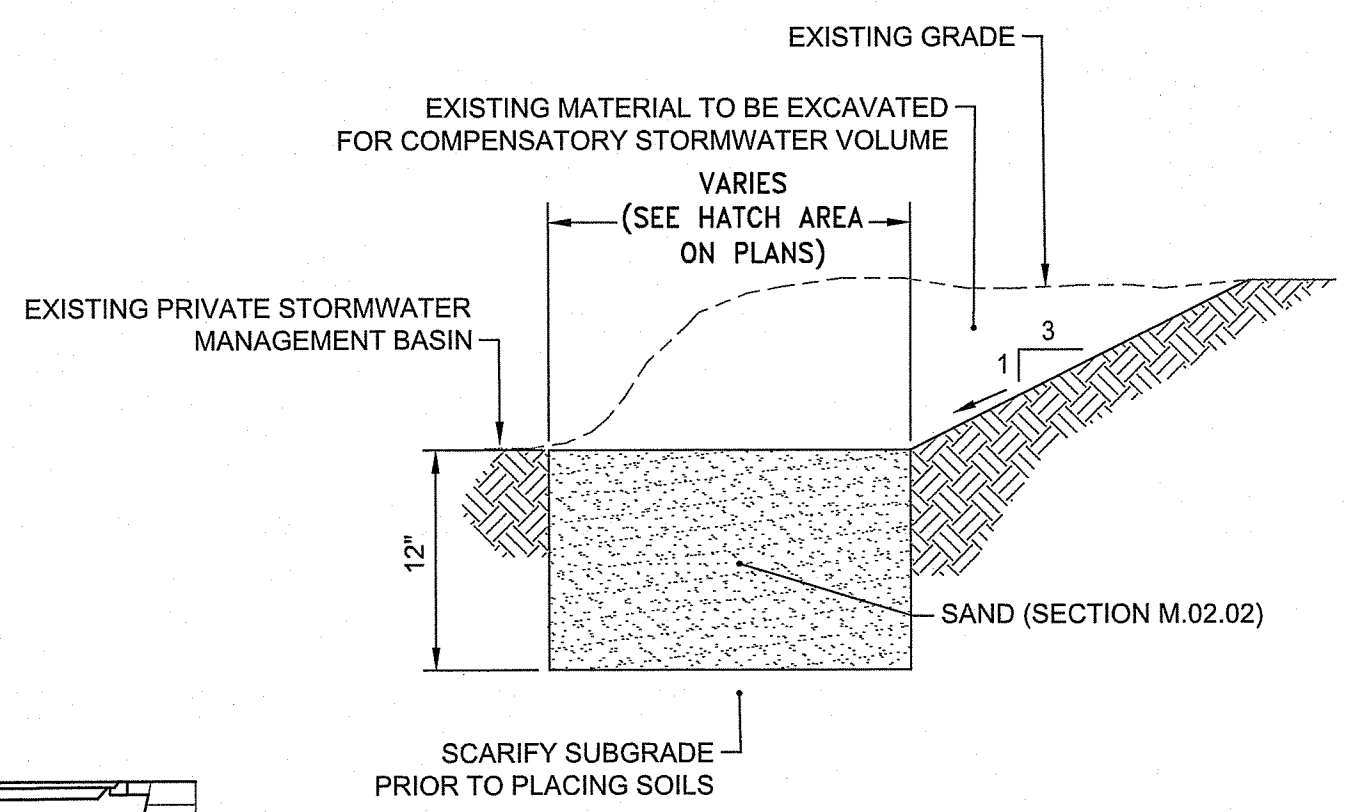
**DRAINAGE RECONSTRUCTION - TYPE 1**  
NOT TO SCALE



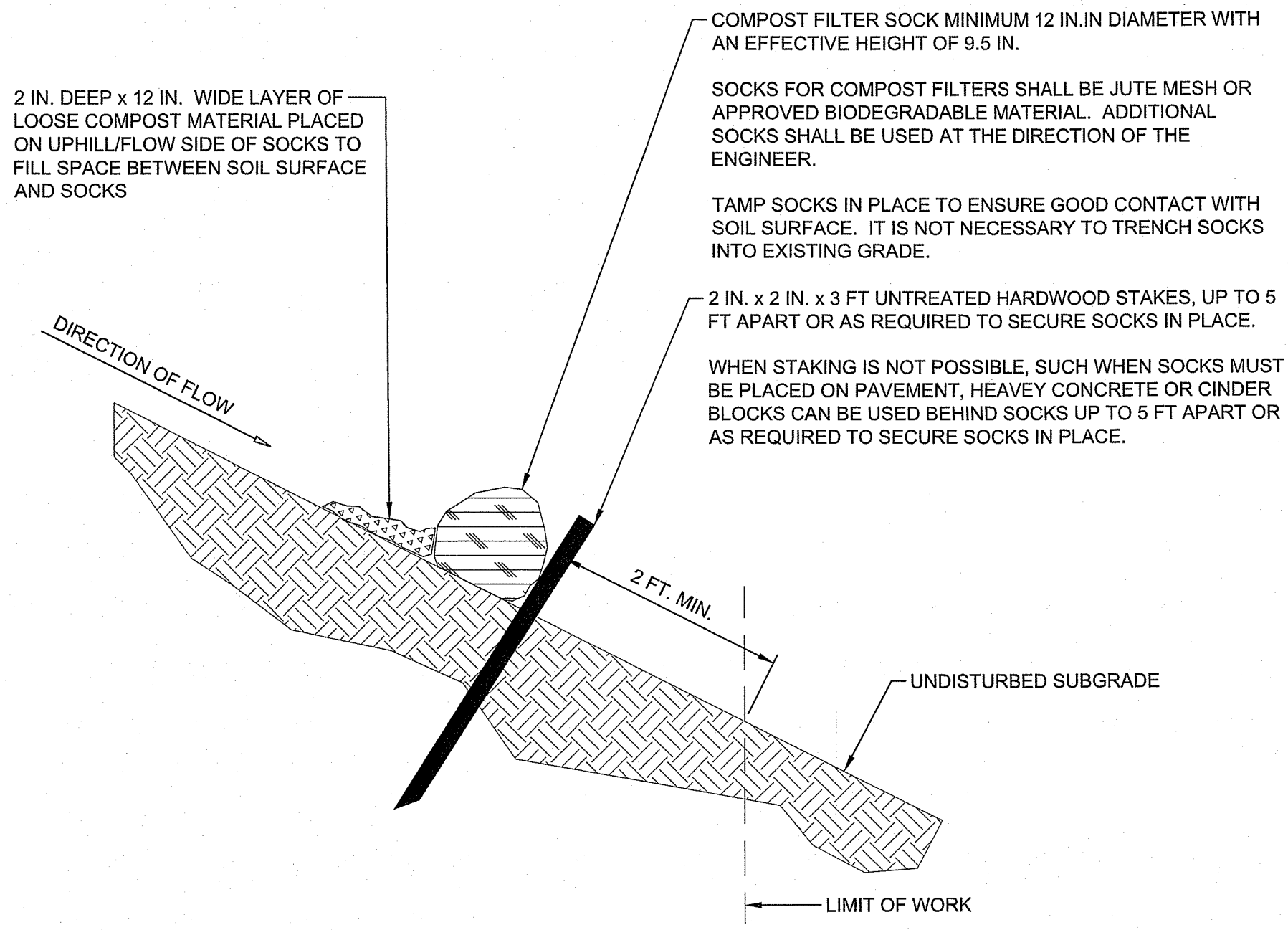
**DRAINAGE RECONSTRUCTION - TYPE 2**  
NOT TO SCALE



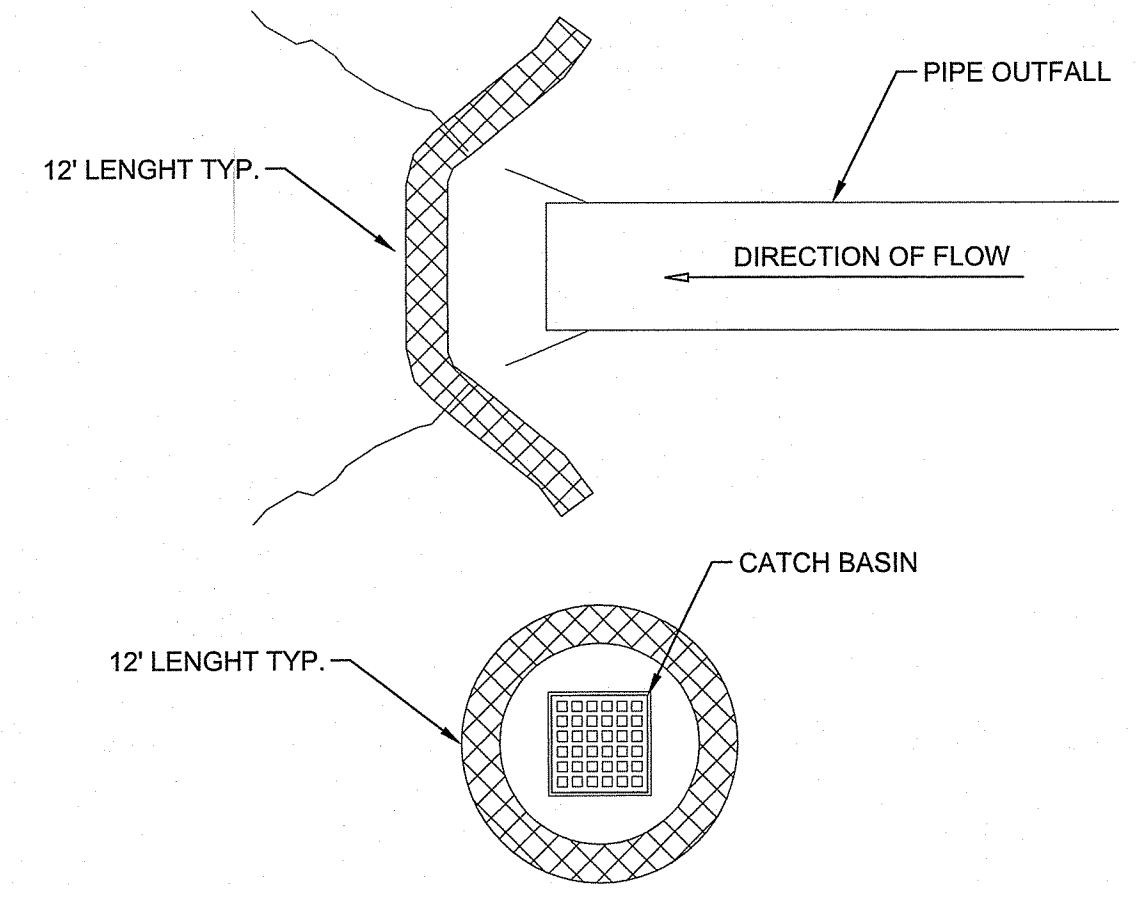
**DRAINAGE RECONSTRUCTION - TYPE 3**  
NOT TO SCALE



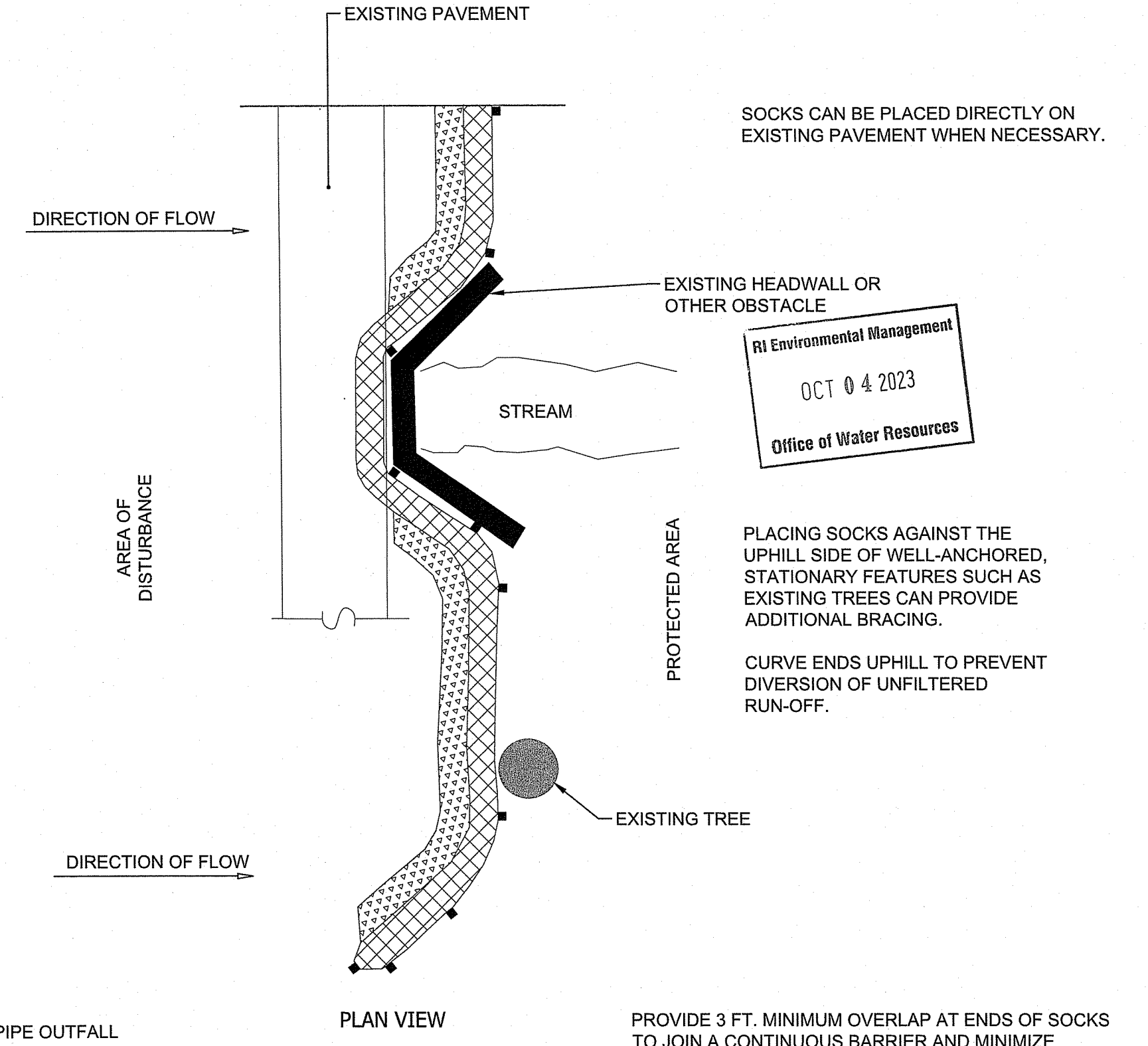
**BASIN MODIFICATION DETAIL**  
NOT TO SCALE



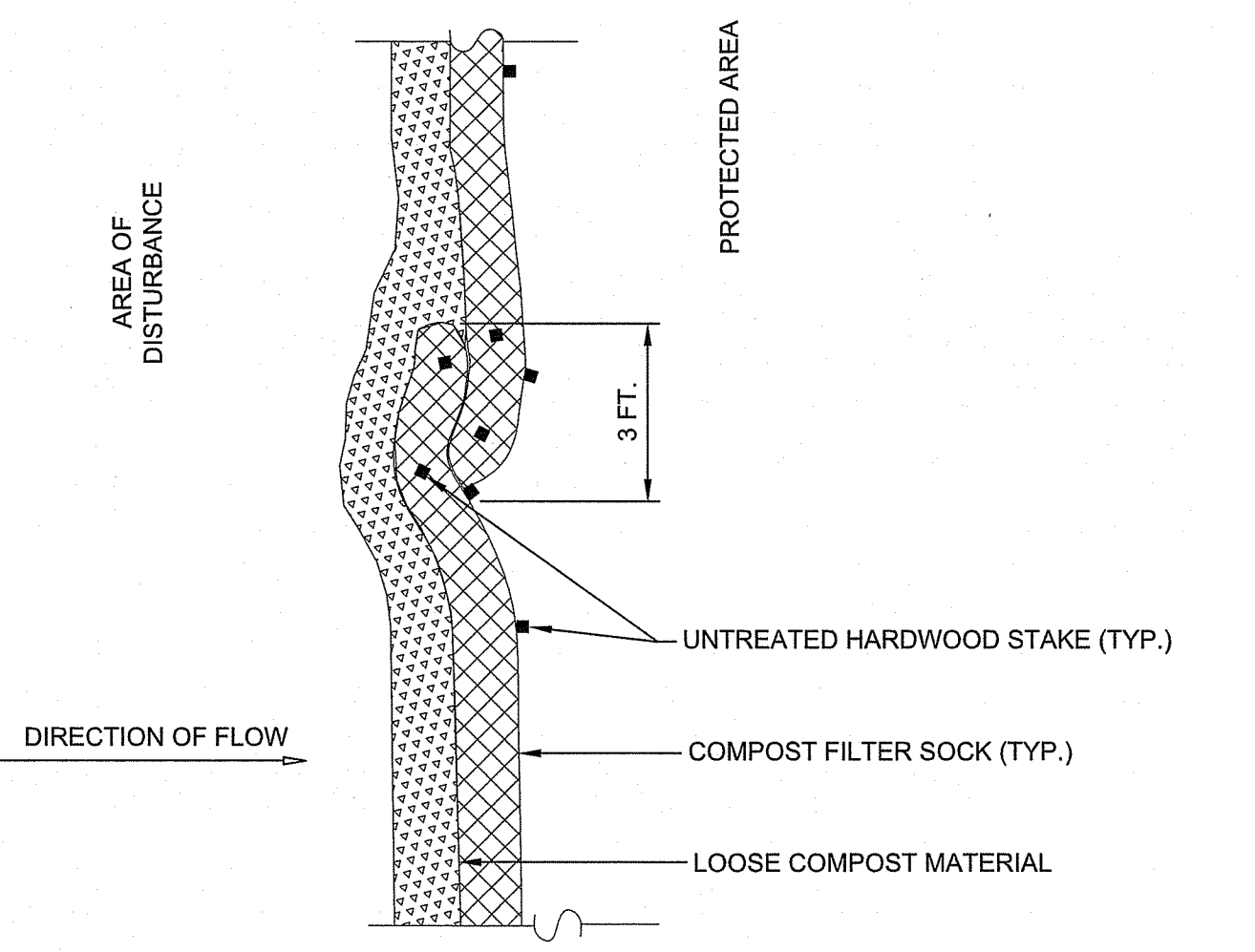
**COMPOST FILTER SOCK DETAIL**  
NOT TO SCALE



- NOTES:**
1. PROVIDE A MINIMUM SOCK DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER SOCK DIAMETER OR ADDITIONAL COURSING OF FILTER SOCKS TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
  2. INSTALL SOCKS ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
  3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
  4. CONFIGURE SOCKS AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.



**PLAN VIEW**



**PLAN VIEW - JOIN DETAIL**

SOCKS CAN BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.

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PLACING SOCKS AGAINST THE UPHILL SIDE OF WELL-ANCHORED, STATIONARY FEATURES SUCH AS EXISTING TREES CAN PROVIDE ADDITIONAL BRACING.  
CURVE ENDS UPHILL TO PREVENT DIVERSION OF UNFILTERED RUN-OFF.

PROVIDE 3 FT. MINIMUM OVERLAP AT ENDS OF SOCKS TO JOIN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING SOCKS SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.

SECURES ENDS OF SOCKS WITH STAKES SPACED 18 IN. APART THROUGH TOPS OF SOCKS.

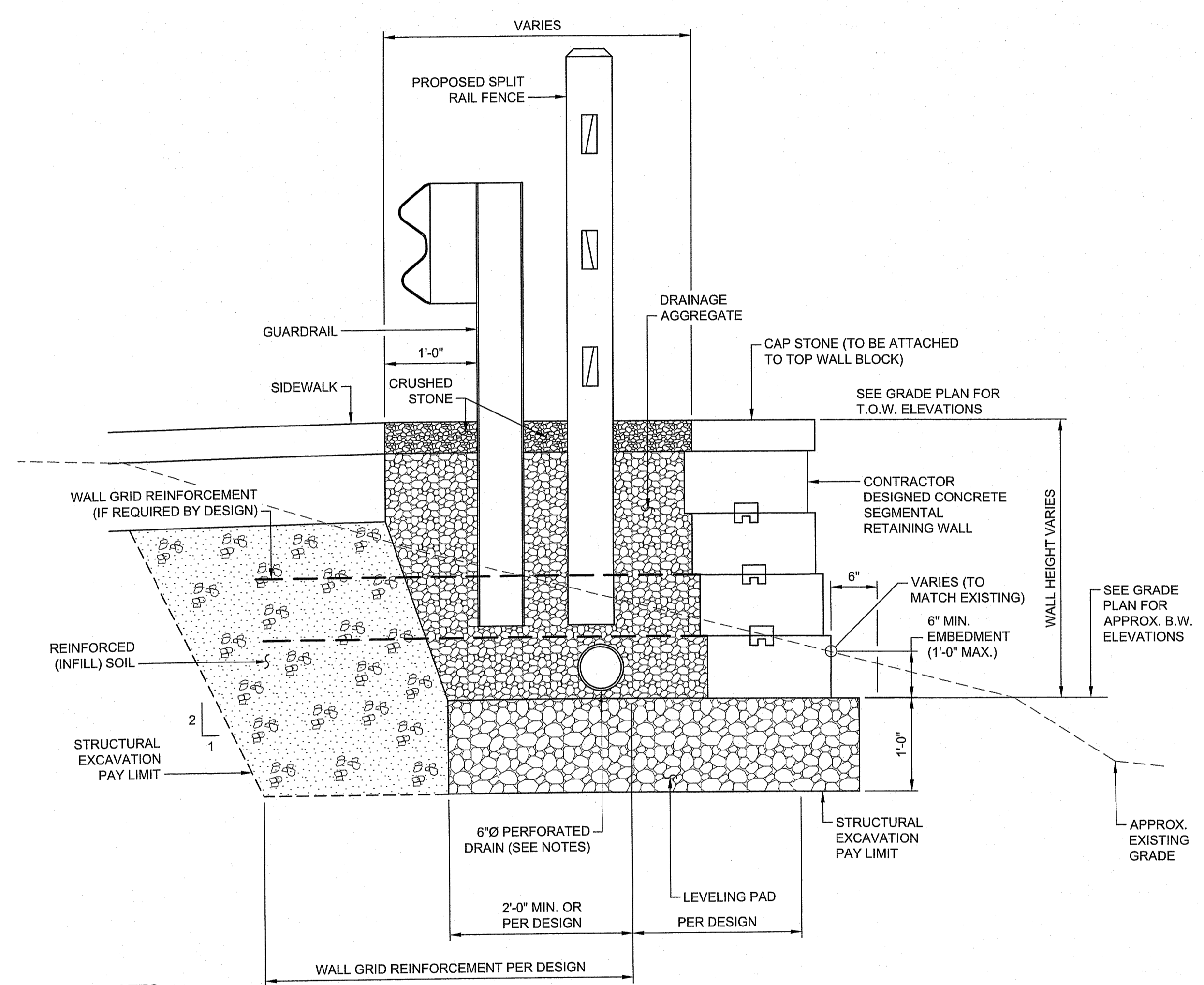
- NOTES:**
1. ALL TYPES OF CATCH BASINS AND DRAINAGE MANHOLES WITHIN THE PROJECT LIMITS SHALL BE CLEANED PRIOR TO THE START OF CONSTRUCTION. AS PART OF THE CLEANING OPERATION, STRUCTURES SHALL BE INSPECTED BY THE CONTRACTOR AND RESIDENT ENGINEER, AND THE APPROPRIATE RECONSTRUCTION TYPE SHALL BE SELECTED IN ACCORDANCE WITH THE RESPECTIVE BID ITEMS. WHEN IN THE JUDGMENT OF THE ENGINEER THE MASONRY SHOWS DETERIORATION, THE STRUCTURE SHALL BE REBUILT IN ACCORDANCE WITH THE RECONSTRUCTION TYPES. THE CASTING AND DETERIORATED MASONRY SHALL BE REMOVED IN A NEAT MANNER UNTIL A CLEAN SOUND BASE IS OBTAINED UPON WHICH CONCRETE BLOCKS AND CLAY BRICKS MAY BE SET TO REBUILD THE STRUCTURE. GRAVEL BORROW SHALL BE FURNISHED FOR BACKFILL WHERE REQUIRED WHEN EXCAVATED MATERIAL IS UNSUITABLE. THE CASTING SHALL BE SET TO LINE AND GRADE WITH A CONCRETE COLLAR AND SURFACED WITH A MINIMUM OF 3 IN. OF HOT MIX ASPHALT. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS LATEST EDITION.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: DEC 04 2023 FILE #: 23-0133  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Andy Clapton*

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
00	RI	XXXX-XXXX(001)	2023	23	24

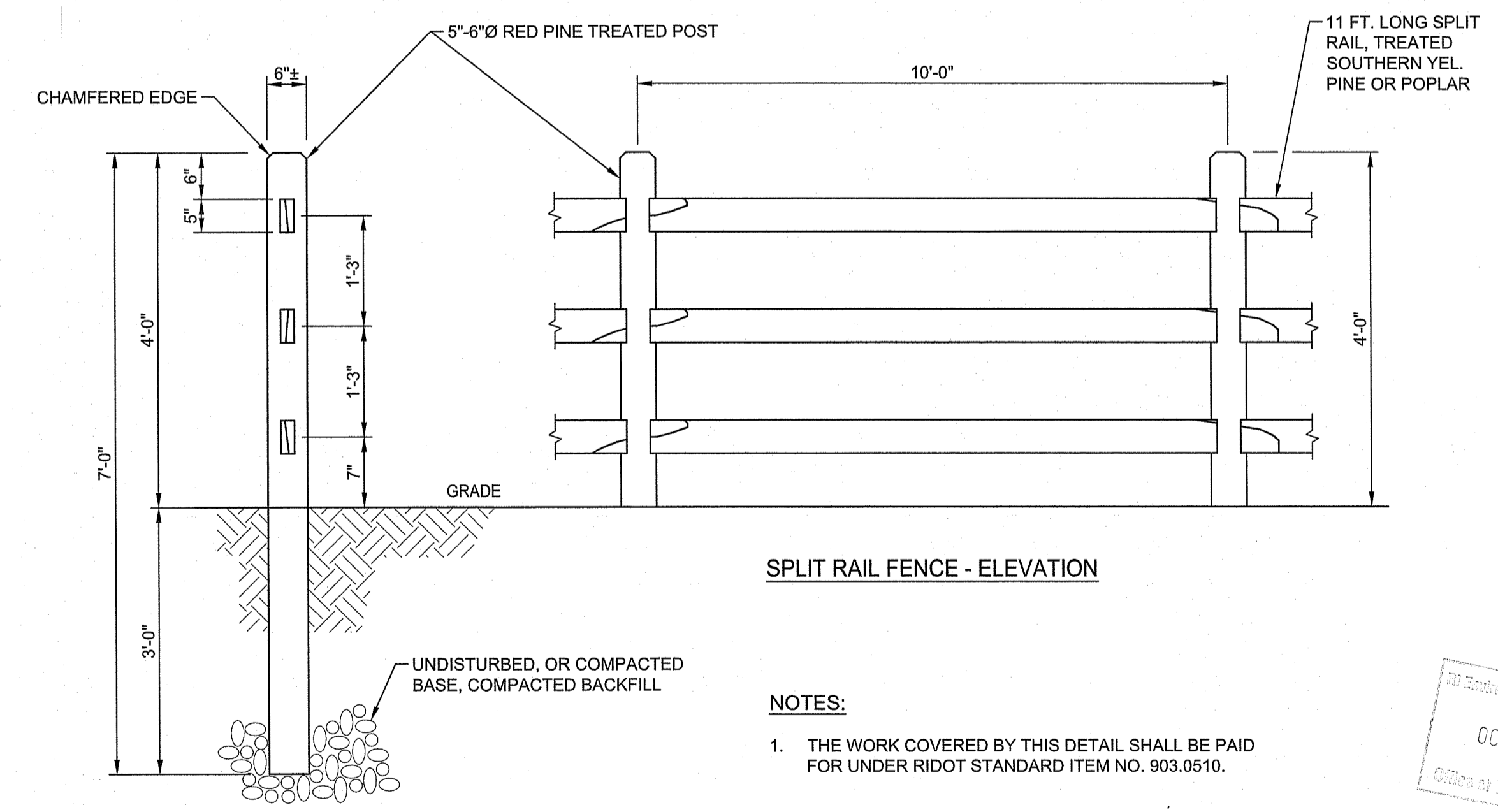
RI Environmental Management  
 OCT 04 2023  
 Office of Water Resources



**NOTES:**

1. SEGMENTAL RETAINING WALL WORK SHALL BE IN ACCORDANCE WITH THE JOB-SPECIFIC SPECIFICATION FOR 911.9901 "SEGMENTAL RETAINING WALL SYSTEM" AND PAID FOR UNDER ITEM CODE 911.9901.
2. EXCAVATION WILL BE PAID FOR UNDER ITEM CODE 203.0100.
3. THE WALL MANUFACTURER SHALL SUBMIT A DESIGN PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF RHODE ISLAND AS PART OF THE SHOP DRAWING PROCESS.
4. THE WALL DESIGN SHALL INCORPORATE THE PROPOSED FENCE EMBEDMENTS.
5. THE WALL DESIGN SHALL INCORPORATE UTILITY PENETRATIONS AND UTILITIES RUNNING PARALLEL TO OR UNDER THE WALL.
6. WALL DRAINS SHALL OUTLET AT THE ENDS OF THE WALL OR PER MANUFACTURER'S RECOMMENDATIONS.
7. SOIL INFORMATION AT THE SITE IS UNKNOWN. TEST PITS FOR LOCATING UTILITIES AND DRAINAGE STRUCTURES AND FOR DETERMINING SOIL CONDITIONS FOR THE PURPOSES OF DESIGNING THE WALL, SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND JOB SPECIFIC SPECIFICATION 911.9901 - "SEGMENTAL RETAINING WALL".
8. BOTTOM OF WALL AND TOP OF WALL ELEVATIONS AS SHOWN ON THE GRADE PLANS ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL WALL DIMENSIONS TO PROVIDE THE REQUIRED TOP OF WALL ELEVATIONS AND EMBEDMENTS AT THE FRONT FACE.

SRW SEGMENTAL RETAINING WALL DETAIL  
 NOT TO SCALE



**NOTES:**

1. THE WORK COVERED BY THIS DETAIL SHALL BE PAID FOR UNDER RIDOT STANDARD ITEM NO. 903.0510.

SRF SPLIT RAIL FENCE  
 NOT TO SCALE

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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: DEC 04 2023 23 0133  
 NO CHANGES TO THE ORIGINAL APPROVAL  
 APPROVAL SITE

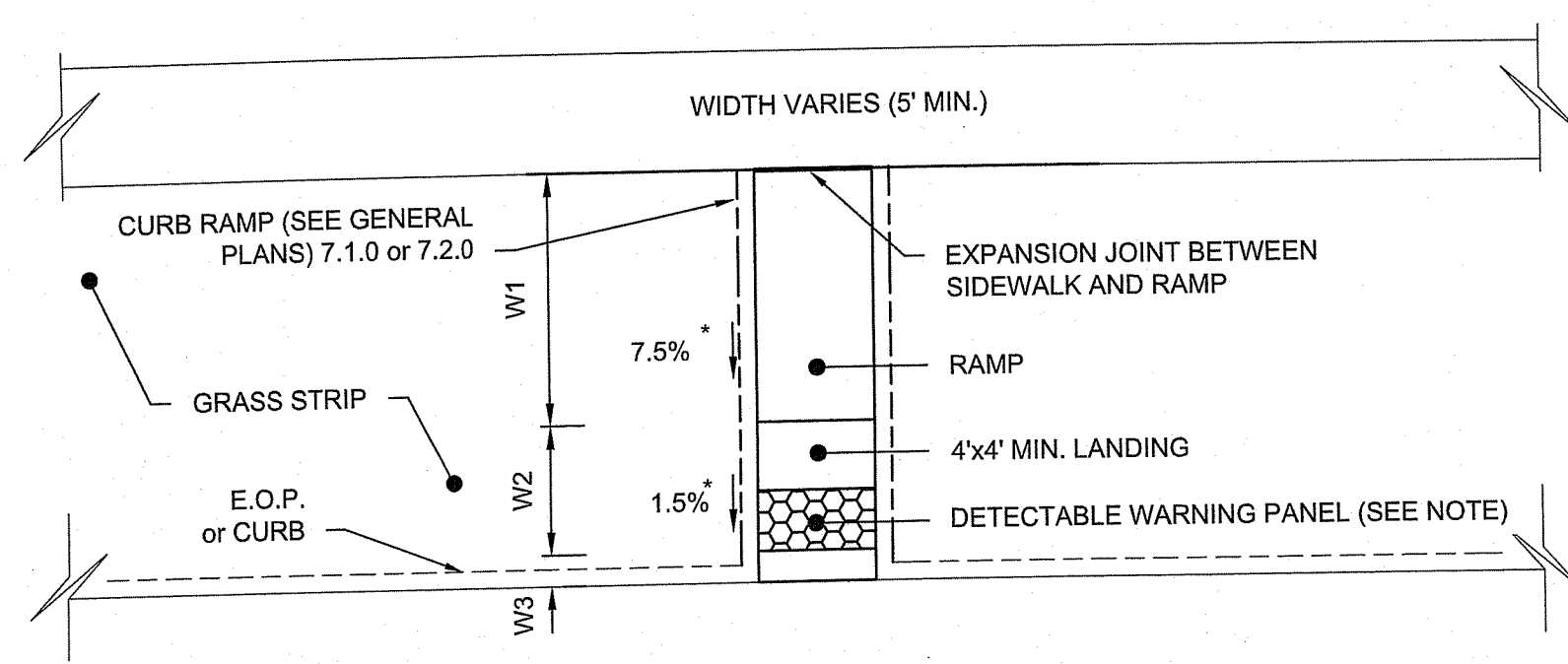
**PARE CORPORATION**  
 ENGINEERS - SCIENTISTS - PLANNERS  
 8 BLACKSTONE VALLEY PLACE  
 LINCOLN, RI 02865  
 401-334-4100

**RI DOT** RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DESIGNED BY:	KJS
CHECKED BY:	KMD
DATE:	SEPT. 2023
SHEET:	23
OF:	123

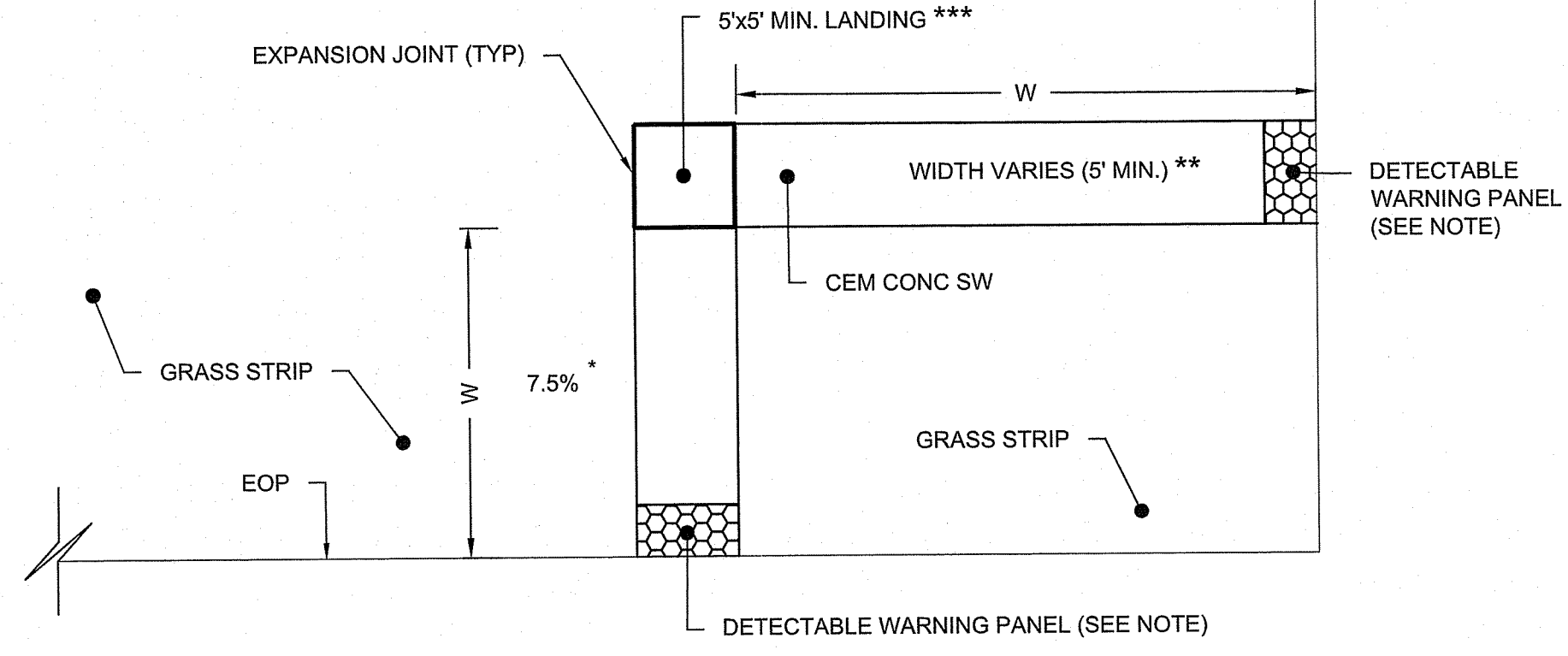
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - EAST MAIN RD  
 MIDDLETOWN & PORTSMOUTH  
 RHODE ISLAND  
 RIDEM DETAILS NO. 5



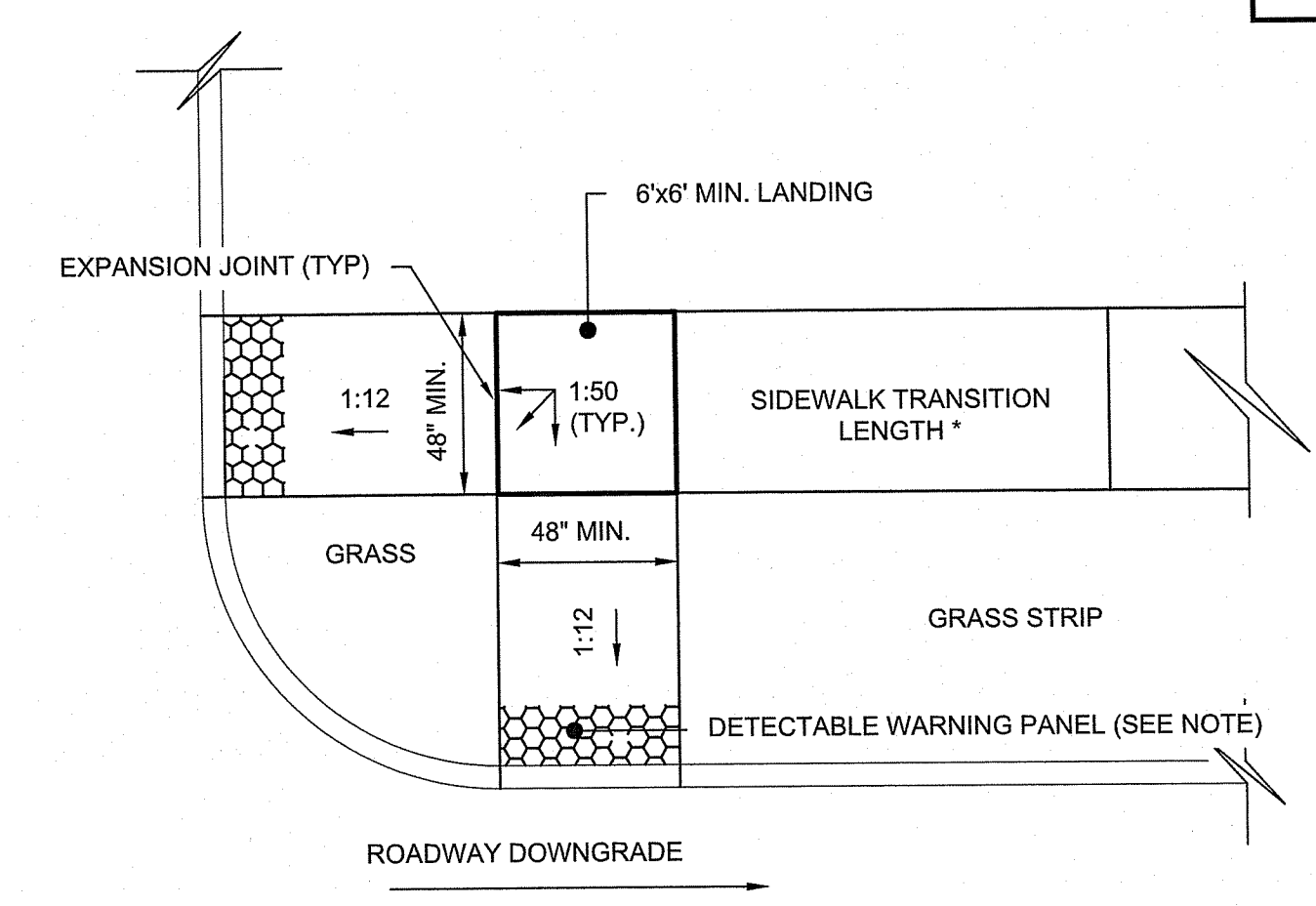
**NOTES:**  
W-1: LENGTH OF LANDING (4' MIN)  
W-2: LENGTH OF PRIMARY RAMP (2' MIN)  
W-3: DETECTABLE WARNING PANELS 0.5' MIN FROM EDGE OF PAVEMENT  
DETECTABLE WARNING PANELS ARE REQUIRED TO BE CONSTRUCTED ON ALL PROPOSED PEDESTRIAN CURB RAMPS AND ARE TO BE INSTALLED IN ACCORDANCE WITH RIDOT CONSTRUCTION STANDARD 48.1.0

43.3.1M1 WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - TYPE 1 NOT TO SCALE



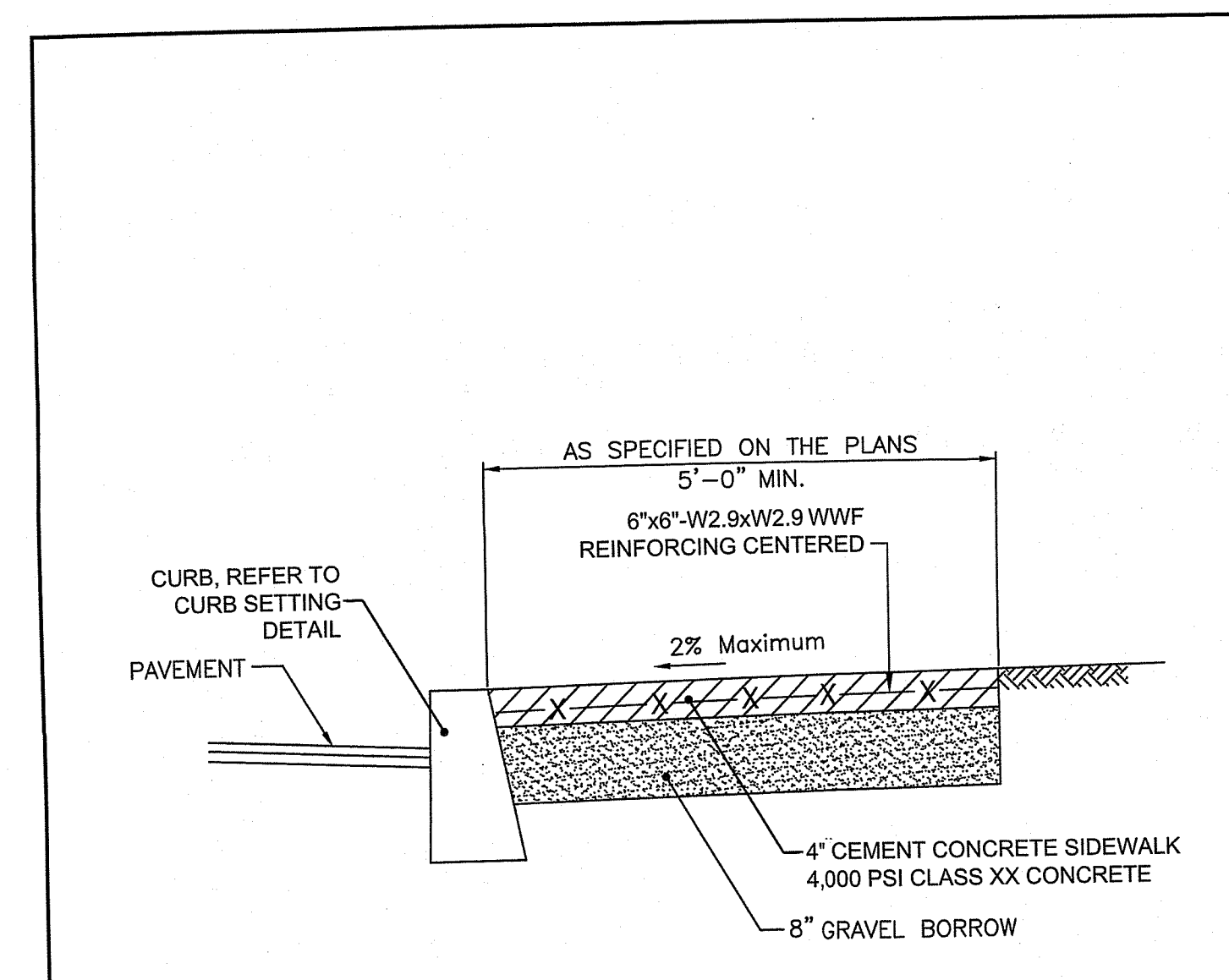
**NOTE:**  
DETECTABLE WARNING PANELS ARE REQUIRED TO BE CONSTRUCTED ON ALL PROPOSED PEDESTRIAN CURB RAMPS AND ARE TO BE INSTALLED IN ACCORDANCE WITH RIDOT CONSTRUCTION STANDARD.

43.3.1M2 WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - TYPE 2 NOT TO SCALE



\* TRANSITION SIDEWALK LENGTH PER RIDOT STANDARD 43.3.0 ROADWAY PROFILE GRADE

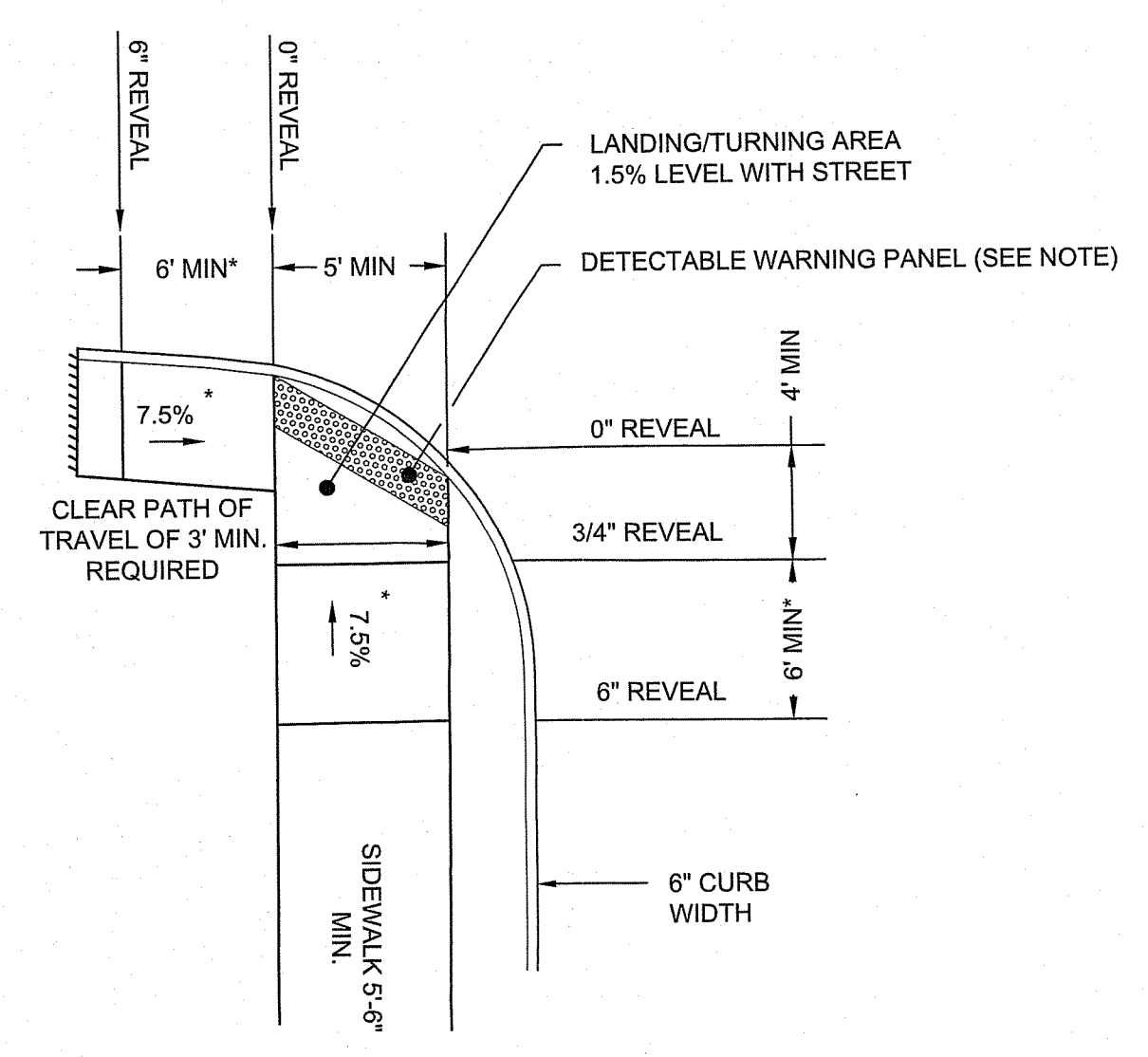
43.3.1M3 WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - TYPE 3 NOT TO SCALE



**NOTES**  
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.  
2. 6" x 6" - W2.9 x W2.9 WELDED WIRE FABRIC REINFORCING SHALL BE IN ACCORDANCE WITH SECTION M.05.02 OF THE R.I. STANDARD SPECIFICATIONS.  
3. PROVIDE MEDIUM BROOM FINISH.

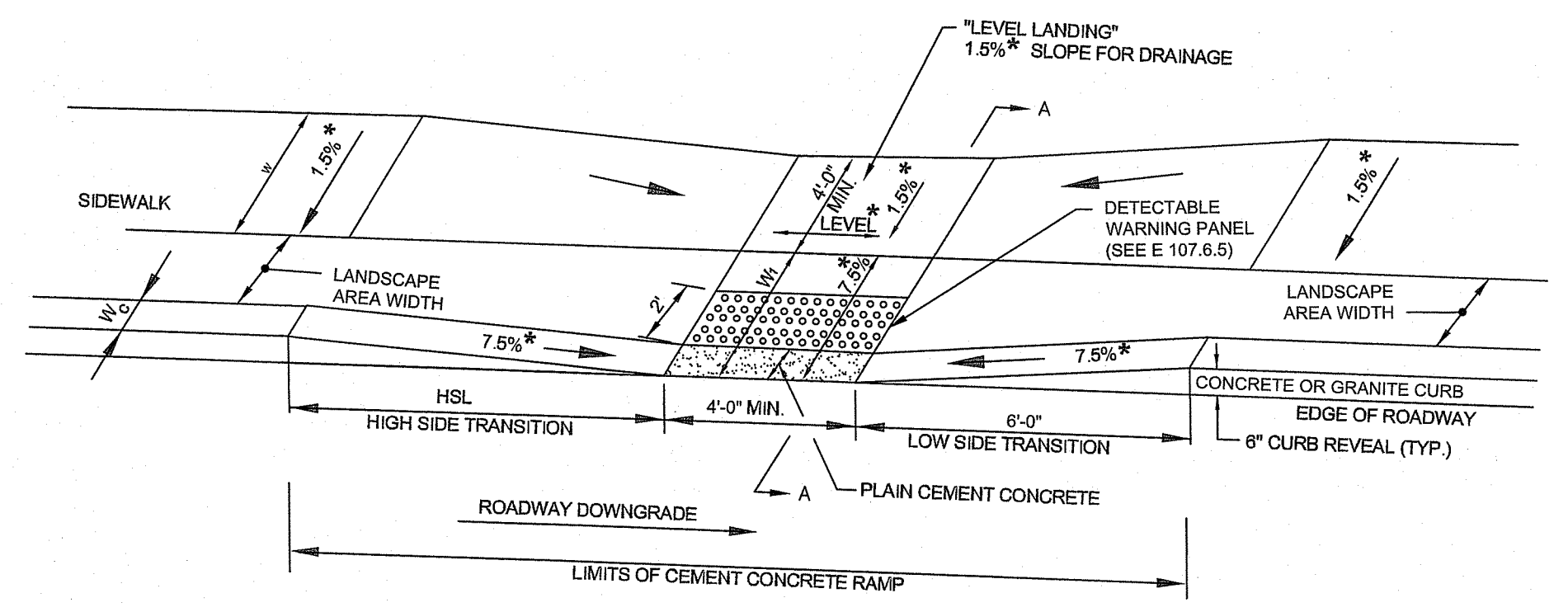
REVISIONS			R.I. STANDARD	
NO.	BY	DATE	43.1.0M	43.1.0M
1	MLP	3/1/05		
2	MLP	05/01/10		

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
**CEMENT CONCRETE SIDEWALK**  
JUNE 15, 1998  
R.I. STANDARD 43.1.0M

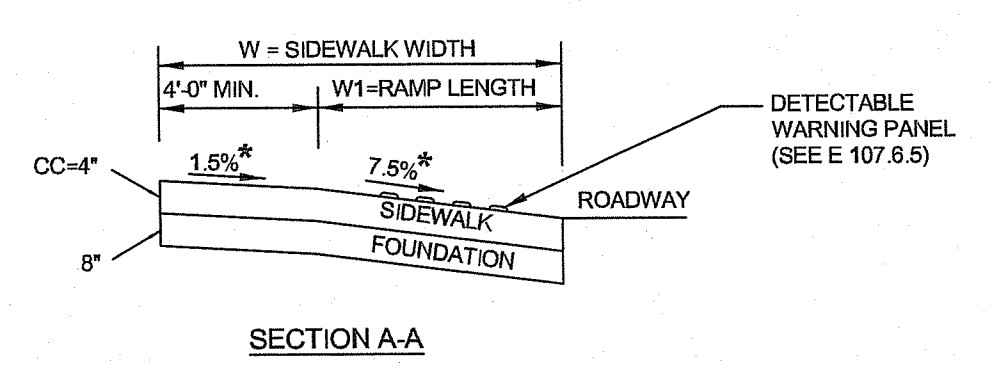


\* TRANSITION SIDEWALK LENGTH PER RIDOT STANDARD 43.3.0 ROADWAY PROFILE GRADE

43.3.1M4 WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS - TYPE 4 NOT TO SCALE



**LEGEND**  
HSL = HIGH SIDE TRANSITION LENGTH (SEE 43.3.0)  
W = SIDEWALK WIDTH  
W<sub>c</sub> = CURB WIDTH  
W<sub>r</sub> = PERPENDICULAR RAMP LENGTH  
CC = CEMENT CONCRETE  
\* = TOLERANCE FOR CONSTRUCTION ±0.5%  
USABLE SIDEWALK WIDTH PER AAB = W-W<sub>c</sub>  
RAMP LENGTH, W<sub>r</sub> = W-4'-0" Min



43.3.2M WHEELCHAIR RAMP FOR NARROW SIDEWALK MODIFIED NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: **DEC 04 2023** FILE #: **23-0133**  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Randy Chapman*