



State of Rhode Island  
Department of Administration / Division of Purchases  
One Capitol Hill, Providence, Rhode Island 02908-5855  
Tel: (401) 574-8100 Fax: (401) 574-8387

**ADDENDUM # 1**

6/25/19

**Solicitation #7598852**

**Title: 2019-CM-064 Smithfield Stormwater Quality Improvements**

**Submission Deadline: July 12, 2019 @ 2:00 PM**

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**See Attached Addendum #1 prepared by Pare Corporation.**

*Interested Parties should monitor this website on a regular basis, for any additional information that may be posted.*

**Alyssa Ward  
Buyer I**

June 24, 2019

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID No. 7598852

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT No. 2019-CM-064

FEDERAL-AID PROJECT NO. FAP No: RI-DAII(001)

**SMITHFIELD STORMWATER QUALITY IMPROVEMENTS**

CITY/TOWN OF SMITHFIELD

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS


ADDENDUM NO. 1 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

**A. Plan Sheets**

1. Replaces Plan Sheets No. 1 through No. 11 with the attached revised plans (R-1). The project title has been revised and minor revisions have been made to address the comments identified on the Advertised Plans.

**B. Contract Specific**

1. Replace Appendix B: Transportation Management Plan (TMP) with the attached signed TMP.

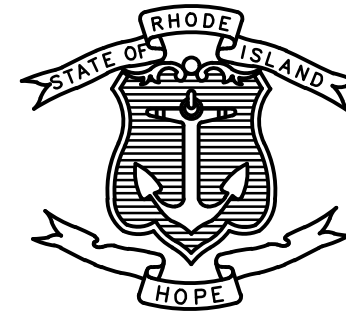
  
6.24.2019  
\_\_\_\_\_  
RI Department of Transportation  
Manager, Project Management  
Office of Stormwater Management

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	RI-D4II(001)	2019	1	11

INDEX OF DRAWINGS

SHEET No.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	JOB SPECIFIC PLAN SYMBOLS, LEGEND, & NOTES
6	OLD COUNTY ROAD GENERAL PLAN
7	DOUGLAS PIKE (ROUTE 7) GENERAL PLAN
8	INTERSTATE 295 GENERAL PLAN
9	DETAILS - 1
10	DETAILS - 2
11	DETAILS - 3

STATE OF RHODE ISLAND



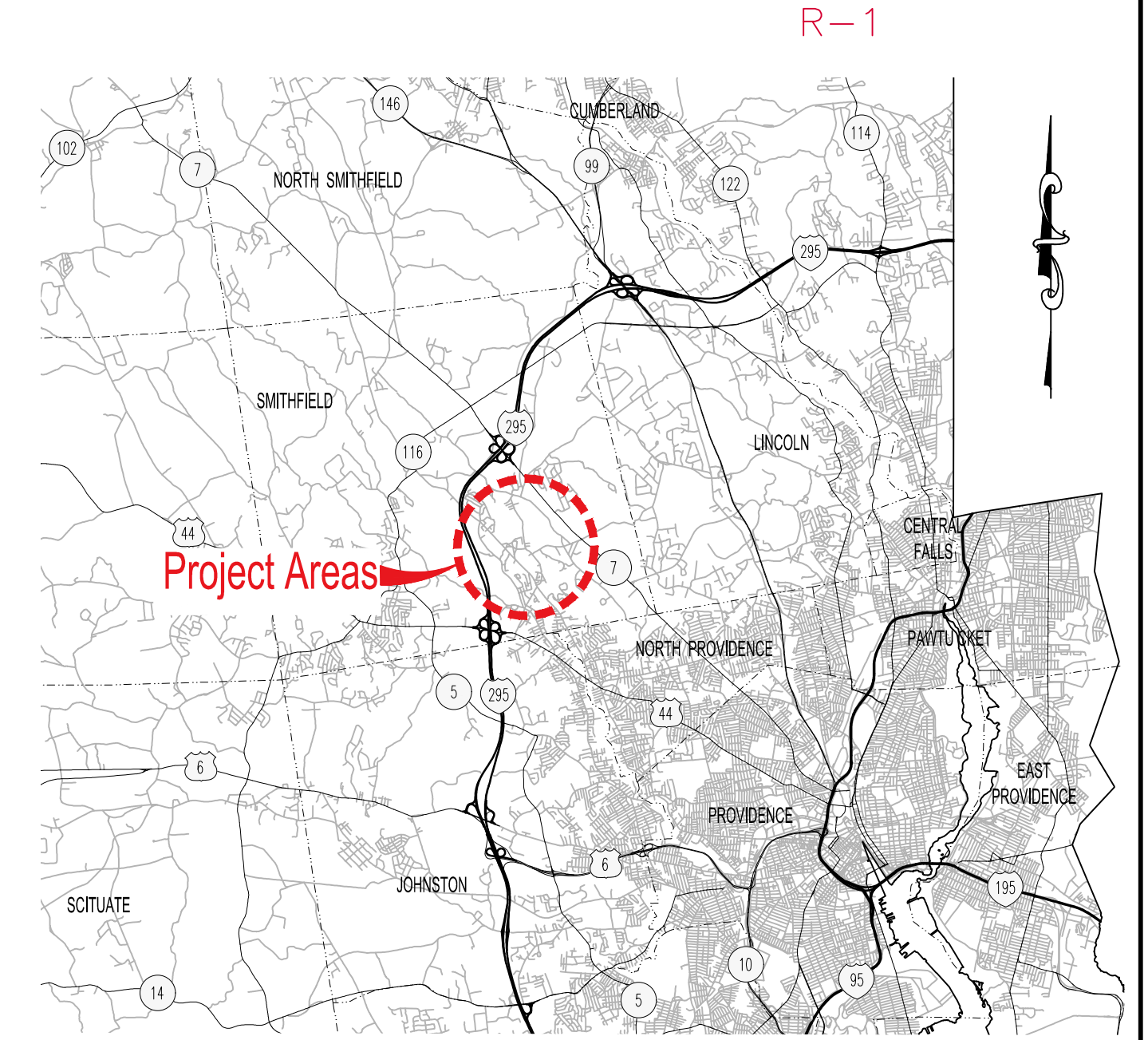
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED

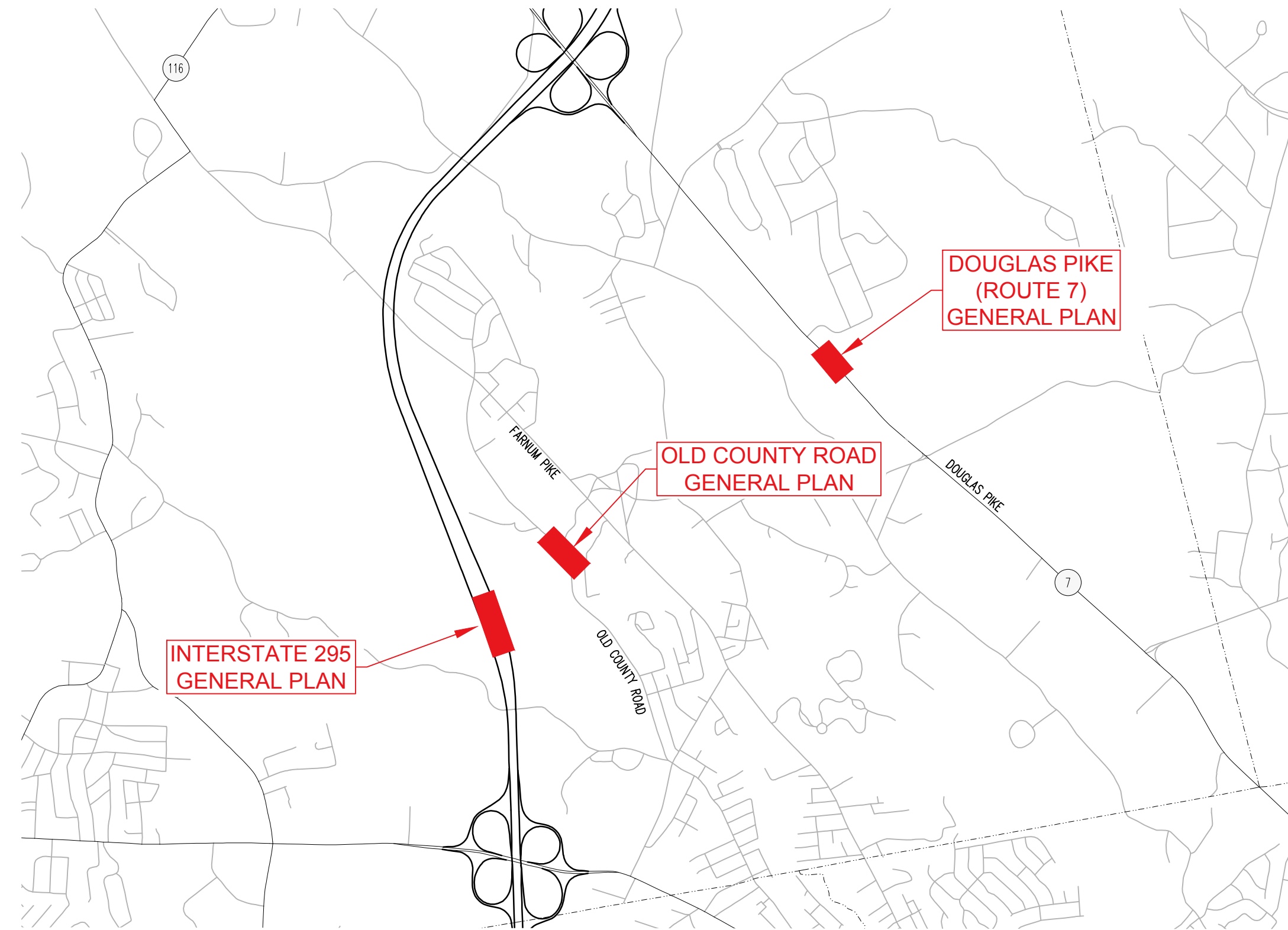
SMITHFIELD STORMWATER QUALITY IMPROVEMENTS

SMITHFIELD, RHODE ISLAND  
PROVIDENCE COUNTY

R.I. CONTRACT NO. 2019-CM-064 F.A. PROJECT NO. RI-D4II(001)



LOCATION MAP  
SCALE: N.T.S.



R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (AMENDED MARCH 2018), 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.

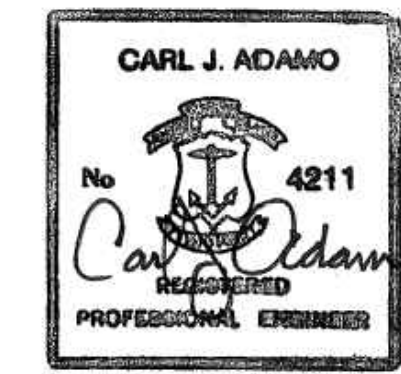
SCALES OF DRAWINGS

PLANS: 1 INCH = 10 FEET  
1 INCH = 20 FEET

BASE OF LEVELS

VERTICAL DATUM USED: NAVD-88

HORIZONTAL DATUM: RHODE ISLAND STATE PLANE, NAD-83 (2007) (2002.00)



6/3/19

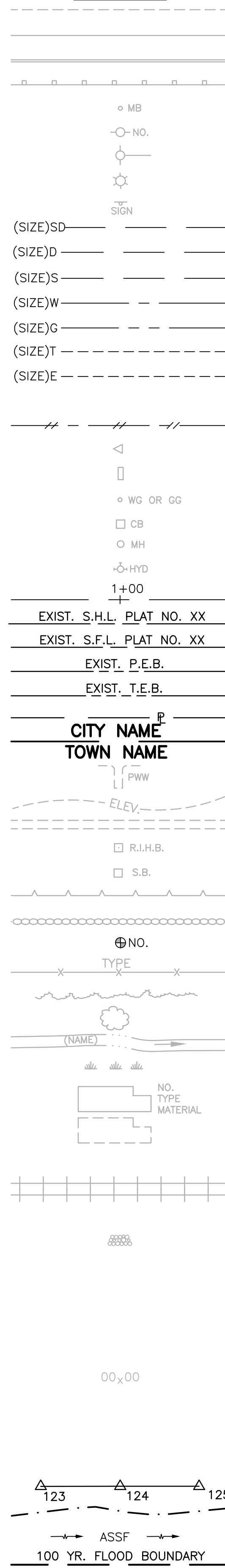
Contract Number 2019-CM-064  
Number of Sheet 1  
Total Sheets 11

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED <i>David W. Froh</i> ADMINISTRATOR, PROJECT MANAGEMENT	DATE 6/6/19
APPROVED <i>Robert Nash</i> CHIEF ENGINEER OF INFRASTRUCTURE	DATE 6/3/19
APPROVED <i>Carl Adamo</i> DIRECTOR	DATE 6/18/19
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
DIVISION ADMINISTRATOR	DATE

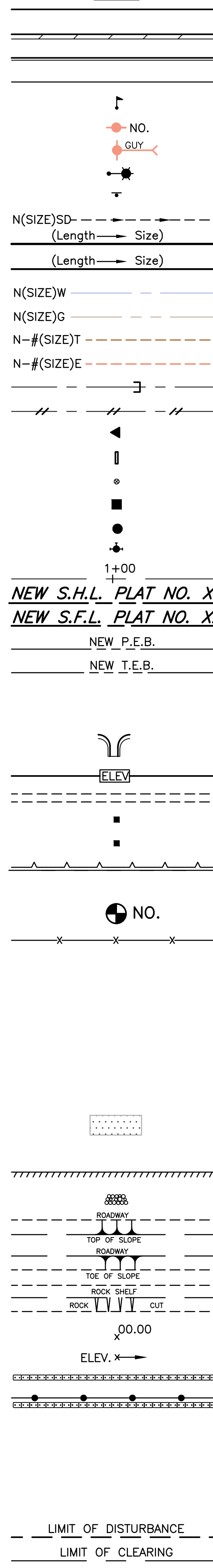
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	RI-D4II(001)	2019	2	11

**EXISTING**

**NEW**



EDGE OF PAVEMENT  
 BERM  
 CURB  
 GUARDRAIL  
 MAILBOX  
 UTILITY POLE  
 POLE GUY  
 LUMINARE  
 SIGN  
 SUBDRAIN  
 STORMDRAIN  
 SANITARY SEWER  
 WATER MAIN  
 GAS MAIN  
 TELEPHONE DUCT  
 ELECTRIC DUCT  
 PLUG AND CAP PIPE  
 ABANDONED UTILITY  
 FLARED END SECTION  
 HEADWALL  
 WATER OR GAS GATE  
 CATCH BASIN  
 MANHOLE  
 HYDRANT  
 BASELINE OR CENTERLINE  
 STATE HIGHWAY LINE  
 STATE FREEWAY LINE  
 PERMANENT EASEMENT LINE  
 TEMPORARY EASEMENT LINE  
 PROPERTY LINE  
 CITY OR TOWN LINE  
 PAVED WATERWAY  
 CONTOUR LINE  
 OPEN DITCH  
 R.I. HIGHWAY BOUND  
 STONE BOUND  
 RETAINING WALL  
 FIELD STONE WALL  
 BORINGS  
 FENCE  
 WOOD OR BRUSH LINE  
 TREES  
 RIVER OR STREAM  
 WETLAND AREA  
 BUILDING  
 FOUNDATION  
 BUILDING TO BE REMOVED  
 RAILROAD TRACKS  
 CUT AND MATCH  
 RIP-RAP  
 CUT SLOPE  
 FILL SLOPE  
 ROCK CUT  
 SPOT GRADE  
 AREA GRADED TO DRAIN  
 BALED HAY RI STD 9.1.0  
 BALED HAY & SILT FENCE RI STD. 9.3.0  
 EDGE OF WETLAND  
 WETLAND PERIMETER  
 AREA SUBJECT TO STORM FLOW  
 100-YEAR FLOOD PLAIN  
 LIMIT OF DISTURBANCE  
 LIMIT OF CLEARING



- (1.1.0) UNDERDRAIN
- (1.3.0) CONCRETE CONNECTING COLLAR
- (2.1.0) CONCRETE HEADWALLS FOR PIPE CULVERTS
- (2.2.0) STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS
- (2.3.0) PRECAST CONCRETE FLARED END SECTION
- (3.2.0) BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE
- (3.2.1) BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE
- (3.3.0) BRICK/SOLID BLOCK TYPE "D" SQUARE CATCH BASIN
- (3.3.2) BRICK/SOLID BLOCK TYPE "F" SQUARE CATCH BASIN
- (3.3.3) SOLID BLOCK FLUSH SQUARE CATCH BASIN
- (3.4.0) BRICK/SOLID BLOCK TYPE "D" ROUND CATCH BASIN
- (3.4.1) BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET
- (3.4.2) BRICK/SOLID BLOCK TYPE "F" ROUND CATCH BASIN
- (3.4.3) BRICK/SOLID BLOCK TYPE "R" CATCH BASIN
- (3.4.4) SOLID BLOCK FLUSH ROUND CATCH BASIN
- (3.4.5) BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN
- (3.5.0) SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN
- (3.5.1) SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN
- (3.6.0) BRICK/SOLID BLOCK DROP INLET
- (3.7.0) BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"
- (4.2.0) PRECAST 4'-0" ROUND MANHOLE
- (4.2.1) PRECAST 5'-0" ROUND MANHOLE
- (4.2.2) PRECAST 6'-0" ROUND MANHOLE
- (4.3.0) PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
- (4.4.0) PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
- (4.5.0) PRECAST CONCRETE DROP INLET
- (4.5.1) PRECAST CONCRETE DROP INLET LATERAL OUTLET
- (4.5.2) PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET
- (5.3.0) CATCH BASIN AND MANHOLE STEP
- (5.4.0) CONCRETE COLLARS
- (6.1.0) LIGHT-DUTY SQUARE FRAME AND ROUND COVER
- (6.1.1) HEAVY DUTY SQUARE FRAME AND ROUND COVER
- (6.2.0) LIGHT-DUTY ROUND FRAME AND COVER
- (6.2.1) HEAVY-DUTY ROUND FRAME AND COVER
- (6.3.0) SQUARE FRAME AND GRATE
- (6.3.1) SQUARE FRAME AND GRATE
- (6.3.2) SQUARE FRAME AND GRATE (BICYCLE SAFE)
- (6.3.3) HIGH CAPACITY FRAME AND GRATE
- (6.3.4) HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
- (6.4.0) ROUND FRAME AND GRATE
- (7.1.0S) PRECAST CONCRETE CURB (STRAIGHT)
- (7.1.0C) PRECAST CONCRETE CURB (CIRCULAR)
- (7.1.1) 3'-0" PRECAST CONCRETE TRANSITION CURB
- (7.1.2) 6'-0" PRECAST CONCRETE TRANSITION CURB
- (7.1.4) PRECAST 2'-0" RADIUS CORNER
- (7.1.5) PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)
- (7.1.6) PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)
- (7.1.7) PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)
- (7.1.8) PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)
- (7.2.0S) PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)
- (7.2.0C) PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)
- (7.2.1) PRECAST CONCRETE SLOPED FACE TRANSITION CURB
- (7.2.2) PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)
- (7.3.0S) GRANITE CURB (STRAIGHT)
- (7.3.0C) GRANITE CURB (CIRCULAR)
- (7.3.1) 3'-0" GRANITE TRANSITION CURB
- (7.3.2) 6'-0" GRANITE TRANSITION CURB
- (7.3.3) GRANITE WHEELCHAIR RAMP TRANSITION CURB
- (7.3.4) GRANITE 2'-0" RADIUS CORNER
- (7.3.5) GRANITE INLET STONE (FOR SQUARE CATCH BASIN)
- (7.3.6) GRANITE INLET STONE (FOR ROUND CATCH BASIN)
- (7.3.7) GRANITE APRON STONE (FOR SQUARE CATCH BASIN)
- (7.3.8) GRANITE APRON STONE (FOR ROUND CATCH BASIN)
- (7.4.0) GRANITE SLOPED FACE CURB
- (7.4.1) GRANITE SLOPED FACE TRANSITION CURB
- (7.4.2) GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)
- (7.5.0) BITUMINOUS CONCRETE LIP CURB
- (7.5.1A) BITUMINOUS BERM (CONSTRUCTION METHOD A)
- (7.5.1B) BITUMINOUS BERM (CONSTRUCTION METHOD B)
- (7.6.0) CURB SETTING DETAIL
- (8.2.0) BITUMINOUS CONCRETE DITCH
- (8.3.0) RIP-RAP DITCH
- (8.4.0) PAVED WATERWAY
- (9.1.0) BALED HAY EROSION CHECK
- (9.2.0) SILT FENCE DETAIL
- (9.3.0) BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
- (9.4.0) BALED HAY DITCH AND SWALE EROSION CHECK
- (9.5.0) LOG AND HAY CHECK DAM
- (9.7.0) DEWATERING BASIN
- (9.8.0) BALED HAY CATCH BASIN INLET PROTECTION
- (9.9.0) CONSTRUCTION ACCESS
- (10.1.0) WET STONE MASONRY RETAINING WALL
- (10.2.0) RUBBLE MASONRY WALL
- (10.3.0) CONCRETE RETAINING WALL
- (10.4.0) STONE MASONRY STEPS
- (14.1.0) CONCRETE HIGHWAY BOUND
- (15.1.0) POST AND MOUNTINGS FOR RURAL MAILBOX
- (15.2.0) POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES
- (18.2.0) PRECAST TYPE "A" HANDHOLE
- (18.2.2) HEAVY DUTY TYPE "H" HANDHOLE
- (18.3.0) ALUMINUM LIGHTING STANDARDS
- (20.2.0) BI-DIRECTIONAL CONTROL DEVICE
- (24.6.1) STREET SIGN MOUNTING DETAIL
- (26.2.0) POLYETHYLENE DRUM WITH MARKINGS
- (26.3.0) PVC PLASTIC PIPE TYPE III BARRICADE
- (31.1.0) CHAIN LINK FENCE 3'-0" TO 4'-0"
- (31.2.0) CHAIN LINK FENCE 5'-0" TO 6'-0"
- (31.2.1) CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST
- (31.3.0) WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)
- (34.1.0) TYPICAL GUARDRAIL INSTALLATION
- (34.2.0) STEEL BEAM GUARDRAIL
- (34.2.1) STEEL BEAM GUARDRAIL DETAILS
- (34.2.2) STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY
- (34.2.3) STEEL BEAM GUARDRAIL FIXTURES
- (34.2.5) STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR
- (34.3.1) GUARDRAIL END SECTION
- (34.3.2) TERMINAL END SECTION (SINGLE FACE)
- (34.3.3) ANCHORAGE DETAILS APPROACH END SECTION
- (34.3.4) ANCHORAGE DETAILS TRAILING END SECTION
- (34.4.0) STEEL BACKED TIMBER GUARDRAIL
- (34.4.1) STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1
- (40.1.0) DOUBLE-FACED PRECAST MEDIAN BARRIER
- (40.2.0) SINGLE-FACED PRECAST MEDIAN BARRIER
- (40.2.1) SINGLE-FACED PRECAST MEDIAN BARRIER
- (40.3.0) PRECAST MEDIAN BARRIER TRANSITION UNIT
- (40.5.0) PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL
- (43.1.0) CEMENT CONCRETE SIDEWALK
- (43.2.0) BITUMINOUS CONCRETE SIDEWALK
- (43.3.0) WHEELCHAIR RAMP
- (43.3.1) WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
- (43.4.0) DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB
- (43.4.1) DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB
- (43.5.0) CEMENT CONCRETE DRIVEWAYS
- (48.1.0) DETECTABLE WARNING SYSTEM
- (51.1.0) TREE PROTECTION DEVICE
- (51.1.1) DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
- (51.2.0) SHRUB PROTECTION DEVICE
- (51.3.0) TREE WELL
- (51.4.0) TREE WALL

- (AB) ADJUST CATCH BASIN TO GRADE
- (ABM) ADJUST CATCH BASIN TO MANHOLE
- (AC) ADJUST CURB STOP TO GRADE
- (AD) ADJUST ELECTRICAL MANHOLE TO GRADE
- (AE) ADJUST ELECTRIC MANHOLE TO GRADE
- (AFC) ADJUST FRAME AND COVER TO GRADE
- (AFG) ADJUST FRAME AND GRATE TO GRADE
- (AG) ADJUST GAS GATE BOX TO GRADE
- (AHH) ADJUST HANDHOLE TO GRADE
- (AS) ADJUST SANITARY SEWER MANHOLE TO GRADE
- (AT) ADJUST TELEPHONE MANHOLE TO GRADE
- (AW) ADJUST WATER GATE BOX TO GRADE
- (BCD) BITUMINOUS CONCRETE DRIVEWAY 3" BITUMINOUS CONCRETE TYPE 1-2 8" GRAVEL BORROW SUBBASE COURSE
- (BPS) BUILD NEW STRUCTURE OVER EXISTING PIPE
- (CCB) CLEAN CATCH BASIN
- (CCP) CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
- (CFP) CLEAN AND FLUSH PIPE
- (CG) CLEARING AND GRUBBING
- (CMH) CLEAN MANHOLE
- (CP) COLD PLANE
- (CPP) CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
- (DB) REMOVE AND DISPOSE BITUMINOUS CURB
- (DC) REMOVE AND DISPOSE CONCRETE CURB
- (DCB) REMOVE AND DISPOSE CATCH BASIN
- (DDI) REMOVE AND DISPOSE DROP INLET
- (DF) REMOVE AND DISPOSE FENCE
- (DFC) REMOVE AND DISPOSE FRAME AND COVER
- (DFE) REMOVE AND DISPOSE FLARED END SECTION
- (DFG) REMOVE AND DISPOSE FRAME AND GRATE
- (DFH) REMOVE AND DISPOSE FIRE HYDRANT
- (DFP) REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- (DG) REMOVE AND DISPOSE GUARDRAIL
- (DH) REMOVE AND DISPOSE HEADWALL
- (DHB) REMOVE AND DISPOSE HIGHWAY BOUND
- (DHH) REMOVE AND DISPOSE HANDHOLE
- (DL) REMOVE AND DISPOSE LIGHT AND FOUNDATION
- (DMB) REMOVE AND DISPOSE MEDIAN BARRIER
- (DMH) REMOVE AND DISPOSE MANHOLE
- (DMM) REMOVE AND DISPOSE MEDIAN MARKER
- (DOW) REMOVE AND DISPOSE OBSERVATION WELL
- (DP) REMOVE AND DISPOSE PIPE
- (DPB) REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
- (DRB) REMOVE AND DISPOSE RIGID BASE
- (DS) REMOVE AND DISPOSE SIGN
- (DSS) REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
- (DSW) REMOVE AND DISPOSE SIDEWALK
- (DTD) REMOVE AND DISPOSE TELEPHONE DUCT BANKS
- (DUP) REMOVE AND DISPOSE UTILITY POLE
- (DWW) REMOVE AND DISPOSE PAVED WATERWAY
- (FF) FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
- (GET) FLARED GUARDRAIL END TREATMENT
- (IA) IMPACT ATTENUATOR
- (IDL) IMPERVIOUS DITCH LINER
- (LOD) LIMIT OF DISTURBANCE
- (LOR) LIMIT OF REGRADING
- (LS) 4" LOAM AND SEED

- (NFB) NEW FIRE HYDRANT WITH GATE VALVE
- (NIC) NOT IN THIS CONSTRUCTION CONTRACT
- (NWB) FURNISH AND INSTALL NEW WATER GATE VALVE BOX
- (NWVB) FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX
- (NWCB) FURNISH AND INSTALL NEW WATER CURB STOP BOX
- (NWSB) FURNISH AND INSTALL NEW WATER CURB STOP AND BOX
- (PCD) PERMANENT CHECK DAM
- (PS) 4" PLANTABLE SOIL AND SEED
- (RCB) RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET
- (RCM) R.I.D.O.T. COMMUNICATIONS MANHOLE
- (RHH) REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)
- (RLP) RELOCATE LAMP POST
- (RMB) RELOCATE MAILBOX (BY OTHERS)
- (RPM) REMOVE PAVEMENT MARKINGS
- (RRP) RIP-RAP PAD (SEE DETAIL)
- (RRS) REMOVE AND RELOCATE SIGN
- (RUP) RELOCATE UTILITY POLE (BY OTHERS)
- (SB) STONE BAFFLE
- (SBAE) STEEL BEAM BRIDGE CONNECTION APPROACH END (W/O NESTED RAIL)
- (SBTE) STEEL BEAM BRIDGE CONNECTION TRAILING END (W/NESTED RAIL)
- (SD-) STRUCTURAL DISPOSITION - SEE CS PAGES OF SPECIFICATION
- (SF) REMOVE AND STOCKPILE FENCE
- (SGA) SPECIAL GRADED AGGREGATE
- (SGC) REMOVE AND STOCKPILE GRANITE CURB
- (SGR) REMOVE AND STOCKPILE GUARDRAIL
- (SH) REMOVE AND STOCKPILE HYDRANT
- (SS) REMOVE AND STOCKPILE SIGN
- (STS) REMOVE AND STOCKPILE TRAFFIC SIGNAL SYSTEM
- (TB) CONCRETE THRUST BLOCK
- (TEP) TIE EXISTING PIPE INTO NEW STRUCTURE
- (TNP) TIE NEW PIPE INTO EXISTING STRUCTURE
- (TBT) THRIE BEAM TRANSITION
- (TBBC) THRIE BEAM BRIDGE CONNECTION
- (TT) TREE TRIMMING
- (WCM) 4" WOOD CHIP MULCH
- (4DY) 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- (6W) 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- (12W) 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- (6WT) 6" PREFORMED PATTERNED MARKING (HIGH PERFORMANCE TAPE)
- (4Y) 4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
- (6Y) 6" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
- (P.G.L.) PROFILE GRADE LINE

REVISIONS		
NO.	DATE	BY
1	6/07	TRB
2	6/19	RJS

RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

SMITHFIELD STORMWATER  
 QUALITY IMPROVEMENTS  
 SMITHFIELD RHODE ISLAND

**STANDARD PLAN SYMBOLS &  
 STANDARD LEGEND**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE \_\_\_\_\_









FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	RI-D4II(001)	2019	7	11

R-1

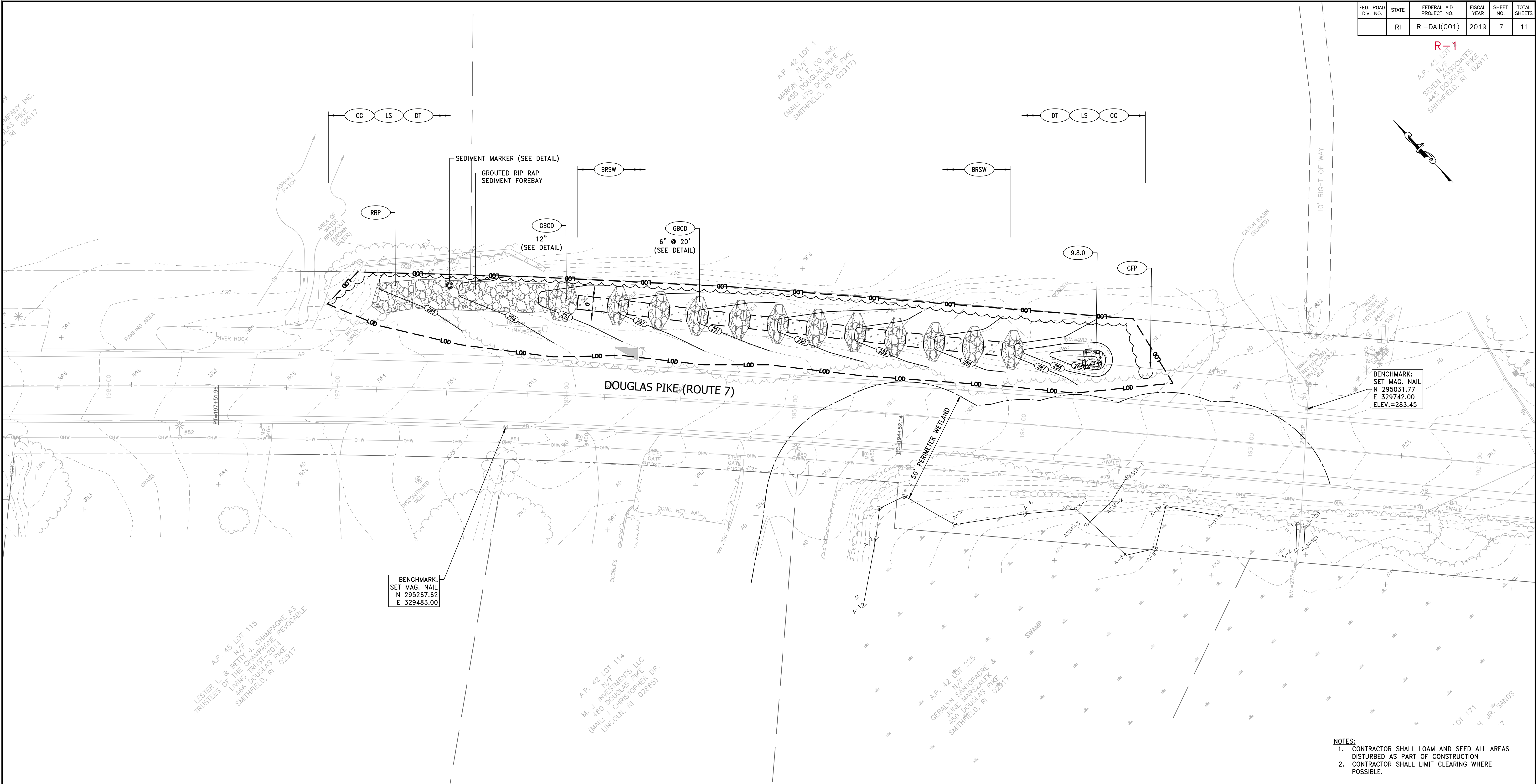
A.P. 42 LOT 1  
MARRON N/F CO. INC.  
455 DOUGLAS PIKE  
SMITHFIELD, RI 02917

A.P. 42 LOT 1  
MARRON N/F CO. INC.  
455 DOUGLAS PIKE  
SMITHFIELD, RI 02917

A.P. 45 LOT 115  
LESTER L. & BETTY J. CHAMPAGNE AS TRUSTEES  
OF THE CHAMPAGNE REVOCABLE  
LIVING TRUST 2014  
466 DOUGLAS PIKE  
SMITHFIELD, RI 02917

A.P. 42 LOT 114  
M. J. INVESTMENTS LLC  
450 DOUGLAS PIKE  
(MAIL: 1 CHRISTOPHER DR.  
LINCOLN, RI 02865)

A.P. 42 LOT 225  
GERALYN SANTOPADRE &  
JUNE MARCEALEX  
450 DOUGLAS PIKE  
SMITHFIELD, RI 02917

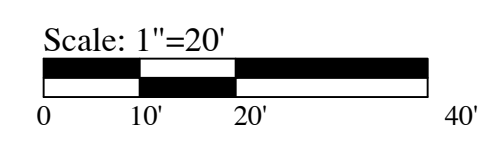


BENCHMARK:  
SET MAG. NAIL  
N 295031.77  
E 329742.00  
ELEV.=283.45

BENCHMARK:  
SET MAG. NAIL  
N 295267.62  
E 329483.00

- NOTES:
- CONTRACTOR SHALL LOAM AND SEED ALL AREAS DISTURBED AS PART OF CONSTRUCTION
  - CONTRACTOR SHALL LIMIT CLEARING WHERE POSSIBLE.

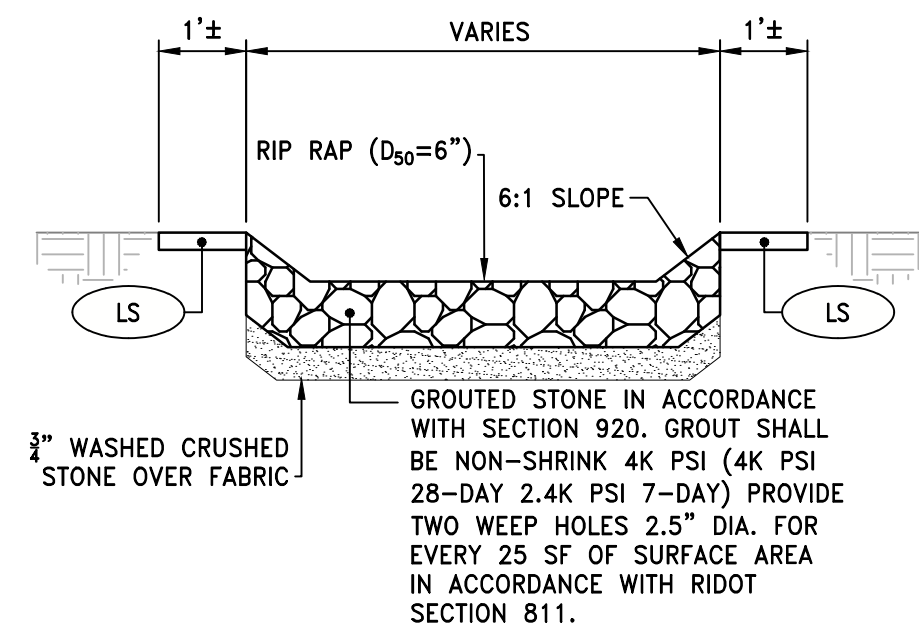
REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	6/19	RJS		
			SMITHFIELD STORMWATER QUALITY IMPROVEMENTS SMITHFIELD RHODE ISLAND	
			DOUGLAS PIKE (ROUTE 7) GENERAL PLAN BIORETENTION SWALE	
			CHECKED BY	DATE
			SCALE 1"=20'	



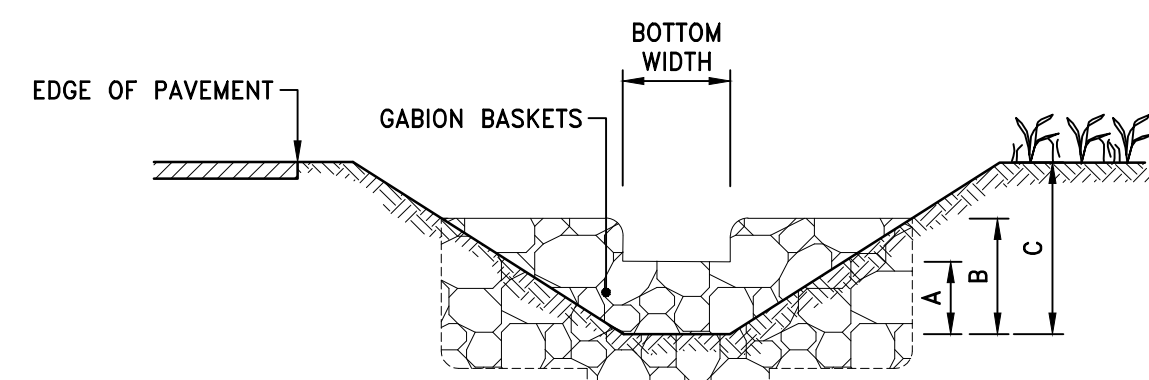
ADDENDUM No.1







**GROUTED RIP RAP SEDIMENT FOREBAY**  
NOT TO SCALE

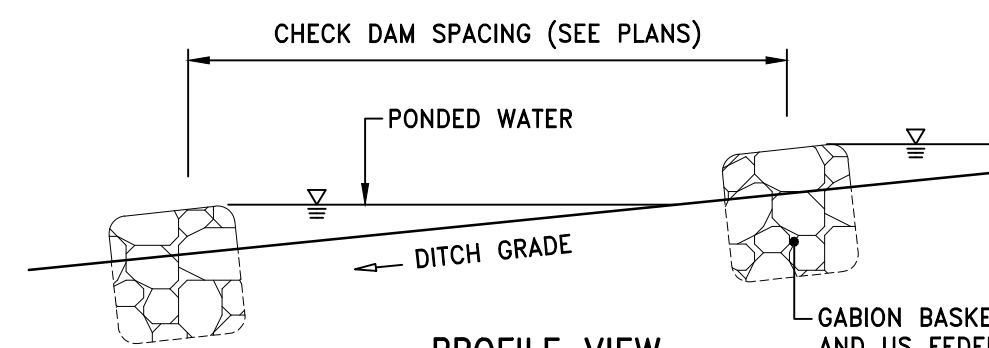


**CROSS SECTION VIEW**

CHECK DAM DIMENSIONS:

	A	B	C
I-295:	9"	12"	15"
DOUGLAS PIKE:	6"	-	18"
OLD COUNTY ROAD:	3"	-	9"

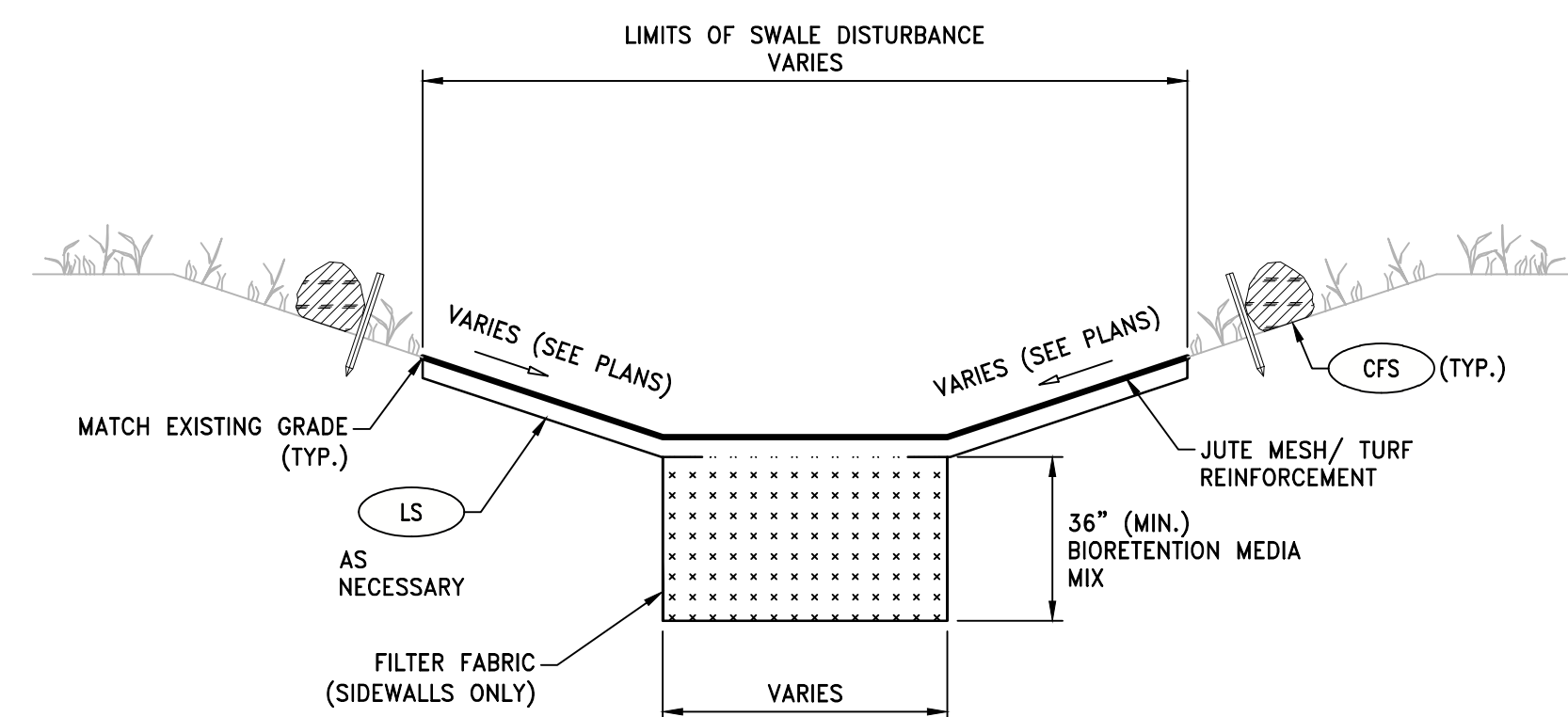
NO "B" DIMENSION SHALL BE CONSTRUCTED WITH THE CENTER OF THE CHECK DAM DEPRESSED 0.1' TO DIRECT FLOW TO THE CENTER.



**PROFILE VIEW**

GABION BASKET ASTM A-974-97 AND US FEDERAL SPECIFICATION QQ-W-461H AND COATED IN ACCORDANCE WITH ASTM A641, FINISH 5, CLASS 3.

**GBCD TYPICAL GABION BASKET CHECK DAM DETAIL**  
NOT TO SCALE

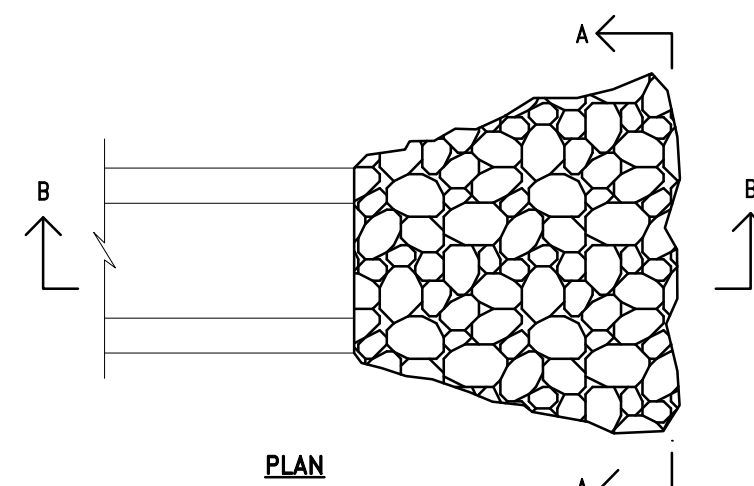


**NOTE:**

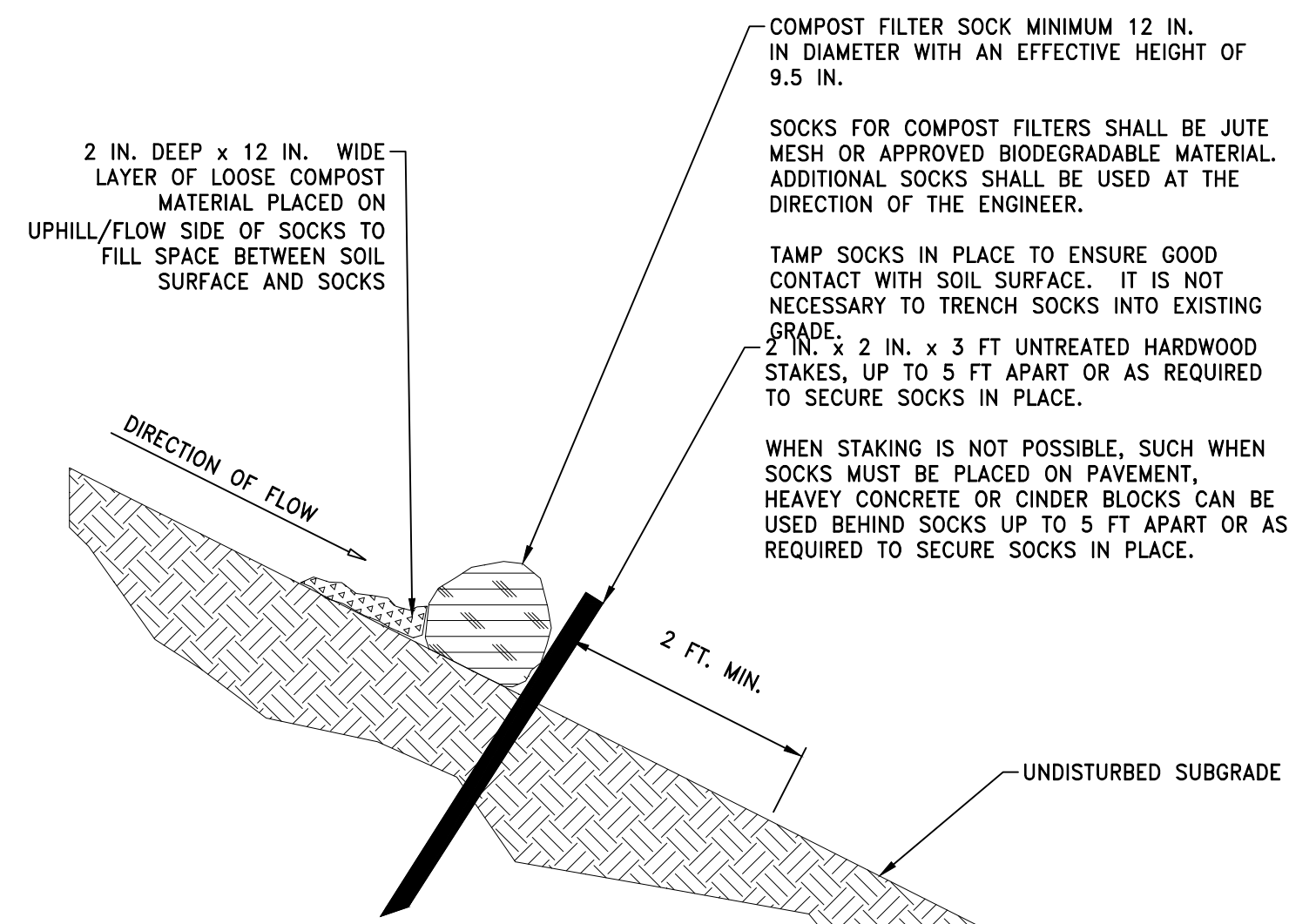
1. BIORETENTION MEDIA MIXTURE (70-85% SAND, 15-30% ORGANIC MATTER)
2. COMPOST SHALL NOT BE USED FOR ORGANIC MATTER.
3. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTION TO NOT COMPACT SOILS WITHIN THE MEDIA FOOTPRINT.
4. FILTER FABRIC SHALL CONFORM WITH SECTION 703.02.2 OF RIDOT STANDARDS.
5. SWALE SHALL BE SEEDED WITH KENTUCKY BLUE GRASS MIX

**BRSW BIORETENTION SWALES**

NOT TO SCALE



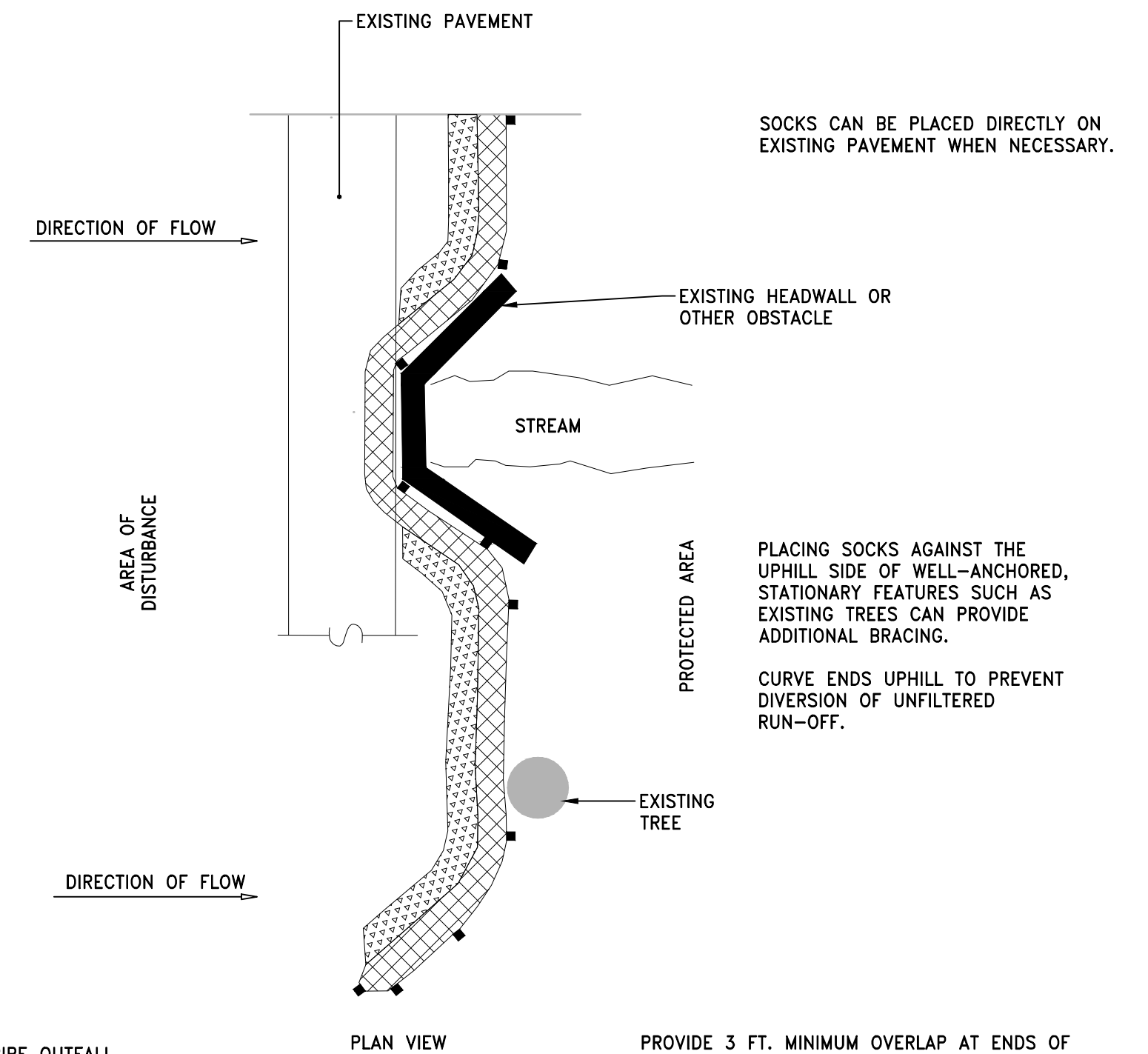
**RRP RIPRAP PAD**  
NOT TO SCALE



**GENERAL NOTES:**

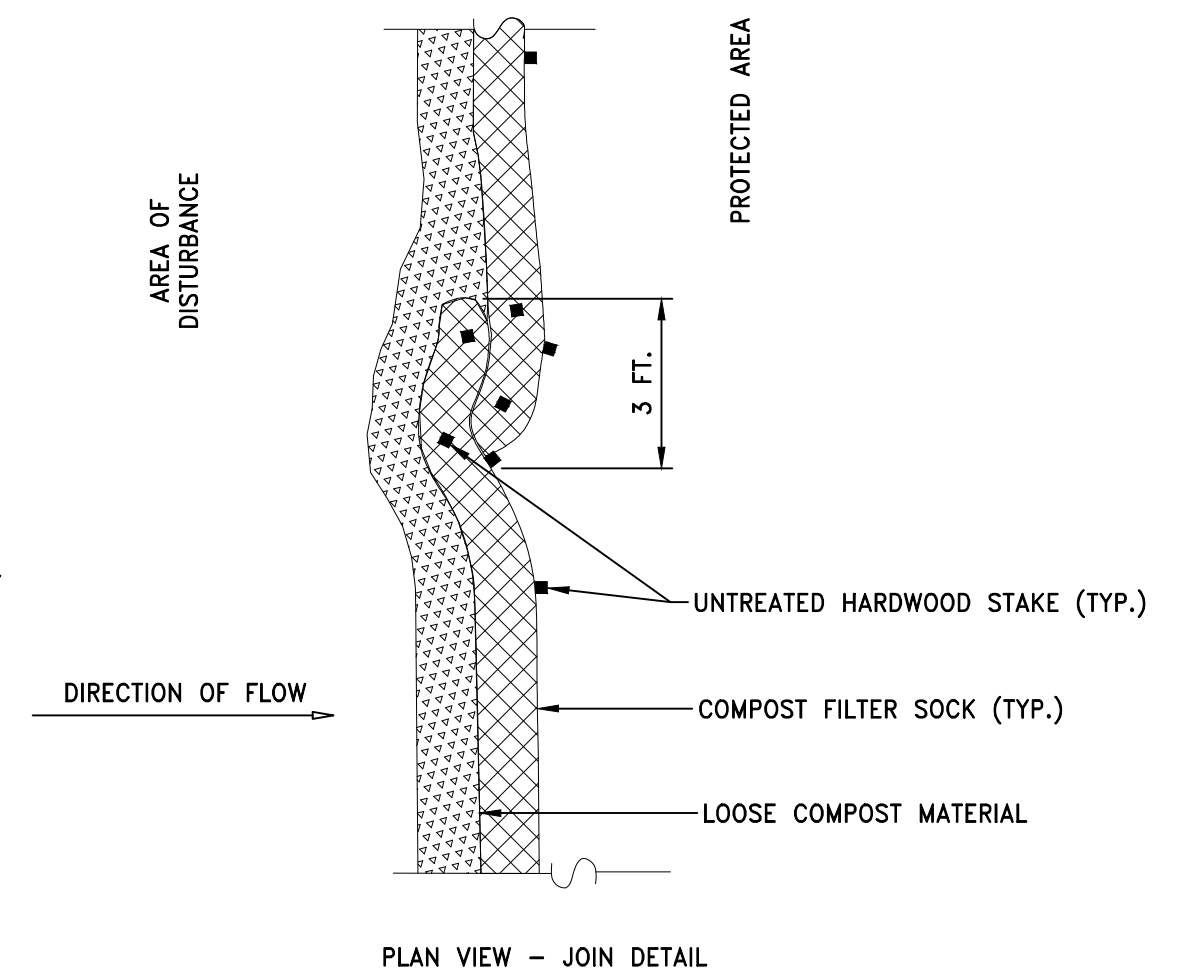
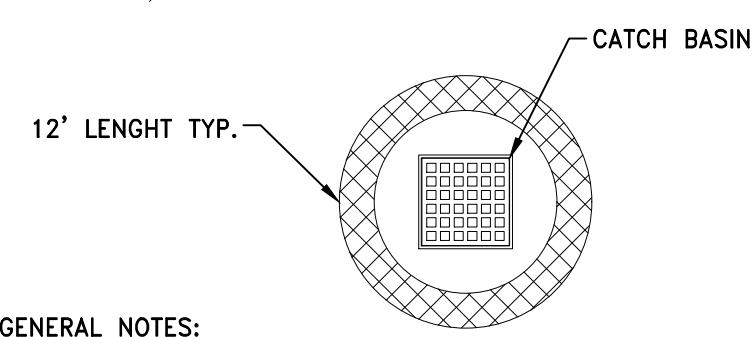
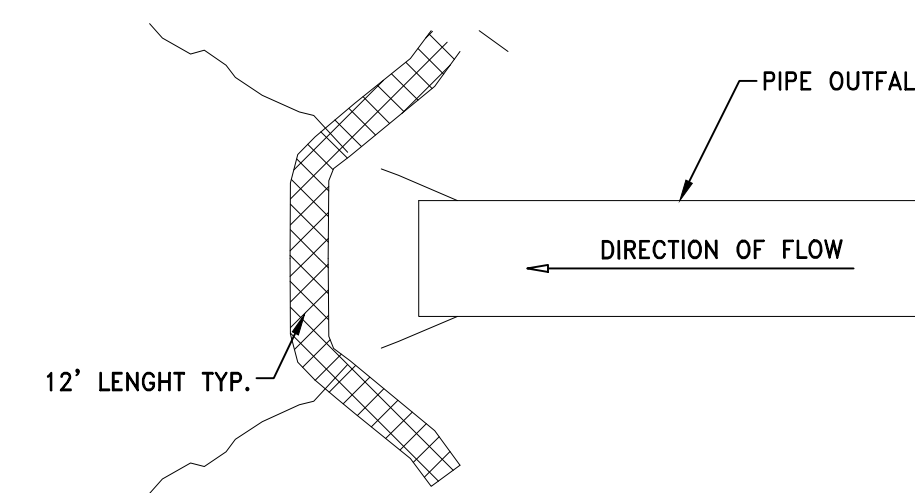
1. PROVIDE A MINIMUM SOCK DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER SOCK DIAMETER OR ADDITIONAL COURSING OF FILTER SOCKS TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH 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.

**CFS COMPOST FILTER SOCK DETAIL**  
NOT TO SCALE



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.



**PLAN VIEW - JOINT DETAIL**

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	6/19	RJS		
			SMITHFIELD STORMWATER QUALITY IMPROVEMENTS	
			SMITHFIELD RHODE ISLAND	
			DETAILS - 1	
			CHECKED BY	DATE
				SCALE





**NOTES:**

- ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "ROAD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- ADVANCE WARNING SIGN SPACING MAY BE ADJUSTED IN THE FIELD IF NECESSARY TO FIT SITE CONDITIONS.
- MAXIMUM SPACING OF CHANNELIZATION DEVICES IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES OR TEMPORARY BARRIER.
- THE SIZE OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
- WHERE A SIDE STREET OR RAMP INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.
- THE CONTRACTOR SHALL ALLOW FOR SAFE PEDESTRIAN PASSAGE THROUGH THE WORK ZONE AT ALL TIMES DURING THE WORK. A TEMPORARY TRAFFIC CONTROL DEVICE SHALL BE INSTALLED TO PROTECT PEDESTRIANS THROUGH THE WORK ZONE WHEN THE WORKING SECTION IS IN A TANGENT SECTION. ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.

Speed Limit (mph)	Taper Length (ft)	Buffer Space (ft)
25 MPH	125	155
30 MPH	150	200
35 MPH	245	250
40 MPH	320	305
45 MPH	540	360
50 MPH	600	425

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
TEMPORARY TRAFFIC CONTROL PLAN  
TYPICAL SHOULDER CLOSURE ON TWO-LANE HIGHWAY  
NOT TO SCALE  
DATE: 02-07-13

**NOTES:**

- ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "ROAD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- ADVANCE WARNING SIGN SPACING MAY BE ADJUSTED IN THE FIELD IF NECESSARY TO FIT SITE CONDITIONS.
- MAXIMUM SPACING OF CHANNELIZATION DEVICES IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES OR TEMPORARY BARRIER.
- THE SIZE OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
- WHERE A SIDE STREET OR RAMP INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.
- THE CONTRACTOR SHALL ALLOW FOR SAFE PEDESTRIAN PASSAGE THROUGH THE WORK ZONE AT ALL TIMES DURING THE WORK. A TEMPORARY TRAFFIC CONTROL DEVICE SHALL BE INSTALLED TO PROTECT PEDESTRIANS THROUGH THE WORK ZONE WHEN THE WORKING SECTION IS IN A TANGENT SECTION. ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.

Speed Limit (mph)	Taper Length (ft)	Buffer Space (ft)
40 MPH	320	305
45 MPH	540	360
50 MPH	600	425
55 MPH	660	485
60 MPH	720	570
65 MPH	780	645

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
TEMPORARY TRAFFIC CONTROL PLAN  
TYPICAL SHOULDER CLOSURE ON FREEWAY OR EXPRESSWAY  
NOT TO SCALE  
DATE: 02-07-13

**NOTES:**

- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
- 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. 6.5.10 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.
- CORBELS MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
- FOR CATCH BASIN TYPES "D" AND "E" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
- THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
- ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
- ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
- REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN  
JUNE 15, 1998  
R.I. STANDARD 4.4.0M

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION ACCESS  
R.I. STANDARD 9.9.0  
JUNE 15, 1998

**NOTES:**

- ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "ROAD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- ADVANCE WARNING SIGN SPACING MAY BE ADJUSTED IN THE FIELD IF NECESSARY TO FIT SITE CONDITIONS.
- MAXIMUM SPACING OF CHANNELIZATION DEVICES IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES OR TEMPORARY BARRIER.
- THE SIZE OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
- WHERE A SIDE STREET OR RAMP INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.
- THE CONTRACTOR SHALL ALLOW FOR SAFE PEDESTRIAN PASSAGE THROUGH THE WORK ZONE AT ALL TIMES DURING THE WORK. A TEMPORARY TRAFFIC CONTROL DEVICE SHALL BE INSTALLED TO PROTECT PEDESTRIANS THROUGH THE WORK ZONE WHEN THE WORKING SECTION IS IN A TANGENT SECTION. ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.

Speed Limit (mph)	Taper Length (ft)	Buffer Space (ft)
25 MPH	125	155
30 MPH	150	200
35 MPH	245	250
40 MPH	320	305
45 MPH	540	360
50 MPH	600	425

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
TEMPORARY TRAFFIC CONTROL PLAN  
TYPICAL LANE SHIFT ON TWO-LANE ROADWAY  
NOT TO SCALE  
DATE: 02-07-13

**NOTES:**

- ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "ROAD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- ADVANCE WARNING SIGN SPACING MAY BE ADJUSTED IN THE FIELD IF NECESSARY TO FIT SITE CONDITIONS.
- THE BUFFER SPACES SHOULD BE EXTENDED IF NECESSARY TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND QUEUES OF STOPPED VEHICLES.
- MAXIMUM SPACING OF CHANNELIZATION DEVICES IN THE 100' MAX. TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 10 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES OR TEMPORARY BARRIER.
- THE SIZE OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
- WHERE A SIDE STREET OR RAMP INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.

Speed Limit (mph)	Taper Length (ft)	Buffer Space (ft)
25 MPH	125	155
30 MPH	150	200
35 MPH	245	250
40 MPH	320	305
45 MPH	540	360
50 MPH	600	425

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
TEMPORARY TRAFFIC CONTROL PLAN  
TYPICAL LANE CLOSURE ON TWO-LANE ROADWAY  
NOT TO SCALE  
DATE: 02-07-13

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
SQUARE FRAME AND GRATE  
R.I. STANDARD 6.3.0  
JUNE 15, 1998

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
PRECAST CONCRETE CURB  
R.I. STANDARD 7.1.0  
JUNE 15, 1998

DIAMETER OF PIPE	A	C	D	E	SEE R.I. STANDARD
1'-0"	3'-0"	2'-4"	1'-0"	-	13.3
1'-6"	3'-6"	2'-8"	1'-3"	-	17.2
2'-0"	4'-0"	3'-2"	1'-6"	-	21.5
2'-6"	4'-6"	3'-6"	2'-0"	-	25.8
3'-0"	5'-0"	3'-10"	2'-4"	-	29.8
3'-6"	5'-6"	4'-2"	2'-8"	-	34.1
4'-0"	6'-0"	4'-6"	3'-2"	1'-0"	111.8
4'-6"	6'-6"	5'-0"	3'-6"	1'-0"	146.3
5'-0"	7'-0"	5'-4"	4'-0"	1'-0"	186.3
5'-6"	7'-6"	5'-8"	4'-4"	1'-0"	232.8
6'-0"	8'-0"	6'-2"	4'-8"	1'-0"	284.3
6'-6"	8'-6"	6'-6"	5'-2"	1'-0"	343.8

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
CONCRETE HEADWALLS FOR PIPE CULVERTS  
R.I. STANDARD 2.1.0  
JUNE 15, 1998

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
SMITHFIELD STORMWATER QUALITY IMPROVEMENTS  
SMITHFIELD RHODE ISLAND  
DETAILS - 3

NO.	DATE	BY
1	6/19	RJS

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE \_\_\_\_\_

**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE  
LITTLETON, RI 02883  
601-334-1199



**LEVEL 3  
TRANSPORTATION  
MANAGEMENT  
PLAN**

Project Name: **Smithfield Stormwater Quality Improvements**

RI Design Contract No(s): **2016-EE-058**

RI Construction Contract No(s):

Submission: **ADV**

Date: **5/2/2019**

**PROJECT INFORMATION**

**Brief Project Description:** This project shall consist of the construction of four roadside stormwater treatment units, with two located along I-295, one on Douglas Pike (Route 7), and one along Old County Road in the Town of Smithfield, County of Providence, Rhode Island. The work encompassed in this Contract shall include, but not be limited to, the construction of three (3) bioretention swales, and one (1) bioretention area. The improvements associated with the work will generally consist of the stripping of top soil, excavation of existing material, installation of filter media, installation of rip rap dissipators, check dams, spillways, grouted sediment forebays, berms, loam, plantings, installation of catch basins, frame and grate, and piping. Other work items include the cleaning of catch basins and pipes, installation and maintenance of erosion control devices, and all other incidentals necessary to complete the work to the satisfaction of the Engineer.

**General Work Limits:** Work will take place at specified locations along I-295, Douglas Pike and Old County Road in Smithfield, RI.

WORK ZONE LOCATIONS			
ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
<b>I-295</b>	±4,000' N of Mountindale Rd	±1,830' S of Wolf Hill Rd	±650
<b>Douglas Pike</b>	±450' E of Maureen Dr	±2,200' W of Whipple Rd	±325
<b>Old County Road</b>	±215' N of Jaylin Dr	Wolf Rd	±185

**General Project Schedule\*:** Work is expected to begin in Spring 2019 and be completed by Spring 2020.

\*The information in this section is not intended to and shall not supersede the approved schedule and milestone/completion dates for the project.

## TRAFFIC-RELATED WORK RESTRICTIONS

General Restrictions: See attached General Restrictions chart (Attachment A)

Holiday Restrictions: See attached General Restrictions chart (Attachment B)

## TEMPORARY TRAFFIC CONTROL PLANS

*These RIDOT- and/or Designer-Developed TTC Plans will be used during the work on this project*

RIDOT TYPICAL TTC PLANS	Included in:		DESIGNER-DEVELOPED TTC PLANS	Included in:	
	TMP	Plan Set		TMP	Plan Set
<input type="checkbox"/> Mobile Operation	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Work Beyond the Shoulder	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Shoulder Closure - Two Lane Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Shoulder Closure - Limited Access	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1-Side Lane Shift - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> 2-Side Lane Shift - Two Lane Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Shift - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Lane Closure - Two Lane Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Four Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Double Lane Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

## PUBLIC INFORMATION PLAN

*These strategies will be used to provide information concerning the project to road users and the community*

SELECTED STRATEGIES	RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS
RIDOT travel advisories news releases	Contractor's TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
RIDOT travel advisories web site	Contractor's TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
RIDOT 511 traveler information system	Contractor's TMP Imp. Mngr. to send RIDOT notification form to RIDOT TMC min. 48 hrs. in advance of restrictions.

## TRANSPORTATION OPERATIONS PLAN

*These strategies will be used to provide improved transportation operations/safety within project work zones*

SELECTED STRATEGIES	RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS
Cooperative police enforcement	Flagpersons and/ or uniformed police officers shall be required to direct traffic

## PERFORMANCE MONITORING, CHANGES TO TMP, & CONTINGENCIES

The Contractor's **TMP Implementation Manager** (if identified below) is responsible for keeping the portion of the project being used by public traffic in a condition that (1) safely and adequately accommodates such traffic and (2) is in accordance with the Traffic-Related Work Restrictions, the Temporary Traffic Control Plans, and where appropriate, the other transportation management strategies identified above. The **RIDOT TMP Implementation Manager** or his/her responsible designee should (1) inspect the project work zones at initial setup, at the start of each subsequent work day, and just prior to extended breaks in the work (e.g., weekends) for conformance with the Temporary Traffic Control Plans, the *ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features*, and where applicable, the other transportation management strategies identified above and (2) document all work zone-related feedback and complaints that are received from the public.

If at any time (1) a significant deviation from any of the strategies included in the TMP (e.g., the use of an alternate construction sequence) is desired by one or more members of the project implementation team, (2) field observations and/or data suggest that impacts to road users are or will be unacceptable, or (3) one or more performance requirements established in the TMP are not being met in the field, the RIDOT TMP Implementation Manager shall report the situation to his/her supervisor or Division/Section/Unit manager. The supervisor / manager will coordinate with the State Traffic Engineer, the Deputy Chief Engineer, the TMP Implementation Manager(s), the Chief Engineer, and/or other interested parties as appropriate and/or necessary to consider and determine whether revised and/or alternate strategies should be implemented in an effort to lessen the adverse safety and/or mobility impacts of the project. If the supervisor / manager deems that strategy changes should be implemented, the changes shall be documented in a revised version of the TMP and the Deputy Chief Engineer, the State Traffic Engineer, and the Chief Engineer must approve of the revised TMP prior to their implementation.

If a significant deviation from any of the strategies included in the TMP is requested by the Contractor, unless directed otherwise by the RIDOT the Contractor is responsible for preparing and submitting to the RIDOT TMP Implementation Manager appropriate documentation (e.g., design calculations, analysis reports, Temporary Traffic Control Plans, etc.) showing that the requested change(s) are (1) feasible and (2) expected to result in safety and mobility impacts that are no more adverse than the impacts resulting from the strategies already included in the latest approved TMP. The RIDOT will review and consider the submittal(s) as described in the preceding paragraph and will determine whether the changes should be implemented. If the requested changes are approved by the RIDOT, unless otherwise directed by the RIDOT the Contractor shall prepare and submit to the RIDOT TMP Implementation Manager a revised version of the latest approved TMP in both printed and electronic (Microsoft® Excel) format that documents all of the approved changes. Work to implement the changes shall not begin until the Deputy Chief Engineer, the State Traffic Engineer, and the Chief Engineer have approved of the revised TMP.

When unexpected events (e.g., crashes, inclement weather, unforeseen traffic demands, etc.) occur in a project work zone where one or more lanes are closed, the RIDOT TMP Implementation Manager or his/her responsible designee should (1) determine whether or not the lane closure(s) can/should be removed in order to improve traffic operations and/or minimize delays and (2) if deemed appropriate, take action to remove the lane closure(s).

Other Requirements:

### TMP APPROVALS

*All approvals must be obtained prior to start of work*

ADMIN. OF PROJECT MNGMT.			STATE TRAFFIC ENGINEER			CHIEF ENGINEER		
Signature: <span style="font-size: 1.5em; color: blue;">n/a</span>			Signature: <span style="font-size: 1.5em; color: blue;">Steve Pristawa</span>			Signature: <span style="font-size: 1.5em; color: blue;">Robert Rocchio</span>		
Date: _____			Date: <span style="font-size: 1.5em; color: blue;">5-15-19</span>			Date: <span style="font-size: 1.5em; color: blue;">5-16-19</span>		
Revision #	Initials	Date	Revision #	Initials	Date	Revision #	Initials	Date

### TMP IMPLEMENTATION MANAGERS

*Project managers with the primary responsibility & authority for implementation of this TMP*

RIDOT	CONTRACTOR (if contract work)
Name: <b>Joseph Baker, PE, PMP</b>	Name: _____
Title: <b>Manager, Project Management</b>	Title: _____
Unit: <b>Office of Stormwater Management</b>	Company/Unit: _____
Office Phone: <b>401-734-4898</b>	Office Phone: _____
Mobile Phone: <b>401-641-5722</b>	Mobile Phone: _____
E-Mail: <b><a href="mailto:Joseph.Baker@dot.ri.gov">Joseph.Baker@dot.ri.gov</a></b>	E-Mail: _____

Location	Time of Day		MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC <sup>1,5</sup>						
	From	To	Day of Week						
			SUN	MON	TUES	WED	THURS	FRI	SAT
I-295	0:00	9:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	9:00	15:00	ALL	1S	1S	1S	1S	1S	ALL
	15:00	24:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Douglas Pike	0:00	9:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	9:00	15:00	ALL	1L	1L	1L	1L	1L	ALL
	15:00	24:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Old County Road	0:00	9:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	9:00	14:00	ALL	1L (ALT)	1L (ALT)	1L (ALT)	1L (ALT)	1L (ALT)	ALL
	14:00	24:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL

**LEGEND**

<b>ALL</b>	All travel lanes and shoulders shall remain open to traffic
<b>1L</b>	A minimum of one 11-foot wide travel lane in each direction shall remain open to traffic
<b>1L (ALT)</b>	A minimum of one 11-foot wide travel lane shall remain open to alternating traffic. <sup>5</sup>
<b>1S</b>	All travel lanes and right shoulders shall remain open to traffic

**NOTES**

- 1 The set-up and break-down of temporary traffic control devices within a traveled way shall be construed as a closure of that traveled way.
- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
- 3 At locations with a sidewalk(s), a minimum of one sidewalk on one side of the roadway shall be open to pedestrian traffic at all times.
- 4 Access to and egress from all side streets, driveways, buildings, and other pedestrian pathways intersecting the Project work zones shall be maintained at all times unless otherwise noted or shown on Plans.
- 5 The active work zone length shall not exceed 500 feet during use of the one-lane alternating traffic control set-up.



### **Holiday Restrictions**

**NOTE: IN CASE OF DISCREPANCY BETWEEN THESE HOLIDAY RESTRICTIONS AND THE GENERAL RESTRICTIONS (ATTACHMENT A), THESE HOLIDAY RESTRICTIONS SHALL GOVERN.**

No lane and/or shoulder closures allowed after 13:00 on the Friday preceding a holiday weekend.

#### **EASTER SUNDAY**

No lane and/or shoulder closures allowed on Saturday.

No lane and/or shoulder closures allowed on Sunday until 20:00 (after 20:00, General Restrictions shall apply).

#### **NEW YEAR'S DAY, INDEPENDENCE DAY, & CHRISTMAS DAY**

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on the holiday.

#### **VETERANS DAY**

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on Veterans Day until 20:00 (after 20:00, General Restrictions shall apply).

#### **DR. MARTIN LUTHER KING JR. DAY, VICTORY DAY, & COLUMBUS DAY**

No lane and/or shoulder closures allowed on Saturday and/or Sunday.

No lane and/or shoulder closures allowed on Monday until 20:00 (after 20:00, General Restrictions shall apply).

#### **MEMORIAL DAY & LABOR DAY**

No lane and/or shoulder closures allowed on Saturday and/or Sunday.

No lane and/or shoulder closures allowed on Monday until 22:00 (after 22:00, General Restrictions shall apply).

#### **THANKSGIVING DAY**

No lane and/or shoulder closures allowed after 13:00 on the Wednesday preceding Thanksgiving Day.

No lane and/or shoulder closures allowed on Thanksgiving Day, Friday, Saturday, and/or Sunday.