January 16, 2014

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7548372

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2013-CT-105

FEDERAL-AID PROJECT NO. FAP Nos: STP-HSIP(011)

Traffic Safety Improvements to Plainfield Pike at Interstate I-295 (HSIP Funds)

Plainfield Pike (RI 14) between the I-295 Southbound Ramps and Independence Way

CITY/TOWN OF Cranston, Johnston

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. Contract Documents

1. Job Specific

   a. Page JS-iii

      Delete Page JS-iii in its entirety and replace with attached page JS-iii(R-1). Item Codes T20.9902, 401.9902, and 401.9903 have been added.

   b. Pages JS-74 thru JS-80

      Add, in its entirety, Pages JS-74 thru JS-80 attached to this Addendum No. 1.

B. Distribution of Quantities

1. Index

   Delete the Index in its entirety and replace with Index (R-1) attached to this Addendum No. 1. The Index has been updated.

2. Page 1

   Replace Page 1 of 40 with Pages 1(R-1) and 1a of 42 attached to this Addendum No. 1. The quantities for Item 201.0409 “Remove and Dispose Flexible Pavement” and Item 201.0423 “Remove and Dispose Handhole” have been modified.

3. Page 4 thru Page 7

   Replace Pages 4, 5, 6, and 7 of 40 with Pages 4 (R-1), 4a, 5 (R-1), 5a, 6 (R-1), 6a, and 7 (R-1) of 42 attached to this Addendum No. 1. The quantities for Item 201.9905 "Remove and Dispose Concrete Curb", 202.0100 "Earth Excavation", Item 204.0100 "Trimming and Fine Grading", Item 302.0100 "Gravel Borrow Subbase Course", and Item 601.0300 Class A Portland Cement Concrete" have been modified.

4. Page 10 and Page 11

   Replace Pages 10 and 11 of 40 with Pages 10 (R-1), 10a, 11 (R-1), and 11a attached to this Addendum No. 1. The quantities for Item 905.0110 "Portland Cement Concrete Sidewalk Monolithic Standard 43.1.0" and Item 906.0210 "Cement Concrete Curb Precast Straight Standard 7.1.0" have been modified.

5. Page 15 thru Page 19

   Replace Pages 15, 16, 17, 18, and 19 of 40 with Pages 15 (R-1), 15a, 16 (R-1), 17 (R-1), 18 (R-1), and 19 (R-1) of 42 attached to this Addendum No. 1. The quantities for Item 932.0200 "Full-Depth Sawcut of Bituminous Pavement", Item 932.0230 "Full Depth Sawcut of Portland Concrete Cement Concrete Sidewalk/Driveway", Item L01.0102 "Loam Borrow 4 Inches Deep", Item L02.0102 "Residential Seeding (Type2)", Item T04.5302 "14 AWG 2 Conductor Twisted Shield Cable" have been modified.

6. Page 29 and Page 30

   Replace Pages 29 and 30 of 40 with Pages 29 (R-1) and 30 (R-1) of 42 attached to this Addendum No. 1. The quantity for Item T13.1000 "Traffic Detectors – Loop, Standard 19.6.0" has been modified.

7. Page 35

   Replace Page 35 of 40 with Page 35 (R-1) of 42 attached to this Addendum No. 1. The Description for Item T15.9901 "Directional Regulatory and Warning Signs" has been modified.

8. Page 39

   Replace Page 39 of 40 with Pages 39 (R-1) and 39a of 42 attached to this Addendum No. 1. The quantity for Item T20.2014 "4 Inch Epoxy Resin Pavement Markings Yellow" has been modified.

9. Page 40 thru Page 42

   Replace Page 40 of 40 with Page 40 of 42 (R-1) attached to this Addendum No. 1. Add Pages 41 and 42 of 42 attached to this Addendum No. 1. Item 201.0310 "Remove and Dispose Shrubs", Item 201.0408 "Remove and Dispose Rigid Pavement", Item 401.9902 "HMA Class 12.5", Item 401.9903 "HMA Class 19", Item 906.0230 "Cement Concrete Slope Face Curb Precast Straight Standard 7.2.0", Item 906.0231 "Cement Concrete Slope Face Curb Precast Circular Standard 7.2.0", Item T15.0200 Remove and Relocate Directional Regulatory and Warning Sign", and Item T20.9902 "12 Inch Epoxy Resin Pavement Markings Yellow" have been added to the Contract.

C. Drawings/Plans - Change/Addition

1. Sheet 5 of 35 - Job Specific Plan Symbols, Legend, and Notes

   Delete Sheet 5 of 35 - Job Specific Plan Symbols, Legend, and Notes in its entirety and replace with Sheet 5 of 35 - Job Specific Plan Symbols, Legend, and Notes (R-1). Job specific callouts (DRP), (P), and (12Y) have been added.

2. Sheet 6 of 35 - Typical Sections

   Delete Sheet 6 of 35 - Typical Sections in its entirety and replace with Sheet 6 of 35 - Typical Sections (R-1). A typical section has been added from Station 45+50 to Station 46+55 to represent the area of median removal and full depth pavement construction. The callout for 6Y has been modified to 6W for the typical section from STA. 28+50 to STA. 31+25 and from STA. 38+85 to STA. 41+00. The 6Y callout was labeled incorrectly. The scale under the title block has been modified from "N/A" to "N.T.S."

3. Sheet 11 of 35 - General Plan No. 4

   Delete Sheet 11 of 35 - General Plan No. 4 in its entirety and replace with Sheet 11 of 35 - General Plan No. 4 (R-1). The concrete median on Plainfield Pike just west of the Plainfield Pike/I-295 NB Ramps intersection is to be removed and replaced with full depth pavement reconstruction and gore striping. The existing signal handhole located within the median shall be removed and disposed. 4" Loam and Seed, LS, has been added to the southeast corner of the intersection.

4. Sheet 16 of 35 - Location Plan No. 4

   Delete Sheet 16 of 35 - Location Plan No. 4 in its entirety and replace with Sheet 16 of 35 - Location Plan No. 4 (R-1). The limits of the modified concrete median curbing have been added to the plan.

5. Sheet 20 of 35 - Traffic Signal Plan No. 3

   Delete Sheet 20 of 35 - Traffic Signal Plan No. 3 in its entirety and replace with Sheet 20 of 35 - Traffic Signal Plan No. 3 (R-1). The leader for the 6'x40' loop detector in the eastbound approach on Plainfield Pike has been modified to connect into the signal handhole on the north side of the intersection as shown on the Plan. The revised limits of the concrete median are also shown on the Plan.

RI Department of Transportation
Chief Engineer

CODE	TITLE	PAGE
T15.9901 T15.9902	Directional, Regulatory, and Warning Signs Street Sign Overhead Mounted	JS-71
T20.9901	Remove Pavement Markings Arrows and Only	JS-73
T20.9902	12 Inch Epoxy Resin Pavement Markings – Yellow	JS-74
401.9902	HMA Class 12.5	JS-75
401.9903	HMA Class 19	JS-78

JOB SPECIFIC

CODE T20.9902 12 INCH EPOXY RESIN PAVEMENT MARKINGS - YELLOW

DESCRIPTION: The item of work shall conform to the requirements of the RI Standard *Specifications for Road and Bridge Construction* T.20 with the following Modifications. This work will consist of furnishing and applying 12 inch wide yellow epoxy resin pavement markings at all locations indicated on the Plans and/or as directed by the Engineer.

CONSTRUCTION METHODS: Construction methods shall be in accordance with the *Rhode Island Standard Specifications for Rhode and Bridge Construction* Section T.20.03.

METHOD OF MEASUREMENT: "12 Inch Epoxy Resin Pavement Markings - Yellow" shall be measured for payment by the unit "LINEAR FOOT" for the amount of linear feet actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: The accepted quantity of "12 Inch Epoxy Resin Pavement Markings - Yellow" will be paid for at the contract unit prices per linear foot. The price so-stated constitutes full and complete compensation for all labor, tools and other incidentals required to finish the work, complete in place and accepted by the Engineer.

JOB SPECIFIC

CODE 401.9902 HOT MIX ASPHALT – CLASS 12.5

DESCRIPTION: Class 12.5 shall conform to the requirements of the RI Standard Specifications for Road and Bridge Construction with the following exceptions and modifications.

MATERIALS:

1. Aggregate

   The aggregate shall conform to the 3 to <10 million ESAL requirements of Table 5 in AASHTO M 323. No more than 10% of the aggregate shall be natural sand. All aggregate properties of Section M.03 shall apply.

2. Performance Graded Binder

   The binder shall meet the requirements of PG 64-28, Grade S as specified in AASHTO M 320 and MP 19. The Contractor may use an approved warm mix additive (WMA) at a dosage rate recommended by the Manufacturer. If a WMA is used, it shall be provided at no additional cost to the State.

3. Mix Design

   HMA mixes shall conform to AASHTO M 323, "Standard Specification for Superpave Volumetric Mix Design". The design procedure shall follow AASHTO R 35 "Standard Practice for Superpave Volumetric Design for Hot-Mix Asphalt (HMA)". The design specifications found in AASHTO M 323 shall supersede those found in the Standard Specifications for Road and Bridge Construction. A mix design using PG64-28 Grade S shall be used to determine the design binder content. The VMA and $VMA_{effective}$ shall be calculated for each asphalt content during the mix design process. The following specific requirements and exceptions to AASHTO M 323 shall apply.

   a. $N_{initial}$ shall be 6, N_{design} shall be 50 and N_{max} shall be 75 gyrations.

   b. A moisture susceptibility test will not be required.

   c. The mix shall be designed at 4% voids.

   d. The VMA shall be greater than or equal to 15.5%.

   e. The VFA shall be 70 to 80 percent.

   f. The mix shall be coarse graded as defined in Section 6.1.3 of AASHTO M 323.

g. The dust to binder ratio ($P_{0.075}/P_{be}$) shall be 0.5 – 1.0. The design effective binder content shall be used to calculate this ratio.

h. No RAP will be allowed in the mix.

i. In addition to the sieves listed in Table 3 of AASHTO M 323, the 0.600 mm, 0.300 mm and 0.150 mm sieves will be required. The 50.0 mm and 37.5 mm sieves will not be required

The following procedures shall be adhered to for the mix design:

- Three trial blends shall be submitted and accepted before beginning the mix design procedure.
- All trial mixture data and calculations determined for Section 9 of AASHTO R 35 shall be submitted to the Engineer. The Engineer will determine which trial mixture shall be used for the mix design procedure.
- After the mix design is completed it shall be submitted to the Engineer for acceptance.
- The correction factors for the ignition furnace in the plant lab shall be provided.

The gyratory cores and Rice (AASHTO T 209) samples at the design binder content shall be submitted to the Engineer.

A successful plant trial batch shall be performed before production of the HMA begins.

CONSTRUCTION METHODS:

1. Plant Laboratory

In addition to the requirements of Section 930, the Contractor provided lab shall be equipped with the following:

a. Gyratory compactor conforming to AASHTO T 312 and two molds.

b. All equipment required to determine the theoretical maximum specific gravity in accordance with AASHTO T 209 Test Method A and Section 13.1. A metal pycnometer and electronic digital vacuum gauge shall also be provided.

c. All sieves required for the mix design process.

d. Facilities and equipment to perform a wet-wash in accordance with AASHTO T-30 and a faucet spray hose shall be provided.

2. Mix Production

Samples will be taken at the plant every 600 tons. The following mix production tolerances shall apply:

a. The air voids (V_a) shall be 3.0 – 5.0 percent.

b. The following tolerances for gradation shall apply:

19.0mm	100%
12.5mm	90% - 100%
9.5mm	90% max
2.36mm	Established by the mix design ±5%
0.075mm	Greater than or equal to 2.0%

In-place density shall be 92% of the theoretical maximum density obtained at the plant.

METHOD OF MEASUREMENT: Subsection 401.04 of the RI Standard Specifications for Road and Bridge Construction will be used as the method of measurement.

BASIS OF PAYMENT: Subsection 401.05 of the RI Standard Specifications for Road and Bridge Construction will be used as the basis of payment.

JOB SPECIFIC

CODE 401.9903 HOT MIX ASPHALT – CLASS 19.0

DESCRIPTION: Class 19.0 shall conform to the requirements of the RI Standard Specifications for Road and Bridge Construction with the following exceptions and modifications.

MATERIALS:

1. Aggregate

   The aggregate shall conform to the 3 to <10 million ESAL requirements of Table 5 in AASHTO M 323. No more than 10% of the aggregate shall be natural sand. All aggregate properties of Section M.03 shall apply.

2. Performance Graded Binder

   The binder shall meet the requirements of PG 64-22, Grade S as specified in AASHTO M 320 and MP 19. Table 2 of AASHTO M 323 shall be used to determine any changes to the binder grade due to the addition of RAP. If a WMA is used, it shall be provided at no additional cost to the State.

3. Mix Design

   HMA mixes shall conform to AASHTO M 323, "Standard Specification for Superpave Volumetric Mix Design". The design procedure shall follow AASHTO R 35 "Standard Practice for Superpave Volumetric Design for Hot-Mix Asphalt (HMA)". The design specifications found in AASHTO M 323 shall supersede those found in the Standard Specifications for Road and Bridge Construction. A mix design using PG64-22 Grade S shall be used to determine the design binder content. The VMA and $VMA_{effective}$ shall be calculated for each asphalt content during the mix design process. The following specific requirements and exceptions to AASHTO M 323 shall apply.

   a. Mixes shall be designed with a 0%, 10%, 15%, 20% or 25% RAP content.

   b. $N_{initial}$ shall be 6, N_{design} shall be 50 and N_{max} shall be 75 gyrations.

   c. A moisture susceptibility test will not be required.

   d. The mix shall be designed at 4% voids.

   e. The VMA shall be greater than or equal to 14.5%.

   f. The VFA shall be 70 to 80 percent.

   g. The mix shall be coarse graded as defined in Section 6.1.3 of AASHTO M 323.

h. The dust to binder ratio ($P_{0.075}/P_{be}$) shall be 0.5 – 1.0. The design effective binder content shall be used to calculate this ratio.

i. In addition to the sieves listed in Table 3 of AASHTO M 323, the 0.600 mm, 0.300 mm and 0.150 mm sieves will be required. The 50.0 mm and 37.5 mm sieves will not be required.

The following procedures shall be adhered to for the mix design:

- Three trial blends shall be submitted and accepted before beginning the mix design procedure.
- All trial mixture data and calculations determined for Section 9 of AASHTO R 35 shall be submitted to the Engineer. The Engineer will determine which trial mixture shall be used for the mix design procedure.
- After the mix design is completed it shall be submitted to the Engineer for acceptance.
- The correction factors for the ignition furnace in the plan lab shall be provided.

The gyratory cores and Rice (AASHTO T 209) samples at the design binder content shall be submitted to the Engineer.

A successful plant trial batch shall be performed before production of the HMA begins.

CONSTRUCTION METHODS:

1. Plant Laboratory

In addition to the requirements of Section 930, the Contractor provided lab shall be equipped with the following:

a. Gyratory compactor conforming to AASHTO T 312 and two molds.

b. All equipment required to determine the theoretical maximum specific gravity in accordance with AASHTO T 209 Test Method A and Section 13.1. A metal pycnometer and electronic digital vacuum gauge shall also be provided.

c. All sieves required for the mix design process.

d. Facilities and equipment to perform a wet-wash in accordance with AASHTO T-30 and a faucet spray hose shall be provided.

2. Mix Production

Samples will be taken at the plant every 600 tons. The following mix production tolerances shall apply:

a. The production air voids (V_a) shall be 3.0 – 5.0 percent.

b. The voids in mineral aggregate (VMA) shall be 14.5% minimum.

The following tolerances for gradation shall apply:

25.0mm	100%
19.0mm	90% - 100%
12.5mm	90% max
2.36mm	Established by the mix design ± 5%
0.075mm	Greater than or equal to 2.0%

In-place density shall be 92% of the theoretical maximum density obtained at the plant.

METHOD OF MEASUREMENT: Subsection 401.04 of the RI Standard Specifications for Road and Bridge Construction will be used as the method of measurement.

BASIS OF PAYMENT: Subsection 401.05 of the RI Standard Specifications for Road and Bridge Construction will be used as the basis of payment.

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S001	**201.0403**	**REMOVE AND DISPOSE SIDEWALKS**	**SY**			
		SIDEWALK				
		40+66 L - 41+17 L		54.00	0021	01
		41+51 L - 54+24 L		893.00	0021	01
		54+00 R - 54+24 R		24.00	0021	01
		Item 201.0403 Total:		**971.00**		
S002	**201.0409**	**REMOVE AND DISPOSE FLEXIBLE PAVEMENT**	**SY**			
		ROADWAY				
		36+18 R - 36+32 R		8.00	0021	01
		40+66 L - 41+18 L		24.00	0021	01
		41+50 L - 54+24 L		214.00	0021	01
		45+42 L - 46+56 R		13.00	0021	01
		45+42 R - 46+56 R		13.00	0021	01
		53+99 R - 54+23 R		4.00	0021	01
		Item 201.0409 Total:		**276.00**		
S003	**201.0423**	**REMOVE AND DISPOSE HANDHOLE**	**EACH**			
		ROADWAY				
		32+56 R		1.00	0021	01
		35+06 R		1.00	0021	01
		40+26 R		1.00	0021	01
		42+76 R		1.00	0021	01
		46+47 R		1.00	0021	01
		47+32 R		1.00	0021	01
		Item 201.0423 Total:		**6.00**		
S004	**201.0610**	**REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS**	**EACH**			
		ROADWAY				
		27+55 R		1.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S004	**201.0610 Cont.**	28+32 R		1.00	0021	01
		30+34 L		2.00	0021	01
		30+58 L		2.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S009	201.9904 Cont.	**IMPACTED BY HAZARDOUS MATERIAL**				
		PROJECT WIDE				
		PROJECT WIDE		100.00	0021	01
		Item 201.9904 Total:		**100.00**		
S010	201.9905	**REMOVE AND DISPOSE CONCRETE CURB**	**LF**			
		ROADWAY				
		40+66L - 40+98L		36.00	0021	01
		41+02L - 41+15L		46.00	0021	01
		41+50L - 41+77L		53.00	0021	01
		41+79L - 43+28L		151.00	0021	01
		43+49L - 44+20L		71.00	0021	01
		44+40L - 45+55L		115.00	0021	01
		45+42L - 46+56R		115.00	0021	01
		45+42R - 46+56R		114.00	0021	01
		45+78L - 47+19L		139.00	0021	01
		47+50L - 48+48L		96.00	0021	01
		48+50L - 48+52L		2.00	0021	01
		48+85L - 48+88L		4.00	0021	01
		48+90L - 49+81L		90.00	0021	01
		50+07L - 50+31L		24.00	0021	01
		50+62L - 50+68L		6.00	0021	01
		50+97L - 51+32L		36.00	0021	01
		51+78L - 52+68L		91.00	0021	01
		53+01L - 53+02L		2.00	0021	01
		53+05L - 53+48L		44.00	0021	01
		53+72L - 54+24L		53.00	0021	01
		53+99R - 54+07R		13.00	0021	01
		54+11R - 53+24R		14.00	0021	01
		Item 201.9905 Total:		**1,315.00**		
S011	202.0100	**EARTH EXCAVATION**	**CY**			
		MEDIAN				

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S011	202.0100 Cont.	45+42 C - 45+50 C (1 SY @ 8" DEPTH)		1.00	0021	01
		45+42 L - 46+56 R (13 SY @ 19" DEPTH)		7.00	0021	01
		45+42 R - 46+56 R (13 SY @ 19" DEPTH)		7.00	0021	01
		45+50 C - 46+55 R (176 SY @ 21" DEPTH)		103.00	0021	01
		ROADWAY				
		FROM ITEM CODE 201.0403		216.00	0021	01
		FROM ITEM CODE 201.0409		56.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S011	**202.0100 Cont.**	**Item 202.0100 Total:**		**390.00**		
S012	**202.0201**	**ROCK EXCAVATION MECHANICAL**	**CY**			
		SIGNAL FOUNDATIONS				
		40+98 L		10.00	0021	01
		41+62 L		6.00	0021	01
		46+45 L		4.00	0021	01
		Item 202.0201 Total:		**20.00**		
S013	**202.0700**	**COMMON BORROW**	**CY**			
		PROJECT WIDE				
		REF ITEM CODE 201.9904		80.00	0021	01
		REF ITEM CODE 202.0200		140.00	0021	01
		Item 202.0700 Total:		**220.00**		
S014	**204.0100**	**TRIMMING AND FINE GRADING**	**SY**			
		ROADWAY				
		FROM ITEM CODE 401.9901 (BIT DW)		8.00	0021	01
		FROM ITEM CODE 401.9902		176.00	0021	01
		FROM ITEM CODE 905.0110		789.00	0021	01
		FROM ITEM CODE 905.0115		270.00	0021	01
		FROM ITEM CODE L01.0102		533.00	0021	01
		Item 204.0100 Total:		**1,776.00**		
S015	**205.0240**	**TRENCH ROCK EXCAVATION (0-7')**	**CY**			
		PROJECT WIDE				
		PROJECT WIDE		140.00	0021	01
		Item 205.0240 Total:		**140.00**		
S016	**206.9901**	**INLET SEDIMENT CONTROL DEVICE**	**EACH**			
		ROADWAY				
		42+03 L		1.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S016	**206.9901 Cont.**	44+93	L	1.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S016	206.9901 Cont.	50+03 L		1.00	0021	01
		53+05 L		1.00	0021	01
		Item 206.9901 Total:		**4.00**		
S017	212.2000	**CLEANING AND MAINTENANCE OF EROSION CONTROLS**	**LS**			
		PROJECT WIDE				
		PROJECT WIDE		1.00	0021	01
		Item 212.2000 Total:		**1.00**		
S018	302.0100	**GRAVEL BORROW SUBBASE COURSE**	**CY**			
		ROADWAY				
		FROM ITEM CODE 401.9901 (BIT DW)		2.00	0021	01
		FROM ITEM CODE 401.9902		59.00	0021	01
		FROM ITEM CODE 905.0110		175.00	0021	01
		FROM ITEM CODE 905.0115		60.00	0021	01
		Item 302.0100 Total:		**296.00**		
S019	401.9901	**HMA CLASS 9.5**	**TON**			
		ROADWAY				
		36+18 R- 36+31 R (BIT DW)		2.00	0021	01
		40+66 L - 41+17 L		2.00	0021	01
		41+50 L - 54+24 L		19.00	0021	01
		53+98 R - 54+23 R		1.00	0021	01
		MISC PATCHING		6.00	0021	01
		Item 401.9901 Total:		**30.00**		
S020	601.0300	**CLASS A PORTLAND CEMENT CONCRETE**	**CY**			
		ROADWAY				
		40+66 L - 41+17 L		3.00	0021	01
		41+51 L - 43+28 L		8.00	0021	01
		43+49 L - 44+19 L		3.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S020	**601.0300 Cont.**	44+40 L - 45+55 L		4.00	0021	01
		45+42 L - 45+50 C		1.00	0021	01
		45+42 R - 45+50 C		1.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S020	601.0300 Cont.	45+71 L - 47+19 L		5.00	0021	01
		47+50 L - 48+53 L		4.00	0021	01
		48+85 L - 49+81 L		4.00	0021	01
		50+07 L - 50+53 L		2.00	0021	01
		50+95 L - 51+37 L		2.00	0021	01
		51+72 L - 52+74 L		4.00	0021	01
		53+06 L - 53+48 L		2.00	0021	01
		53+72 L - 54+24 L		2.00	0021	01
		54+00 R - 54+24 R		1.00	0021	01
		Item 601.0300 Total:		**46.00**		
S021	702.0516	**FRAME AND GRATE, HIGH CAPACITY, STANDARD 6.3.4**	EACH			
		ROADWAY				
		42+03 L		1.00	0021	01
		Item 702.0516 Total:		**1.00**		
S022	702.0532	**PRECAST CONCRETE APRON STONE 5' STANDARD 7.1.7**	EACH			
		ROADWAY				
		42+03 L		1.00	0021	01
		44+94 L		1.00	0021	01
		Item 702.0532 Total:		**2.00**		
S023	704.0100	**RECONSTRUCT CATCH BASIN/CORBEL CONES**	EACH			
		ROADWAY				
		42+03 L		1.00	0021	01
		Item 704.0100 Total:		**1.00**		
S024	707.0900	**ADJUST MANHOLES TO GRADE**	EACH			
		ROADWAY				
		36+29 R		1.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S030	904.0101 Cont.	ROADWAY				
		37+60R - 38+10R		50.00	0021	01
		Item 904.0101 Total:		**50.00**		
S031	905.0110	**PORTLAND CEMENT SIDEWALK**	**CY**			
		MONOLITHIC STANDARD 43.1.0				
		SIDEWALK				
		40+66 L - 41+17 L		8.00	0021	01
		41+51 L - 43+24 L		15.00	0021	01
		43+51 L - 44+16 L		5.00	0021	01
		44+46 L - 45+52 L		9.00	0021	01
		45+42 C - 45+50 C		1.00	0021	01
		45+74 L - 47+16 L		14.00	0021	01
		47+53 L - 48+49 L		12.00	0021	01
		48+88 L - 49+77 L		7.00	0021	01
		50+30 L - 50+47 L		3.00	0021	01
		51+01 L - 51+31 L		3.00	0021	01
		51+78 L - 52+68 L		9.00	0021	01
		53+12 L - 53+42 L		3.00	0021	01
		53+78 L - 54+24 L		4.00	0021	01
		54+00 R - 54+26 R		3.00	0021	01
		Item 905.0110 Total:		**96.00**		
S032	905.0115	**PORTLAND CEMENT CONCRETE DRIVEWAY**	**CY**			
		STANDARD 43.5.0				
		ROADWAY				
		43+24 L - 43+51 L		4.00	0021	01
		44+16 L - 44+43 L		4.00	0021	01
		45+52 L - 45+74 L		4.00	0021	01
		47+16 L - 47+53 L		7.00	0021	01
		48+49 L - 48+88 L		6.00	0021	01
		49+77 L - 50+10 L		5.00	0021	01
		50+47 L - 51+01 L		9.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S032	**905.0115 Cont.**	51+31 L - 51+78 L		9.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S032	905.0115 Cont.	52+68 L - 53+12 L		9.00	0021	01
		53+42 L - 53+78 L		7.00	0021	01
		Item 905.0115 Total:		**64.00**		
S033	906.0210	**CEMENT CONCRETE CURB PRECAST**	**LF**			
		STRAIGHT STANDARD 7.1.0				
		ROADWAY				
		41+51 L - 41+54 L		17.00	0021	01
		42+05 L - 43+25 L		120.00	0021	01
		43+52 L - 44+16 L		64.00	0021	01
		44+43 L - 44+91 L		47.00	0021	01
		44+96 L - 45+52 L		57.00	0021	01
		45+74 L - 47+16 L		139.00	0021	01
		47+53 L - 48+49 L		94.00	0021	01
		48+88 L - 49+78 L		88.00	0021	01
		50+09 L - 50+47 L		38.00	0021	01
		51+01 L - 51+31 L		30.00	0021	01
		51+78 L - 52+68 L		90.00	0021	01
		53+12 L - 53+42 L		28.00	0021	01
		53+78 L - 53+99 L		21.00	0021	01
		54+18 L - 54+24 L		6.00	0021	01
		MISC.		18.00	0021	01
		Item 906.0210 Total:		**857.00**		
S034	906.0211	**CEMENT CONCRETE CURB PRECAST**	**LF**			
		CIRCULAR STANDARD 7.1.0				
		ROADWAY				
		40+66 L - 40+99 L		33.00	0021	01
		41+08 L - 41+16 L		41.00	0021	01
		41+54 L - 41+64 L		23.00	0021	01
		41+73 L - 42+00 L		29.00	0021	01
		54+00 R - 54+05 R		5.00	0021	01
		54+15 R - 54+24 R		12.00	0021	01

Distribution of Quantities

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R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S034	906.0211 Cont.	Item 906.0211 Total:		143.00		

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S045	**923.0125**	**PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1**	**EACH**			
		PROJECT WIDE				
		PROJECT WIDE		6.00	0021	01
		Item 923.0125 Total:		**6.00**		
S046	**923.0200**	**FLUORESCENT TRAFFIC CONES STANDARD 26.1.0**	**EACH**			
		PROJECT WIDE				
		PROJECT WIDE		115.00	0021	01
		Item 923.0200 Total:		**115.00**		
047	**925.0112**	**PORTABLE CHANGEABLE MESSAGE SIGN**	**PDAY**			
		PROJECT WIDE				
		PROJECT WIDE		80.00	0021	01
		Item 925.0112 Total:		**80.00**		
S048	**929.0110**	**FIELD OFFICE**	**PMO**			
		PROJECT WIDE				
		PROJECT WIDE		18.00	0021	01
		Item 929.0110 Total:		**18.00**		
S049	**932.0200**	**FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT**	**LF**			
		CURB REMOVAL/DRIVEWAY ENTRANCES				
		40+66 L - 41+17 L		93.00	0021	01
		41+50 L - 54+24 L		1,303.00	0021	01
		45+42 L - 46+56 R		115.00	0021	01
		45+42 R - 46+56 R		114.00	0021	01
		53+99 R - 54+23 R		33.00	0021	01
		Item 932.0200 Total:		**1,658.00**		
S050	**932.0220**	**FULL DEPTH SAWCUT OF BITUMINOUS**	**LF**			

Distribution of Quantities

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Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S050	**932.0220 Cont.**	**SIDEWALK/DRIVEWAY**				
		DRIVEWAYS				

Distribution of Quantities

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Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S050	932.0220 Cont.	36+18 R - 36+31 R		14.00	0021	01
		36+19 R - 36+31 R		13.00	0021	01
		45+55 L - 45+71 L		17.00	0021	01
		48+52 L - 48+85 L		32.00	0021	01
		49+81 L - 50+07 L		26.00	0021	01
		50+10 L - 50+95 L		85.00	0021	01
		51+37 L - 51+72 L		36.00	0021	01
		52+75 L - 53+01 L		27.00	0021	01
		53+47 L - 53+75 L		24.00	0021	01
		Item 932.0220 Total:		**274.00**		
S051	932.0230	**FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY**	**LF**			
		SIDEWALKS				
		40+66 L - 40+66 L		7.00	0021	01
		41+10 L - 41+16 L		7.00	0021	01
		41+51 L - 41+57 L		6.00	0021	01
		45+42 R - 45+42 L		18.00	0021	01
		54+03 R - 54+09 R		6.00	0021	01
		54+24 L - 54+24 L		7.00	0021	01
		54+24 R - 54+26 R		6.00	0021	01
		Item 932.0230 Total:		**57.00**		
S052	936.9901	**MOBILIZATION**	**LS**			
		PROJECT WIDE				
		PROJECT WIDE		1.00	0021	01
		Item 936.9901 Total:		**1.00**		
S053	937.0200	**MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION**	**LS**			
		PROJECT WIDE				
		PROJECT WIDE		1.00	0021	01
		Item 937.0200 Total:		**1.00**		

Distribution of Quantities

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R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S054	**942.0100**	**DETECTABLE WARNING SYSTEMS**	**SF**			
		STANDARD 48.1.0				
		ROADWAY				
		41+03 L		8.00	0021	01
		41+69 L		8.00	0021	01
		54+10 L		8.00	0021	01
		54+10 R		8.00	0021	01
		Item 942.0100 Total:		**32.00**		
S055	**943.0200**	**TRAINEE MAN-HOURS**	**MHRS**			
		PROJECT WIDE				
		PROJECT WIDE		500.00	0021	01
		Item 943.0200 Total:		**500.00**		
S056	**L01.0102**	**LOAM BORROW 4 INCHES DEEP**	**SY**			
		ROADWAY				
		32+36 R - 42+94 R		366.00	0021	01
		41+57 L - 44+76 L		97.00	0021	01
		47+19 L - 47+72 L		10.00	0021	01
		47+25 R - 47+42 R		23.00	0021	01
		48+46 L - 48+53 L		2.00	0021	01
		48+85 L - 48+97 L		3.00	0021	01
		50+96 L - 51+37 L		9.00	0021	01
		51+73 L - 52+75 L		23.00	0021	01
		53+02 L - 53+49 L		11.00	0021	01
		53+73 L - 53+79 L		2.00	0021	01
		54+09 R - 54+26 R		11.00	0021	01
		Item L01.0102 Total:		**557.00**		
S057	**L02.0102**	**RESIDENTIAL SEEDING (TYPE 2)**	**SY**			
		ROADWAY				
		FROM ITEM CODE L01.0102		557.00	0021	01
		Item L02.0102 Total:		**557.00**		

Distribution of Quantities

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(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S058	**L11.0104**	**DRIP-LINE TREE PROTECTION DEVICE STANDARD 51.1.1**	**LF**			
		PROJECT WIDE				
		32+13L		25.00	0021	01
		32+45L		25.00	0021	01
		45+79R		25.00	0021	01
		46+24R		25.00	0021	01
		Item L11.0104 Total:		**100.00**		
059	**T04.5001**	**6 AWG SINGLE CONDUCTOR CABLE 600V INSULATION**	**LF**			
		PROJECT WIDE				
		PLAINFIELD PIKE & I-295 NB RAMPS		699.00	0021	01
		PLAINFIELD PIKE & I-295 SB RAMPS		213.00	0021	01
		PLAINFIELD PIKE & INDEPENDENCE WAY		540.00	0021	01
		PLAINFIELD PIKE & SIMMONSVILLE AVE		261.00	0021	01
		Item T04.5001 Total:		**1,713.00**		
060	**T04.5302**	**14 AWG 2 CONDUCTOR TWISTED SHIELDED CABLE**	**LF**			
		PROJECT WIDE				
		PLAINFIELD PIKE & I-295 NB RAMPS		441.00	0021	01
		PLAINFIELD PIKE & I-295 SB RAMPS		1,354.00	0021	01
		PLAINFIELD PIKE & INDEPENDENCE WAY		382.00	0021	01
		PLAINFIELD PIKE & SIMMONSVILLE AVE		914.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
060	T04.5302 Cont.	**Item T04.5302 Total:**		**3,091.00**		
061	T04.5303	**14 AWG 3 CONDUCTOR CABLE**	**LF**			
		PROJECT WIDE				
		PLAINFIELD PIKE & INDEPENDENCE WAY		173.00	0021	01
		PLAINFIELD PIKE & SIMMONSVILLE AVE		459.00	0021	01
		Item T04.5303 Total:		**632.00**		
062	T04.5305	**14 AWG 5 CONDUCTOR CABLE**	**LF**			
		PROJECT WIDE				
		PLAINFIELD PIKE & I-295 NB RAMPS		918.00	0021	01
		PLAINFIELD PIKE & I-295 SB RAMPS		2,012.00	0021	01
		PLAINFIELD PIKE & INDEPENDENCE WAY		839.00	0021	01
		PLAINFIELD PIKE & SIMMONSVILLE AVE		1,325.00	0021	01
		Item T04.5305 Total:		**5,094.00**		
063	T04.5307	**14 AWG 7 CONDUCTOR CABLE**	**LF**			
		PROJECT WIDE				
		PLAINFIELD PIKE & I-295 NB RAMPS		255.00	0021	01
		PLAINFIELD PIKE & INDEPENDENCE WAY		269.00	0021	01
		PLAINFIELD PIKE & SIMMONSVILLE AVE		118.00	0021	01
		Item T04.5307 Total:		**642.00**		
064	T04.9901	**12-STRAND SINGLE MODE FIBER OPTIC**	**LF**			

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
092	T12.9903 Cont.	**Item T12.9903 Total:**		**5.00**		
093	T12.9904	**FIBER OPTIC SPLICE ENCLOSURE - 72 STRAND**	**EACH**			
		ROADWAY				
		32+43 R		1.00	0021	01
		37+94 R		1.00	0021	01
		41+21 R		1.00	0021	01
		46+92 L		1.00	0021	01
		54+21 L		1.00	0021	01
		Item T12.9904 Total:		**5.00**		
094	T12.9905	**MODIFY EXISTING ACTRA SYSTEM AND CONFIGURE REMOTE MONITORING STATIONS**	**LS**			
		PROJECT WIDE				
		PROJECT WIDE		1.00	0021	01
		Item T12.9905 Total:		**1.00**		
095	T12.9906	**TRAFFIC CONTROL CABINET RISER BASE**	**EACH**			
		ROADWAY				
		36+32 R		1.00	0021	01
		41+28 R		1.00	0021	01
		47+42 R		1.00	0021	01
		54+19 R		1.00	0021	01
		Item T12.9906 Total:		**4.00**		
096	T13.1000	**TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0**	**LF**			
		ROADWAY				
		I-295 NB RAMPS		489.00	0021	01
		I-295 SB RAMPS		901.00	0021	01
		INDEPENDENCE WAY		580.00	0021	01

Distribution of Quantities

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(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
096	T13.1000 Cont.	SIMMONSVILLE AVE		672.00	0021	01
		Item T13.1000 Total:		**2,642.00**		
097	T13.1002	**TRAFFIC DETECTOR RELAY-LOOP 2 CHANNEL**	**EACH**			
		ROADWAY				
		47+42 R		1.00	0021	01
		54+20 R		1.00	0021	01
		Item T13.1002 Total:		**2.00**		
098	T13.1004	**TRAFFIC DETECTOR RELAY-LOOP 4 CHANNEL**	**EACH**			
		ROADWAY				
		32+36 R		3.00	0021	01
		41+28 R		2.00	0021	01
		47+42 R		1.00	0021	01
		54+20 R		1.00	0021	01
		Item T13.1004 Total:		**7.00**		
S099	T13.9901	**ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR WITH SIGN & ASSOCIATED EQUIPMENT**	**EACH**			
		ROADWAY				
		40+98 L		1.00	0021	01
		41+74 L		1.00	0021	01
		54+04 L		1.00	0021	01
		54+15 R		1.00	0021	01
		Item T13.9901 Total:		**4.00**		
100	T14.3513	**1 WAY 3 SECTION MAST ARM MOUNTED SIGNAL HEAD 12 INCH**	**EACH**			
		ROADWAY				
		40+98 L		2.00	0021	01

Distribution of Quantities

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(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S104	T15.9901 Cont.	45+47R (R4-7)		5.00	0021	01
		46+94R (R4-7)		5.00	0021	01
		47+01L (M1-5)		4.00	0021	01
		47+01L (M1-5)		4.00	0021	01
		47+01L (M3-2)		2.00	0021	01
		47+01L (M3-4)		2.00	0021	01
		47+01L (M6-1L) "BLACK AND WHITE"		3.00	0021	01
		47+01L (M6-1R) "BLACK AND WHITE"		3.00	0021	01
		47+01R (R5-1)		9.00	0021	01
		47+01R (R6-1L)		7.00	0021	01
		47+01R (R6-1R)		7.00	0021	01
		47+22R (R3-7)		9.00	0021	01
		47+22R (R4-7)		5.00	0021	01
		47+28R (R5-1)		9.00	0021	01
		47+28R (R6-1L)		7.00	0021	01
		47+28R (R6-1R)		7.00	0021	01
		47+70L (M1-1)		5.00	0021	01
		47+70L (M1-1)		5.00	0021	01
		47+70L (M3-1)		2.00	0021	01
		47+70L (M3-3)		2.00	0021	01
		47+70L (M6-1L)		3.00	0021	01
		47+70L (M6-3)		3.00	0021	01
		47+93R (R1-2)		4.00	0021	01
		47+93R (R5-1)		9.00	0021	01
		48+10R (R1-2)		4.00	0021	01
		48+10R (R5-1)		9.00	0021	01
		49+07R (SP-5)		5.00	0021	01
		50+00R (R2-1)		8.00	0021	01
		50+15L (M1-1)		5.00	0021	01
		50+15L (M1-1)		5.00	0021	01
		50+15L (M3-1)		2.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S108	**T20.2012 Cont.**	48+09R - 48+65R		113.00	0021	01
		54+05R - 54+15R		220.00	0021	01
		Item T20.2012 Total:		**1,875.00**		
S109	**T20.2014**	**4 INCH EPOXY RESIN PAVEMENT MARKINGS YELLOW**	**LF**			
		ROADWAY				
		27+99R - 31+25L		325.00	0021	01
		28+00L - 31+25L		325.00	0021	01
		32+20R - 40+88L		872.00	0021	01
		32+21R - 40+89L		871.00	0021	01
		41+29L - 41+38L		105.00	0021	01
		41+76L - 46+54R		479.00	0021	01
		41+77L - 46+52R		473.00	0021	01
		45+42L - 46+56R		115.00	0021	01
		45+42R - 46+56R		114.00	0021	01
		47+20R - 50+00L		280.00	0021	01
		47+22R - 50+00R		280.00	0021	01
		Item T20.2014 Total:		**4,239.00**		
S110	**T20.2020**	**EPOXY RESIN PAVEMENT ARROW - STRAIGHT, LEFT, RIGHT, OR COMBINED STANDARD 20.1.0**	**EACH**			
		ROADWAY				
		29+50R		1.00	0021	01
		30+28R		1.00	0021	01
		31+06R		1.00	0021	01
		32+29L		1.00	0021	01
		33+18L		1.00	0021	01
		34+51L		1.00	0021	01
		35+67L		1.00	0021	01
		36+82L		1.00	0021	01
		39+41R		1.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S110	**T20.2020 Cont.**	40+09R		1.00	0021	01
		40+77R		1.00	0021	01

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S110	T20.2020 Cont.	41+80R		1.00	0021	01
		42+86R		1.00	0021	01
		43+92R		1.00	0021	01
		47+30L		1.00	0021	01
		48+18L		1.00	0021	01
		Item T20.2020 Total:		**16.00**		
S111	T20.2022	**EPOXY RESIN PAVEMENT MARKING WORD "ONLY" STANDARD 20.1.0**	**EACH**			
		ROADWAY				
		35+09L		1.00	0021	01
		36+25L		1.00	0021	01
		37+41L		1.00	0021	01
		42+33R		1.00	0021	01
		43+39R		1.00	0021	01
		Item T20.2022 Total:		**5.00**		
S112	T20.9901	**REMOVE PAVEMENT MARKINGS ARROWS AND ONLY**	**EACH**			
		ROADWAY				
		29+61R (ONLY)		1.00	0021	01
		30+10R (ARROW)		1.00	0021	01
		30+59R (ONLY)		1.00	0021	01
		31+01R (ARROW)		1.00	0021	01
		32+48L (ARROW)		1.00	0021	01
		39+97R (ARROW)		1.00	0021	01
		40+59R (ARROW)		1.00	0021	01
		47+30L (ARROW)		1.00	0021	01
		47+68L (ARROW)		1.00	0021	01
		Item T20.9901 Total:		**9.00**		
S113	201.0310	**REMOVE AND DISPOSE SHRUBS**	**EACH**			
		PROJECT WIDE				

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S113	201.0310 Cont.	51+75 L		3.00	0021	01
		52+70 L		2.00	0021	01
		53+30 L		3.00	0021	01
		53+42 L		2.00	0021	01
		Item 201.0310 Total:		**10.00**		
S114	201.0408	**REMOVE AND DISPOSE RIGID PAVEMENT**	**SY**			
		MEDIAN				
		45+42 C - 46+56 C		150.00	0021	01
		Item 201.0408 Total:		**150.00**		
S115	401.9902	**HMA CLASS 12.5**	**TON**			
		ROADWAY				
		45+50 C - 46+55 R		20.00	0021	01
		Item 401.9902 Total:		**20.00**		
S116	401.9903	**HMA CLASS 19**	**TON**			
		ROADWAY				
		45+50 C - 46+55 R		50.00	0021	01
		Item 401.9903 Total:		**50.00**		
S117	906.0230	**CEMENT CONCRETE SLOPE FACE CURB**	**LF**			
		PRECAST STRAIGHT STANDARD 7.2.0				
		ROADWAY				
		MISC.		12.00	0021	01
		Item 906.0230 Total:		**12.00**		
S118	906.0231	**CEMENT CONCRETE SLOPE FACE CURB**	**LF**			
		PRECAST CIRCULAR STANDARD 7.2.0				
		ROADWAY				
		45+42 L - 45+50 C		12.00	0021	01
		45+42 R - 45+50 C		12.00	0021	01
		Item 906.0231 Total:		**24.00**		

Distribution of Quantities

Project Name - Traffic Safety Improvements to Plainfield Pike at Interstate I-295
(HSIP Funds)
Estimate Name - Addendum No. 1
R.I. Contract No. - 2013-CT-105
FAP Nos: STP-HSIP(011)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S119	**T15.0200**	**REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN**	**EACH**			
		PROJECT WIDE				
		51+33 L		1.00	0021	01
		Item T15.0200 Total:		**1.00**		
S120	**T20.9902**	**12 INCH EPOXY RESIN PAVEMENT MARKINGS YELLOW**	**LF**			
		MEDIAN GORE				
		45+50 C - 46+44 C		220.00	0021	01
		Item T20.9902 Total:		**220.00**		

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	STP-HSIP(011)	2013	5	35

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JOB SPECIFIC PLAN SYMBOLS

EXISTING		NEW
	BORING LOCATION	B13-#
	TRAFFIC SIGNAL HEAD	
	PEDESTRIAN SIGNAL HEAD	
	ACCESSIBLE PEDESTRIAN SIGNAL	
	FIBER OPTIC DUCT	FO FO
	FIBER OPTIC HANDHOLE	
	FIBER OPTIC SPLICE MANHOLE	FMH
	INDUCTIVE LOOP	
	MAST ARM AND FOUNDATION	
	CONTROLLER CABINET	
	DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES	

JOB SPECIFIC GENERAL NOTES:

1. TOPOGRAPHIC INFORMATION WAS OBTAINED FROM THE TOPOGRAPHIC SURVEY PLAN COMPLETED BY NATIONAL SURVEYORS - DEVELOPERS, INC. IN JANUARY 2012.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE THE AMOUNT OF TIME THAT EXISTING TRAFFIC SIGNALS UNDER CONSTRUCTION ARE NOT OPERATIONAL, AND THE CONTRACTOR SHALL PLAN AND SCHEDULE WORK ACCORDINGLY. POLICE DETAILS ARE REQUIRED TO CONTROL TRAFFIC AT ALL INTERSECTIONS WHEN TRAFFIC SIGNALS ARE NOT OPERATIONAL, AND ALL INTERSECTIONS SHALL REMAIN OPEN TO TRAFFIC FOR THE DURATION OF CONSTRUCTION.
3. ALL SALVAGED TRAFFIC SIGNAL MAST ARMS AND MAST ARM POLES SHALL BE DELIVERED TO THE RIDOT ANTHONY MAINTENANCE FACILITY, 16 MAPLEDALE STREET, COVENTRY, RI 02816. ALL OTHER SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE RIDOT MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RI 02888.
4. ALL SURVEY FIELD BOOKS AND ELECTRONIC DATA SHALL BE SUBMITTED TO THE RIDOT SURVEY SECTION UPON COMPLETION OF THE PROJECT. THIS INFORMATION SHALL INCLUDE A LISTING OF ALL RHODE ISLAND HIGHWAY BOUND DATA WITH STATIONS, OFFSETS, AND COORDINATES.
5. MAST ARM FOUNDATION DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL NOT BE USED FOR DESIGN. FULL DESIGN OF THE MAST ARM FOUNDATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL PROPOSED TRAFFIC SIGNAL CONTROLLERS SHALL BE COMPATIBLE WITH RIDOT'S EXISTING ACTRA SYSTEM.

VERIZON UTILITY NOTES:

1. 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). THE CONTRACTOR SHALL CONTACT JOE PATERSON (CWI) @ (401) 486-0337, 48 HOURS IN ADVANCE BEFORE COMMENCING WORK.
2. IF VERIZON'S UNDERGROUND (UG) STRUCTURES (CONDUITS, CABLES, MANHOLES, ETC.) ARE EXPOSED DURING CONSTRUCTION, THE CONTRACTOR (GC) MUST PROVIDE PROTECTION FOR THE EXPOSED PLANT 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.
3. THE UNDERMINING OF VERIZON DUCTS (INCLUDING THOSE CONCRETE ENCASED) IS NOT PERMITTED WITHOUT INSPECTION/PERMISSION OF VERIZON'S CWI.
4. A RADIAL CLEARANCE OF THREE FEET (3') MUST BE MAINTAINED BETWEEN VERIZON'S AERIAL EQUIPMENT (CABLES, TERMINALS, POLES, ETC.) IM 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. REFER TO RIDOT DOCUMENT TAC-0049 FOR ADDITIONAL INFORMATION.

NATIONAL GRID GAS NOTES:

1. THE CONTRACTOR SHALL CONTACT NATIONAL GRID WHEN WORKING WITHIN 200 FEET OF GAS REGULATOR STATION. A NATIONAL GRID INSPECTOR IS REQUIRED TO BE ONSITE FOR WORK IN THAT AREA.
2. THE CONTRACTOR IS NOT PERMITTED TO MAKE ANY ADJUSTMENT TO GAS REGULATOR STATION VAULT DOORS. THE CONTRACTOR SHALL CONTACT MARK ALBERT OF AGI CONSTRUCTION, INC. AT 401-233-0021 TO COORDINATE AND PERFORM THE ADJUSTMENT WORK FOR NATIONAL GRID.
3. THE CONTRACTOR SHALL REFER TO APPENDIX E OF THE CS PAGES FOR THIS CONTRACT FOR ADDITIONAL RESTRICTIONS FOR WORKING IN THE VICINITY OF A GAS MAIN.

JOB SPECIFIC LEGEND:

ABBREVIATIONS:

	DEC	REMOVE AND DISPOSE EXISTING CONDUIT
	DHH	REMOVE AND DISPOSE HAND HOLE
	DMF	REMOVE AND DISPOSE MAST ARM FOUNDATION
1	DRP	REMOVE AND DISPOSE RIGID PAVEMENT
	ISCD	INLET SEDIMENTATION CONTROL DEVICE
	MCB	RECONSTRUCT CATCH BASIN/CORBEL CONES
1	P	2" CLASS 12.5 OVER 5" CLASS 19.0 (PLACE IN (2) 2.5" LIFTS) 12" GRAVEL BORROW SUBBASE TACK COAT BETWEEN HMA LAYERS
	RRF	REMOVE AND RESET FENCE
	RS	REMOVE AND SALVAGE
	19.6.0	INDUCTION LOOP VEHICLE DETECTOR INSTALLATION DETAIL - R.I. STD. 19.6.0
	20.1.0	PAVEMENT MARKINGS ARROWS AND ONLY - R.I. STD. 20.1.0
1	12Y	12" EPOXY RESIN PAVEMENT MARKING - YELLOW

ADDENDUM NO. 1

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

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

TRAFFIC SAFETY IMPROVEMENTS TO
PLAINFIELD PIKE AT INTERSTATE I-295 (HSIP FUNDS)

JOHNSTON / CRANSTON RHODE ISLAND

JOB SPECIFIC
PLAN SYMBOLS, LEGEND
AND NOTES

CHECKED BY _____ DATE _____ SCALE N/A

0071K_V1_005_JSNOTSYM_REV01

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	STP-HSIP(011)	2013	6	35

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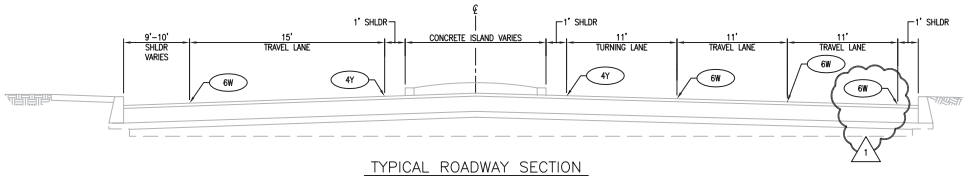
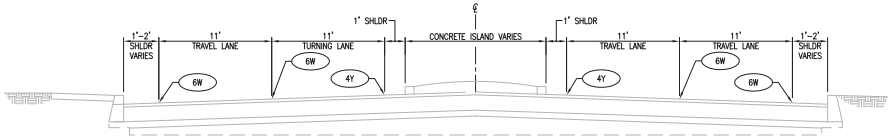


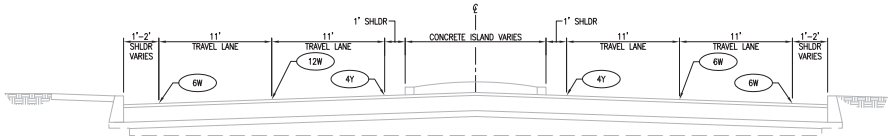
TYPICAL ROADWAY SECTION

STA. 28+50 TO STA. 31+25



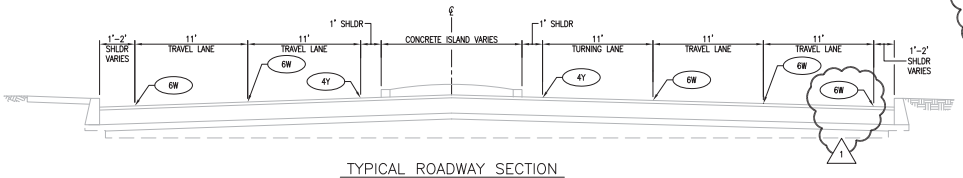
TYPICAL ROADWAY SECTION

STA. 32+20 TO STA. 34+50



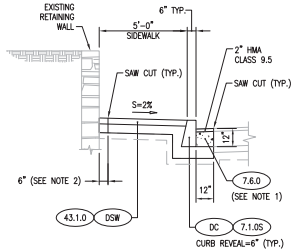
TYPICAL ROADWAY SECTION

STA. 34+50 TO STA. 38+85



TYPICAL ROADWAY SECTION

STA. 38+85 TO STA. 41+00

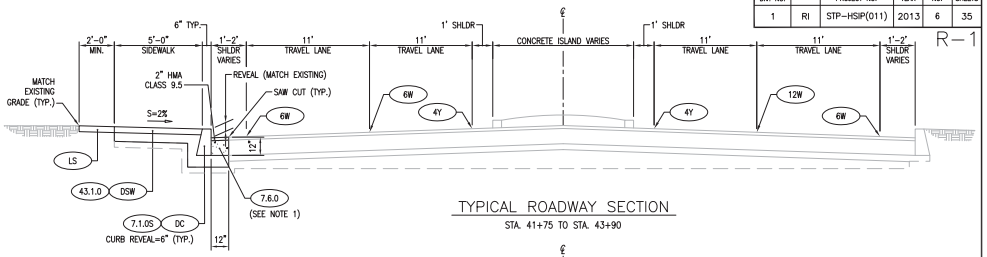


TYPICAL SIDEWALK SECTION AT WALL

NOTES:

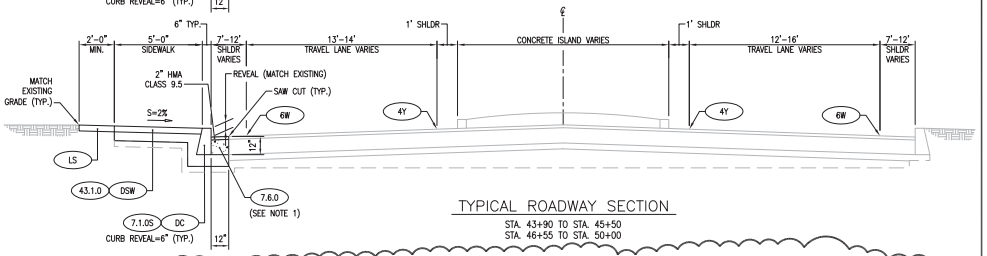
1. REMOVAL AND DISPOSAL OF EXISTING CURBLOCK, IF PRESENT, SHALL BE CONSIDERED INCIDENTAL TO THE ITEM FOR REMOVE AND DISPOSE CONCRETE CURB AND WILL NOT BE PAID FOR SEPARATELY. REFER TO ITEM 201.9905 FOR ADDITIONAL INFORMATION.

2. WHERE SIDEWALK IS ADJACENT TO ANY WALL, PRIOR TO SIDEWALK REMOVAL, A FULL-DEPTH SAW CUT SHALL BE PROVIDED IN ALL SIDEWALK TO BE REMOVED AT A DISTANCE TO BE DETERMINED BY THE ENGINEER (6 INCH MINIMUM) FROM THE FACE OF THE WALL. IF A DETERMINATION IS MADE BY THE ENGINEER THAT THE FINAL 6 INCHES (MINIMUM) OF SIDEWALK MUST BE REMOVED, IT WILL BE REMOVED BY HAND SUCH THAT THE ADJACENT STRUCTURE IS NOT DAMAGED. THERE WILL BE NO SEPARATE PAYMENT FOR THIS HANDWORK OR SAWCUTTING, AS PAYMENT WILL BE INCLUDED IN THE BID PRICE OF ITEM 201.0403, REMOVE AND DISPOSE SIDEWALKS.



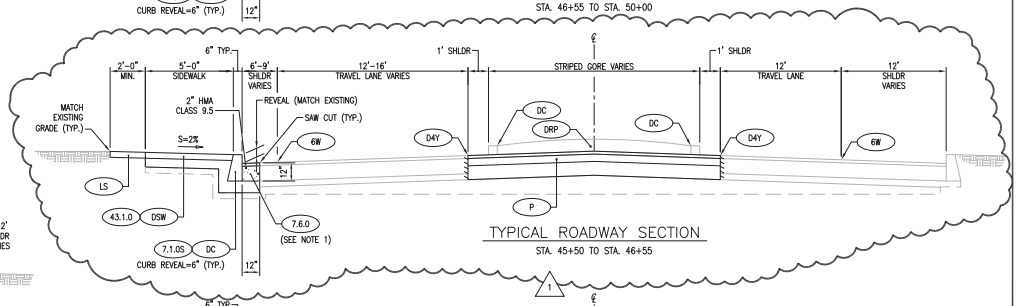
TYPICAL ROADWAY SECTION

STA. 41+75 TO STA. 43+90



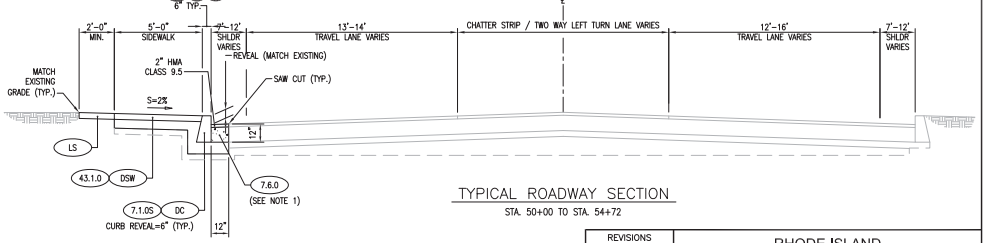
TYPICAL ROADWAY SECTION

STA. 43+90 TO STA. 45+50
STA. 46+55 TO STA. 50+00



TYPICAL ROADWAY SECTION

STA. 45+50 TO STA. 46+55



TYPICAL ROADWAY SECTION

STA. 50+00 TO STA. 54+72

1 P 2" CLASS 12.5 OVER
5" CLASS 19.0 (PLACE IN (2) 2.5" LIFTS)
12" GRAVEL BORROW SUBBASE
TACK COAT BETWEEN HMA LAYERS

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NO.	DATE	BY

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8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

TRAFFIC SAFETY IMPROVEMENTS TO
PLAINFIELD PIKE AT INTERSTATE I-295 (HSIP FUNDS)

JOHNSTON / CRANSTON RHODE ISLAND

TYPICAL SECTIONS

1

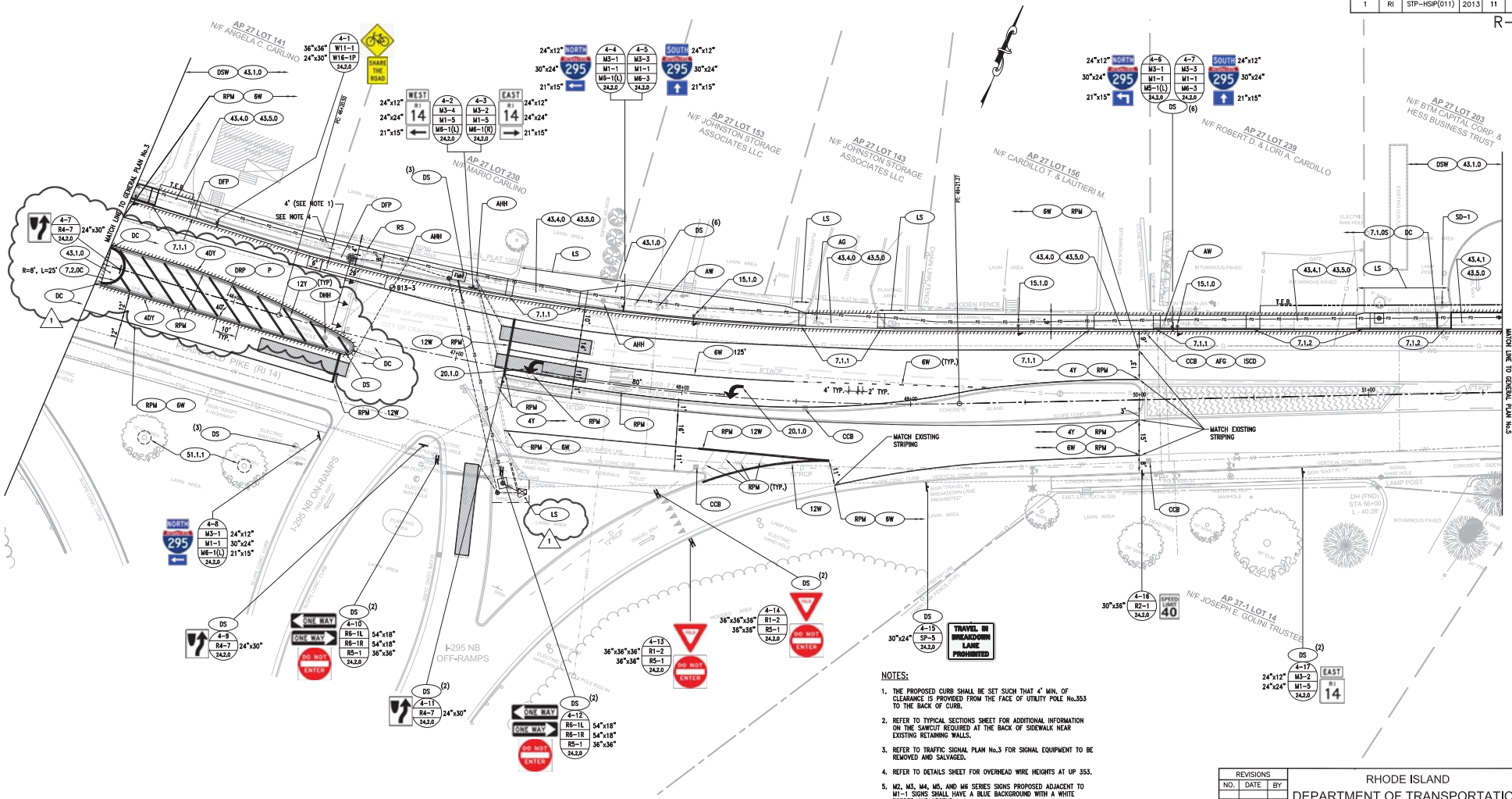
CHECKED BY _____ DATE _____ SCALE N.T.S.

ADDENDUM NO. 1

0071K_V1_006_TYPSECT_REV01

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	STP-HSIP(011)	2013	11	35

R-1



NOTES:

1. THE PROPOSED CURB SHALL BE SET SUCH THAT 4' MIN. OF CLEARANCE IS PROVIDED FROM THE FACE OF UTILITY POLE No.353 TO THE BACK OF CURB.
2. REFER TO TYPICAL SECTIONS SHEET FOR ADDITIONAL INFORMATION ON THE SAWCUT REQUIRED AT THE BACK OF SIDEWALK NEAR EXISTING RETAINING WALLS.
3. REFER TO TRAFFIC SIGNAL PLAN No.3 FOR SIGNAL EQUIPMENT TO BE REMOVED AND SALVAGED.
4. REFER TO DETAILS SHEET FOR OVERHEAD WIRE HEIGHTS AT UP 353.
5. M2, M3, M4, M5, AND M6 SERIES SIGNS PROPOSED ADJACENT TO M1-1 SIGNS SHALL HAVE A BLUE BACKGROUND WITH A WHITE BORDER AND LEGEND.

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

TRAFFIC SAFETY IMPROVEMENTS TO
PLAINFIELD PIKE AT INTERSTATE I-295 (HSIP FUNDS)

JOHNSTON / CRANSTON — RHODE ISLAND

GENERAL PLAN No. 4

STA. 45+42 TO STA. 51+58

CHECKED BY _____ DATE _____ SCALE 1"=20'

PARE CORPORATION
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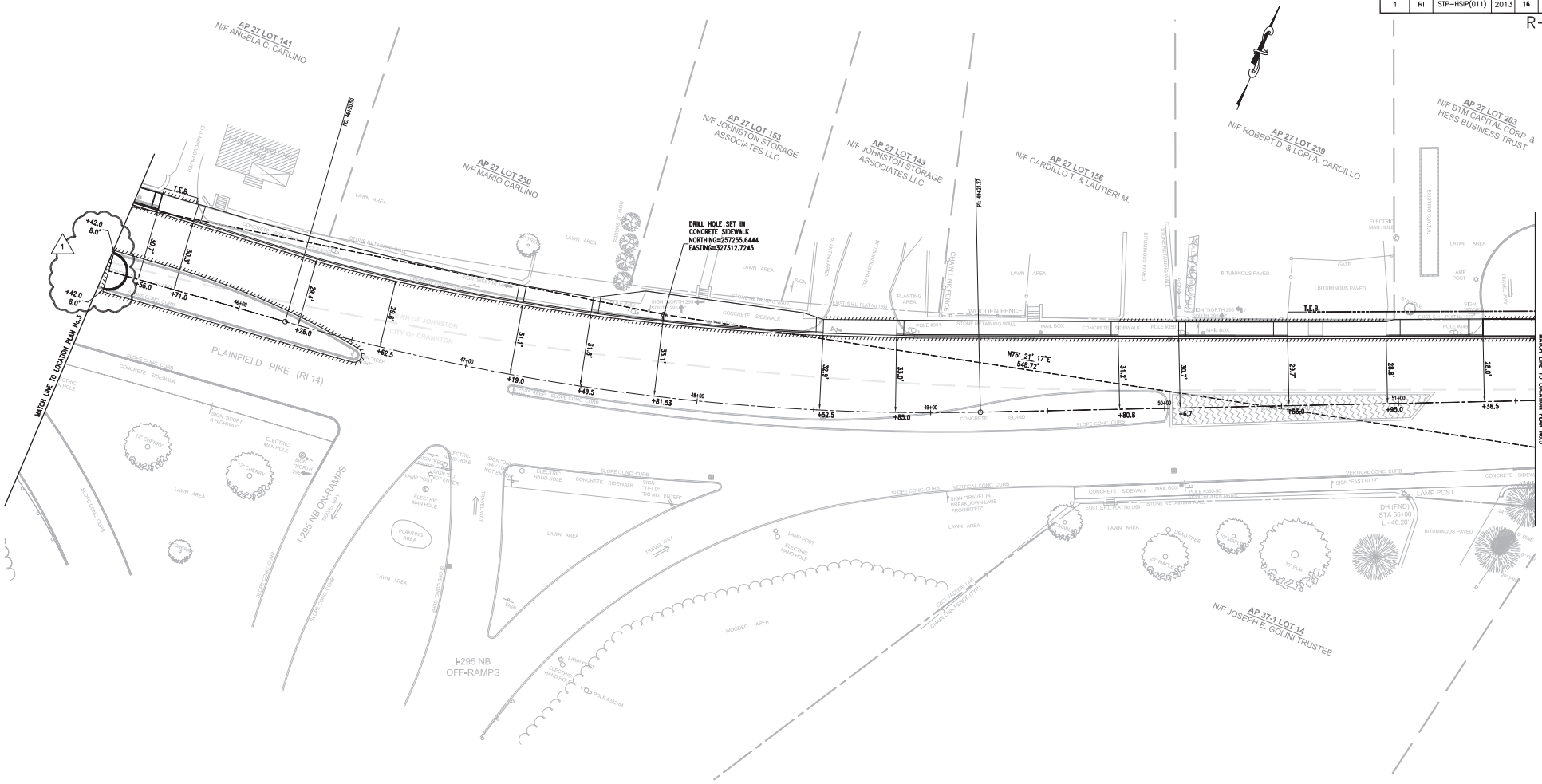
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

ADDENDUM NO. 1

0071K_V1_011_GENERAL004_REV01

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	STP-HSIP(011)	2013	16	35

R-1



ADDENDUM NO. 1

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

TRAFFIC SAFETY IMPROVEMENTS TO
PLAINFIELD PIKE AT INTERSTATE I-295 (HSIP FUNDS)

JOHNSTON / CRANSTON — RHODE ISLAND

LOCATION PLAN No. 4
STA. 45+42 TO STA. 51+58

CHECKED BY _____ DATE _____ SCALE 1"=20'

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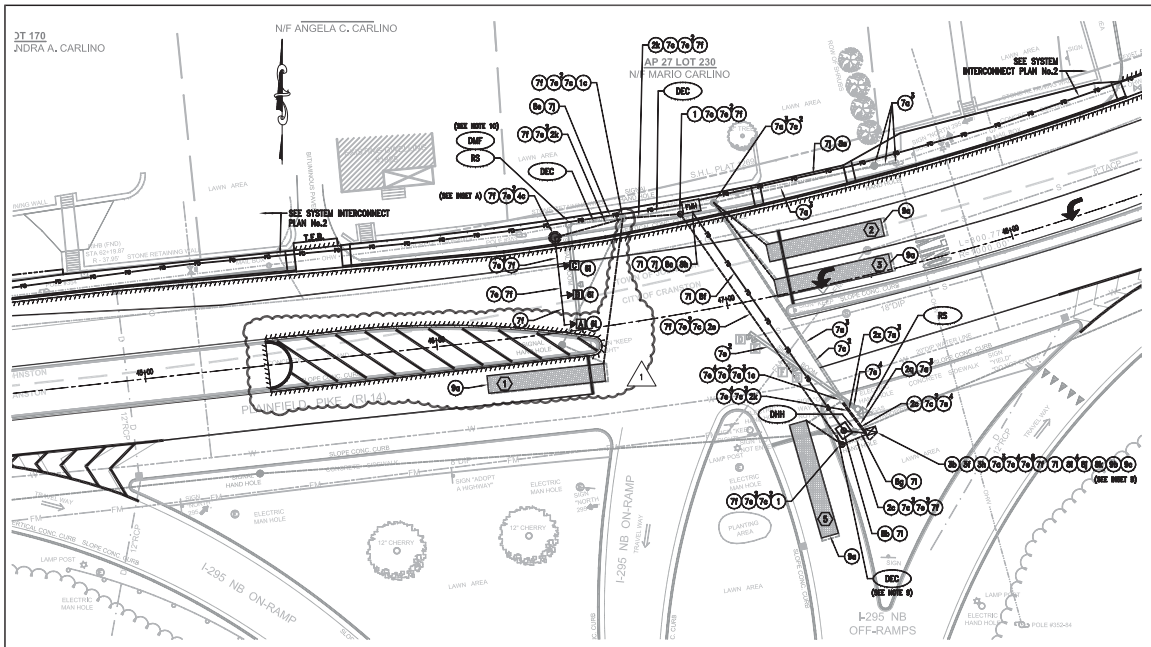
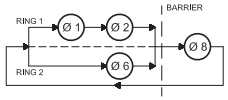
LINCOLN, RI 02865
401-334-4100

0071K_V1_016_LOCATION004_REV01

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	STP-HSIP(011)	2013	20	35

R-1





PHASE SEQUENCE DIAGRAM

DETECTOR DATA

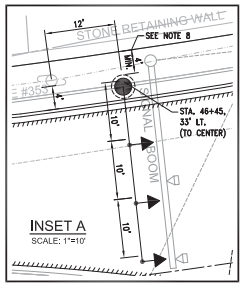
DETECTOR No.	No. SECTION / SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1 - 6' x 40'	1	2	3	Ø 2	PROPOSED
2	1 - 6' x 40'	1	2	3	Ø 6	PROPOSED
3	1 - 6' x 40'	1	2	3	Ø 1	PROPOSED
6	1 - 6' x 40'	2	4	3	Ø 8	PROPOSED

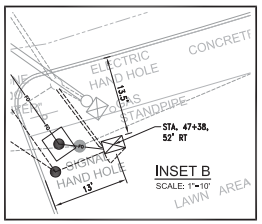
REMOVE & SALVAGE TRAFFIC SIGNAL EQUIPMENT (SEE NOTE)

APPROX. QUANTITY	ITEM
1 EA.	POLE MOUNTED CABINET, INCLUDING CONTROLLER AND ALL OTHER EQUIPMENT AND WIRING
1 EA.	METER SOCKET
1 EA.	SIGNAL HEAD, 1 WAY, 3 SECTION, 12 INCH, MAST ARM MOUNTED
1 EA.	SIGNAL HEAD, 1 WAY, 4 SECTION, (W/DUAL IND. FIBER OPTIC ARROW) 12 INCH, MAST ARM MOUNTED
800 LF	14 AWG 5 CONDUCTOR CABLE
300 LF	14 AWG 7 CONDUCTOR CABLE
1 EA.	MAST ARM AND POLE

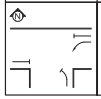
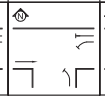
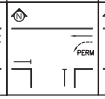
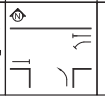
NOTE:

TRAFFIC SIGNAL EQUIPMENT AT THIS INTERSECTION SHALL BE REMOVED AND SALVAGED IN ACCORDANCE WITH ITEM NO. 201.9902.





PHASING AND TIMING DIAGRAM

APPROACH	DIRECTION	HOUSING	Ø 1			Ø 2			Ø 6			Ø 8						FLASHING OPERATION
MINIMUM INTERVAL			6			8			8			6						
VEHICLE EXTENSION			2.1			2.8			2.8			3.5						
MAXIMUM 1 (FREE OPERATION)			10			40			55			25						
MAXIMUM 2 (NOT USED)																		
YELLOW CHANGE				3			4.0			4			3					
RED CLEARANCE					2			1			1			2				
I-295 NORTHBOUND RAMPS	NB	E, G	R	R	R	R	R	R	R	R	R	G	Y	R				FR
PLAINFIELD PIKE	EB	D, F	R	R	R	G	Y	R	R	R	R	R	R	R				FY
PLAINFIELD PIKE	WB - LT	A	~~G~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~	~~FY~~	~~Y~~	~~R~~	~~R~~	~~R~~	~~R~~				~~FR~~
PLAINFIELD PIKE	WB	B, C	R	R	R	R	R	R	G	Y	R	R	R	R				FY
DETECTOR			NON - LOCK			NON - LOCK			NON - LOCK			NON - LOCK						
RECALL			OFF			MIN.			MIN.			OFF						
			Ø 1			Ø 2			Ø 6			Ø 8						Ø 3, Ø 4, Ø 5, & Ø 7
																		NOT USED

PHASING AND TIMING NOTES:

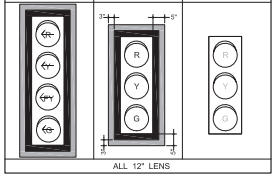
1. FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.26 - 4D.31.
2. PERM = PERMISSIVE

ADDENDUM NO. 1

TRAFFIC SIGNAL LEGEND

No.	SYMBOL	ITEM CODE	DESCRIPTION
1	●	T05.0100	HANDHOLE TYPE A - PRECAST STD. 18.2.0
1c		T05.0400	BREAK INTO EXISTING HANDHOLE
2c		T06.5130	3 INCH POLYVINYL CHLORIDE PLASTIC CONDUIT (SCHEDULE 40) - UNDERGROUND
2k		T06.5330	3 INCH POLYVINYL CHLORIDE PLASTIC CONDUIT (SCHEDULE 40) - UNDER EXISTING PAVEMENT
2o		T06.5430	3 INCH POLYVINYL CHLORIDE PLASTIC CONDUIT (SCHEDULE 80) - UNDER EXISTING PAVEMENT
2q		T06.1020	2 INCH RIGID STEEL CONDUIT - UNDERGROUND
2z		T06.3020	2 INCH RIGID STEEL CONDUIT - UNDER EXISTING PAVEMENT
3b	⊠	T12.0018	ACTUATED CONTROLLER TS-2 TYPE 1 W/8 PHASE ASSEMBLY GROUND MOUNTED INCLUDING FOUNDATION AND CABINET STD 19.1.0
3f		T12.9150	METER SOCKET WITH MANUAL BYPASS
3h		T12.9906	TRAFFIC CONTROL CABINET RISER BASE
4c		T11.9901	30 FOOT GAL. STEEL MAST ARM TRAFFIC SIGNAL POST AND FOUNDATION AT I-295 NORTHBOUND
6l	→X	T14.3513	1 WAY 3 SECTION MAST ARM MOUNTED SIGNAL HEAD 12 INCH
6l	→X	T14.9903	1 WAY 4 SECTION MAST ARM MOUNTED SIGNAL HEAD 12 INCH W/ FLASHING YELLOW ARROW
7a		T04.5001	6 AWG SINGLE CONDUCTOR CABLE 600V INSULATION
7c		T04.5302	14 AWG 2 CONDUCTOR TWISTED SHIELDED CABLE
7e		T04.5305	14 AWG 5 CONDUCTOR CABLE
7f		T04.5307	14 AWG 7 CONDUCTOR CABLE
7l		T04.9901	12 STRAND SINGLE MODE FIBER OPTIC CABLE
7j		T04.9902	36 STRAND SINGLE MODE FIBER OPTIC CABLE
8b	▭	T05.9901	FIBER OPTIC HANDHOLE
8c	FMH	T05.9902	FIBER OPTIC SPLICE MANHOLE
8e		T06.9902	DUAL 1 1/4 INCH HDPE DUCT (UNDERGROUND)
8f		T06.9903	SINGLE 1 1/4 INCH HIGH DENSITY POLYETHYLENE DUCT (UNDER EXISTING PAVEMENT)
8g		T06.9904	SINGLE 1 1/4 INCH HIGH DENSITY POLYETHYLENE DUCT (UNDERGROUND)
8h		T12.9904	FIBER OPTIC SPLICE ENCLOSURE - 72 STRAND
8i		T12.9902	FIBER OPTIC PATCH CORD
8j		T12.9903	FIBER OPTIC PATCH PANEL - 12 POSITION
8k		T12.9901	FIBER ETHERNET SWITCH
9a		T13.1000	TRAFFIC DETECTOR - LOOP STANDARD 19.6.0
9b		T13.1002	TRAFFIC DETECTOR RELAY - LOOP 2 CHANNEL
9c		T13.1004	TRAFFIC DETECTOR RELAY - LOOP 4 CHANNEL

SIGNAL HEAD DATA



NOTES:

1. TRAFFIC SIGNAL HEADS A, B, AND C ARE PROPOSED, AND SHALL BE FURNISHED WITH BACK PLATES AS SHOWN. TRAFFIC SIGNAL HEADS D, E, F, AND G ARE EXISTING AND SHALL REMAIN. BACKPLATES SHALL BE EQUIPPED WITH A 3" YELLOW RETROREFLECTIVE STRIP IN ACCORDANCE WITH SECTION 4D.12 MUTCD, 2009 EDITION.
2. ALL PROPOSED SIGNAL DISPLAYS SHALL BE EQUIPPED WITH LED MODULES.

DAILY AND WEEKLY PROGRAM INFORMATION

	PLAN No.	TIME OF DAY
AM PEAK	1	MON-FRI 7:00 - 9:00
MIDDAY PEAK	2	MON-FRI 9:00 - 15:00
PM PEAK	3	MON-FRI 15:00 - 18:00
WEEKEND MIDDAY	4	SAT-SUN 10:00 - 15:00
WEEKEND PM	5	SAT-SUN 15:00 - 19:00

NOTE:

SIGNAL SHALL RUN FREE DURING ALL OTHER TIMES.

COORDINATION DATA (ALL ENTRIES IN SECONDS)

CYCLE LENGTH	PLAN 1	PLAN 2	PLAN 3	PLAN 4	PLAN 5
	60	75	90	75	75
OFFSET	11	39	44	69	42
SPLIT 1	15	15	15	15	15
SPLIT 2	31	37	45	39	37
SPLIT 6	46	52	60	54	52
SPLIT 8	34	23	30	21	23
COORDINATED PHASE	Ø2 & Ø6	Ø2 & Ø6	Ø2 & Ø6	Ø2 & Ø6	Ø2 & Ø6

NOTES:

1. THIS TRAFFIC SIGNAL IS TO BE PART OF AN INTERCONNECTED TRAFFIC SIGNAL SYSTEM ALONG PLAINFIELD PIKE (RT 14) AND SHALL BE COORDINATED WITH TRAFFIC SIGNAL NOS. 597, 787, AND 611 AS SHOWN ON TRAFFIC SIGNAL PLAN NOS. 1, 2, AND 4 RESPECTIVELY.
2. THE TRAFFIC SIGNAL SHALL BE REWIRED AND THE PROPOSED CONTROLLER SHALL BE PROGRAMMED WITH THE OPERATION SCHEDULE AND COORDINATION DATA AS SHOWN ON THIS PLAN. POWER FOR THE PROPOSED TRAFFIC SIGNAL CABINET SHALL BE OBTAINED FROM THE EXISTING SOURCE AS SHOWN.
3. REFER TO SYSTEM INTERCONNECT PLAN 2 FOR DETAILS ON THE PROPOSED FIBER OPTIC INTERCONNECTION.
4. THE PROPOSED TRAFFIC SIGNAL CONTROLLER SHALL BE COMPATIBLE WITH RIDOT'S EXISTING ACTRA SYSTEM.
5. THE PROPOSED TRAFFIC SIGNAL CABINET SHALL BE FURNISHED WITH A FULL COMPLIMENT OF LOAD SWITCHES AND FLASH TRANSFER RELAYS, EVEN FOR UNUSED BACKPANEL POSITIONS.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE THE AMOUNT OF TIME THAT THE EXISTING TRAFFIC SIGNALS UNDER CONSTRUCTION ARE NOT OPERATIONAL, AND THE CONTRACTOR SHALL PLAN AND SCHEDULE THE WORK ACCORDINGLY. POLICE DETAILS ARE REQUIRED TO CONTROL TRAFFIC AT INTERSECTIONS WHEN TRAFFIC SIGNALS ARE NOT OPERATIONAL, AND ALL INTERSECTIONS SHALL REMAIN OPEN TO TRAFFIC FOR THE DURATION OF CONSTRUCTION.
7. REFER TO VERIZON UTILITY NOTES ON THE JOB SPECIFIC PLAN SYMBOLS, NOTES AND LEGEND SHEET FOR ADDITIONAL INFORMATION REGARDING VERIZON UNDERGROUND AND OVERHEAD UTILITIES.
8. THE 4' MINIMUM CLEARANCE REQUIRED SHALL BE PROVIDED FROM THE FACE OF THE RETAINING WALL TO THE EDGE OF THE MAST ARM FOUNDATION.
9. CONDUIT SHALL BE REMOVED BETWEEN THE HANDHOLE AND THE CURB. CONDUIT TO REMAIN SHALL BE CAPPED IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, INCLUDING ALL SUPPLEMENTS AND ADDENDA.
10. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION ON FOUNDATION REMOVAL.

TRAFFIC SIGNAL NO. 596

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

TRAFFIC SAFETY IMPROVEMENTS TO PLAINFIELD PIKE AT INTERSTATE I-295 (HSIP FUNDS)

JOHNSTON / CRANSTON — RHODE ISLAND

TRAFFIC SIGNAL PLAN No. 3

CHECKED BY _____ DATE _____ SCALE 1"=20'

PARE CORPORATION
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8 BLACKSTONE VALLEY PLACE
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401-334-4100

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