

April 30, 2020

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7602812

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2018-CB-038

FEDERAL-AID PROJECT NO. FAP Nos: BRO-0107(006)

**Bridge Group 53 - Union Village RR**

Great Road (STA. 76+15 to 84+50)

Lapre Road (STA. 1+15 to 3+00)

Heroux Drive (STA. 0+00 to 2+65)

CITY/TOWN OF North Smithfield

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 3 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. Specifications - Job Specific**

1. Page JS-96

Remove and replace Page JS-96 in its entirety with revised Page JS-96 (R-1) attached to this Addendum No. 3. Note 3 has been revised to clarify the horizontal deflection limit of the temporary earth support system.

2. Page JS-97

Remove and replace Page JS-97 in its entirety with revised page JS-97 (R-1) attached to this Addendum No. 3. The requirements for controlling water leakage in the "Construction Methods" section have been clarified.

3. Page JS-98

Remove and replace Page JS-98 in its entirety with revised page JS-98 (R-1) attached to this Addendum No. 3. The horizontal deflection limit of the temporary earth support system has been clarified.

**B. Distribution of Quantities**

1. Index Page 1

Remove and replace Index Page 1 in its entirety with revised Index Page 1 (R-1) attached to this Addendum No. 3. Updated items are indicated in bold.

2. Page 8  
Remove and replace Page 8 in its entirety with revised Page 8 (R-1) attached to this Addendum No. 3. Item Code 204.0100 has been updated.
3. Page 8a  
Insert Page 8a attached to this Addendum No. 3. Item Code 204.0100 has been updated and extends onto this page.
4. Page 9  
Remove and replace Page 9 in its entirety with revised Page 9 (R-1) attached to this Addendum No. 3. Item Code 204.0100 has been updated.

**C. Plans**

1. VOLUME 1 SHEET 2 - STANDARD PLAN SYMBOLS & STANDARD LEGEND  
Remove and replace Sheet 2 in its entirety with revised Sheet 2 (R-1) attached to this Addendum No. 3. The following line types have been updated to display correctly: GUARDRAIL, RETAINING WALL, FIELD STONE WALL, FENCE, CUT AND MATCH, BALED HAY RI STD 9.1.0, BALED HAY & SILT FENCE RI STD 9.3.0. These line types have been updated to display correctly as indicated on subsequent sheets attached to this Addendum No. 3.
2. VOLUME 1 SHEET 5 (R-1) - JOB SPECIFIC SYMBOLS, LEGEND & NOTES  
Remove and replace Sheet 5 (R-1) in its entirety with revised Sheet 5 (R-2) attached to this Addendum No. 3. This sheet has been revised.
3. VOLUME 1 SHEET 6 - KEY PLAN  
Remove and replace Sheet 6 in its entirety with revised Sheet 6 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
4. VOLUME 1 SHEET 9 - HIGHWAY GENERAL PLAN NO. 1  
Remove and replace Sheet 9 in its entirety with revised Sheet 9 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
5. VOLUME 1 SHEET 10 - HIGHWAY GENERAL PLAN NO. 2  
Remove and replace Sheet 10 in its entirety with revised Sheet 10 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
6. VOLUME 1 SHEET 14 - DRAINAGE & UTILITY PLAN NO. 1  
Remove and replace Sheet 14 in its entirety with revised Sheet 14 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
7. VOLUME 1 SHEET 15 - DRAINAGE & UTILITY PLAN NO. 2  
Remove and replace Sheet 15 in its entirety with revised Sheet 15 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
8. VOLUME 1 SHEET 17 - LOCATION PLAN NO. 1  
Remove and replace Sheet 17 in its entirety with revised Sheet 17 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.

9. VOLUME 1 SHEET 18 - LOCATION PLAN NO. 2  
Remove and replace Sheet 18 in its entirety with revised Sheet 18 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
10. VOLUME 1 SHEET 19 - LOCATION PLAN NO. 3  
Remove and replace Sheet 19 in its entirety with revised Sheet 19 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
11. VOLUME 1 SHEET 20 - LOCATION PLAN - TRAVERSE SHEET  
Remove and replace Sheet 20 in its entirety with revised Sheet 20 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
12. VOLUME 1 SHEET 26 - HIGHWAY GRADING PLAN - HEROUX DR.  
Remove and replace Sheet 26 in its entirety with revised Sheet 26 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
13. VOLUME 1 SHEET 27 - SIGNING 7 STRIPING PLAN NO. 1  
Remove and replace Sheet 27 in its entirety with revised Sheet 27 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
14. VOLUME 1 SHEET 28 - SIGNING & STRIPING PLAN NO. 2  
Remove and replace Sheet 28 in its entirety with revised Sheet 28 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
15. VOLUME 1 SHEET 29 - MAINTENANCE & PROTECTION OF TRAFFIC PLAN NO. 1  
Remove and replace Sheet 29 in its entirety with revised Sheet 29 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions. Additionally, callouts and notes have been updated to clarify the type of temporary barrier.
16. VOLUME 2 SHEET 30 - MAINTENANCE & PROTECTION OF TRAFFIC PLAN NO. 2  
Remove and replace Sheet 30 in its entirety with revised Sheet 30 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions. Additionally, callouts and notes have been updated to clarify the type of temporary barrier.
17. VOLUME 1 SHEET 31 - TRAFFIC CONTROL DETAILS  
Remove and replace Sheet 31 in its entirety with revised Sheet 31 (R-1) attached to this Addendum No. 3. This sheet has been revised.
18. VOLUME 1 SHEET 32 - DETOUR PLAN & CONSTRUCTION SIGN SUMMARY  
Remove and replace Sheet 32 in its entirety with revised Sheet 32 (R-1) attached to this Addendum No. 3. This sheet has been revised.
19. VOLUME 1 SHEET 33 - TEMPORARY SIGNAL PLAN  
Remove and replace Sheet 33 in its entirety with revised Sheet 33 (R-1) attached to this Addendum No. 3. Line types have been updated to display correctly based on Sheet 2 revisions.
20. VOLUME 2 SHEET 10 - STAGE CONSTRUCTION SECTIONS  
Remove and replace Sheet 10 in its entirety with revised Sheet 10 (R-1) attached to this Addendum No. 3. This sheet has been revised.

21. VOLUME 2 SHEET 11 - STAGE CONSTRUCTION DETAILS

Remove and replace Sheet 11 in its entirety with revised Sheet 11 (R-1) attached to this Addendum No. 3. This sheet has been revised.

**D. Clarification**

1. COVID-19 Bid Opening Procedure

The COVID-19 Bid Opening Procedure is attached to this Addendum No. 3.

*for Anthony Marchetti*

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RI Department of Transportation

Administrator, Division of Project Management

**DESIGN:**

It shall be the Contractor's responsibility to design the Temporary Earth Support System for this project. Any portions of the Temporary Earth Support System that lie within the anticipated deflection distance of any traffic channelizing devices shall be design to withstand a vehicular collision force as described in the latest version of the AASHTO LRFD Bridge Design Specifications.

All designs of the Temporary Earth Support System shall include:

1. Detailed calculations of analyses and designs of the Temporary Earth Support System which includes all loads that shall be applied to the system including construction surcharge.
2. A detailed narrative outlining the construction sequence. The narrative shall detail the sequencing of the Temporary Earth Support System construction, including wall and ground anchor/brace installation, pre-excavation, mass excavation, permanent below-grade structure construction, ground anchor de-tensioning/brace removal, and waterproofing process for each Temporary Earth Support System.
3. The Contractor shall design the Temporary Earth Support System to limit horizontal deflections after installation. The deflections shall be limited to prevent settlement related issues to surrounding areas being supported by the Temporary Earth Support System. These include, but are not limited to, pavement cracking, support of utilities, etc.
4. Plans of the Contractor's proposed monitoring system to survey horizontal and vertical movements, indicating proposed monitoring materials, equipment, and procedures.
5. A Movement Mitigation Plan, developed for immediate implementation should movement of the Temporary Earth Support System exceed the specified criterion in these Special Provisions. The proposed Movement Mitigation Plan shall include, but not be limited to, additional bracing, segmented and/or slotted excavation, bracing slabs, water recharging and/or other measures.
6. Manufacturer's information for equipment and procedures to be used for conducting performance and proof tests on the ground anchors and preloading of internal braces, tie rods and anchor rods. The Contractor shall submit diagrams showing the geometry of the equipment, end hardware, method of locking off specified pretension or preload, and load and calibration data for the system of jack, load cells and gauges, including:
  - a. A calibration, within six months prior to use on the project, conducted by a certified testing agency.
  - b. A diagram of the Contractor's proposed equipment set-ups for monitoring either the elongation of the anchor tendon during performance and proof tests or the movement of the wall with respect to the brace during preloading. The proposed test equipment set-ups shall be completely independent of the jack and shall include a minimum of one micrometer dial gauge, capable of measuring anchor tendon extension to the nearest 0.001 inch, having six inches of travel and shall be mounted on an adjustable tripod or other device with flexible extension arms or a "goose neck" to permit rapid alignment of the dial gauge axis with the axis of the tiebacks. The flexible extension arms shall be of adequate stiffness to hold the instrument in place to provide accurate readings.

**Qualifications:**

The Contractor shall submit:

1. Qualifications and relevant experience of the designer(s) of the Temporary Earth Support System, including Dewatering systems. The designer(s) shall be a Registered Rhode Island Professional Engineer and have a minimum of 10 years of relevant design experience for this work.
2. Qualifications and experience of the Contractor and Subcontractor personnel doing the work, including the supervisory personnel who shall be assigned to the project and be responsible for the construction, maintenance and removal of the designed systems. The supervisory personnel shall have a minimum of 10 years of relevant construction experience and shall have successfully constructed a minimum of 5 projects with similar work.

The Contractor shall adhere to any and all requirements of the G&W Special provisions contained in the General Provisions – Contract Specific (Appendix B).

All calculations shall be prepared and stamped by a Professional Engineer registered in the State of Rhode Island.

**CONSTRUCTION METHODS:**

It is anticipated that shallow bedrock may be encountered in the zone of the Temporary Earth Support System and embedment of the excavation system may be limited. For this condition Soldier piles and lagging system shall be pre-drilled a minimum of 2 feet deep into the bedrock for support of H-piles.

The Contractor is responsible for the removal of obstructions along the Temporary Earth Support System alignment to a depth of 15 feet below the existing grade. If an obstruction is encountered at a depth greater than 15 feet, the Contractor shall notify the Engineer immediately and propose a means of clearing the obstruction that will be subject to the approval of the Engineer.

The Contractor shall control water leaking through the walls, as required, so as not to damage the permanent work. If leaking water is determined by either the Contractor or the Engineer to have damaged the permanent work, the Contractor is required to make repairs to the permanent work at the Contractor's own expense and to the satisfaction of the Engineer.

**Adjacent Structures:**

The Contractor shall be solely responsible for conducting the work in a manner that protects existing and new structures or utilities from damage associated with the work. Any damage shall be promptly repaired or replaced by the Contractor to the satisfaction of the Owner of the damaged facility at no additional cost to the State. Adjacent above- and below-grade site improvements may be sensitive to ground movement and settlement.

**Movement Control:**

The Contractor shall monitor the horizontal movements of the Temporary Earth Support System. The Contractor shall install lateral monitoring points at the top of the Temporary Earth Support System every fifteen feet along the face of the support system. The Contractor shall monitor the points by survey for lateral movement and submit the survey data at least once a week or more often as required by the Engineer, at no additional cost to the State.

The Limiting Value for horizontal movement of the wall in the direction towards the excavation is defined as the design deflection of the wall under full design loading. The baseline value of deflection will be taken prior to commencement of excavation activities.

If the Limiting Value is approached or exceeded, the Contractor shall immediately notify the Engineer, and shall implement the Contractor's approved Movement Mitigation Plan to take immediate steps to control any further movement by revising his procedures, by providing supplemental bracing or by other measures (working 24 hours per day and temporarily terminating work in the area of movement if necessary), as required by the Engineer.

If movement of the Temporary Earth Support System reaches or exceeds the specified Limiting Values, or the Contractor's operations cause any damage to adjacent facilities, the Engineer may direct the Contractor to temporarily terminate the work in the area where such movement is occurring and implement all necessary mitigation measures and/or repairs to the satisfaction of the Engineer. There shall be no claims for additional payment by the Contractor nor will there be an extension of the project Completion Dates for delays related to stopping work because of movements and/or damages, mitigating movements and/or repairing damages.

**SUBMITTALS:**

The following submittals shall apply to the Temporary Earth Support System and shall be made by the Contractor for review by the Engineer prior to start of installation. The Contractor shall conform to all submittal requirements of the Contract (Special Provision 105.02), including submitting the information specified herein to the Engineer.

- Design Calculations
- Shop drawings detailing all components and layout of proposed system

**METHOD OF MEASUREMENT:**

This item of work does not require a measurement for payment.

**BASIS OF PAYMENT:**

Payment under this heading will be made at the Lump Sum Contract Unit Price Bid for this Item, which shall include all labor, materials, equipment and incidental costs required to complete the work.

Eighty-five (85%) percent of the Lump Sum Price Bid for this Item will be paid after the approved installation of the temporary earth support system. The final fifteen (15%) percent of the Lump Sum Price Bid for this Item will be paid upon the complete removal of the temporary earth support system from the project site at the completion of the work.

**Table of Contents - Distribution of Quantities**

Project Name - Bridge Group 53 - Union Village RR

Estimate Name - Addendum No. 3

R.I. Contract No. - 2018-CB-038

FAP Nos: BRO-0107(006)

ItemCode	Description	Page
109.9901	RIDEM REQUIRED CONTRACT REVISIONS AND/OR ADDITIONS	1
201.0321	CLEARING AND GRUBBING	1
201.0402	REMOVE AND DISPOSE CONCRETE CURB	1
201.0403	REMOVE AND DISPOSE SIDEWALKS	2
201.0408	REMOVE AND DISPOSE RIGID PAVEMENT	2
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	3
201.0411	REMOVE AND DISPOSE CATCH BASIN AND GUTTER INLETS	4
201.0414	REMOVE AND DISPOSE PIPE - ALL SIZES	4
201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	4
201.0419	REMOVE AND DISPOSE FENCE	5
201.0421	REMOVE AND DISPOSE BITUMINOUS CURB	5
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	5
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	5
201.9901	REMOVE EXISTING ABANDONED GAS MAIN	6
202.0100	EARTH EXCAVATION	6
202.0700	COMMON BORROW	6
202.0800	GRAVEL BORROW	6
203.0100	STRUCTURAL EXCAVATION EARTH	7
203.0220	STRUCTURAL EXCAVATION ROCK MECHANICAL	7
203.0310	STRUCUTRAL EXCAVATION MASONRY	7
203.0400	STRUCTURAL EXCAVATION UNCLASSIFIED	8
203.0700	PERVIOUS FILL	8
<b>204.0100</b>	<b>TRIMMING AND FINE GRADING</b>	<b>8</b>
205.0240	TRENCH ROCK EXCAVATION (0-7')	9
206.0301	COMPOST FILTER SOCK	9
209.0120	BALED STRAW CATCH BASIN INLET PROTECTION STANDARD 9.8.0	9
211.0100	CONSTRUCTION ACCESSES STANDARD 9.9.0	10
212.2100	MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS	10
213.0100	PLACEMENT OF MILLINGS BENEATH GUARDRAIL	10
302.0100	GRAVEL BORROW SUBBASE COURSE	11
303.0100	SPECIAL GRADED AGGREGATE FOR SHAPING AND TRIMMING DRIVEWAYS OR SHOULDERS	11
401.1000	CLASS 19.0 HMA	11
401.1003	CLASS 19.0 HMA FOR PATCHING	12
401.1005	CLASS 19.0 HMA FOR MISCELLANEOUS WORK	13
401.2000	CLASS 12.5 HMA	13
401.2003	CLASS 12.5 HMA FOR PATCHING	14
401.3000	CLASS 9.5 HMA	14
401.4002	CLASS 4.75 HMA FOR LEVELLING	15
403.0300	ASPHALT EMULSION TACK COAT	15
404.0400	PRIME COAT	15
404.0501	BLOTTER MATERIAL FOR PRIME COAT	16
410.1000	TEMPORARY PATCHING MATERIAL/TRENCHES	16
601.0200	CLASS XX PORTLAND CEMENT CONCRETE	17
601.0300	CLASS A PORTLAND CEMENT CONCRETE	17
701.0412	REINFORCED CONCRETE PIPE M 170 CLASS III 12 INCH	17
701.0418	REINFORCED CONCRETE PIPE M 170 CLASS III 18 INCH	18
701.7712	12 INCH REINFORCED CONCRETE PIPE END SECTION STANDARD 2.3.0	18
701.7718	18 INCH REINFORCED CONCRETE PIPE END SECTION STANDARD 2.3.0	18
701.8002	PIPE BEDDING CLASS B	19



### Distribution of Quantities

Project Name - Bridge Group 53 - Union Village RR  
 Estimate Name - Addendum No. 3  
 R.I. Contract No. - 2018-CB-038  
 FAP Nos: BRO-0107(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
020	203.0310 Cont.	79+97, LT		2.00	0011	01
		GREAT ROAD - EXISTING STONE WALL				
		79+55 TO 80+23, LT		9.60	0011	01
		LAPRE ROAD - EXISTING STONE WALL				
		2+80 TO 2+85, RT		0.30	0011	01
		ROUNDING				
		PROJECT WIDE		0.20	0011	01
<b>Item 203.0310 Total:</b>				<b>14.00</b>		
021	203.0400	<b>STRUCTURAL EXCAVATION UNCLASSIFIED</b>	<b>CY</b>			
		BRIDGE NO. 107				
		SUBSTRUCTURE		21.00	0011	01
<b>Item 203.0400 Total:</b>				<b>21.00</b>		
022	203.0700	<b>PERVIOUS FILL</b>	<b>CY</b>			
		BRIDGE NO. 107				
		NORTH ABUTMENT		209.40	0011	01
		NORTH WINGWALLS		46.44	0011	01
		SOUTH ABUTMENT		161.90	0011	01
		SOUTH WINGWALLS		29.81	0011	01
		ROUNDING				
		BRIDGE NO. 107		2.45	0011	01
<b>Item 203.0700 Total:</b>				<b>450.00</b>		
023	204.0100	<b>TRIMMING AND FINE GRADING</b>	<b>SY</b>			
		PROJECT WIDE				
		QUANTITIY WITHIN ITEM		5.47	0011	01
		202.0800				
		QUANTITY WITHIN ITEM 302.0100		3,013.88	0011	01
		QUANTITY WITHIN ITEM		247.78	0011	01
		L02.0102 LOCATED ADJACENT TO				
		ROADWAY				
		QUANTITY WITHIN SIDEWALK		138.96	0011	01

**Distribution of Quantities**

Project Name - Bridge Group 53 - Union Village RR

Estimate Name - Addendum No. 3

R.I. Contract No. - 2018-CB-038

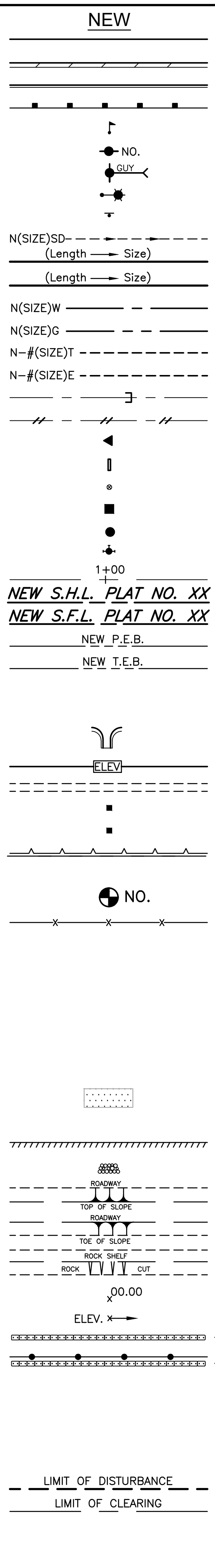
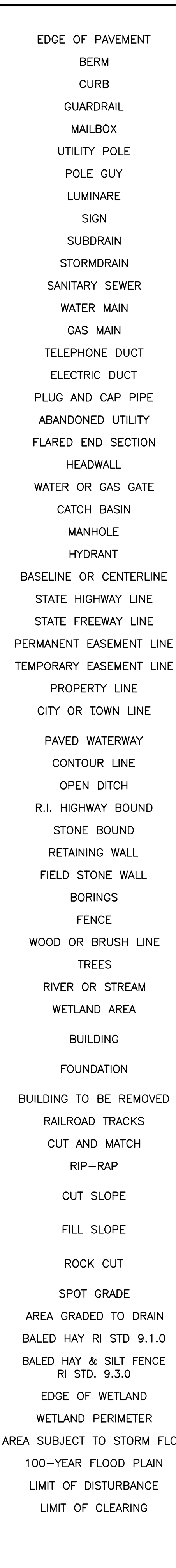
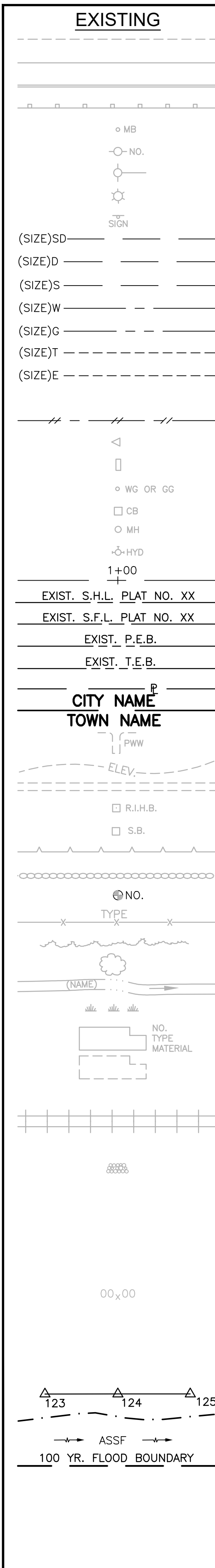
FAP Nos: BRO-0107(006)

<b>Item No.</b>	<b>Item Code</b>	<b>Description</b>	<b>UM</b>	<b>Qty.</b>	<b>Pay Code</b>	<b>Seq. No.</b>
023	204.0100	Cont. AREAS				

### Distribution of Quantities

Project Name - Bridge Group 53 - Union Village RR  
 Estimate Name - Addendum No. 3  
 R.I. Contract No. - 2018-CB-038  
 FAP Nos: BRO-0107(006)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
023	204.0100	Cont. ROUNDING		18.91	0011	01
<b>Item 204.0100 Total:</b>				<b>3,425.00</b>		
024	205.0240	<b>TRENCH ROCK EXCAVATION (0-7')</b>	<b>CY</b>			
		PROJECT WIDE				
		CONTINGENCY QUANTITY		5.00	0011	01
<b>Item 205.0240 Total:</b>				<b>5.00</b>		
025	206.0301	<b>COMPOST FILTER SOCK</b>	<b>LF</b>			
		10% CONTINGENCY FOR GENERAL USE				
		PROJECT WIDE		82.00	0011	01
		ALONG G&W RAILROAD TRACKS				
		PROJECT WIDE		17.00	0011	01
		GREAT ROAD				
		77+54 TO 80+27, RT		265.50	0011	01
		80+73 TO 82+39, RT		224.40	0011	01
		HEROUX DRIVE				
		0+30 TO 1+43, LT		113.60	0011	01
		1+56 TO 2+43, LT		93.40	0011	01
		2+74 TO 3+22, RT		97.90	0011	01
		ROUNDING				
		PROJECT WIDE		6.20	0011	01
<b>Item 206.0301 Total:</b>				<b>900.00</b>		
026	209.0120	<b>BALED STRAW CATCH BASIN INLET</b>	<b>LF</b>			
		<b>PROTECTION STANDARD 9.8.0</b>				
		GREAT ROAD				
		76+26, LT		1.00	0011	01
		76+51, RT		1.00	0011	01
		76+54, LT		1.00	0011	01
		77+25, LT		1.00	0011	01
		77+27, RT		1.00	0011	01
		79+07, LT		1.00	0011	01



1.1.0	UNDERDRAIN	7.4.2	GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)	AB	ADJUST CATCH BASIN TO GRADE
1.3.0	CONCRETE CONNECTING COLLAR	7.5.0	BITUMINOUS CONCRETE LIP CURB	ABM	ADJUST CATCH BASIN TO MANHOLE
2.1.0	CONCRETE HEADWALLS FOR PIPE CULVERTS	7.5.1A	BITUMINOUS BERM (CONSTRUCTION METHOD A)	AC	ADJUST CURB STOP TO GRADE
2.2.0	STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS	7.5.1B	BITUMINOUS BERM (CONSTRUCTION METHOD B)	AD	ADJUST ELECTRAGE MANHOLE TO GRADE
2.3.0 (DIA.)	PRECAST CONCRETE FLARED END SECTION	7.6.0	CURB SETTING DETAIL	AE	ADJUST ELECTRIC MANHOLE TO GRADE
3.2.0	BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE	8.2.0	BITUMINOUS CONCRETE DITCH	AFC	ADJUST FRAME AND COVER TO GRADE
3.2.1 (DIA.)	BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE	8.3.0	RIP-RAP DITCH	AFG	ADJUST FRAME AND GRATE TO GRADE
3.3.0	BRICK/SOLID BLOCK TYPE "D" SQUARE CATCH BASIN	8.4.0	PAVED WATERWAY	AG	ADJUST GAS GATE BOX TO GRADE
3.3.2	BRICK/SOLID BLOCK TYPE "F" SQUARE CATCH BASIN	9.1.0	BALED HAY EROSION CHECK	AHH	ADJUST HANDHOLE TO GRADE
3.3.3	SOLID BLOCK FLUSH SQUARE CATCH BASIN	9.2.0	SILT FENCE DETAIL	AS	ADJUST SANITARY SEWER MANHOLE TO GRADE
3.4.0	BRICK/SOLID BLOCK TYPE "D" ROUND CATCH BASIN	9.3.0	BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED	AT	ADJUST TELEPHONE MANHOLE TO GRADE
3.4.1	BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET	9.4.0	BALED HAY DITCH AND SWALE EROSION CHECK	AW	ADJUST WATER GATE BOX TO GRADE
3.4.2	BRICK/SOLID BLOCK TYPE "F" ROUND CATCH BASIN	9.5.0	LOG AND HAY CHECK DAM	BCD	BITUMINOUS CONCRETE DRIVEWAY
3.4.3	BRICK/SOLID BLOCK TYPE "R" CATCH BASIN	9.7.0	DEWATERING BASIN		3" BITUMINOUS CONCRETE TYPE I-2
3.4.4	SOLID BLOCK FLUSH ROUND CATCH BASIN	9.8.0	BALED HAY CATCH BASIN INLET PROTECTION		8" GRAVEL BORROW SUBBASE COURSE
3.4.5 (DIA.)	BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN	9.9.0	CONSTRUCTION ACCESS	BPS	BUILD NEW STRUCTURE OVER EXISTING PIPE
3.5.0	SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN	10.1.0	WET STONE MASONRY RETAINING WALL	CCB	CLEAN CATCH BASIN
3.5.1 (SIZE)	SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN	10.2.0	RUBBLE MASONRY WALL	CCP	CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
3.6.0	BRICK/SOLID BLOCK DROP INLET	10.3.0	CONCRETE RETAINING WALL	CFP	CLEAN AND FLUSH PIPE
3.7.0 (DIA.)	BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"	10.4.0	STONE MASONRY STEPS	CG	CLEARING AND GRUBBING
4.2.0	PRECAST 4'-0" ROUND MANHOLE	14.1.0	CONCRETE HIGHWAY BOUND	CMH	CLEAN MANHOLE
4.2.1	PRECAST 5'-0" ROUND MANHOLE	15.1.0	POST AND MOUNTINGS FOR RURAL MAILBOX	CP (DEPTH)	COLD PLANE
4.2.2	PRECAST 6'-0" ROUND MANHOLE	15.2.0 (NO.)	POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES	CPP	CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
4.3.0 (SIZE)	PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN	18.2.0	PRECAST TYPE "A" HANDHOLE	DB	REMOVE AND DISPOSE BITUMINOUS CURB
4.4.0 (DIA.)	PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN	18.2.2	HEAVY DUTY TYPE "H" HANDHOLE	DC	REMOVE AND DISPOSE CONCRETE CURB
4.5.0	PRECAST CONCRETE DROP INLET	18.3.0	ALUMINUM LIGHTING STANDARDS	DCB	REMOVE AND DISPOSE CATCH BASIN
4.5.1	PRECAST CONCRETE DROP INLET LATERAL OUTLET	20.2.0	BI-DIRECTIONAL CONTROL DEVICE	DDI	REMOVE AND DISPOSE DROP INLET
4.5.2	PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET	24.6.1	STREET SIGN MOUNTING DETAIL	DF	REMOVE AND DISPOSE FENCE
5.3.0	CATCH BASIN AND MANHOLE STEP	26.2.0	POLYETHYLENE DRUM WITH MARKINGS	DFC	REMOVE AND DISPOSE FRAME AND COVER
5.4.0	CONCRETE COLLARS	26.3.0	PVC PLASTIC PIPE TYPE III BARRICADE	DFE	REMOVE AND DISPOSE FLARED END SECTION
6.1.0	LIGHT-DUTY SQUARE FRAME AND ROUND COVER	31.1.0	CHAIN LINK FENCE 3'-0" TO 4'-0"	DFG	REMOVE AND DISPOSE FRAME AND GRATE
6.1.1	HEAVY DUTY SQUARE FRAME AND ROUND COVER	31.2.0	CHAIN LINK FENCE 5'-0" TO 6'-0"	DFH	REMOVE AND DISPOSE FIRE HYDRANT
6.2.0	LIGHT-DUTY ROUND FRAME AND COVER	31.2.1	CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST	DFP	REMOVE AND DISPOSE FLEXIBLE PAVEMENT
6.2.1	HEAVY-DUTY ROUND FRAME AND COVER	31.3.0	WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)	DG	REMOVE AND DISPOSE GUARDRAIL
6.3.0	SQUARE FRAME AND GRATE	34.1.0	TYPICAL GUARDRAIL INSTALLATION	DH	REMOVE AND DISPOSE HEADWALL
6.3.1	SQUARE FRAME AND GRATE	34.2.0	STEEL BEAM GUARDRAIL	DHB	REMOVE AND DISPOSE HIGHWAY BOUND
6.3.2	SQUARE FRAME AND GRATE (BICYCLE SAFE)	34.2.1	STEEL BEAM GUARDRAIL DETAILS	DHH	REMOVE AND DISPOSE HANDHOLE
6.3.3	HIGH CAPACITY FRAME AND GRATE	34.2.2	STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY	DL	REMOVE AND DISPOSE LIGHT AND FOUNDATION
6.3.4	HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)	34.2.3	STEEL BEAM GUARDRAIL FIXTURES	DMB	REMOVE AND DISPOSE MEDIAN BARRIER
6.4.0	ROUND FRAME AND GRATE	34.2.5	STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR	DMH	REMOVE AND DISPOSE MANHOLE
7.1.0S	PRECAST CONCRETE CURB (STRAIGHT)	34.3.1	GUARDRAIL END SECTION	DMM	REMOVE AND DISPOSE MEDIAN MARKER
7.1.0C	PRECAST CONCRETE CURB (CIRCULAR)	34.3.2	TERMINAL END SECTION (SINGLE FACE)	DOW	REMOVE AND DISPOSE OBSERVATION WELL
7.1.1	3'-0" PRECAST CONCRETE TRANSITION CURB	34.3.3	ANCHORAGE DETAILS APPROACH END SECTION	DP	REMOVE AND DISPOSE PIPE
7.1.2	6'-0" PRECAST CONCRETE TRANSITION CURB	34.3.4	ANCHORAGE DETAILS TRAILING END SECTION	DPB	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
7.1.4	PRECAST 2'-0" RADIUS CORNER	34.4.0	STEEL BACKED TIMBER GUARDRAIL	DRB	REMOVE AND DISPOSE RIGID BASE
7.1.5	PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)	34.4.1	STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1	DS	REMOVE AND DISPOSE SIGN
7.1.6	PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)	40.1.0	DOUBLE-FACED PRECAST MEDIAN BARRIER	DSS	REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
7.1.7	PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)	40.2.0	SINGLE-FACED PRECAST MEDIAN BARRIER	DSW	REMOVE AND DISPOSE SIDEWALK
7.1.8	PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)	40.2.1	SINGLE-FACED PRECAST MEDIAN BARRIER	DTD	REMOVE AND DISPOSE TELEPHONE DUCT BANKS
7.2.0S	PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)	40.3.0	PRECAST MEDIAN BARRIER TRANSITION UNIT	DUP	REMOVE AND DISPOSE UTILITY POLE
7.2.0C	PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)	40.5.0	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL	DWW	REMOVE AND DISPOSE PAVED WATERWAY
7.2.1	PRECAST CONCRETE SLOPED FACE TRANSITION CURB	43.1.0	CEMENT CONCRETE SIDEWALK	FF	FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
7.2.2	PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)	43.2.0	BITUMINOUS CONCRETE SIDEWALK	GET	FLARED GUARDRAIL END TREATMENT
7.3.0S	GRANITE CURB (STRAIGHT)	43.3.0	WHEELCHAIR RAMP	IA	IMPACT ATTENUATOR
7.3.0C	GRANITE CURB (CIRCULAR)	43.3.1	WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS	IDL	IMPERVIOUS DITCH LINER
7.3.1	3'-0" GRANITE TRANSITION CURB	43.4.0	DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB	LOD	LIMIT OF DISTURBANCE
7.3.2	6'-0" GRANITE TRANSITION CURB	43.4.1	DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB	LOR	LIMIT OF REGRADING
7.3.3	GRANITE WHEELCHAIR RAMP TRANSITION CURB	43.5.0	CEMENT CONCRETE DRIVEWAYS	LS	4" LOAM AND SEED
7.3.4	GRANITE 2'-0" RADIUS CORNER	48.1.0	DETECTABLE WARNING SYSTEM		
7.3.5	GRANITE INLET STONE (FOR SQUARE CATCH BASIN)	51.1.0	TREE PROTECTION DEVICE		
7.3.6	GRANITE INLET STONE (FOR ROUND CATCH BASIN)	51.1.1	DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES		
7.3.7	GRANITE APRON STONE (FOR SQUARE CATCH BASIN)	51.2.0	SHRUB PROTECTION DEVICE		
7.3.8	GRANITE APRON STONE (FOR ROUND CATCH BASIN)	51.3.0	TREE WELL		
7.4.0	GRANITE SLOPED FACE CURB	51.4.0	TREE WELL		
7.4.1	GRANITE SLOPED FACE TRANSITION CURB				

7.4.2	GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)	AB	ADJUST CATCH BASIN TO GRADE
7.5.0	BITUMINOUS CONCRETE LIP CURB	ABM	ADJUST CATCH BASIN TO MANHOLE
7.5.1A	BITUMINOUS BERM (CONSTRUCTION METHOD A)	AC	ADJUST CURB STOP TO GRADE
7.5.1B	BITUMINOUS BERM (CONSTRUCTION METHOD B)	AD	ADJUST ELECTRAGE MANHOLE TO GRADE
7.6.0	CURB SETTING DETAIL	AE	ADJUST ELECTRIC MANHOLE TO GRADE
8.2.0	BITUMINOUS CONCRETE DITCH	AFC	ADJUST FRAME AND COVER TO GRADE
8.3.0	RIP-RAP DITCH	AFG	ADJUST FRAME AND GRATE TO GRADE
8.4.0	PAVED WATERWAY	AG	ADJUST GAS GATE BOX TO GRADE
9.1.0	BALED HAY EROSION CHECK	AHH	ADJUST HANDHOLE TO GRADE
9.2.0	SILT FENCE DETAIL	AS	ADJUST SANITARY SEWER MANHOLE TO GRADE
9.3.0	BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED	AT	ADJUST TELEPHONE MANHOLE TO GRADE
9.4.0	BALED HAY DITCH AND SWALE EROSION CHECK	AW	ADJUST WATER GATE BOX TO GRADE
9.5.0	LOG AND HAY CHECK DAM	BCD	BITUMINOUS CONCRETE DRIVEWAY
9.7.0	DEWATERING BASIN		3" BITUMINOUS CONCRETE TYPE I-2
9.8.0	BALED HAY CATCH BASIN INLET PROTECTION		8" GRAVEL BORROW SUBBASE COURSE
9.9.0	CONSTRUCTION ACCESS	BPS	BUILD NEW STRUCTURE OVER EXISTING PIPE
10.1.0	WET STONE MASONRY RETAINING WALL	CCB	CLEAN CATCH BASIN
10.2.0	RUBBLE MASONRY WALL	CCP	CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
10.3.0	CONCRETE RETAINING WALL	CFP	CLEAN AND FLUSH PIPE
10.4.0	STONE MASONRY STEPS	CG	CLEARING AND GRUBBING
14.1.0	CONCRETE HIGHWAY BOUND	CMH	CLEAN MANHOLE
15.1.0	POST AND MOUNTINGS FOR RURAL MAILBOX	CP (DEPTH)	COLD PLANE
15.2.0 (NO.)	POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES	CPP	CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
18.2.0	PRECAST TYPE "A" HANDHOLE	DB	REMOVE AND DISPOSE BITUMINOUS CURB
18.2.2	HEAVY DUTY TYPE "H" HANDHOLE	DC	REMOVE AND DISPOSE CONCRETE CURB
18.3.0	ALUMINUM LIGHTING STANDARDS	DCB	REMOVE AND DISPOSE CATCH BASIN
20.2.0	BI-DIRECTIONAL CONTROL DEVICE	DDI	REMOVE AND DISPOSE DROP INLET
24.6.1	STREET SIGN MOUNTING DETAIL	DF	REMOVE AND DISPOSE FENCE
26.2.0	POLYETHYLENE DRUM WITH MARKINGS	DFC	REMOVE AND DISPOSE FRAME AND COVER
26.3.0	PVC PLASTIC PIPE TYPE III BARRICADE	DFE	REMOVE AND DISPOSE FLARED END SECTION
31.1.0	CHAIN LINK FENCE 3'-0" TO 4'-0"	DFG	REMOVE AND DISPOSE FRAME AND GRATE
31.2.0	CHAIN LINK FENCE 5'-0" TO 6'-0"	DFH	REMOVE AND DISPOSE FIRE HYDRANT
31.2.1	CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST	DFP	REMOVE AND DISPOSE FLEXIBLE PAVEMENT
31.3.0	WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)	DG	REMOVE AND DISPOSE GUARDRAIL
34.1.0	TYPICAL GUARDRAIL INSTALLATION	DH	REMOVE AND DISPOSE HEADWALL
34.2.0	STEEL BEAM GUARDRAIL	DHB	REMOVE AND DISPOSE HIGHWAY BOUND
34.2.1	STEEL BEAM GUARDRAIL DETAILS	DHH	REMOVE AND DISPOSE HANDHOLE
34.2.2	STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY	DL	REMOVE AND DISPOSE LIGHT AND FOUNDATION
34.2.3	STEEL BEAM GUARDRAIL FIXTURES	DMB	REMOVE AND DISPOSE MEDIAN BARRIER
34.2.5	STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR	DMH	REMOVE AND DISPOSE MANHOLE
34.3.1	GUARDRAIL END SECTION	DMM	REMOVE AND DISPOSE MEDIAN MARKER
34.3.2	TERMINAL END SECTION (SINGLE FACE)	DOW	REMOVE AND DISPOSE OBSERVATION WELL
34.3.3	ANCHORAGE DETAILS APPROACH END SECTION	DP	REMOVE AND DISPOSE PIPE
34.3.4	ANCHORAGE DETAILS TRAILING END SECTION	DPB	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
34.4.0	STEEL BACKED TIMBER GUARDRAIL	DRB	REMOVE AND DISPOSE RIGID BASE
34.4.1	STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1	DS	REMOVE AND DISPOSE SIGN
40.1.0	DOUBLE-FACED PRECAST MEDIAN BARRIER	DSS	REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
40.2.0	SINGLE-FACED PRECAST MEDIAN BARRIER	DSW	REMOVE AND DISPOSE SIDEWALK
40.2.1	SINGLE-FACED PRECAST MEDIAN BARRIER	DTD	REMOVE AND DISPOSE TELEPHONE DUCT BANKS
40.3.0	PRECAST MEDIAN BARRIER TRANSITION UNIT	DUP	REMOVE AND DISPOSE UTILITY POLE
40.5.0	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL	DWW	REMOVE AND DISPOSE PAVED WATERWAY
43.1.0	CEMENT CONCRETE SIDEWALK	FF	FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
43.2.0	BITUMINOUS CONCRETE SIDEWALK	GET	FLARED GUARDRAIL END TREATMENT
43.3.0	WHEELCHAIR RAMP	IA	IMPACT ATTENUATOR
43.3.1	WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS	IDL	IMPERVIOUS DITCH LINER
43.4.0	DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB	LOD	LIMIT OF DISTURBANCE
43.4.1	DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB	LOR	LIMIT OF REGRADING
43.5.0	CEMENT CONCRETE DRIVEWAYS	LS	4" LOAM AND SEED
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 WELL		

AB	ADJUST CATCH BASIN TO GRADE
ABM	ADJUST CATCH BASIN TO MANHOLE
AC	ADJUST CURB STOP TO GRADE
AD	ADJUST ELECTRAGE 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 I-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 (DEPTH)	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

**ENTIRE SHEET REPLACED BY ADDENDUM NO. 3**

**THIS PLAN SHALL NOT BE ALTERED**

REVISIONS		
NO.	DATE	BY
1	6/07	TRB
2	04/20	JPW

RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
 NORTH SMITHFIELD, RHODE ISLAND

**STANDARD PLAN SYMBOLS & STANDARD LEGEND**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE NO SCALE

ADDENDUM NO. 3



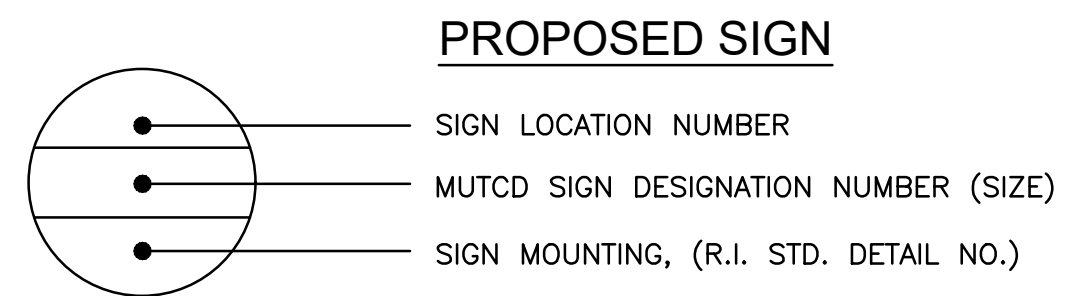
WSP USA Inc.  
 2374 POST ROAD  
 SUITE 202  
 WARWICK, RI 02886  
 TEL: +1 401.738.6600

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BRO-0107(006)		5	47

**JOB SPECIFIC LEGEND**

- (3.5.2) SOLID BLOCK SHALLOW DOUBLE GRATE CATCH BASIN – GRATE PARALLEL TO CURB
- (4.8.1) CONCRETE COVER FOR SHALLOW DOUBLE GRATE CATCH BASINS WITH CURB
- (7.1.3) PRECAST CONCRETE WHEELCHAIR RAMP TRANSITION CURB
- (43.3.1)(MOD.) WHEELCHAIR RAMP FOR LIMITED R.O.W. AREAS RI STD. 43.3.1 MODIFIED (SEE DETAIL)
- (AFC\*) ADJUST FRAME AND COVER TO GRADE (BY OTHERS)
- (AT\*) ADJUST TELEPHONE MANHOLE TO GRADE (BY OTHERS)
- (BCDM) BITUMINOUS CONCRETE DRIVEWAY – MODIFIED  
3" CLASS 9.5 HMA  
8" GRAVEL BORROW SUBBASE COURSE
- (CFS) COMPOST FILTER SOCK 12 INCH DIAMETER
- (DCI) REMOVE AND DISPOSE CONCRETE CURB INLET
- (DCDW) REMOVE AND DISPOSE CONCRETE DRIVEWAY
- (ETEA) GUARDRAIL END TREATMENT – ENERGY ABSORBING TERMINAL, TL-3
- (ETR) EXISTING TO REMAIN
- (FDC) 2" CLASS 12.5 HMA  
8" CLASS 19.0 HMA  
12" (MIN.) GRAVEL BORROW SUBBASE COURSE
- (MEPM) MATCH EXISTING PAVEMENT MARKING
- (MGT) MASH (TL-3) GUARDRAIL TRANSITION TO END POST
- (MMO-2) MICROMILLING 2" AND OVERLAY WITH 2" CLASS 12.5 HMA PAVEMENT SHIMMING WITH CLASS 4.75 HMA FOR LEVELING AS REQUIRED TO MEET PROPOSED GRADES
- (NGVB) FURNISH AND INSTALL NEW GAS GATE VALVE AND BOX (BY NATIONAL GRID APPROVED SUBCONTRACTOR)
- (NUP) NEW UTILITY POLE (BY OTHERS)
- (PCD-S) PERMANENT CHECK DAM – STONE
- (PMM) PAVEMENT MILLINGS MULCH
- (PT-1) PAVEMENT TRANSITION – MICROMILLING TO EXISTING
- (PT-2) PAVEMENT TRANSITION – FULL DEPTH TO MICROMILLING
- (PT-3) PAVEMENT TRANSITION – FULL DEPTH TO EXISTING
- (RDGDB) REMOVE AND DISPOSE GAS GATE DRIP BOX (BY NATIONAL GRID APPROVED SUBCONTRACTOR)
- (RDGVB) REMOVE AND DISPOSE GAS GATE VALVE AND BOX (BY NATIONAL GRID APPROVED SUBCONTRACTOR)
- (RDGTB) REMOVE AND DISPOSE GAS TEST BOX (BY NATIONAL GRID APPROVED SUBCONTRACTOR)
- (RRH) REMOVE AND RESET HYDRANT
- (RRHB) REMOVE AND RESET HIGHWAY BOUNDS
- (RRSP) RIPRAP SLOPE PROTECTION
- (SABM) SHOCK ABSORBING BARRIER MODULE
- (SCD) STAMPED CONCRETE DRIVEWAY
- (S-1) FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT
- (S-2) CUTTING AND MATCHING ASPHALT
- (S-3) FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY
- (TFDC) TEMPORARY FULL DEPTH CONSTRUCTION  
4" CLASS 19.0 HMA  
8" GRAVEL BORROW SUBBASE COURSE
- (TGW) TEMPORARY GUY WIRE (BY OTHERS)
- (TOW) TEMPORARY OVERHEAD WIRE (BY OTHERS)
- (TTES) THRIE BEAM TERMINAL END SECTION
- (TUP) TEMPORARY UTILITY POLE (BY OTHERS)
- (UPC-C) UNDERGROUND PLASTIC CONDUIT – CONCRETE ENCASED (BY OTHERS)
- (WBBC) W-BEAM BRIDGE CONNECTION
- (WQS) WATER QUALITY SWALE
- (T4WDL) TEMPORARY 4" WATERBORNE PAINT PAVEMENT MARKINGS (DOTTED LINE) – WHITE
- (T4W) TEMPORARY 4" WATERBORNE PAINT PAVEMENT MARKINGS – WHITE
- (T4Y) TEMPORARY 4" WATERBORNE PAINT PAVEMENT MARKINGS – YELLOW
- (T4DY) TEMPORARY 4" WATERBORNE PAINT PAVEMENT MARKINGS – DOUBLE YELLOW
- (T12W) TEMPORARY 12" WATERBORNE PAINT PAVEMENT MARKINGS – WHITE
- (4W) 4" EPOXY RESIN PAVEMENT MARKINGS – WHITE

**TYPICAL SIGN DESIGNATION SYMBOL**



**JOB SPECIFIC GENERAL NOTES:**

- CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:
  - THE LATEST REVISION OF AND MODIFICATIONS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  - THE EIGHTH EDITION OF AND MODIFICATIONS TO THE LRFD BRIDGE DESIGN SPECIFICATIONS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DATED 2017.
  - THE AMERICAN ASSOCIATION OF STATE AND HIGHWAY TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 8TH EDITION, 2017, INCLUDING THE LATEST INTERIM REVISIONS.
  - THE SPECIFICATIONS ACCOMPANYING THESE PLANS.
- ALL SUBCONTRACTORS EMPLOYED BY THE CONTRACTOR OR RIDOT ON THIS PROJECT SHALL WORK WITHIN THE SAME PROTECTED WORK AREAS AS THE CONTRACTOR. NO SEPARATE LANE CLOSURES WILL BE PAID FOR.
- STOCKPILING OF DEMOLISHED MATERIALS WILL NOT BE ALLOWED ON STATE PROPERTY OVERNIGHT UNLESS APPROVED BY THE RESIDENT ENGINEER IN COORDINATION WITH THE RIDOT LANDSCAPE DEPARTMENT. IF ANY STOCKPILING OF MATERIAL IS ALLOWED, THE CONTRACTOR WILL REPAIR THE AREA AT NO ADDITIONAL COST TO THE STATE.
- SANITARY SEWER, GAS, WATER AND OTHER UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- ALL GUARDRAIL REMOVED SHALL BE REPLACED BY THE END OF THAT WORKING DAY IF THE LOCATION IS NOT SHIELDED BY A TEMPORARY PRECAST CONCRETE BARRIER FROM ALL TRAFFIC.
- ALL NEW W-BEAM AND THRIE BEAM GUARDRAIL SHALL MEET THE REQUIREMENTS OF THE 2016 MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). GUARDRAIL WORK DEPICTED IN THESE PLANS SHALL CONFORM TO THE RHODE ISLAND STANDARD DETAILS EXCEPT WITH THE FOLLOWING MODIFICATIONS. THE TOP OF THE GUARDRAIL PANEL OR TERMINAL SECTION SHALL BE SET 27" ABOVE THE PAVEMENT SURFACE WHEN THE FACE OF THE GUARDRAIL IS WITHIN 2'-0" OF THE EDGE OF ROADWAY. OTHERWISE IT SHALL BE SET 27" ABOVE THE FINISHED GRADE. GUARDRAIL POSTS SHALL EXTEND 1" ABOVE THE TOP OF THE PANEL.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN REPLACING GUARDRAIL IN AREAS NEAR EXISTING CURBING TO REMAIN. NO PAYMENT SHALL BE MADE TO RESET CURB DISTURBED BY THE CONTRACTOR'S OPERATION WHEN INSTALLING GUARDRAIL. CURB DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.
- THE COST OF ANY CURB CUTTING REQUIRED TO INSTALL NEW CURBING WILL BE INCLUDED IN THE UNIT BID PRICES FOR THE NEW CURB.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL RELOCATED UTILITY POLES ARE PROPERLY STABILIZED DURING EACH PHASE OF CONSTRUCTION.
- THE FINAL LOCATION OF ALL WHEELCHAIR RAMPS MUST BE COORDINATED, IN THE FIELD, WITH THE PROPOSED LOCATIONS OF SIGNS, UTILITY POLES, LANDSCAPING, HYDRANTS, DRAINAGE GRATES AND COVERS TO ENSURE A CLEAR PEDESTRIAN PATH.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE PROPER UTILITY AGENCIES FOR THE SEQUENCE OF CONSTRUCTION TO REMOVE THE EXISTING LIGHTING AND THE INSTALLATION OF NEW LIGHTING. STREET AND SIDEWALK LIGHTING MUST BE PROVIDED AT ALL TIMES.
- THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS WITHIN THE DRIP LINE OF ANY TREES OR SHRUBS.
- ALL ITEMS NOT LABELED WITH A DISPOSITION WILL BE "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND STOCKPILED MATERIAL A MINIMUM DISTANCE OF AND 10 FEET FROM THE OUTSIDE EDGE OF ANY TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD. ALL STORAGE AND LAYDOWN AREAS REQUIRE APPROVAL BY THE ENGINEER. ALL WORK ZONES SHALL BE BEHIND BARRIERS AS SHOWN ON THE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS. ANY AREAS USED FOR STORAGE AND LAYDOWN THAT ARE OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE FREQUENCY AND APPLICATION RATES FOR WATER FOR DUST CONTROL SHALL BE DETERMINED BY THE ENGINEER, PAID FOR UNDER ITEM CODE 906.0100. NO CALCIUM CHLORIDE FOR DUST CONTROL SHALL BE USED ON THIS PROJECT.
- THE CONTRACTOR SHALL EXERCISE CARE WHEN WORKING IN THE AREA OF EXISTING HIGHWAY BOUNDS. ANY HIGHWAY BOUNDS DISTURBED OR DESTROYED AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE RESET OR REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AND IN CONFORMANCE WITH SECTION 915. OF THE R.I. STANDARD SPECIFICATIONS. SAID RESETTNG OR REPLACING OF BOUND REQUIRED SHALL BE AT THE CONTRACTOR'S EXPENSE.
- NO LONGITUDINAL DROP-OFFS WILL BE ALLOWED TO REMAIN BETWEEN LANES DURING THE NON CONSTRUCTION HOURS FOR PAVEMENT MICROMILLING OPERATIONS. THE CONTRACTOR SHALL SCHEDULE THE MICROMILLING OPERATIONS TO PROVIDE A CONSISTENT FULL-WIDTH PAVEMENT SURFACE AT THE END OF THE WORK DAY.

**JOB SPECIFIC GENERAL NOTES - DRAINAGE & UTILITY:**

- ALL EROSION CONTROL MEASURES SHALL BE PUT IN PLACE PRIOR TO COMMENCING WORK.
- FRAMES, GRATES, COVERS AND CURB INLETS SHALL CONFORM TO ALL APPLICABLE RIDOT STANDARDS.
- ALL PROPOSED DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE UNLESS NOTED OTHERWISE.
- ALL REINFORCED CONCRETE PIPE SHALL BE AASHTO CLASS III WITH MORTAR JOINTS UNLESS OTHERWISE NOTED.

**JOB SPECIFIC GENERAL NOTES - DRAINAGE & UTILITY (CONT.):**

- ALL EXISTING DRAIN PIPES, CATCH BASINS, AND DRAIN MANHOLES TO REMAIN WITHIN THE PROJECT LIMITS ARE TO BE CLEANED AS NEEDED IN ACCORDANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
- EXISTING PIPE INVERT ELEVATIONS SHOWN ON THE DRAINAGE AND UTILITY PLANS ARE APPROXIMATE.
- ADJUSTMENTS TO BE MADE TO NORTH SMITHFIELD WATER AND SEWER DEPARTMENT MANHOLE FRAMES AND COVERS WILL REQUIRE A SEWER ALTERATION PERMIT.
- DRAINAGE STRUCTURES NEEDING TO BE RECONSTRUCTED, AS INDICATED ON THE PLANS, SHALL BE RECONSTRUCTED PRIOR TO PLACING ANY TEMPORARY TRAFFIC OVER THAT STRUCTURE.
- ALL PROPOSED CATCH BASINS SHALL BE CONSTRUCTED WITH A DEEP (4'-0") SUMP. OUTLET PIPES FOR DEEP SUMP CATCH BASINS SHALL BE EQUIPPED WITH PIPE HOODS.
- ANY/ALL ADJUSTMENTS TO VERIZON OWNED UNDERGROUND EQUIPMENT (MANHOLES, FRAME & COVERS, CONDUITS, ETC) MUST BE PERFORMED BY AN APPROVED VERIZON CONTRACTOR. ADDITIONALLY, ALL ADJUSTMENTS MUST BE INSPECTED BY VERIZON'S CONTRACT WORK INSPECTOR (CWI).
- IF VERIZON'S UNDERGROUND (UG) STRUCTURES (CONDUITS, CABLES, MANHOLES, ETC)...ARE EXPOSED DURING CONSTRUCTION, THE GENERAL CONTRACTOR (GC) MUST PROVIDE PROTECTION FOR THE EXPOSED STRUCTURES IN ACCORDANCE WITH VERIZON'S METHODS AND PROCEDURES AND WITH THE APPROVAL OF VERIZON'S CWI. ADDITIONALLY, AN APPROVED PARTITION MUST BE PLACED BETWEEN EXISTING VERIZON STRUCTURES AND NEW CONCRETE CONSTRUCTION WHERE CONTACT AND/OR ENCROACHMENT MAY ARISE.
- THE UNDERMINING OF VERIZON DUCTS (INCLUDING THOSE CONCRETE ENCASED) IS NOT PERMITTED WITHOUT INSPECTION/PERMISSION OF VERIZON'S CWI.
- A RADIAL CLEARANCE OF THREE FEET (3') MUST BE MAINTAINED BETWEEN NATIONAL GRID'S AERIAL EQUIPMENT (CABLES, TERMINALS, POLES, ETC) IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS. THIS INCLUDES TRAFFIC SIGNAL AND CONSTRUCTION EQUIPMENT...EITHER TEMPORARY OR PERMANENT. PLEASE REFER TO RIDOT DOCUMENT TAC-0049 FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL COORDINATE REMOVAL AND RESETTNG OF TOWN OWNED STREET LIGHTING WITH THE TOWN. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN STREET LIGHTING DURING CONSTRUCTION.
- NEW DRAINAGE STRUCTURES SHALL BE INSTALLED IN A MANNER SUCH THAT DRAINAGE OF THE ROADWAYS IS CONTINUALLY MAINTAINED.
- THE CONTRACTOR SHALL PROVIDE ACCESS AND REGRADING NECESSARY FOR NATIONAL GRID ELECTRIC TO PERFORM UTILITY RELOCATION AND WORK ON POLE #480-30 AT STATION 80+774 RT. IMMEDIATELY ONCE THE RIDEM PERMIT HAS BEEN ISSUED. THE CONTRACTOR SHALL COORDINATE WITH NATIONAL GRID ELECTRIC REGARDING SCHEDULING TO PERFORM UTILITY WORK. SEE CS PAGES FOR ADDITIONAL INFORMATION.

**JOB SPECIFIC GENERAL NOTES - SIGNS:**

- ALL NEW AND RELOCATED SIGN POSTS SHALL BE MOUNTED 18" FROM THE BACK OF CURB OR LOCATED AS DIRECTED BY THE ENGINEER.
- ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE R.I. STANDARD DETAIL DRAWINGS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION WITH THE LATEST REVISIONS.

**JOB SPECIFIC GENERAL NOTES - PAVEMENT MARKINGS**

- TEMPORARY PAVEMENT MARKINGS:
- THE CONTRACTOR SHALL PROVIDE 15 MIL THICK WATERBORNE PAINT PAVEMENT MARKINGS TO MATCH THE FINAL COLORS, WIDTHS AND LOCATIONS ON THE MILLED ROADWAY SURFACES AND THE BASE AND INTERMEDIATE BITUMINOUS SURFACE COURSES OF NEWLY PAVED ROADWAYS WHICH WILL BE OPENED TO TRAFFIC AT THE COMPLETION OF EACH DAY'S PAVING OPERATION. THESE WATERBORNE PAVEMENT MARKINGS SHALL ALSO BE USED ON EXISTING ROADWAY SURFACES, WHICH ARE IN NEED OF RE-STRIPING BUT ARE SCHEDULED TO BE REPAVED WITHIN A YEAR.
  - THE CONTRACTOR SHALL PROVIDE 8 MIL THICK TEMPORARY WATERBORNE PAINT PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE OF NEWLY PAVED ROADWAYS THAT WILL BE OPENED TO TRAFFIC AT THE COMPLETION OF EACH DAY'S PAVING OPERATION.
  - ALL TEMPORARY PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE SHALL BE REMOVED, AND NEW PAVEMENT MARKINGS SHALL BE PLACED PRIOR TO ALLOWING TRAFFIC TO TRAVEL ON THE AFFECTED ROAD.
  - EXISTING EPOXY PAVEMENT MARKINGS AND CONFLICTING WATERBORNE PAVEMENT MARKINGS SHALL BE REMOVED BY GRINDING THE MARKINGS OFF THE PAVEMENT. THIS WORK SHALL BE PAID FOR UNDER ITEM CODE T20.1000.
- PERMANENT PAVEMENT MARKINGS:
- THE INSTALLATION OF PERMANENT PAVEMENT MARKINGS WILL NOT BE ALLOWED PRIOR TO THE COMPLETE PLACEMENT OF THE FINAL RIDING SURFACE WITHIN THE PROJECT LIMIT.
  - PERMANENT PAVING MARKINGS SHALL BE WHITE AND YELLOW EPOXY RESIN PAVEMENT MARKINGS AT THE LOCATIONS INDICATED ON THE PLANS. THE EPOXY PAVEMENT MARKINGS SHALL BE PLACED ON THE FINAL SURFACE COURSE NO SOONER THAT 2 WEEKS, BUT NO LATER THAN 4 WEEKS FROM THE COMPLETION OF PAVING OPERATION.

**JOB SPECIFIC GENERAL NOTES - SITE RESTORATION:**

- ALL PUBLIC AND PRIVATE PROPERTY WITHIN OR ADJACENT TO THE PROJECT LIMITS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL RESTORATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE R.I. STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION WITH AMENDMENTS. THE COST OF RESTORATION SHALL BE INCLUDED IN THE PRICES BID FOR OTHER SCHEDULED ITEMS OF WORK AND NO SEPARATE PAYMENT SHALL BE MADE

**JOB SPECIFIC GENERAL NOTES - SURVEY:**

- PRIOR TO THE REMOVAL OF ANY EXISTING ROADWAY OR CURBING, THE CONTRACTOR MUST COORDINATE WITH THE RESIDENT ENGINEER AND THE RIDOT SURVEY SECTION. CONSTRUCTION LAYOUT SHALL BE PERFORMED BY THE CONTRACTOR.
- SURVEY TRAVERSE FOR THE LOCATION OF BRIDGE NO. 107 WAS PERFORMED BY GARFALO ASSOCIATES IN 2006. SUPPLEMENTAL SURVEY WAS PERFORMED BY WSP IN MAY AND JUNE 2018. HUBS WITH TACKS SET ARE FOR TEMPORARY CONTROL AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT USE.

**JOB SPECIFIC GENERAL NOTES - RAILROAD:**

- SEE CONTRACT SPECIFIC SPECIFICATIONS FOR G&W RAILROAD REQUIREMENTS. ALL COSTS ASSOCIATED WITH COMPLIANCE WITH G&W RAILROAD REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.
- NO STORAGE OF MATERIAL SHALL OCCUR ON G&W RAILROAD RIGHT-OF-WAY. NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED TO DRIVE ON TRACKS.
- NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED TO DRIVE OVER THE TRACKS.
- POSITIVE DRAINAGE AWAY FROM THE TRACKS SHALL BE MAINTAINED AT ALL TIMES. TRACK SHOULDERS AND DITCHES MUST BE MAINTAINED DURING AND AFTER CONSTRUCTION. ANY RECONSTRUCTION OF TRACK SHOULDERS AND DITCHES SHALL BE IN ACCORDANCE WITH THE G&W STANDARD ROADBED SECTION.

**JOB SPECIFIC GENERAL NOTES - M&PT:**

- ALL TEMPORARY TRAFFIC CONTROL SETUPS 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 "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
- ALL TEMPORARY BARRIER AND CRASH CUSHIONS USED FOR TRAFFIC CONTROL SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS CONTAINED IN THE 2016 EDITION OF THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH). RIDOT WILL NOT ACCEPT THE USE OF MIXED BARRIER SYSTEMS IN A CONTINUOUS RUN. AT A MINIMUM, BARRIER AND CRASH CUSHIONS SHALL MEET A TL-3 MINIMUM TEST LEVEL. LIMITED DEFLECTION BARRIER WILL BE PAID FOR UNDER ITEM 926.0200. NON-LIMITED DEFLECTION BARRIER WILL BE PAID FOR UNDER ITEM 926.0210.
- 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.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN A RHODE ISLAND STANDARD 26.2.0 BARRICADE WITH APPROPRIATE MARKINGS AT EACH LOCATION WHERE ADJUSTMENT TO UTILITY STRUCTURES HAVE BEEN MADE UNTIL RESURFACING WORK HAS BEEN PERFORMED. OTHER TYPES OF PROTECTIVE DEVICES MAY BE USED IF APPROVED BY THE ENGINEER.
- A SINGLE 9'-0" (MIN.) PATH OF TRAVEL ON HEROUX DRIVE MUST BE MAINTAINED AT ALL TIMES.
- ACCESS TO ALL RESIDENTIAL DRIVEWAYS MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS.
- LAPRE ROAD MAY BE CLOSED TO TRAFFIC AT ITS INTERSECTION WITH R.I. 146A DURING STAGE IIIA TO ACCOMMODATE FULL DEPTH PAVEMENT CONSTRUCTION. THIS CLOSURE SHALL BE IN ACCORDANCE WITH THE DETOUR PLAN SHOWN ON SHEET 32.
- ACCESS TO ALL OTHER SIDE STREETS MUST BE MAINTAINED AT ALL TIMES.

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
1	03/20	JPW	PLANS FOR BRIDGE REPLACEMENT	
2	04/20	JPW	BRIDGE NO. 107	
			NORTH SMITHFIELD, RHODE ISLAND	
			JOB SPECIFIC SYMBOLS, LEGEND & NOTES	
			CHECKED BY _____	DATE _____ SCALE NO SCALE

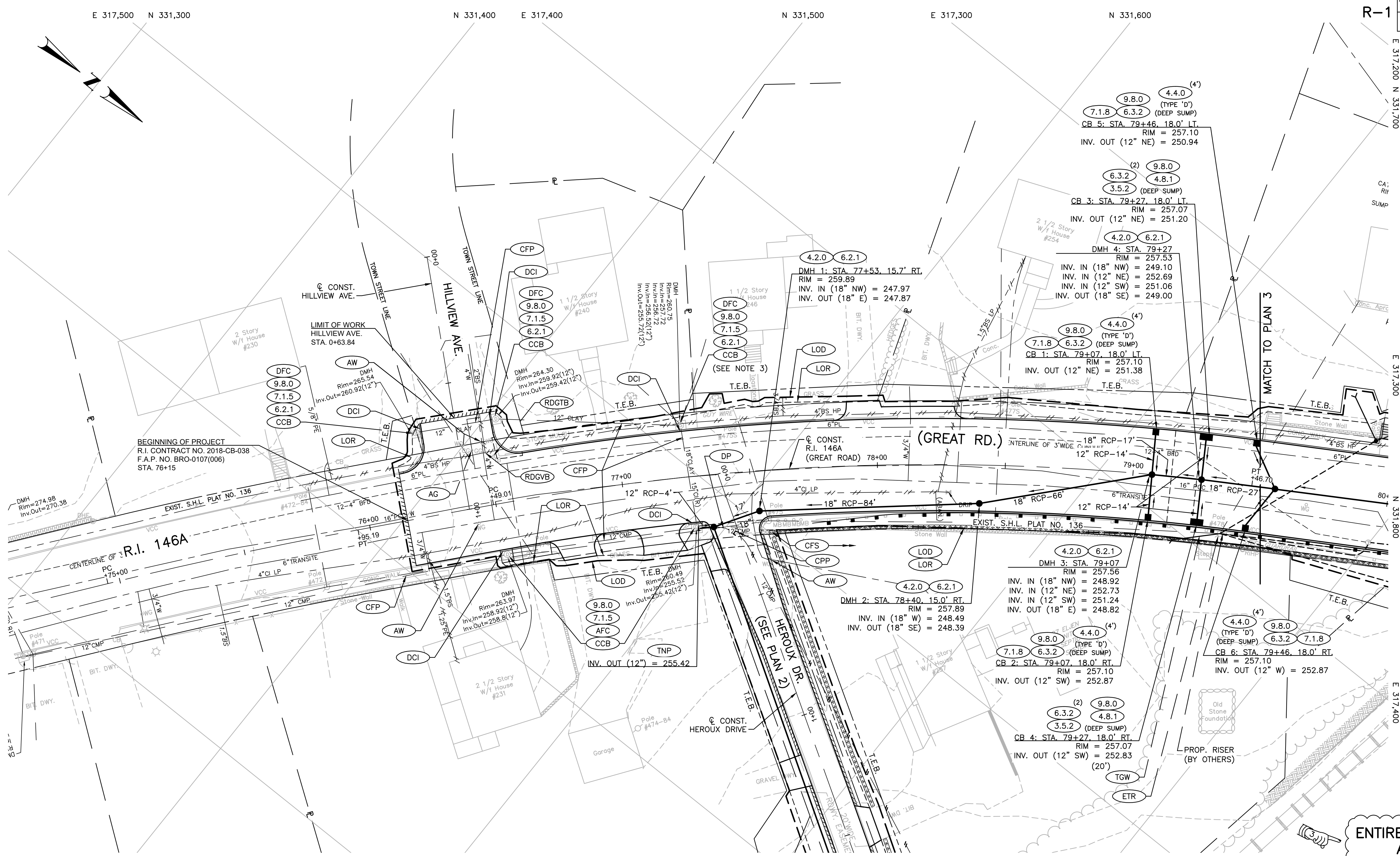












BEGINNING OF PROJECT  
R.I. CONTRACT NO. 2018-CB-038  
F.A.P. NO. BRO-0107(006)  
STA. 76+15

ENTIRE SHEET REPLACED BY  
ADDENDUM NO. 3

**NOTES:**

- RIM ELEVATIONS FOR CATCH BASINS WITH GRATES THAT ARE LISTED ON THIS SHEET ARE SET 0.1' BELOW THE FINAL GUTTER GRADES IN ACCORDANCE WITH THE STANDARD NOTES ON SHEET 3.
- MANHOLE RIM ELEVATIONS LISTED ON THIS SHEET ARE FLUSH WITH THE FINAL ROADWAY GRADES.
- THE EXISTING CATCH BASIN AT STATION 77+25 LT IS BURIED. THE CONTRACTOR SHALL EXCAVATE AS REQUIRED TO EXPOSE THE CATCH BASIN OPENING TO ALLOW FOR FUTURE ACCESS AND MAINTENANCE. THE COST OF EXCAVATION AT THIS LOCATION SHALL BE CONSIDERED INCIDENTAL TO ITEM 202.0100 - EARTH EXCAVATION.

ADDENDUM NO. 3



WSP USA Inc.  
2374 POST ROAD  
SUITE 202  
WARWICK, RI 02886  
TEL: +1 401.738.6600

REVISIONS		
NO.	DATE	BY
1	04/20	JPW

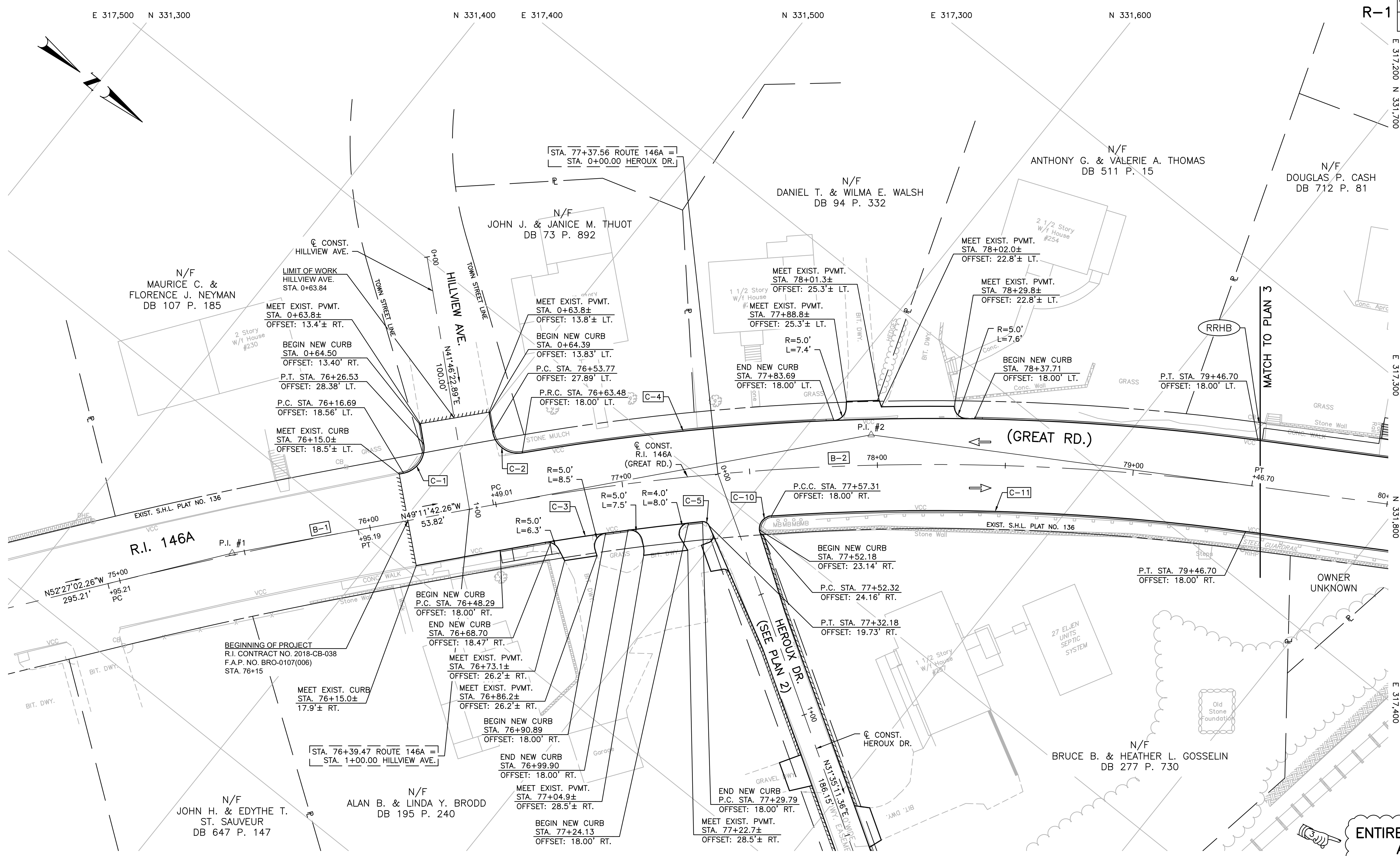
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
NORTH SMITHFIELD, RHODE ISLAND

**DRAINAGE & UTILITY PLAN  
NO. 1**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE 1"=20'





ENTIRE SHEET REPLACED BY  
ADDENDUM NO. 3

CURVE	DESCRIPTION	NORTHING	EASTING
B-1	P.C. STA. 74+95.21	331425.3299	317677.2169
	CC	332820.3116	318749.5350
	P.T. STA. 75+95.19	331488.4777	317599.7270
B-2	P.C. STA. 76+49.01	331523.6491	317558.9875
	CC	332235.1716	318173.2641
	P.T. STA. 79+46.70	331750.3319	317367.9502

CURVE	RADIUS	LENGTH	TANGENT	DELTA
B-1	1759.50'	99.98'	50.00'	3°-15'-20"
B-2	940.00'	297.69'	150.10'	18°-08'-42"

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C-1	10.00'	15.37'	9.67'	88°-03'-07"
C-2	10.00'	15.55'	9.84'	89°-05'-08"
C-3	922.00'	79.95'	40.00'	4°-58'-06"
C-4	958.00'	288.64'	145.42'	17°-15'-47"
C-5	2.50'	3.11'	1.79'	71°-20'-29"
C-10	5.00'	9.03'	6.35'	103°-31'-44"
C-11	922.00'	185.77'	93.20'	11°-32'-39"

NO.	NORTHING	EASTING
P.I. #1	331455.8027	317637.5746
P.I. #2	331621.7379	317445.3703

NO.	DATE	BY
1	04/20	JPW

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
NORTH SMITHFIELD, RHODE ISLAND

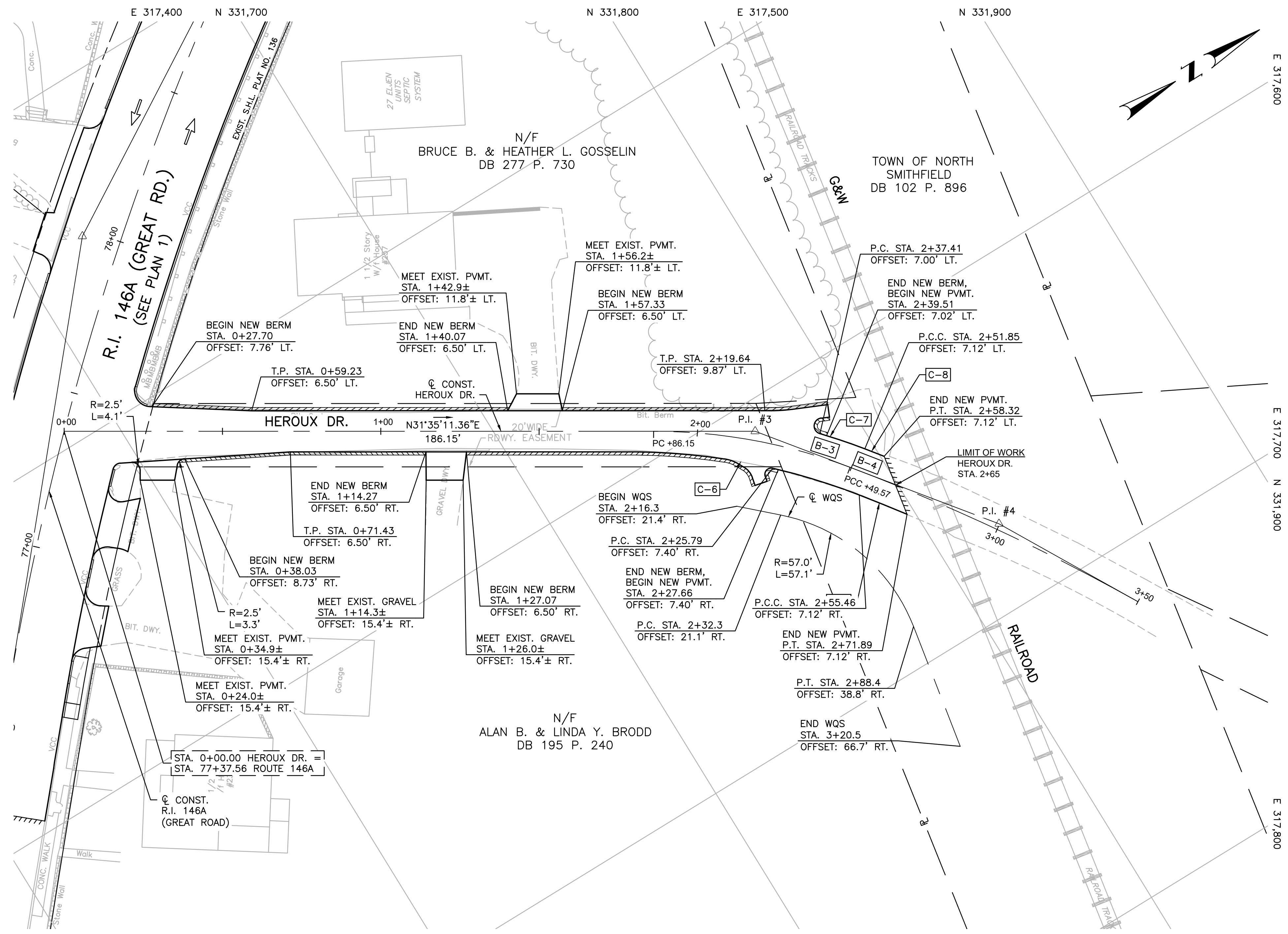
**LOCATION PLAN NO. 1**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE 1"=20'

ADDENDUM NO. 3



WSP USA Inc.  
2374 POST ROAD  
SUITE 202  
WARWICK, RI 02886  
TEL: +1 401.738.6600



ENTIRE SHEET REPLACED BY  
 ADDENDUM NO. 3

CENTERLINE OF CONSTRUCTION COORDINATE DATA			
CURVE	DESCRIPTION	NORTHING	EASTING
B-3	P.C. STA. 1+86.15	331743.1598	317592.2847
	CC	331651.4975	317741.3585
	P.C.C. STA. 2+49.57	331790.0574	317634.4654
B-4	P.C.C. STA. 2+49.57	331790.0574	317634.4654
	CC	331255.9089	318046.5385
	P.T. STA. 3+50.00	331845.2656	317718.2435

CENTERLINE OF CONSTRUCTION CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
B-3	175.00'	63.42'	32.06'	20°-45'-53"
B-4	674.63'	100.43'	50.31'	8°-31'-45"

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C-6	200.00'	72.09'	36.44'	20°-39'-11"
C-7	171.94'	14.95'	7.48'	4°-58'-59"
C-8	681.75'	6.54'	3.27'	0°-32'-58"
C-9	667.50'	16.26'	8.13'	1°-23'-44"

P.I. COORDINATE DATA		
NO.	NORTHING	EASTING
P.I. #3	331770.4727	317609.0788
P.I. #4	331820.7851	317674.2960

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NO.	DATE	BY
1	04/20	JPW

RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
 NORTH SMITHFIELD, RHODE ISLAND

**LOCATION PLAN NO. 2**

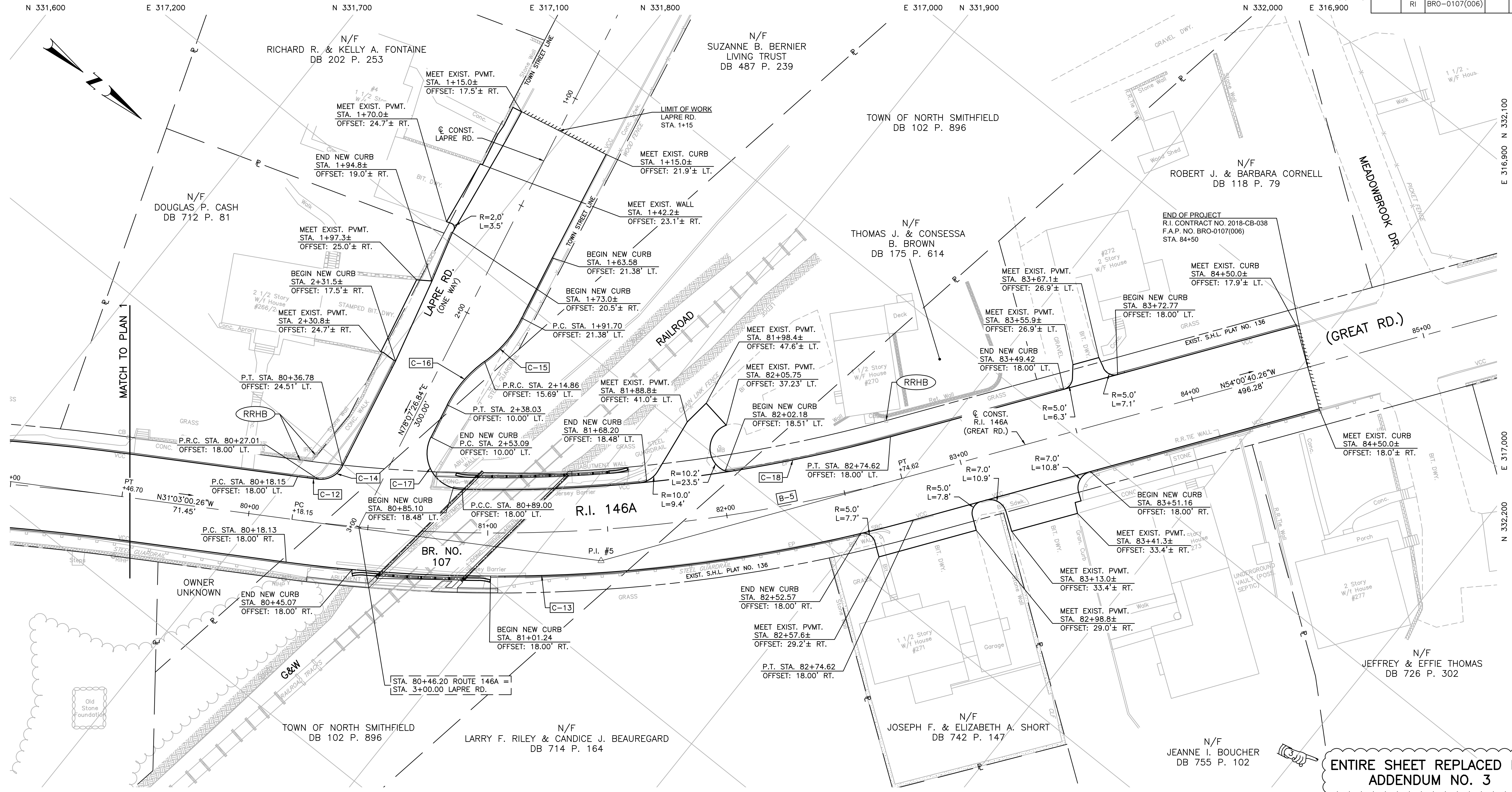
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ADDENDUM NO. 3



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R-1



ENTIRE SHEET REPLACED BY ADDENDUM NO. 3

CURVE	DESCRIPTION	NORTHING	EASTING
B-5	P.C. STA. 80+18.15	331811.5419	317331.0987
	CC	331481.4383	316782.7999
	P.T. STA. 82+74.62	331999.2825	317158.8814

CURVE	RADIUS	LENGTH	TANGENT	DELTA
B-5	640.00'	256.48'	129.98'	23°-57'-40"

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C-12	622.00'	8.61'	4.31'	0°-47'-35"
C-13	658.00'	263.71'	133.65'	22°-57'-45"
C-14	10.00'	12.22'	7.01'	70°-01'-58"
C-15	50.00'	24.08'	12.28'	27°-35'-54"
C-16	50.00'	24.08'	12.28'	27°-35'-54"
C-17	15.00'	30.23'	23.77'	115°-29'-14"
C-18	622.00'	180.40'	90.84'	16°-37'-04"

NO.	NORTHING	EASTING
P.I. #5	331922.9008	317264.0550

NO.	DATE	BY
1	04/20	JPW

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
NORTH SMITHFIELD, RHODE ISLAND

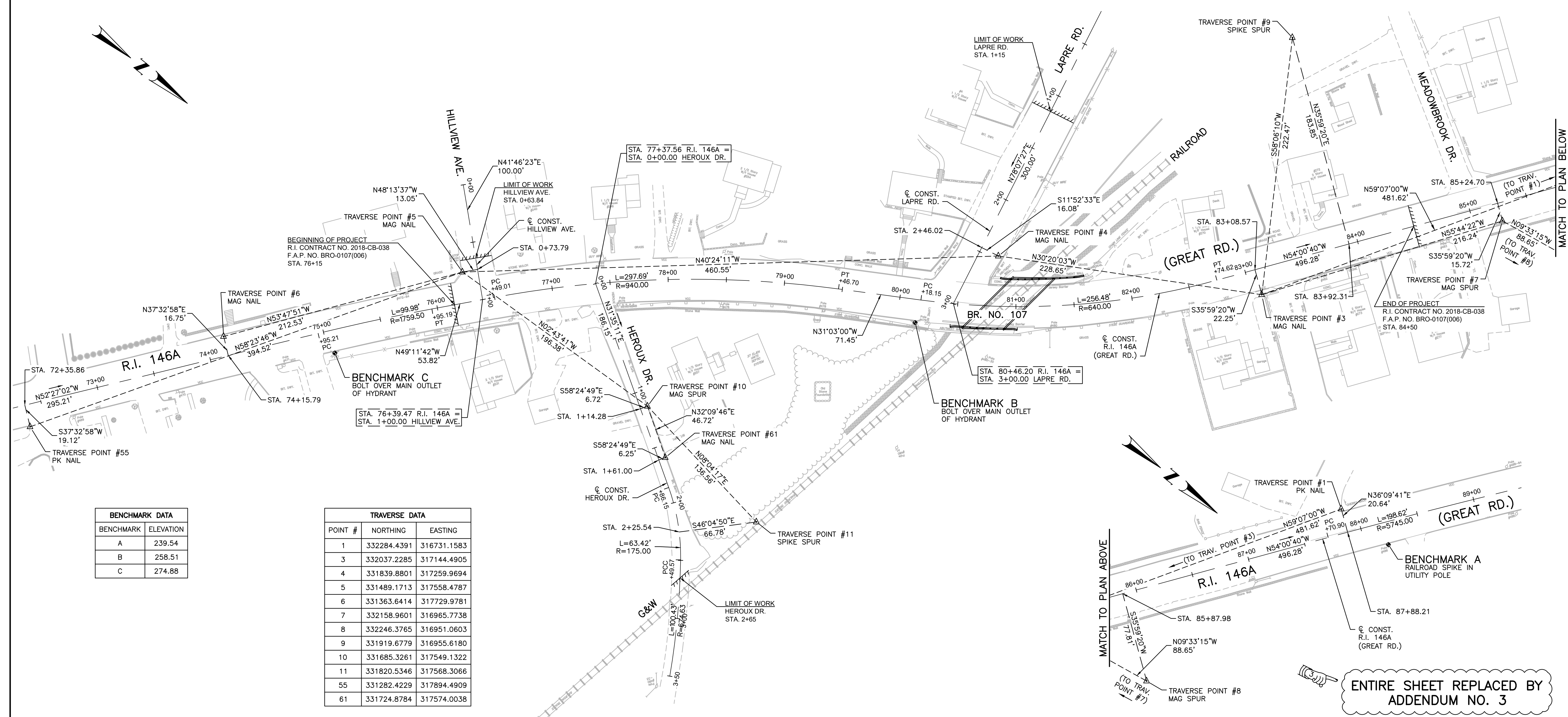
**LOCATION PLAN NO. 3**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE 1"=20'

ADDENDUM NO. 3



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BENCHMARK DATA	
BENCHMARK	ELEVATION
A	239.54
B	258.51
C	274.88

TRAVERSE DATA		
POINT #	NORTHING	EASTING
1	332284.4391	316731.1583
3	332037.2285	317144.4905
4	331839.8801	317259.9694
5	331489.1713	317558.4787
6	331363.6414	317729.9781
7	332158.9601	316965.7738
8	332246.3765	316951.0603
9	331919.6779	316955.6180
10	331685.3261	317549.1322
11	331820.5346	317568.3066
55	331282.4229	317894.4909
61	331724.8784	317574.0038

ENTIRE SHEET REPLACED BY  
 ADDENDUM NO. 3

REVISIONS		
NO.	DATE	BY
1	04/20	JPW

RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
 NORTH SMITHFIELD, RHODE ISLAND

**LOCATION PLAN -  
 TRAVERSE SHEET**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE 1"=40'

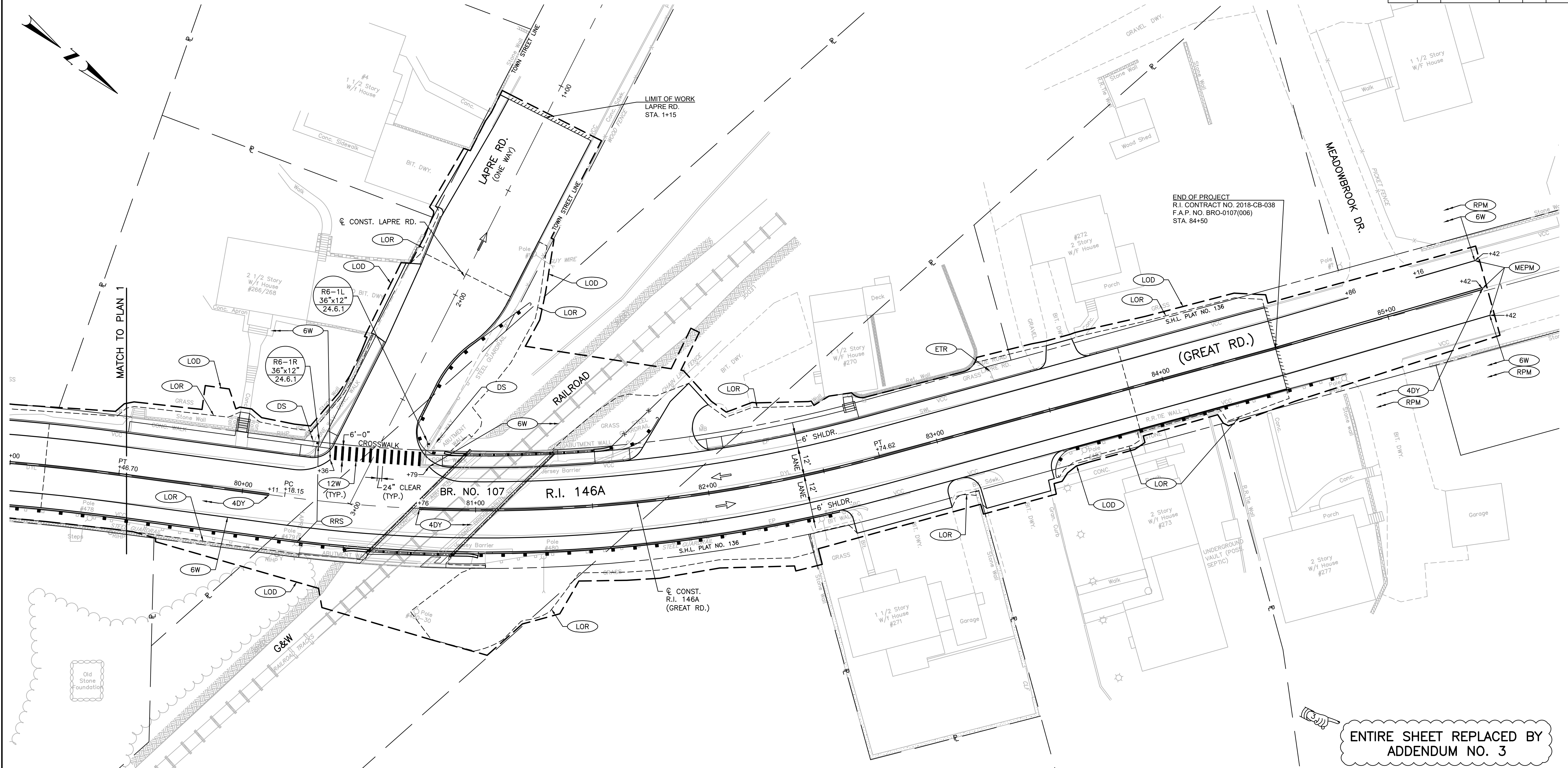
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ENTIRE SHEET REPLACED BY  
 ADDENDUM NO. 3

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER	
R6-1R	36"	12"		SEE M.U.T.C.D. 2009 STANDARDS			1	WHITE	BLACK	BLACK	3
R6-1L	36"	12"		SEE M.U.T.C.D. 2009 STANDARDS			1	WHITE	BLACK	BLACK	3

ADDENDUM NO. 3



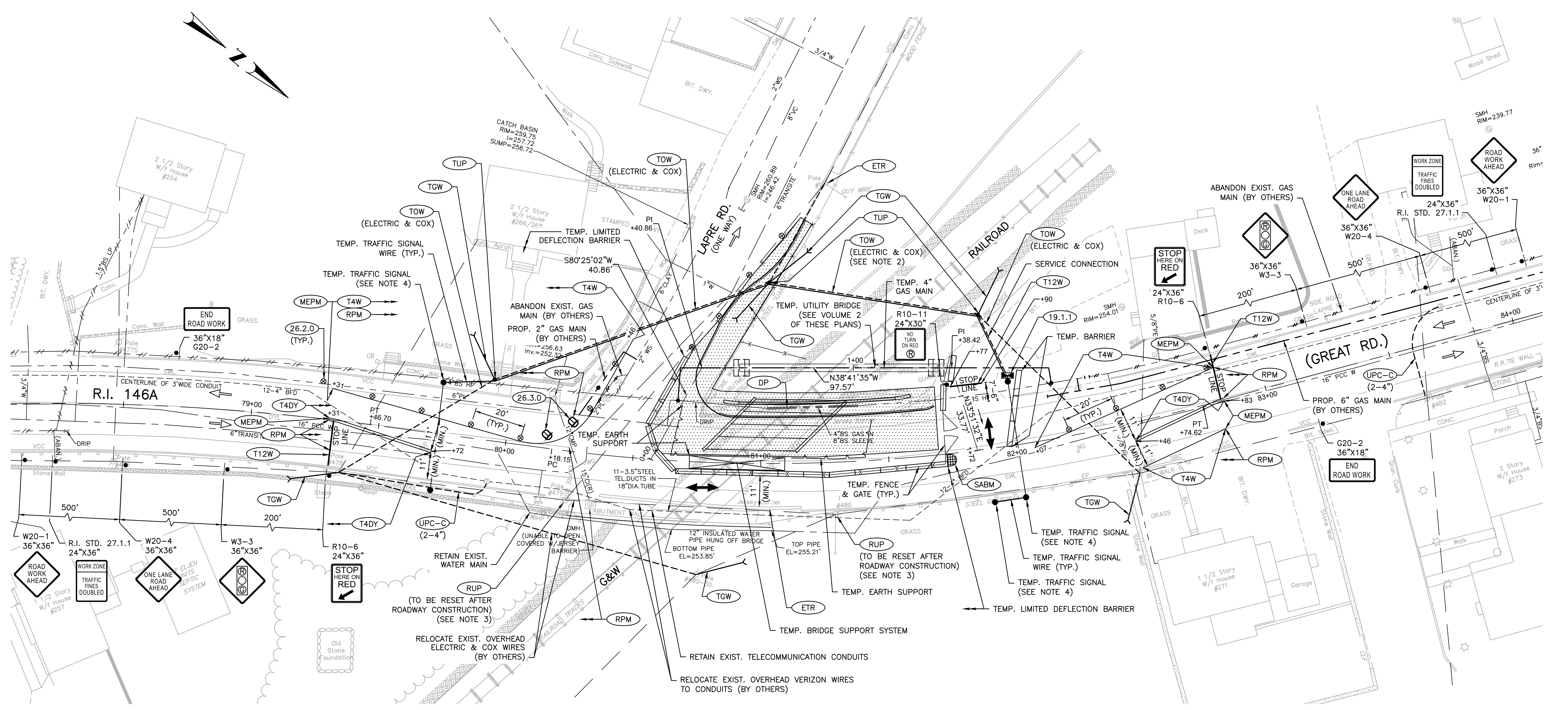
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NO.	DATE	BY
1	04/20	JPW

RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
 NORTH SMITHFIELD, RHODE ISLAND

**SIGNING & STRIPING PLAN  
 NO. 2**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE 1"=20'



**STAGE I**

ENTIRE SHEET REPLACED BY  
 ADDENDUM NO. 3

**LEGEND**

- ⊗ CHANNELIZING DEVICE (R.I. STD. 26.2.0)
- ▭ TEMPORARY BARRIER
- TEMPORARY EARTH SUPPORT SYSTEM
- EXISTING DIRECTION OF TRAFFIC
- ↔ PROPOSED BI-DIRECTIONAL TRAFFIC
- ⊙ SIGN
- ▨ VIDEO DETECTION ZONE
- ▩ WORK ZONE
- ⊕ BARRICADE (R.I. STD. 26.3.0)
- △ TEMPORARY GATE
- TEMPORARY FENCE

- NOTES:**
1. THE BRIDGE PAVEMENT SHALL BE INSTALLED SO AS TO TIE INTO THE EXISTING R.I. 146A PAVEMENT AT THE LIMITS OF THE WORK ZONE. ADDITIONAL PAVING WILL OCCUR IN STAGE III WHEN THE APPROACH ROADWAYS ARE RECONSTRUCTED.
  2. TEMPORARY WIRE CLEARANCES SHALL BE MINIMUM OF 28'-0" FROM THE TOP OF RAIL TO THE BOTTOM OF THE LOWEST WIRE.
  3. THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND RESETTING OF TOWN OWNED STREET LIGHTING WITH THE TOWN. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN STREET LIGHTING DURING CONSTRUCTION.
  4. TEMPORARY LIMITED DEFLECTION BARRIER SHALL HAVE A MAXIMUM WORKING WIDTH (BARRIER WIDTH + DYNAMIC DEFLECTION) OF 2'-6".
  5. SEE SHEETS 5 AND 31 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL NOTES.
  6. SEE SHEET 33 FOR TEMPORARY SIGNAL PLAN.
  7. SEE SHEET 16 FOR ADDITIONAL GAS MAIN DETAILS AND NOTES.

ADDENDUM NO. 3



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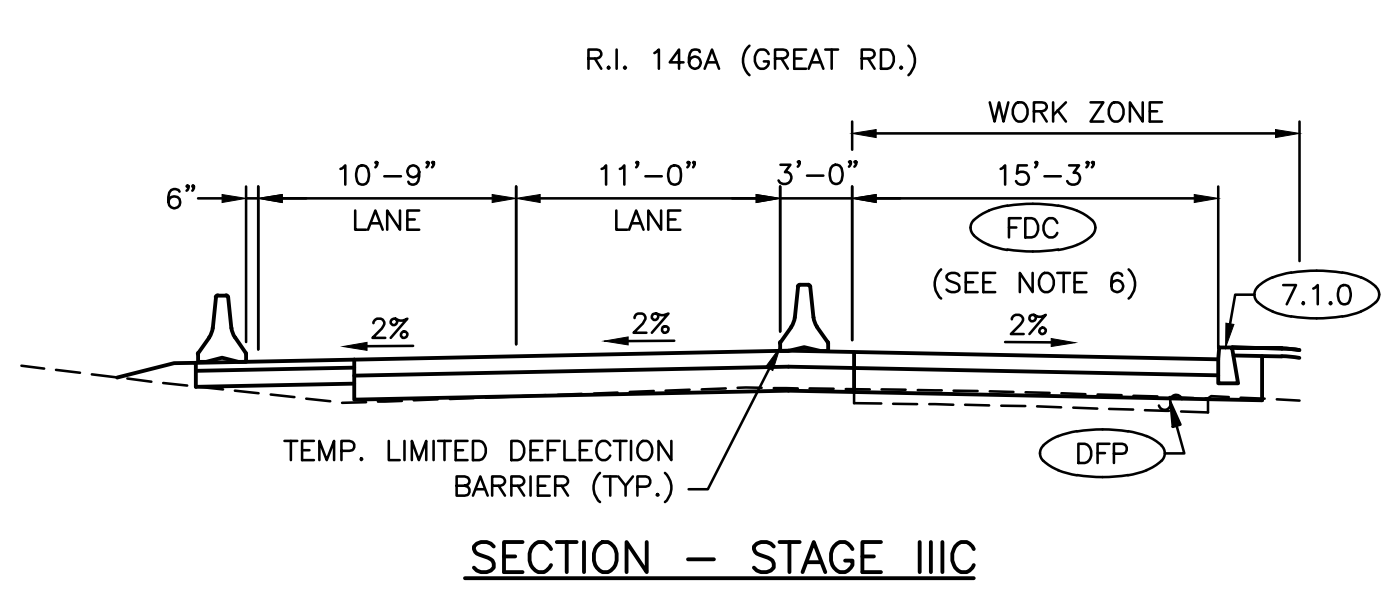
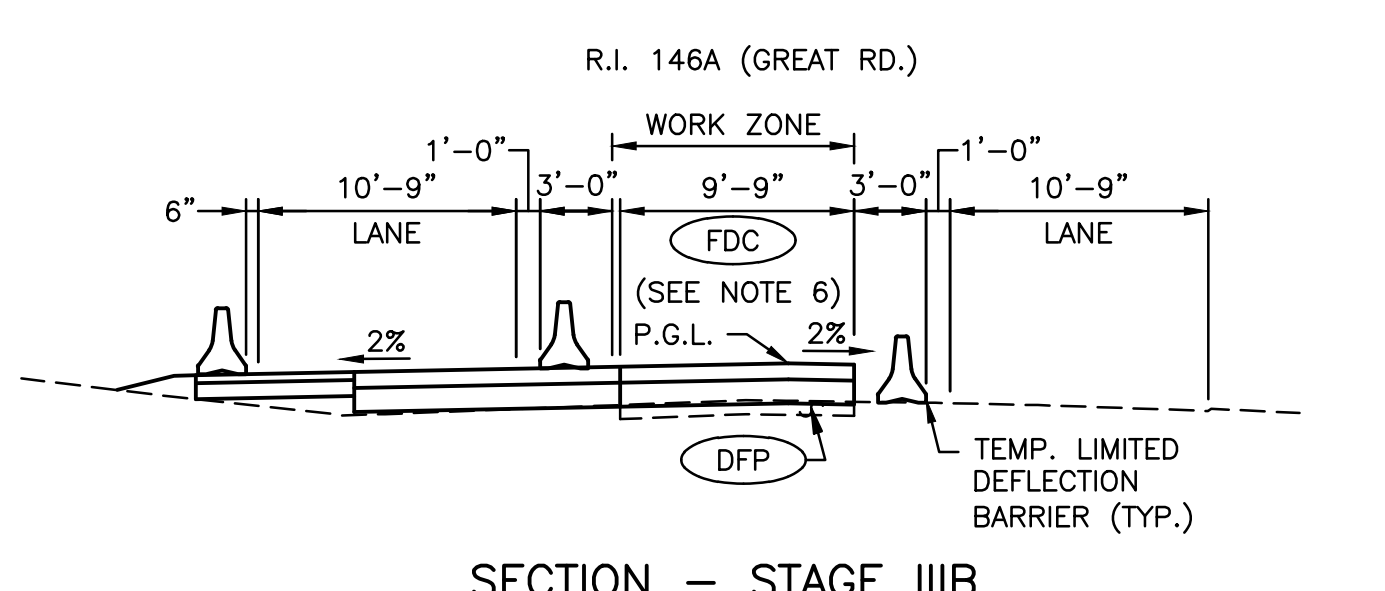
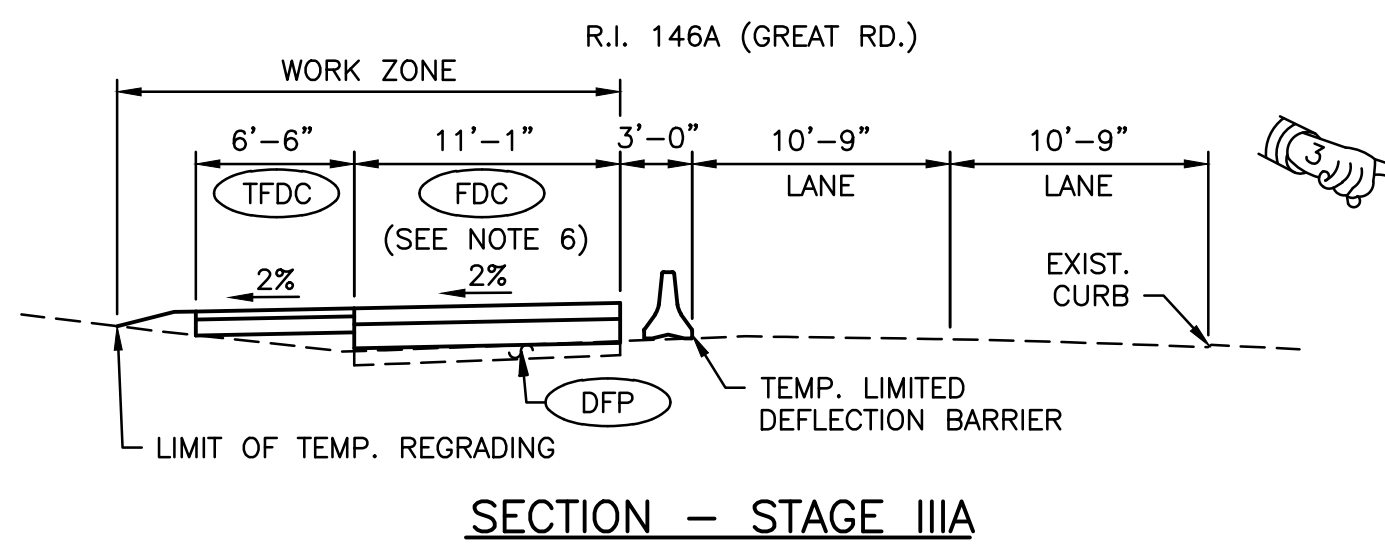
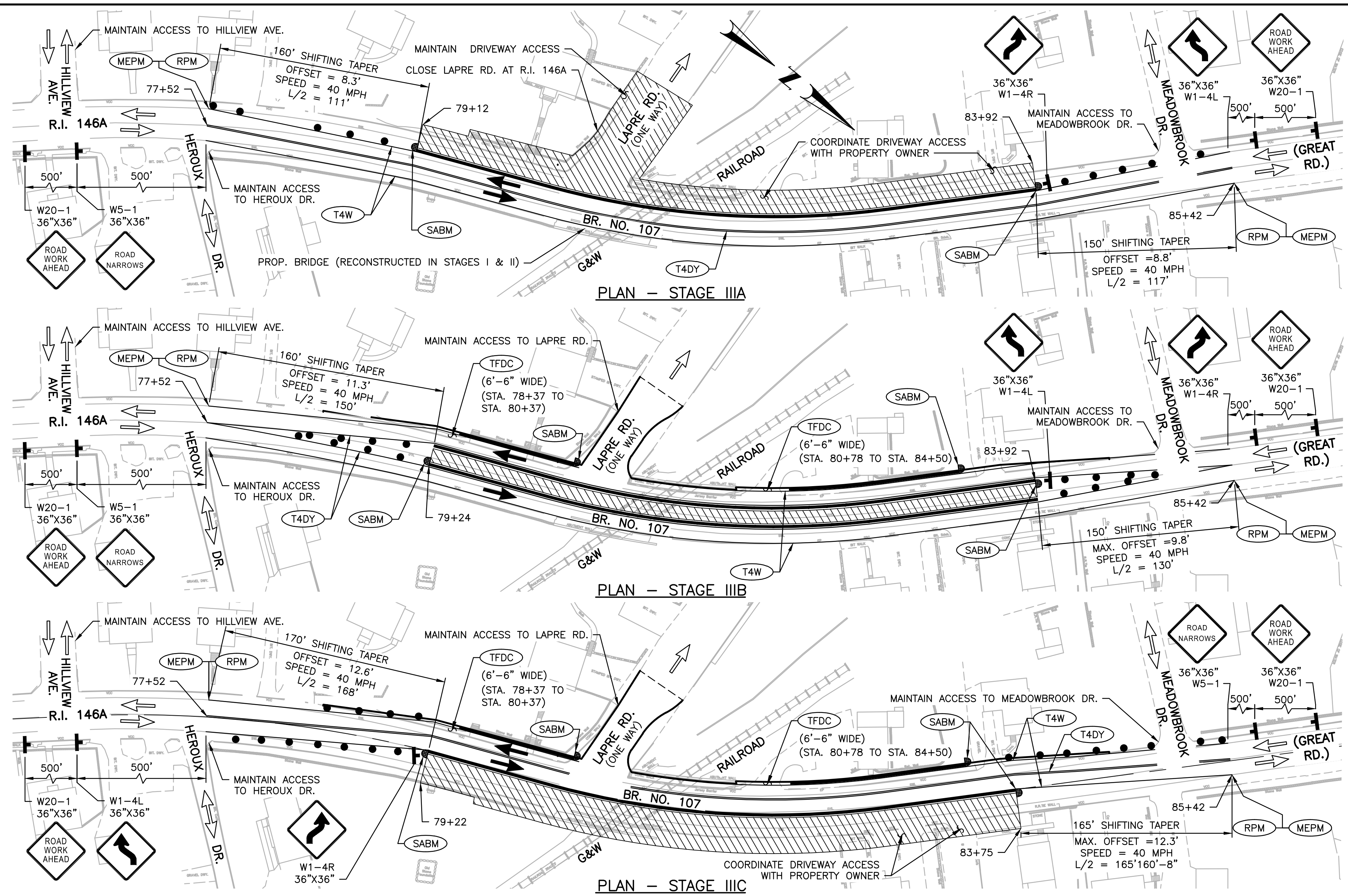
RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
 NORTH SMITHFIELD, RHODE ISLAND

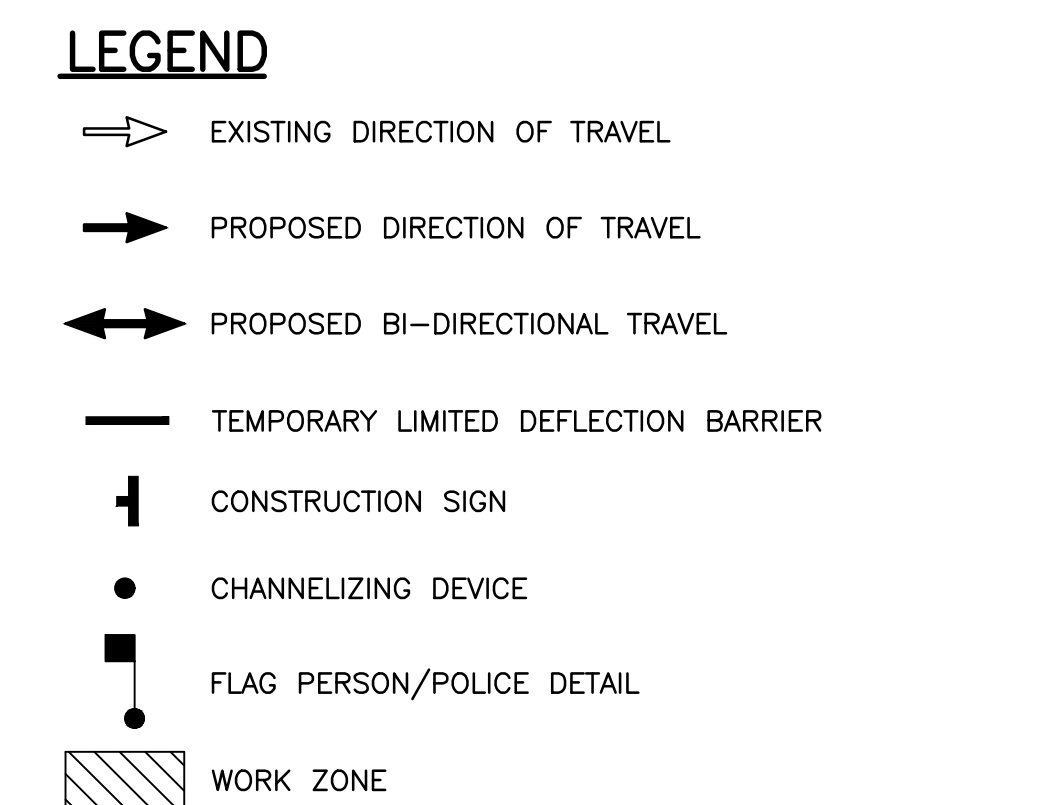
**MAINTENANCE & PROTECTION  
 OF TRAFFIC PLAN NO. 1**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE 1"=20'

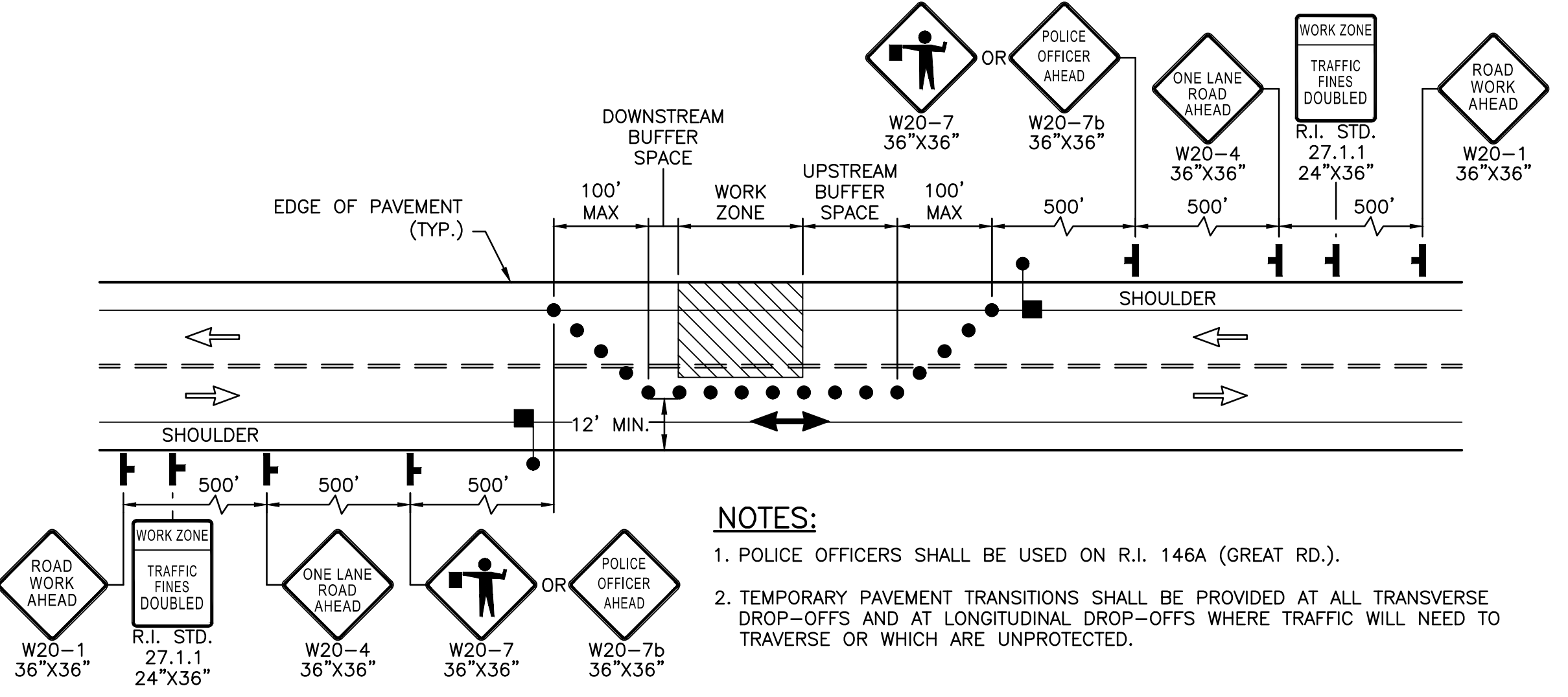




- NOTES:**
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
  - TEMPORARY LIMITED DEFLECTION BARRIER SHALL HAVE A MAXIMUM WORKING WIDTH (BARRIER WIDTH + DYNAMIC DEFLECTION) OF 2'-6".
  - WHERE A SIDE STREET INTERSECTS THE WORK ZONE, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH PART 6 OF THE MUTCD.
  - RHODE ISLAND STD. 26.1.0 CONES SHALL BE USED WHEN TRAFFIC CONTROL SET-UP IS UTILIZED ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY REMOVED AT THE END OF THE WORKDAY. RHODE ISLAND STD. 26.2.0 SHALL BE USED WHEN A TRAFFIC CONTROL SET-UP WILL REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT.
  - MAXIMUM SPACING OF CHANNELIZATION DEVICES IN THE 100' MAX. TWO-WAY TRAFFIC TAPERS IS 25 FEET. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO TWO TIMES THE SPEED LIMIT IN MPH. SHORTER SPACING SHOULD BE USED BETWEEN TRAFFIC TRAVELING IN OPPOSITE DIRECTIONS WHERE ADDITIONAL EMPHASIS IS NEEDED TO CLEARLY DEFINE THE DESIRED TRAVEL PATHS.
  - REFER TO RIDOT TRAFFIC DESIGN MANUAL DEFAULT WORK ZONE RESTRICTIONS TABLE 4-1 FOR APPLICABLE WORK HOUR LANE RESTRICTIONS.
  - THE 8" HMA BASE COURSE FOR FULL DEPTH PAVEMENT SHALL BE INSTALLED IN STAGE III. 4" TEMPORARY PAVEMENT SHALL BE INSTALLED TO MATCH THE GRADES OF THE PROPOSED BASE COURSE. HMA SURFACE COURSE SHALL NOT BE PLACED UNTIL THE BASE COURSE IS IN PLACE ACROSS THE ENTIRE ROADWAY. TEMPORARY PAVEMENT HAS BEEN REMOVED, PAVEMENT MICROMILLING AND SHIMMING HAS BEEN COMPLETED, CURBS HAVE BEEN INSTALLED AND THE BRIDGE SIDEWALK IS COMPLETE.
  - ANY WALKWAYS IN THE VICINITY OF TEMPORARY WIDENING SHALL BE PROTECTED BY TEMPORARY BARRIER OR FENCE.
  - TEMPORARY LIMITED DEFLECTION BARRIER MUST BE CERTIFIED TO MEET THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) CRASH TEST AND EVALUATION CRITERIA. THE WORKING WIDTH (WIDTH + DYNAMIC DEFLECTION) OF THE BARRIER SHALL NOT BE GREATER THAN 3'-0".
  - SEE SHEET 5 FOR ADDITIONAL TRAFFIC CONTROL NOTES.

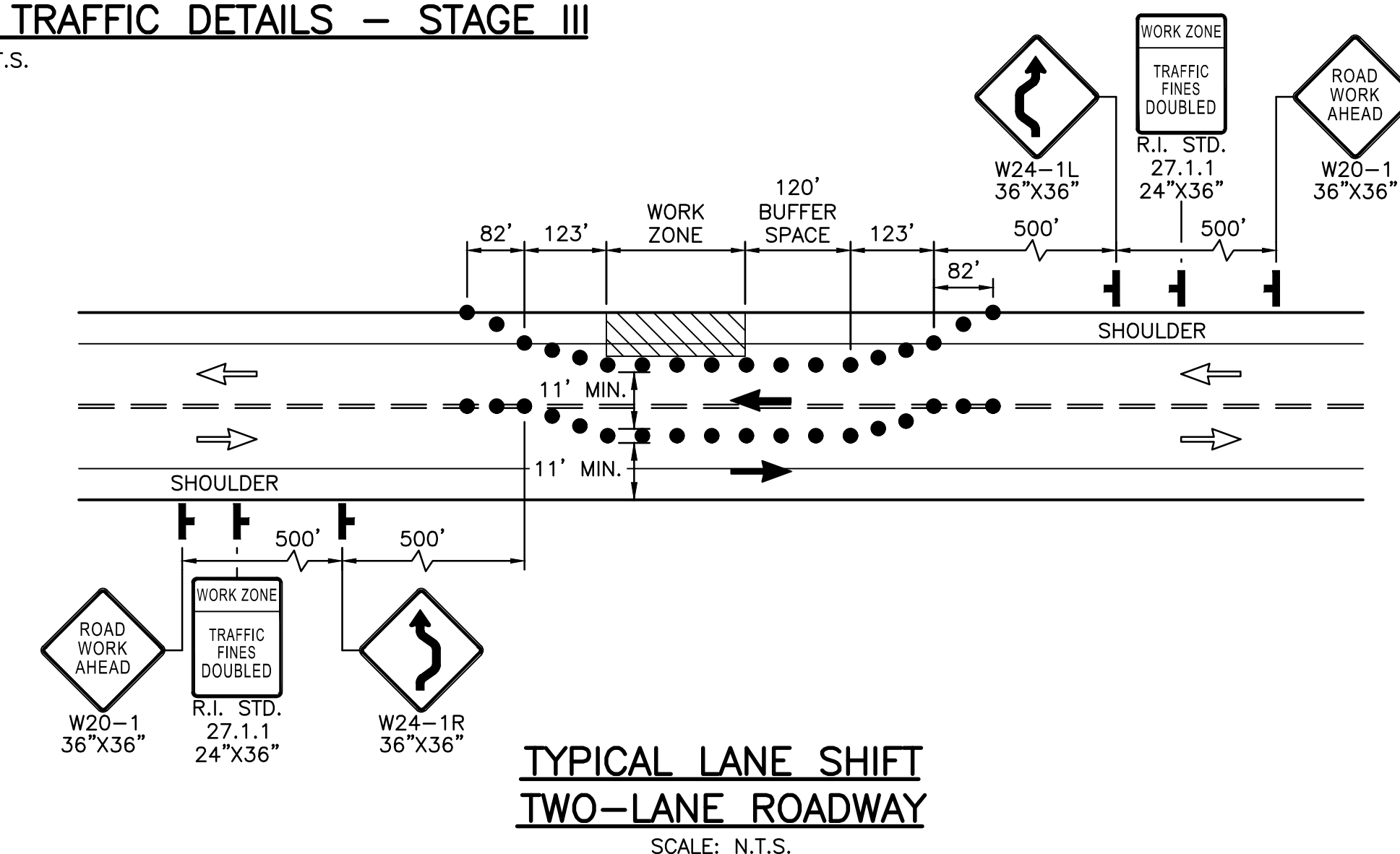


**MAINTENANCE & PROTECTION OF TRAFFIC DETAILS - STAGE III**  
 SCALE: N.T.S.



- NOTES:**
- POLICE OFFICERS SHALL BE USED ON R.I. 146A (GREAT RD.).
  - TEMPORARY PAVEMENT TRANSITIONS SHALL BE PROVIDED AT ALL TRANSVERSE DROP-OFFS AND AT LONGITUDINAL DROP-OFFS WHERE TRAFFIC WILL NEED TO TRAVERSE OR WHICH ARE UNPROTECTED.

**TYPICAL LANE CLOSURE TWO-LANE ROADWAY**  
 SCALE: N.T.S.



**TYPICAL LANE SHIFT TWO-LANE ROADWAY**  
 SCALE: N.T.S.

ADDENDUM NO. 3



REVISIONS		
NO.	DATE	BY
1	04/20	JPW

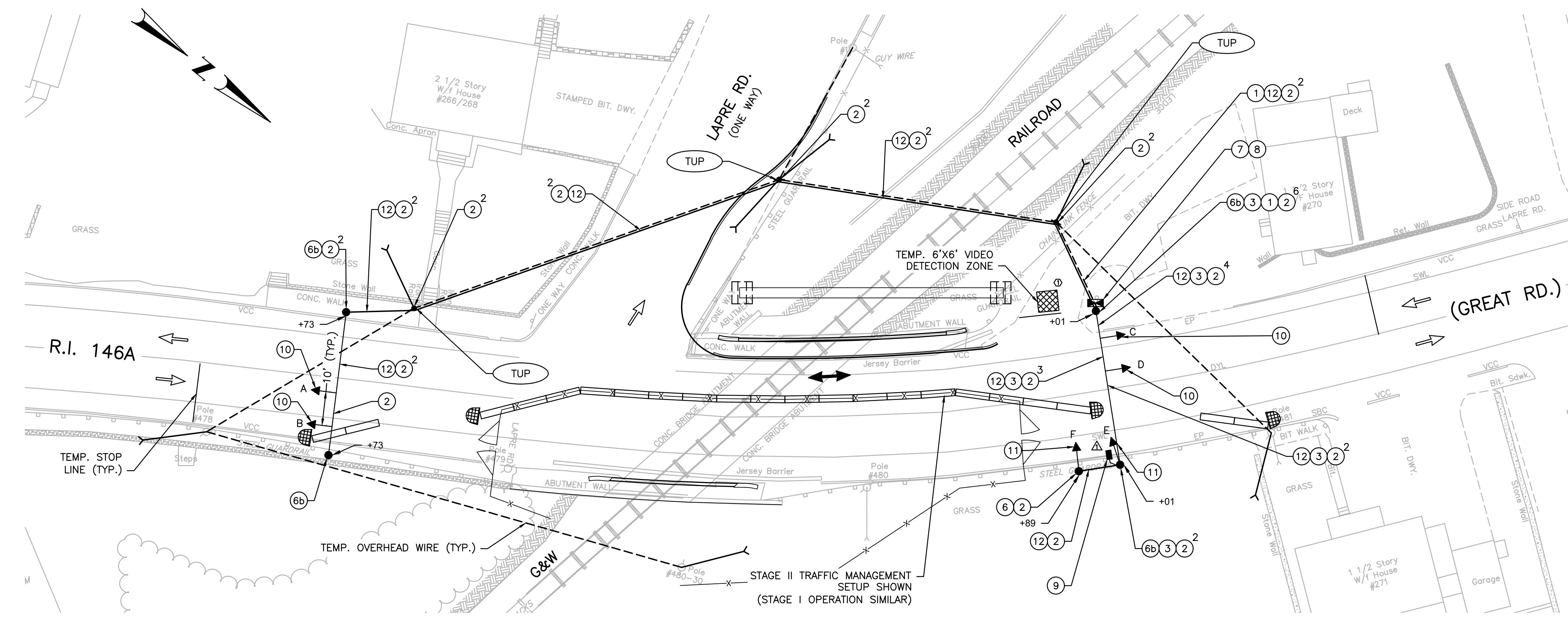
RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
 NORTH SMITHFIELD, RHODE ISLAND

**TRAFFIC CONTROL DETAILS**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE NO SCALE





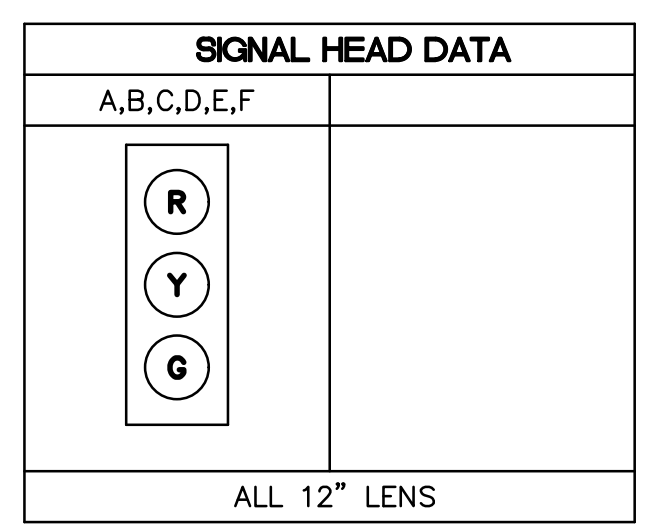
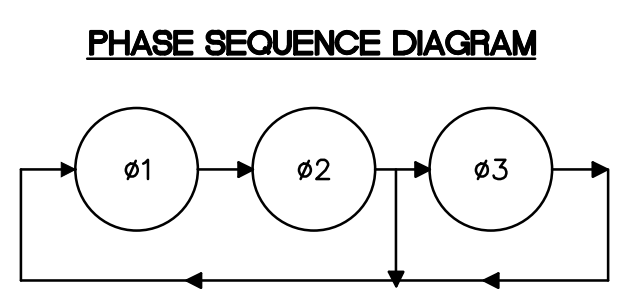
- TRAFFIC SIGNAL NOTES:**
- SEE STANDARD NOTES PLAN AND JOB SPECIFIC PLAN SYMBOLS, LEGEND & NOTES PLAN FOR ADDITIONAL INFORMATION.
  - SIGNAL TO OPERATE AS SEMI-ACTUATED WITH VIDEO ACTUATION AT THE DRIVEWAY.
  - TEMPORARY SIGNAL LAYOUT REMAINS THE SAME FOR STAGE I AND STAGE II.
  - SIGNAL HEADS MAY BE REPOSITIONED AS DIRECTED BY THE ENGINEER IN THE FIELD.
  - REMOVE EXISTING PAVEMENT MARKINGS PRIOR TO IMPLEMENTATION OF TEMPORARY SIGNAL OPERATION AS REQUIRED FOR TRAFFIC MANAGEMENT. REMOVE TEMPORARY STAGE I PAVEMENT MARKINGS PRIOR TO IMPLEMENTATION OF STAGE II TRAFFIC CONTROL AS REQUIRED.
  - SEE MPT PLANS FOR MPT EQUIPMENT, UTILITIES, SIGNAGE, AND TEMPORARY STRIPING.
  - TEMPORARY SPANWIRE NEEDS TO BE PLACED WITH A MINIMUM 3' RADIAL CLEARANCE BETWEEN THE SECONDARY POWER LINES AND THE COMM LINES.

ITEM NO.	ITEM CODE	ITEM DESCRIPTION
1	T04.5001	6 AWG SINGLE CONDUCTOR CABLE 600V INSULATION
2	T04.5305	14 AWG 5 CONDUCTOR CABLE
3	T04.9902	VIDEO DETECTION SYSTEM CABLE (PER MANUFACTURER)
6	T11.9901	TEMPORARY TIMBER SIGNAL STANDARD, 10 FT
6a	T11.9902	TEMPORARY TIMBER STRAIN POLE WITH 18.7.0 RISER
6b	T11.9903	TEMPORARY TIMBER STRAIN POLE
7	T12.9150	METER SOCKET W/ MANUAL BY-PASS
8	T12.9901	ACTUATED CONTROLLER TS-2, TYPE 1, 8 PHASE WITH POLE-MOUNTED CABINET
9	T13.9901	VIDEO DETECTION SYSTEM CAMERA (BRACKET MOUNTED)
10	T14.3413	1 WAY 3 SECTION SPAN MOUNTED SIGNAL HEAD 12 INCH
11	T14.3613	1 WAY 3 SECTION BRACKET MOUNTED SIGNAL HEAD 12 INCH
12	T11.6006	SPAN AND MESSENGER WIRES 6/16

SEQUENCE AND TIMING DIAGRAM											
APPROACH	DIRECTION	HOUSING	ø1	ø2	ø3	ø4	ø5				FLASHING OPERATION
MINIMUM INTERVAL			10	10	5						
VEHICLE EXTENSION					2						
MAXIMUM 1			38	24	5						
MAXIMUM 2			-	-	-						
YELLOW CLEARANCE			3.5	3.5	2						
RED CLEARANCE				16	16	13					
PED. WALK/CHANGE											
R.I. 146A	NB	A,B	R	R	R	G	Y	R	R	R	FR
R.I. 146A	SB	C,D	G	Y	R	R	R	R	R	R	FR
#270 DRIVEWAY	EB	E,F	R	R	R	R	R	G	Y	R	FR
DETECTOR			-	-	NON-LOCK						
RECALL			MAX	MAX	OFF						

**SEQUENCE AND TIMING NOTES:**

- FLASHING OPERATION PER M.U.T.C.D. SECTIONS 4D.28-4D.31.
- MAXIMUM 1 = NORMAL OPERATION
- MAXIMUM 2 = NOT USED



- NOTES:**
- ALL TRAFFIC SIGNAL HEADS ARE TEMPORARY.
  - ALL RED, YELLOW, AND GREEN SIGNAL DISPLAYS SHALL BE EQUIPPED WITH LED MODULES.

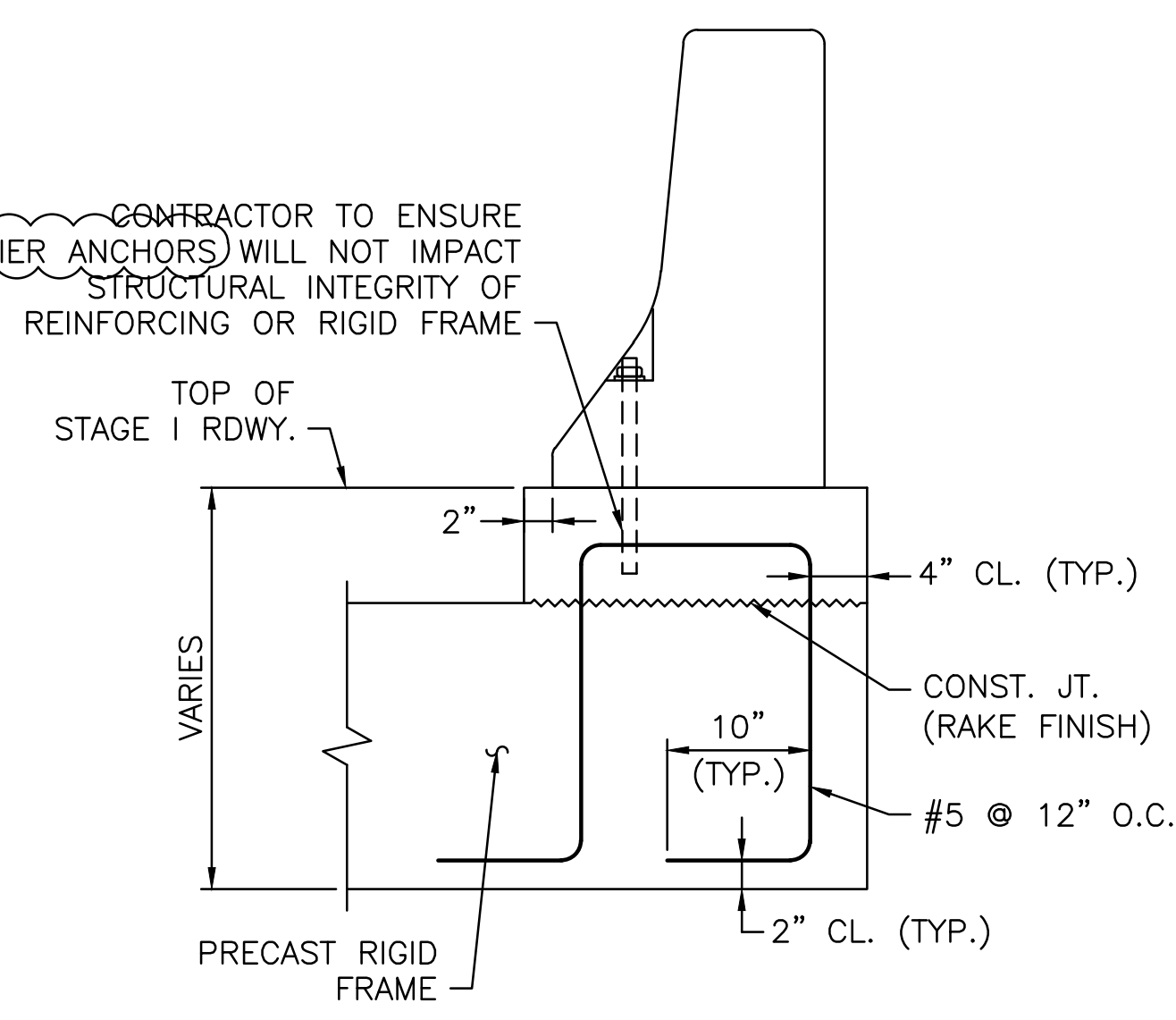
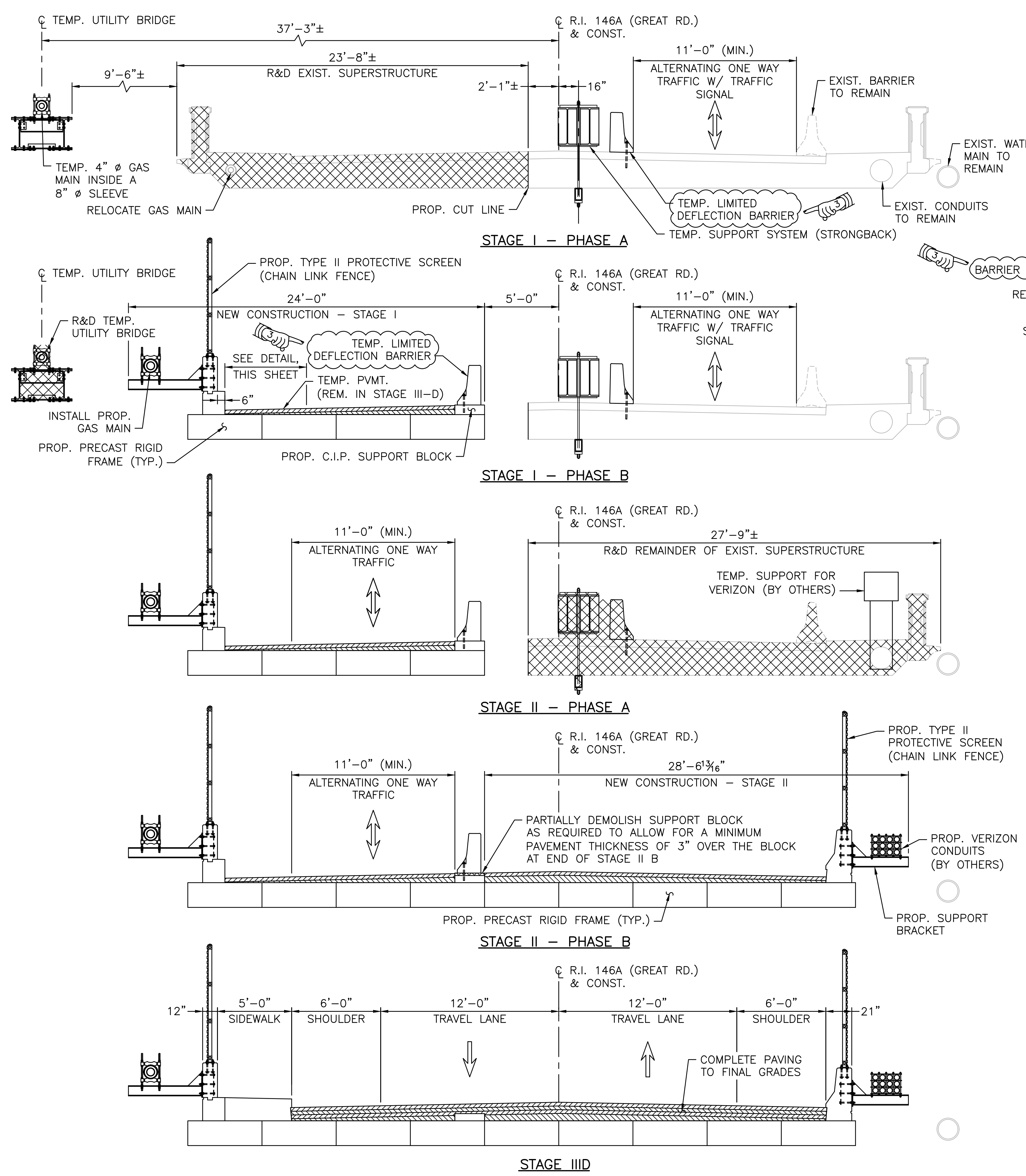
**VIDEO DETECTOR DATA**

DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	△	6'x6'	3	ø3	TEMPORARY

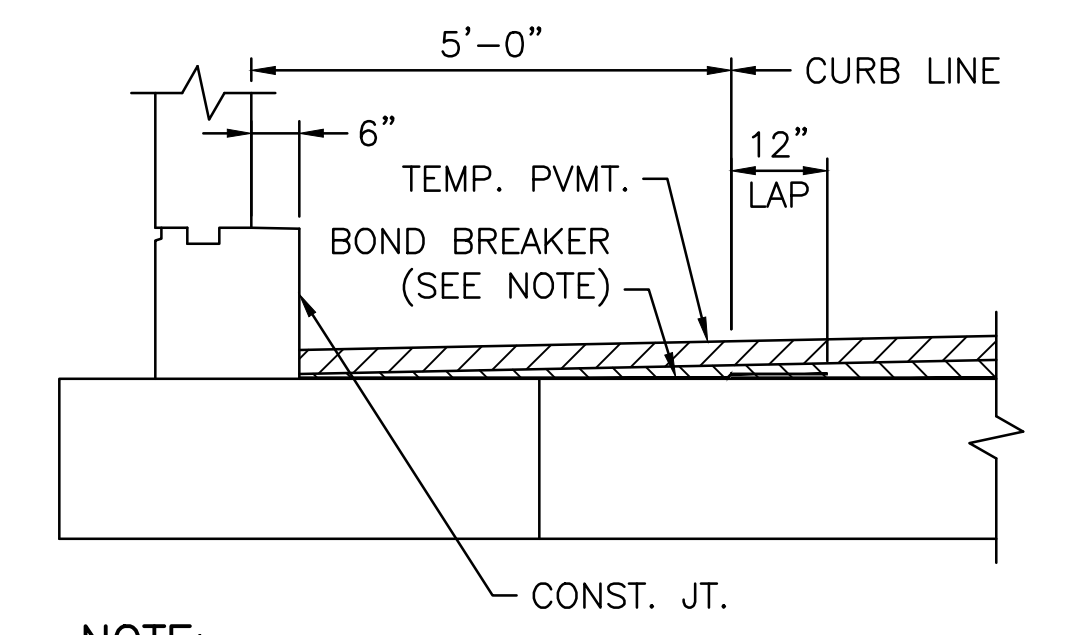
- LEGEND**
- ⊗ CHANNELIZING DEVICE (R.I. STD. 26.2.0)
  - ▬ TEMPORARY BARRIER
  - ➔ DIRECTION OF TRAFFIC
  - ↔ BI-DIRECTIONAL TRAFFIC
  - SIGN
  - ➔ SIGNAL HEAD
  - VIDEO DETECTION CAMERA
  - ▭ CONTROLLER CABINET
  - ▨ VIDEO DETECTION ZONE
  - ⊞ SHOCK ABSORBING BARRIER MODULE

ENTIRE SHEET REPLACED BY ADDENDUM NO. 3

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	04/20	JPW		
PLANS FOR BRIDGE REPLACEMENT <b>BRIDGE NO. 107</b> NORTH SMITHFIELD, RHODE ISLAND				
<b>TEMPORARY SIGNAL PLAN</b>				
CHECKED BY		DATE	SCALE 1"=20'	



**TEMPORARY CONCRETE SUPPORT BLOCK TYPICAL SECTION**  
 SCALE: 1" = 1'-0"



**NOTE:**  
 PROVIDE 5'-6" OF PAVEMENT BOND BREAKER TO ENSURE 12" (MIN.) OF MEMBRANE WATERPROOFING PRIOR TO PAVING.

**WEST SIDEWALK SECTION DURING STAGE CONSTRUCTION**  
 SCALE: 1/2" = 1'-0"

**SUGGESTED STAGE CONSTRUCTION NOTES:**

- STAGE I - PHASE A**
- INSTALL TEMPORARY UTILITY BRIDGE.
  - RELOCATE OVERHEAD UTILITIES AND GAS MAIN.
  - INSTALL TRAFFIC CONTROL FOR ALTERNATING ONE WAY TRAFFIC.
  - INSTALL TEMPORARY LIMITED DEFLECTION BARRIER.
  - SHIFT TRAFFIC TO EASTERN SIDE OF BRIDGE.
  - INSTALL TEMPORARY SUPPORT SYSTEM (STRONGBACK) TO FACILITATE REMOVAL OF WESTERN SIDE OF EXISTING BRIDGE.
  - DEMOLISH WESTERN SIDE OF EXISTING BRIDGE TO LIMITS SHOWN.
- STAGE I - PHASE B**
- CONSTRUCT CAST IN PLACE ABUTMENTS AND WINGWALLS FOR WESTERN PORTION OF PROPOSED BRIDGE. INSTALL PRECAST RIGID FRAME SECTIONS FOR WESTERN PORTION OF PROPOSED BRIDGE.
  - CONSTRUCT TEMPORARY CONCRETE SUPPORT BLOCK FOR SUPPORT OF TEMPORARY LIMITED DEFLECTION BARRIER.
  - INSTALL TEMPORARY LIMITED DEFLECTION BARRIER.
  - CONSTRUCT PORTION OF PAVEMENT STRUCTURE (SEE HWY. PLANS FOR ADDITIONAL DETAILS).
  - RELOCATE GAS MAIN TO PERMANENT LOCATION.
  - REMOVE TEMPORARY UTILITY BRIDGE.
- STAGE II - PHASE A**
- INSTALL/ADJUST TRAFFIC CONTROL FOR ALTERNATING ONE WAY TRAFFIC ON PORTION OF BRIDGE CONSTRUCTED IN STAGE I - PHASE B.
  - INSTALL TEMPORARY VERIZON SUPPORT SYSTEM (BY OTHERS).
  - INSTALL TEMPORARY SUPPORTS FOR WATER MAIN AS REQUIRED.
  - DEMOLISH REMAINDER OF EXISTING BRIDGE TO LIMITS SHOWN ON THE PLANS.
  - REMOVE TEMPORARY SUPPORT SYSTEM (STRONGBACK).
- STAGE II - PHASE B**
- CONSTRUCT REMAINDER OF CAST IN PLACE ABUTMENT FOOTINGS AND WINGWALLS. INSTALL REMAINDER OF PRECAST RIGID FRAME SECTIONS TO COMPLETE BRIDGE SUPERSTRUCTURE.
  - CONSTRUCT PORTION OF PAVEMENT STRUCTURE (SEE HWY. PLANS FOR ADDITIONAL DETAILS).
  - RELOCATE VERIZON CONDUITS TO EASTERN FASCIA OF PROPOSED BRIDGE (BY OTHERS).
  - REMOVE VERIZON TEMPORARY SUPPORT SYSTEM (BY OTHERS).
  - INSTALL TRAFFIC CONTROL TO FACILITATE APPROACH ROADWAY AND DRAINAGE WORK (SEE HWY. PLANS FOR TRAFFIC CONTROL REQUIREMENTS).
- STAGES IIIA-C**
- PERFORM APPROACH ROADWAY WORK (SEE HIGHWAY PLANS).
- STAGES IIID**
- REMOVE PORTION OF TEMPORARY PAVEMENT WIDENING CONSTRUCTED IN STAGE IIIA.
  - CONSTRUCT WESTERN SIDEWALK ON BRIDGE AND APPROACHES.
  - PERFORM REMAINING APPROACH WORK, PAVING, DRAINAGE, LINE STRIPING, ETC.
  - REMOVE TEMPORARY LIMITED DEFLECTION BARRIER AND TRAFFIC CONTROLS AND OPEN BRIDGE TO TRAFFIC.

**SUGGESTED STAGE CONSTRUCTION SEQUENCE**  
 (LOOKING UPSTATION)  
 SCALE: 1/4" = 1'-0"

ADDENDUM NO. 3



WSP USA Inc.  
 2374 POST ROAD  
 SUITE 202  
 WARWICK, RI 02886  
 TEL: +1 401.738.6600

REVISIONS		
NO.	DATE	BY
1	04/20	JPW

RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION

PLANS FOR BRIDGE REPLACEMENT  
**BRIDGE NO. 107**  
 NORTH SMITHFIELD, RHODE ISLAND

**STAGE CONSTRUCTION SECTIONS**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE AS NOTED







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 #3**

**RFQ# 7602812**

**TITLE: 2018-CB-038 BRIDGE GROUP 53 - UNION VILLAGE RR**

**SUBMISSION DEADLINE: 05/08/2020 at 2:00 PM**

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### **BID OPENING ADDENDUM -COVID-19 EMERGENCY PROTOCOL**

Vendors and the public are advised that due to Covid-19 emergency social distancing requirements bid openings at the Division of Purchases shall be conducted via live streaming on the ZOOM . Vendors and the public shall not be permitted to enter the Division of Purchases to attend bid openings. Vendors and the public who attend bid openings via live streaming shall be required to identify themselves and a record of all such attendees shall be maintained by the Division of Purchases. Vendor bid proposals shall be opened and read aloud at the date and time listed herein. The results of bid solicitations requiring a public copy for public works projects shall be posted on the Division of Purchases website as soon as possible after the bid opening. For RFP solicitations only vendor names shall be read aloud at the opening.

Vendors and the public are further advised that visitor access to the Powers Building at One Capitol Hill, Providence, RI requires pre-screening at the entrance to the building. In accordance with the Governor's Executive Order(s) and Department of Health emergency regulations all visitors to the Powers Building must wear a cloth mask which covers the nose and mouth. Vendors delivering bid proposals to the Division of Purchases should allow sufficient time for the pre-screening process. The Division of Purchases assumes no responsibility for delays caused by the screening process or any other reason. Vendors are solely responsible for on time delivery of bid proposals. The Division of Purchases shall not accept late bids for any reason.

Division of Purchases is inviting you to a scheduled Zoom meeting.

Topic: 7602812

Time: May 8, 2020 02:00 PM Eastern Time (US and Canada)

Join Zoom Meeting

<https://zoom.us/j/95994228969?pwd=dFFqdDFaQVlyTkh3b1lmWHN5V0xWZz09>

Meeting ID: 959 9422 8969

Password: 375972

One tap mobile

+13017158592,,95994228969#,,1#,375972# US (Germantown)

+13126266799,,95994228969#,,1#,375972# US (Chicago)

Dial by your location

+1 301 715 8592 US (Germantown)

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

Meeting ID: 959 9422 8969

Password: 375972

Find your local number: <https://zoom.us/u/adjbKFdDoT>

Marisa DelFarno

Buyer I

