June 14, 2017

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7553508

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2017-CH-039

FEDERAL-AID PROJECT NO. FAP Nos: 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

Blackstone River Bikeway (Segment 8C)

The project limits are from Cold Spring Park, Woonsocket to The Meadows Park, North Smithfield, a distance of 0.62± miles.

CITY/TOWN OF North Smithfield, Woonsocket

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. Clarification

1. The project will not have a pre-bid conference.
2. The project substantial completion date is July 19, 2019.
3. Advertising Pages
   a. Page A-3

      Delete page A-3 in its entirety and replace it with page A-3(R-1) attached to this Addendum No. 1. The project will not have a pre-bid conference.

B. Contract Documents

1. Proposal Pages
   a. Page P-2

      Delete page P-2 in its entirety and replace it with page P-2(R-1) attached to this Addendum No. 1. The minimum acceptable bid prices have been updated.

   b. Pages P-18 through P-20

      Delete pages P-18 through P-20 in their entirety and replace them with pages P-18(R-1) through P-20(R-1) attached to this Addendum No. 1. The Completion Dates and Addendum No. 1 Posting Date have been added.

2. Specifications - Job Specific

   a. Page JS-6

      Delete page JS-6 in its entirety and replace it with page JS-6(R-1) attached to this Addendum No. 1. The Substantial Completion Date has been added.

   b. Pages JS-27 and JS-28

      Delete pages JS-27 and JS-28 in their entirety and replace them with pages JS-27(R-1) and JS-28(R-1) attached to this Addendum No. 1. The specification has been revised.

   c. Page JS-66

      Delete page JS-66 in its entirety and replace it with page JS-66(R-1) attached to this Addendum No. 1. Item Code 906.9902 has been revised.

C. Distribution of Quantities

1. Index Pages 1 and 2

   Delete Index Pages 1 and 2 in their entirety and replace them with Index Pages 1(R-1) and 2(R-1) attached to this Addendum No. 1. Item Code 808.0800 has been removed. Item Code 804.9901 has been added.

2. Pages 10 and 11

   Delete Pages 10 and 11 in their entirety and replace them with Pages 10(R-1) and 11(R-1) attached to this Addendum No. 1. Item Code 808.0800 has been removed.

3. Pages 17 and 18

   Delete Pages 17 and 18 in their entirety and replace them with Pages 17(R-1) and 18(R-1) attached to this Addendum No. 1. Item Codes 915.0100 and 915.0200 have been revised.

4. Pages 23 and 24

   Delete pages 23 and 24 in their entirety and replace them with pages 23(R-1) and 24(R-1) attached to this Addendum No. 1. Item Code T15.0100 has been revised.

5. Page 27

   Delete page 27 in its entirety and replace it with page 27(R-1) attached to this Addendum No. 1. Item Code 804.9901 has been added.

D. Drawings/Plans - Change/Addition

1. Volume 1 - Bikeway

   a. Sheet 7 - General Plan & Profile No. 1

      Delete Plan Sheet 7 in its entirety and replace it with Plan Sheet 7(R-1) attached to this Addendum No. 1. A location for the relocated utility pole has been added.

   b. Sheet 10 - Location Plan No. 1

      Delete Plan Sheet 10 in its entirety and replace it with Plan Sheet 10(R-1) attached to this Addendum No. 1. The highway bounds have been revised.

   c. Sheet 11 - Location Plan No. 2

      Delete Plan Sheet 11 in its entirety and replace it with Plan Sheet 11(R-1) attached to this Addendum No. 1. The highway bounds have been revised.

ATTACHMENTS

d. Sheet 12 - Signing & Striping Plan No. 1

Delete Plan Sheet 12 in its entirety and replace it with Plan Sheet 12(R-1) attached to this Addendum No. 1. The signage has been modified.

e. Sheet 15 - Detail Plan No. 2

Delete Plan Sheet 15 in its entirety and replace it with Plan Sheet 15(R-1) attached to this Addendum No. 1. The swing gate and foundation detail has been modified.

f. Sheet 16 - Detail Plan No. 3

Delete Plan Sheet 16 in its entirety and replace it with Plan Sheet 16(R-1) attached to this Addendum No. 1. The swing gate location has been modified.

2. Volume 2 - Bridge Plans

a. Sheet 3 - Job Specific General Notes 1

Delete Plan Sheet 3 in its entirety and replace it with Plan Sheet 3(R-1) attached to this Addendum No. 1. The notes have been revised.

b. Sheet 5 - Job Specific General Notes 3

Delete Plan Sheet 5 in its entirety and replace it with Plan Sheet 5(R-1) attached to this Addendum No. 1. The notes have been revised.

c. Sheet 9 - Foundation and Pile Plan

Delete Plan Sheet 9 in its entirety and replace it with Plan Sheet 9(R-1) attached to this Addendum No. 1. The abutment details have been updated.

David W Fish

RI Department of Transportation

Administrator, Division of Project Management

ATTACHMENTS

Prospective Bidders are hereby notified that all questions pertaining to this Contract must be submitted to the Department of Transportation in writing through its website at http://www.dot.ri.gov/contracting/bids/ by accessing the Questions & Answers Menu located within the "Contracting", then "Contract Opportunities" link. Responses to the submitted questions will also be posted under this link. PHONE CALLS WILL NOT BE ACCEPTED.

For help with RIDOT's Quest Lite bid preparation software, please contact the Contracts & Specifications Office, Room 108, Two Capitol Hill, Providence, Rhode Island, 02903, Tel. Number (401)-222-2495 or e-mail Quest@dot.ri.gov.

Please also note that all Bidding Documents required to be submitted and in fact submitted to the Purchasing Agent as part of a bid will be considered returned to the State and need not be returned to RIDOT.

A bid bond payable to the State of Rhode Island, in the amount of 5% of the total or gross sum of the bid must be furnished by each bidder. The Proposal Guaranty will be furnished by surety companies authorized/licensed to do business in the State of Rhode Island. The State reserves the right to retain the surety of all bidders until the successful bidder enters into the Contract or until such time as the award or cancellation of the Contract is announced at which point Sureties will be returned to all bidders by the State of Rhode Island. A performance bond of one hundred (100) percent of the contract price with a satisfactory surety company will be required of the successful bidder. All surety companies must be listed with The Department of the Treasury, Fiscal Services, Circular 570, (Latest Revision published by the Federal Register). The Department of Transportation reserves the right to reject any or all bids.

Required Contract Provisions - The attention of prospective bidders is called to the fact that this project is to be bid upon and the contract executed subject to all applicable federal laws and regulations for carrying out the provisions of the Federal-Aid Highway program.

Wages of labor on Federal -Aid Highway Projects - the prevailing rate of wages for laborers and mechanics employed by contractors or subcontractors on the initial construction of highway projects on the Federal - Aid Highway System, authorized under the Federal Highway Act of 1968, shall be paid wages at rates not less than those prevailing on the same type of work on similar construction in the immediate locality as determined by the United States Secretary of Labor, in accordance with the Act of August 30, 1935, known as the Davis - Bacon Act, under Decision Nos. 1 through 6 as applicable.

Prevailing wage rates and Davis - Bacon Wage Determination Reference Materials are available online at www.purchasing.ri.gov. It is advisable to print only the pages applicable to this bid; the rates active on the Rhode Island Vendor Information Program's bid solicitation date for this project are applicable for the duration of the contract resulting from this bid.

Work Hours Act of 1962 - This contract is subject to Work Hours Act of 1962, Public Law 87-581 and implementing regulations.

There will be no Pre-Bid Conference scheduled for this project.

SPECIAL NOTE

ANY REFERENCE TO THE RHODE ISLAND DEPARTMENT OF PUBLIC WORKS OR THE DIRECTOR OF PUBLIC WORKS SHOULD BE REVISED TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION AND THE DIRECTOR OF TRANSPORTATION RESPECTIVELY.

SPECIAL NOTICE

PROPOSAL

Project Name - Blackstone River Bikeway (Segment 8C)
Estimate Name - Addendum No. 1 to Advertising
R.I. Contract No. - 2017-CH-039
FAP Nos - 3RD-PRTY(239),
405-421-835, STP-BRBW(002)

All items in the Proposal must have a unit bid price in words and figures. All unit bid prices must be extended. Bids will not be accepted if they contain no unit price for an item or if they contain zero in words and figures as the unit price bid.

The minimum acceptable bid price for:

Code 212.2000, CLEANING AND MAINTENANCE OF EROSION CONTROLS is Seven Thousand Dollars And No Cents ($7,000.00) per LS

Code 907.0100, WATER FOR DUST CONTROL is Fourteen Dollars And Fifty Cents ($14.50) per MGAL

Code 914.5010, FLAGPERSONS is Forty Nine Dollars And Fifty Cents ($49.50) per MHRS

Code 914.5020, FLAGPERSONS - OVERTIME is Sixty Three Dollars And Fifty Cents ($63.50) per MHRS

Code 937.0200, MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION is Fifteen Thousand Dollars And No Cents ($15,000.00) per LS

Code 943.0200, TRAINEE MAN-HOURS is Six Dollars And No Cents ($6.00) per MHRS

The only acceptable bid price for:

Code 201.9904, TIPPING FEE FOR DAILY COVER SOIL is Thirty Two Dollars And No Cents ($32.00) per TON

Items preceded with the letter "S" in the proposal are Specialty Items.

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2017-CH-039

Federal-Aid Project Number(s): 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

WRITTEN IN WORDS:

The undersigned bidder declares that this Proposal is made without connection with any other person or persons making proposals for the same work, and is in all respects fair and without collusion or fraud. The undersigned bidder submits herewith, a proposal guarantee in the form of a bid bond in favor of the State of Rhode Island in the amount of 5% of the total or gross sum of the bid and agrees and consents that the proposal guarantee shall be forfeited to the State as liquidated damages if the required contract agreement and contract bond are not executed within ten(10) days of the notice of award. All surety companies must be listed with The Department of the Treasury, Fiscal Services, Circular 570, (Latest Revision published by The Federal Register). The State reserves the right to retain the surety of all bidders until the successful bidder enters into the Contract or until such time as the award or cancellation of the Contract is announced at which point Sureties will be returned to all bidders by the State of Rhode Island, Office of Purchases. The undersigned bidder further agrees, if awarded the contract on this proposal, to begin work within ten (10) calendar days after the date of execution of the contract unless otherwise specified under special provisions or permitted by the Engineer, and further agrees to complete the work on or before the dates outlined in the Contract Documents.

COMPLETION DATE(S)

DESCRIPTION	DATE
Bid-Opening Date	June 28, 2017
Substantial Completion Date	July 19, 2019

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

ADDENDA	DATE POSTED	DOCUMENT(S)	PAGE
NO.1		Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements	
		Anti-Collusion Certificate	
		DBE Affirmative Action Certification	
		Disclosure of Lobbying Activities	

Total or gross sum of bid for Rhode Island Contract Number: 2017-CH-039

Federal-Aid Project Number(s): 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

Whoever, being an officer, agent, or employee of the United States, or of any State, or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the costs thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction of any highway or related project submitted for approval to the Secretary of Transportation; or Whoever, knowingly makes any false statement, false representation, false report, or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or Whoever, knowingly makes any false statement or false representation as to a material fact in any statement, certificate, or report submitted pursuant to the provisions of the Federal-aid Road Act approved July 11, 1916 (39 Stat. 355), as amended and supplemented, Shall be fined not more than $10,000 or imprisoned not more than five years, or both. By signing here the signee agrees that the disk submitted is the same as the paper submitted and that any discrepancies may result in disqualification of the bid.

BEING EITHER A (INDIVIDUAL, PARTNERSHIP,)
(OR CORPORATION INCORPORATED)
(UNDER THE LAWS OF ANY STATE)
(IN THE UNITED STATES OF AMERICA)

_____

Contractor

COMPOSED OF OFFICERS, PARTNERS

OR OWNER, AS FOLLOWS.

_____

President

_____

Vice-President

_____

Secretary

_____

Treasurer

Address _____

_____

CERTIFICATION SUMMARY: I hereby certify that I have read all of the above requirements and understand that it affects the acceptablility of my bid(s).

_____

Name of Signatore - Title

Date

CODE 108.1000
PROSECUTION AND PROGRESS

In accordance with Section **108.08, Failure to Complete on Time, Para. a., Phased and Interim Completion** the following defines the Phase and Interim Completion Dates and Associated Liquidated Damages:

1. Substantial Completion: July 19, 2019
   All Contract work shall be completed, as defined by Section 101.71.

Liquidated Damages: $1,500.00 per calendar day for over $2,000,000.00 estimate.

CODE 804.9901
EMBANKMENT DEFORMATION MONITORING

GENERAL: Deformation monitoring of the existing river embankments shall be performed using Surface Monitoring Points (SMPs).

DESCRIPTION:

Surface Monitoring Points

A. The work to be performed under this item shall consist of all labor, equipment, and materials associated with installation and monitoring of SMPs to monitor the deformation of the river embankments during installation of steel sheet piles and drive foundation piles. Monitoring points shall be installed a minimum of one week prior to the start of pile driving work, and pre-construction baseline data shall be established for comparison with construction and post-construction data. The work includes performing survey monitoring of the SMPs at the required frequencies described herein and reporting the data at the required intervals described herein.

SUBMITTALS:

A. Qualifications in accordance with these special provisions.

B. Submit to the Engineer a proposed plan, schedule, and sequence of surface monitoring point installation including a date for completion of initial readings. The plan shall include all the monitoring point locations and survey frequency, for review by the Engineer.

QUALIFICATIONS:

A. Installation and monitoring of the monitoring points shall be conducted by an experience Land Surveyor registered in the State of Rhode Island. The Surveyor retained by the Contractor shall have a minimum of 2 similar studies within the last 5 years.

EQUIPMENT AND MATERIALS:

A. Surface Monitoring Points (SMPs) shall consist of survey stakes with tacks driven at the locations shown on the Foundation and Pile plan. Equipment shall have a measurement accuracy of 0.01 feet.

EXECUTION:

Surface Monitoring Points

A. The Contractor shall collect data at all surface monitoring points on a weekly basis during pile driving operations, and one week after completion.

B. Surface Monitoring Points (SMPs) shall be installed at locations as described in the Special Provision or as directed by the Engineer to monitor vertical and horizontal deformation.

METHOD OF MEASUREMENT:

Surface Monitoring Points

A. Installation and monitoring of SMPs will be measured for payment as lump sum in accordance with the Contract Documents and/or as directed by the Engineer. The price shall include all material and labor required to complete the task.

BASIS OF PAYMENT:

A. This item will be paid for at their respective contract price for the lump sums as listed in the Proposal. The prices so stated shall constitute full and complete compensation for all labor, materials, tools and equipment, and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

CODE 906.9902
BITUMINOUS BERM

DESCRIPTION: This item of work shall conform to the plans and applicable sections of the Rhode Island Standard Specifications for Road and Bridge Construction, Amended 2013, with the following additions:

MATERIALS: All materials will be in accordance with Subsection M.03 of the Rhode Island Standard Specifications for Road and Bridge Construction, Amended 2013.

CONSTRUCTION METHODS: Bituminous berm shall be constructed by use of a self-propelled automatic curber or curb machine, or a paver equipped with curbing/berm attachments.

The automatic curber or curb machine shall be approved by the Engineer prior to its use. The machine shall conform to the following requirements:

1. The weight of the machine shall be such that required compaction is obtained without the machine riding above the bed on which the berm is constructed.

2. The machine shall form berm that is uniform in texture, shape and density. The berm shall be of Cape Cod style with a width of 12" with a reveal which varies from 1/2" to 2". See Detail within the project drawings.

3. The Engineer may permit the construction of berm by means other than the automatic curber when either short sections, or sections with short radii, are required or for other reasons as may be warranted. The berm produced by such alternate means shall conform in all respects to the berm produced by the use of the machine.

METHOD OF MEASUREMENT: "BITUMINOUS BERM" shall be measured for payment by the number of linear feet actually installed and accepted by the Engineer.

BASIS OF PAYMENT: "BITUMINOUS BERM" shall be paid for at the contract bid price linear foot which price and payment shall constitute full compensation for furnishing all labor, materials, equipment, bituminous concrete, tack coat, and other incidentals complete in place and accepted by the Engineer.

Table of Contents - Distribution of Quantities

Project Name - Blackstone River Bikeway (Segment 8C)
Estimate Name - Addendum No. 1 to Advertising
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ItemCode	Description	Page
201.0301	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (4"- 24")	1
201.0321	CLEARING AND GRUBBING	1
201.0401	REMOVE AND DISPOSE GRANITE CURB	1
201.0403	REMOVE AND DISPOSE SIDEWALKS	1
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	1
201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	2
201.0421	REMOVE AND DISPOSE BITUMINOUS CURB	2
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	2
201.9901	REMOVE AND DISPOSE GATE	2
201.9902	REMOVE AND RELOCATE BOULDERS	3
201.9903	EXCAVATING AND HAUL CONTAMINATED SOIL	3
201.9904	TIPPING FEE FOR DAILY COVER SOIL	3
202.0100	EARTH EXCAVATION	3
202.0700	COMMON BORROW	3
203.0100	STRUCTURAL EXCAVATION EARTH	3
204.0100	TRIMMING AND FINE GRADING	4
206.0312	COMPOST FILTER SOCK 12 INCH DIAMETER	4
209.0110	BALED HAY CATCH BASIN INLET PROTECTION STANDARD 9.8.0	4
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	5
301.9901	STONE DUST PATH	5
301.9902	TEMPORARY CONSTRUCTION ACCESS	5
302.0100	GRAVEL BORROW SUBBASE COURSE	5
401.1000	CLASS 19.0 HMA	6
401.4000	CLASS 4.75 HMA	6
403.0300	ASPHALT EMULSION TACK COAT	7
601.0300	CLASS A PORTLAND CEMENT CONCRETE	7
701.5210	10 INCH DUCTILE IRON WATER PIPE CLASS 52, RESTRAINED JOINT	8
701.8003	PIPE BEDDING CLASS C	8
702.0517	FRAME AND GRATE, STANDARD 6.3.2	8
702.0522	FRAME AND COVER STANDARD 6.2.1	8
702.0712	PRECAST CONCRETE DROP INLET STANDARD 4.5.0	8
707.0900	ADJUST MANHOLES TO GRADE	9
711.0110	3'' PAVED WATERWAY CLASS I-1 STANDARD 8.4.0	9
713.8269	ADJUST WATER GATE BOXES TO GRADE	9
800.9901	BRIDGE NO. 1054 SUPERSTRUCTURE	9
800.9902	BRIDGE NO. 1054 SUBSTRUCTURE	9
804.1240	H PILES FURNISH AND DRIVE 14 INCH 73 LB/FT	10
804.1720	PILE LOAD TEST OVER 100 TON	10
804.2000	MOBILIZATION & DEMOBILIZATION OF PILE DRIVING EQUIPMENT	10
804.2130	PILE POINTS FOR H PILES 14 INCH X 73 LB/FT	10
808.0800	**** ITEM DELETED ****	**10**
901.0151	TERMINAL END SECTION SINGLE FACE STANDARD 34.3.2	11
901.0193	GUARDRAIL STEEL BEAM SINGLE FACE STANDARD 34.2.0	11
902.9901	STEEL BOLLARD	11
903.0410	TEMPORARY CHAIN LINK FENCE	11
903.9901	SPLIT RAIL BICYCLE RAILING	12
903.9902	BLACK POLYVINYL CHLORIDE (PVC) COATED CHAIN LINK FENCE - 3' HIGH - 31.1.0M	12
903.9903	SWING GATE AND FOUNDATIONS	12
903.9904	SPLIT RAIL BARRIER	13
905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	13
905.0115	PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD 43.5.0	13
905.9901	STAMPED PORTLAND CEMENT CONCRETE	13
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ItemCode	Description	Page
906.0111	GRANITE CURB, QUARRY SPLIT CIRCULAR, STANDARD 7.3.0	14
906.0118	6' GRANITE TRANSITION CURB, QUARRY SPLIT SPECIAL TRANSITION STANDARD 7.3.2	14
906.0119	3' GRANITE TRANSITION CURB STANDARD 7.3.1	15
906.0120	GRANITE WHEELCHAIR RAMP CURB STANDARDS 7.3.3, 43.3.0 AND 43.3.1	15
906.0131	GRANITE RAMP STONE CIRCULAR STANDARD 7.3.9	15
906.0221	6' PRECAST CONCRETE TRANSITION CURB STANDARD 7.1.2	15
906.0602	BITUMINOUS BERM STANDARD 7.5.1	15
906.9901	GRANITE BENCH	16
906.9902	BITUMINOUS BERM	16
907.0100	WATER FOR DUST CONTROL	16
910.9901	BIAXIAL GEOGRID REINFORCEMENT	16
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914.5010	FLAGPERSONS	17
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915.0100	**HIGHWAY BOUND GRANITE STANDARD 14.2.0**	**17**
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920.0025	PLACED STONE RIPRAP R-3, R-4, R-5 STANDARD 8.3.0	18
920.0060	PLACED STONE RIPRAP R-6, R-7, R-8	19
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920.0135	BEDDING FOR RIPRAP FS-2 STANDARD 8.3.0	19
920.0140	BEDDING FOR RIPRAP FS-3 STANDARD 8.3.0	19
920.0200	FILTER FABRIC FOR RIP-RAP	19
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923.0120	PLASTIC PIPE BARRICADE STANDARD 26.3.0	20
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	20
929.0110	FIELD OFFICE	20
931.0110	CLEANING AND SWEEPING PAVEMENT	20
932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT	20
932.0230	FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY	21
936.0110	MOBILIZATION	21
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	21
942.0200	DETECTABLE WARNING PANEL STANDARD 48.1.0	21
943.0200	TRAINEE MAN-HOURS	22
L01.0102	LOAM BORROW 4 INCHES DEEP	22
L02.0102	RESIDENTIAL SEEDING (TYPE 2)	22
L11.0102	TREE PLANT PROTECTION DEVICE STANDARD 51.1.0	22
L13.0204	PARTIAL TREE WELL BLOCK CONSTRUCTION STANDARD 51.3.0	23
L15.9901	BICYCLE RIBBON RACK	23
T15.0100	**DIRECTIONAL REGULATORY AND WARNING SIGNS**	**23**
T15.0110	GUIDE SIGNS STANDARD 29.2.0	24
T15.9901	ALTERNATIVE URBAN TRAILBLAZER SIGN (AUT)	24
T19.9901	STATE IDENTIFICATION GRANITE BOLLARD	24
T19.9902	GRANITE MILE MARKER	24
T20.1000	REMOVE EXISTING PAVEMENT MARKINGS	24
T20.2006	6 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	25
T20.2012	12 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	25
T20.2014	4 INCH EPOXY RESIN PAVEMENT MARKINGS YELLOW	25
T20.2024	EPOXY RESIN PAVEMENT MARKING WORD "STOP"	26
T20.2052	EPOXY RESIN PAVEMENT MARKING WORD "AHEAD"	26
804.9901	**EMBANKMENT DEFORMATION MONITORING**	**27**

Distribution of Quantities

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
037	804.1240	**H PILES FURNISH AND DRIVE 14 INCH 73 LB/FT**	LF			
		BRIDGE NO. 1054				
		EAST ABUTMENT		480.00	0028	03
		EAST WINGWALLS		435.00	0028	03
		WEST ABUTMENT		634.00	0028	03
		WEST WINGWALLS		567.00	0028	03
		Item 804.1240 Total:		**2,116.00**		
038	804.1720	**PILE LOAD TEST OVER 100 TON**	EACH			
		BRIDGE NO. 1054				
		EAST ABUTMENT		1.00	0028	03
		WEST ABUTMENT		1.00	0028	03
		Item 804.1720 Total:		**2.00**		
039	804.2000	**MOBILIZATION & DEMOBILIZATION OF PILE DRIVING EQUIPMENT**	LS			
		BRIDGE NO. 1054				
		PROJECT WIDE		1.00	0028	03
		Item 804.2000 Total:		**1.00**		
040	804.2130	**PILE POINTS FOR H PILES 14 INCH X 73 LB/FT**	EACH			
		BRIDGE NO. 1054				
		EAST ABUTMENT		7.00	0028	03
		EAST ABUTMENT RETURN WALLS		6.00	0028	03
		WEST ABUTMENT		7.00	0028	03
		WEST ABUTMENT RETURN WALLS		6.00	0028	03
		Item 804.2130 Total:		**26.00**		
041	809.0900	CONCRETE RETAINING WALL CLASS HP 1/4* STANDARD 10.3.0	CY			
		EAST OF BLACKSTONE RIVER				

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FAP Nos: 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
041	908.0800 Cont.	STA. 713+75 TO STA. 714+25 RT			0028	03
		STA. 716+50 TO STA. 717+00 RT			0028	03
		Item 505.0800 Total:		**DELETED**		
042	901.0151	**TERMINAL END SECTION SINGLE FACE**	**EACH**			
		STANDARD 34.3.2				
		EAST OF BLACKSTONE RIVER				
		STA. 710+08 LT		1.00	0028	01
		STA. 710+17 RT		1.00	0028	01
		STA. 710+32 RT		1.00	0028	01
		STA. 710+42 LT		1.00	0028	01
		STA. 711+05 RT		1.00	0028	01
		STA. 711+12 LT		1.00	0028	01
		STA. 711+17 LT		1.00	0028	01
		Item 901.0151 Total:		**7.00**		
043	901.0193	**GUARDRAIL STEEL BEAM SINGLE FACE**	**LF**			
		STANDARD 34.2.0				
		EAST OF BLACKSTONE RIVER				
		STA. 710+10 TO STA. 710+36 LT		27.00	0028	01
		STA. 710+17 TO STA. 710+36 RT		88.00	0028	01
		STA. 711+10 TO STA. 711+16 LT		17.00	0028	01
		Item 901.0193 Total:		**132.00**		
044	902.9901	**STEEL BOLLARD**	**EACH**			
		EAST OF BLACKSTONE RIVER				
		STA. 704+70		1.00	0028	01
		STA. 707+15		1.00	0028	01
		STA. 711+16		1.00	0028	01
		STA. 721+38		1.00	0028	01
		Item 902.9901 Total:		**4.00**		
045	903.0410	**TEMPORARY CHAIN LINK FENCE**	**LF**			

Distribution of Quantities

Project Name - Blackstone River Bikeway (Segment 8C)
Estimate Name - Addendum No. 1 to Advertising
R.I. Contract No. - 2017-CH-039
FAP Nos: 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
065	911.0100	**WET STONE MASONRY RETAINING WALL**	**CY**			
		STANDARD 10.1.0				
		EAST OF BLACKSTONE RIVER				
		STA. 713+75 TO 714+25 RT		20.00	0028	01
		STA. 716+50 TO 717+00 RT		27.00	0028	01
		Item 911.0100 Total:		**47.00**		
066	914.5010	**FLAGPERSONS**	**MHRS**			
		PROJECT WIDE				
		PROJECT WIDE		400.00	0028	03
		Item 914.5010 Total:		**400.00**		
067	914.5020	**FLAGPERSONS - OVERTIME**	**MHRS**			
		PROJECT WIDE				
		PROJECT WIDE		40.00	0028	01
		Item 914.5020 Total:		**40.00**		
068	915.0100	**HIGHWAY BOUND GRANITE STANDARD**	**EACH**			
		14.2.0				
		PROJECT WIDE				
		BD28 STA. 719+49 8' RT		1.00	0028	01
		BD31 STA. 719+72 13' RT		1.00	0028	01
		BD33 STA. 719+80 8' RT			0028	01
		BD34 STA. 720+29 8' RT		1.00	0028	01
		BD35 STA. 721+22 9' RT		1.00	0028	01
		Item 915.0100 Total:		**4.00**		
069	915.0200	**HIGHWAY BOUNDS REINFORCED CONCRETE**	**EACH**			
		STANDARD 14.1.0				
		PROJECT WIDE				
		BD01 & BD02 STA. 700+29 LT&RT		2.00	0028	01
		BD03 & BD04 STA. 700+63 LT&RT			0028	01
		BD05 & BD06 STA. 701+31 LT&RT			0028	01

Distribution of Quantities

Project Name - Blackstone River Bikeway (Segment 8C)
Estimate Name - Addendum No. 1 to Advertising
R.I. Contract No. - 2017-CH-039
FAP Nos: 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
069	915.0200 Cont.	BD07 & BD08 STA. 701+82 LT&RT			0028	01
		BD09 & BD10 STA. 702+32 LT&RT			0028	01
		BD11 & BD12 STA. 703+13 LT&RT			0028	01
		BD13 & BD14 STA. 704+52 LT&RT			0028	01
		BD15 & BD16 STA. 705+36 LT&RT		2.00	0028	01
		BD17 & BD18 STA. 706+18 LT&RT			0028	01
		BD19 STA. 706+88 LT			0028	01
		BD20 STA. 706+91 RT			0028	01
		BD21 & BD22 STA. 711+42 LT&RT		2.00	0028	01
		BD23 STA. 716+48 RT			0028	01
		BD24 STA. 717+02 RT			0028	01
		BD25 & BD26 STA. 717+33 LT&RT		2.00	0028	01
		BD27 STA. 719+24 RT		1.00	0028	01
		BD29 STA. 719+64 LT		1.00	0028	01
		BD36 STA. 721+29 RT		1.00	0028	01
		BD38 STA. 721+33 RT		1.00	0028	01
		BD41 STA. 723+62 RT		1.00	0028	01
		BD43 STA. 723+72 LT		1.00	0028	01
		BD48 & BD49 STA. 726+30 LT&RT			0028	01
		BD52 & BD53 STA. 727+45 LT&RT		2.00	0028	01
		BD54 & BD55 STA. 729+46 LT&RT			0028	01
		BD56 & BD57 STA. 731+30 LT&RT			0028	01
		BD58 & BD59 STA. 732+09 LT&RT		2.00	0028	01
		BD60 STA. 732+60 RT			0028	01
		BD61 STA. 732+47 RT		1.00	0028	01
		BD62 STA. 732+59 RT		1.00	0028	01
		BD63 STA. 733+53 RT			0028	01
		Item 915.0200 Total:		**20.00**		
070	920.0025	**PLACED STONE RIPRAP R-3, R-4, R-5**	**TON**			
		STANDARD 8.3.0				
		WEST OF BLACKSTONE RIVER				
		STA. 723+67 TO STA. 723+74 LT		13.00	0028	01

Distribution of Quantities

Project Name - Blackstone River Bikeway (Segment 8C)
Estimate Name - Addendum No. 1 to Advertising
R.I. Contract No. - 2017-CH-039
FAP Nos: 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
089	L11.0102 Cont.	STA. 724+52 12' LT		1.00	0028	01
		STA. 724+74 21' LT		1.00	0028	01
		STA. 725+13 166' LT		1.00	0028	01
		STA. 725+37 26' RT		1.00	0028	01
		STA. 725+63 27' RT		1.00	0028	01
		STA. 727+17 16' RT		1.00	0028	01
		STA. 727+19 14' LT		1.00	0028	01
		STA. 727+38 10' LT		1.00	0028	01
		STA. 732+83 10'LT		1.00	0028	01
		STA. 732+95 12' RT		1.00	0028	01
		Item L11.0102 Total:		**13.00**		
090	L13.0204	**PARTIAL TREE WELL BLOCK**	**CY**			
		CONSTRUCTION STANDARD 51.3.0				
		WEST OF BLACKSTONE RIVER				
		STA. 723+75 RT		2.00	0028	01
		STA. 724+16 LT		2.00	0028	01
		STA. 724+52 LT		2.00	0028	01
		Item L13.0204 Total:		**6.00**		
091	L15.9901	**BICYCLE RIBBON RACK**	**EACH**			
		EAST OF BLACKSTONE RIVER				
		STA. 700+25 RT		1.00	0028	01
		Item L15.9901 Total:		**1.00**		
092	T15.0100	**DIRECTIONAL REGULATORY AND WARNING SIGNS**	**SF**			
		PROJECT WIDE				
		R1-1 (2 SIGNS) (30"X30")		12.50	0028	01
		R5-3 (2 SIGNS) (24"X24")		8.00	0028	01
		R7-9 (1 SIGN) (12"X18")		1.50	0028	01
		R9-1A (3 SIGNS) (18"X24")		9.00	0028	01
		W11-1 (4 SIGNS) (30"X30")		25.00	0028	01

Distribution of Quantities

Project Name - Blackstone River Bikeway (Segment 8C)
Estimate Name - Addendum No. 1 to Advertising
R.I. Contract No. - 2017-CH-039
FAP Nos: 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
092	T15.0100 Cont.	W1-1L (2 SIGNS) (18"X18")		4.50	0028	01
		W1-1R (2 SIGNS) (18"X18")		4.50	0028	01
		W16-7PL (2 SIGN) (24"X12")		4.00	0028	01
		Item T15.0100 Total:		**69.00**		
093	T15.0110	**GUIDE SIGNS STANDARD 29.2.0**	**SF**			
		PROJECT WIDE				
		D11-1 (4 SIGNS) (24"X18")		15.00	0028	01
		M4-6 (2 SIGNS) (18"X12")		4.00	0028	01
		Item T15.0110 Total:		**19.00**		
094	T15.9901	**ALTERNATIVE URBAN TRAILBLAZER SIGN (AUT)**	**SF**			
		PROJECT WIDE				
		AUTS (3 SIGNS) (18"X12")		5.00	0028	01
		Item T15.9901 Total:		**5.00**		
095	T19.9901	**STATE IDENTIFICATION GRANITE BOLLARD**	**EACH**			
		WEST OF BLACKSTONE RIVER				
		STA. 732+80 RT		1.00	0028	01
		Item T19.9901 Total:		**1.00**		
096	T19.9902	**GRANITE MILE MARKER**	**EACH**			
		EAST OF BLACKSTONE RIVER				
		STA. 704+50 RT		1.00	0028	01
		WEST OF BLACKSTONE RIVER				
		STA. 731+06 RT		1.00	0028	01
		Item T19.9902 Total:		**2.00**		
097	T20.1000	**REMOVE EXISTING PAVEMENT MARKINGS**	**LF**			
		PROJECT WIDE				
		SINGLETON STREET, SAY		100.00	0028	01

Distribution of Quantities

Project Name - Blackstone River Bikeway (Segment 8C)
Estimate Name - Addendum No. 1 to Advertising
R.I. Contract No. - 2017-CH-039
FAP Nos: 3RD-PRTY(239), 405-421-835, STP-BRBW(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
102	T20.2052 Cont.	**Item T20.2052 Total:**		**2.00**		
103	804.9901	**EMBANKMENT DEFORMATION MONITORING**	**LS**			
		BRBW SEGMENT 8C				
		PROJECT WIDE		1.00		
		Item 804.9901 Total:		**1.00**		

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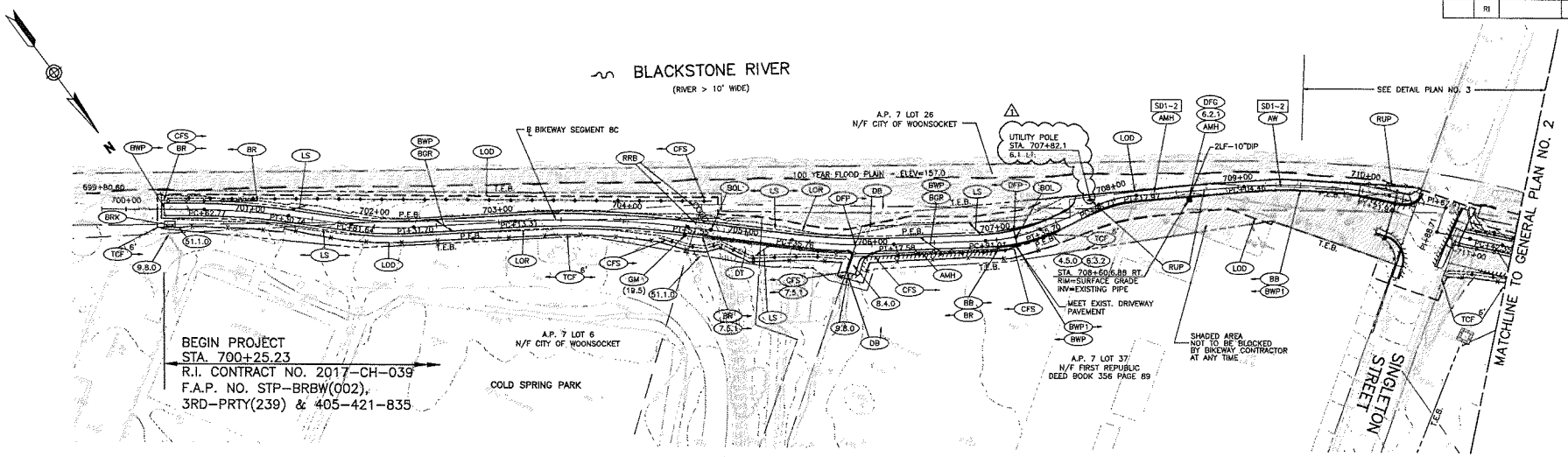
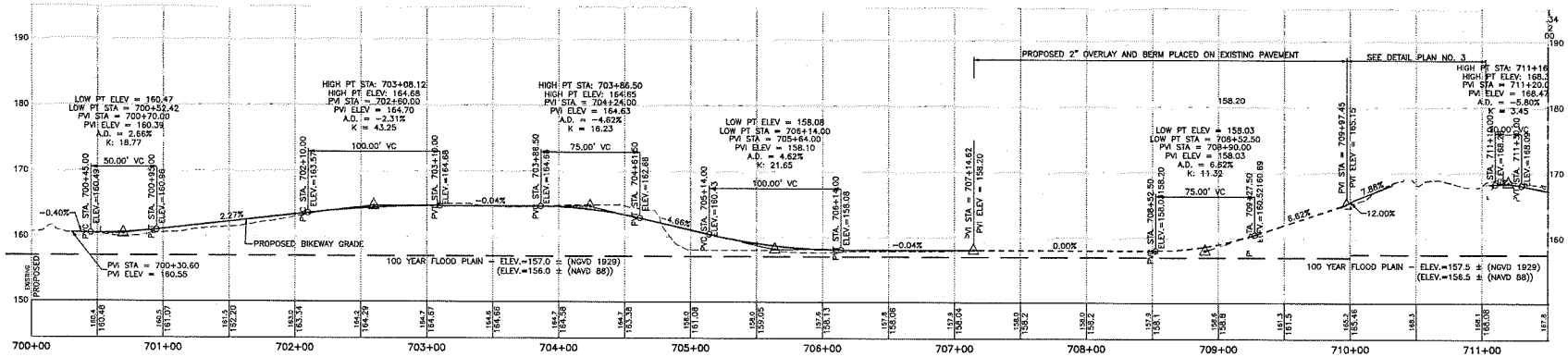
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			7	27





NOTES:
1. R.I. STD. 7.3.3 TRANSITION CURB CONNECTING INTO EXISTING BRIDGE CURBS SHALL BE RAISED TO MATCH 8" REVEAL.
2. ANY TREE TRIMMING WORK SHALL BE PROVIDED THROUGH THE STATEWIDE TREE TRIMMING CONTRACT. PLEASE COORDINATE WITH THE RESIDENT ENGINEER DURING CONSTRUCTION.

REVISIONS		
NO.	DATE	BY
1	6/13/17	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

WOONSOCKET TO N. SMITHFIELD

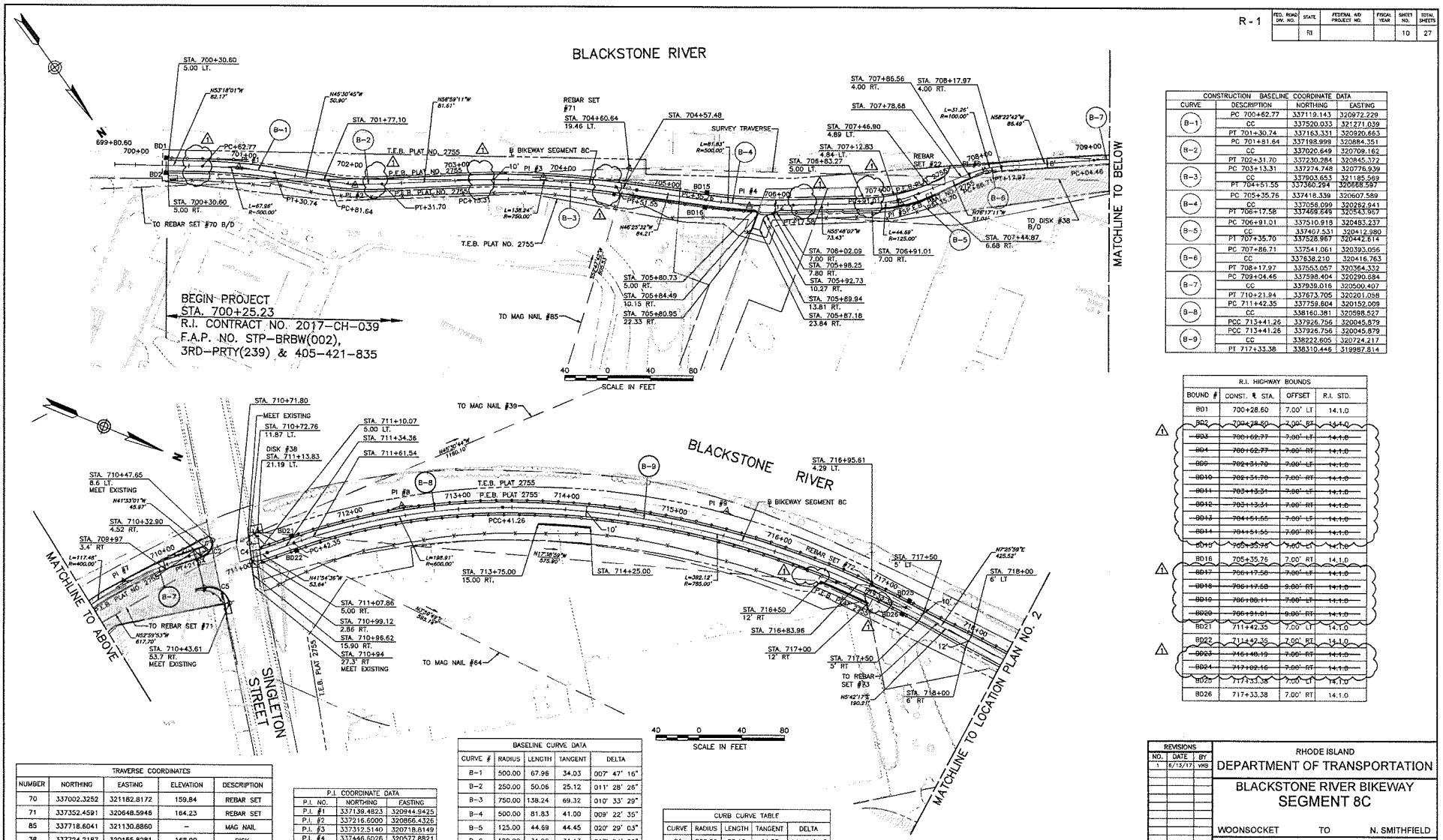
GENERAL PLAN &
PROFILE NO. 1

CHECKED BY _____ DATE _____ SCALE _____

vhb PROVIDENCE, RHODE ISLAND

ADDENDUM NO. 1

0021U_V1_007_GENERAL001



R - 1

REG. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			10	27

CONSTRUCTION BASELINE COORDINATE DATA			
CURVE	DESCRIPTION	NORTHING	EASTING
B-1	PC 700+62.77	337119.143	320972.229
	CC	337520.033	321271.039
	PT 701+30.74	337163.331	320920.663
B-2	PC 701+81.64	337198.999	320884.351
	CC	337020.649	320709.162
	PT 702+31.70	337230.284	320845.372
B-3	PC 703+13.31	337274.748	320776.939
	CC	337903.653	321185.569
	PT 704+51.55	337360.294	320658.597
B-4	PC 705+35.76	337418.339	320607.589
	CC	337056.099	320282.941
	PT 706+17.58	337469.649	320543.967
B-5	PC 706+91.01	337510.918	320483.237
	CC	337407.531	320412.980
	PT 707+35.70	337528.987	320442.614
B-6	PC 707+86.71	337541.061	320393.056
	CC	337638.210	320416.763
	PT 708+17.97	337553.057	320364.332
B-7	PC 709+04.46	337598.404	320290.884
	CC	337939.016	320500.407
	PT 710+21.84	337673.705	320201.058
B-8	PC 711+42.35	337758.604	320152.008
	CC	338160.381	320598.527
B-9	PCC 713+41.26	337926.756	320045.879
	PCC 713+41.26	337926.756	320045.879
	CC	338222.605	320724.217
	PT 717+33.38	338310.448	319987.814

R.I. HIGHWAY BOUNDS			
BOUND #	CONST. ℄ STA.	OFFSET	R.I. STD.
BD1	700+28.60	7.00' LT	14.1.0
BD2	700+28.60	7.00' RT	14.1.0
BD3	700+62.77	7.00' LT	14.1.0
BD4	700+62.77	7.00' RT	14.1.0
BD5	702+31.70	7.00' LT	14.1.0
BD6	702+31.70	7.00' RT	14.1.0
BD11	703+13.31	7.00' LT	14.1.0
BD12	703+13.31	7.00' RT	14.1.0
BD13	704+51.55	7.00' LT	14.1.0
BD14	704+51.55	7.00' RT	14.1.0
BD15	705+35.76	7.00' LT	14.1.0
BD16	705+35.76	7.00' RT	14.1.0
BD17	706+17.58	7.00' LT	14.1.0
BD18	706+17.58	9.00' RT	14.1.0
BD19	706+88.11	7.00' LT	14.1.0
BD20	706+91.01	9.00' RT	14.1.0
BD21	711+42.35	7.00' LT	14.1.0
BD22	711+42.35	7.00' RT	14.1.0
BD23	715+48.19	7.00' RT	14.1.0
BD24	717+02.16	7.00' RT	14.1.0
BD25	717+33.38	7.00' LT	14.1.0
BD26	717+33.38	7.00' RT	14.1.0

TRAVERSE COORDINATES				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
70	337002.3252	321182.8172	159.84	REBAR SET
71	337352.4591	320648.5946	164.23	REBAR SET
85	337718.6041	321130.8860	–	MAG NAIL
38	337724.2187	320155.8281	168.99	DISK
72	338273.0121	319980.6786	164.82	REBAR SET
39	338537.1688	319327.6735	–	MAG NAIL
64	338317.9156	320196.7718	–	MAG NAIL

P.I. COORDINATE DATA		
P.I. NO.	NORTHING	EASTING
P.I. #1	337139.4823	320944.9425
P.I. #2	337216.6000	320866.4326
P.I. #3	337312.5140	320718.8149
P.I. #4	337446.6026	320577.8821
P.I. #5	337523.6128	320464.5561
P.I. #6	337544.7960	320377.7492
P.I. #7	337629.4259	320240.3018
P.I. #8	337839.2823	320080.4925
P.I. #9	338121.2554	319968.9144

BASELINE CURVE DATA				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
B-1	500.00	67.96	34.03	007° 47' 16"
B-2	250.00	50.06	25.12	011° 28' 26"
B-3	750.00	138.24	69.32	010° 33' 29"
B-4	500.00	81.83	41.00	009° 22' 35"
B-5	125.00	44.69	44.45	020° 29' 03"
B-6	100.00	31.26	31.13	017° 54' 29"
B-7	400.00	117.48	117.08	015° 49' 41"
B-8	600.00	198.91	100.37	018° 59' 40"
B-9	785.00	392.12	200.24	028° 37' 13"

CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	200.00	87.15	44.28	024°58'04"
C2	15.00	20.10	20.10	076°46'00"
C4	391.99	17.36	17.36	002°32'14"
C5	20.00	30.41	30.41	087°07'06"

REVISIONS		
NO.	DATE	BY
1	8/13/19	VHB

vhb PROVIDENCE, RHODE ISLAND

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

WOONSOCKET TO N. SMITHFIELD

LOCATION PLAN NO. 1

CHECKED BY _____ DATE _____ SCALE _____

ADDENDUM NO. 1

0021U_V1_010_LOCATION001

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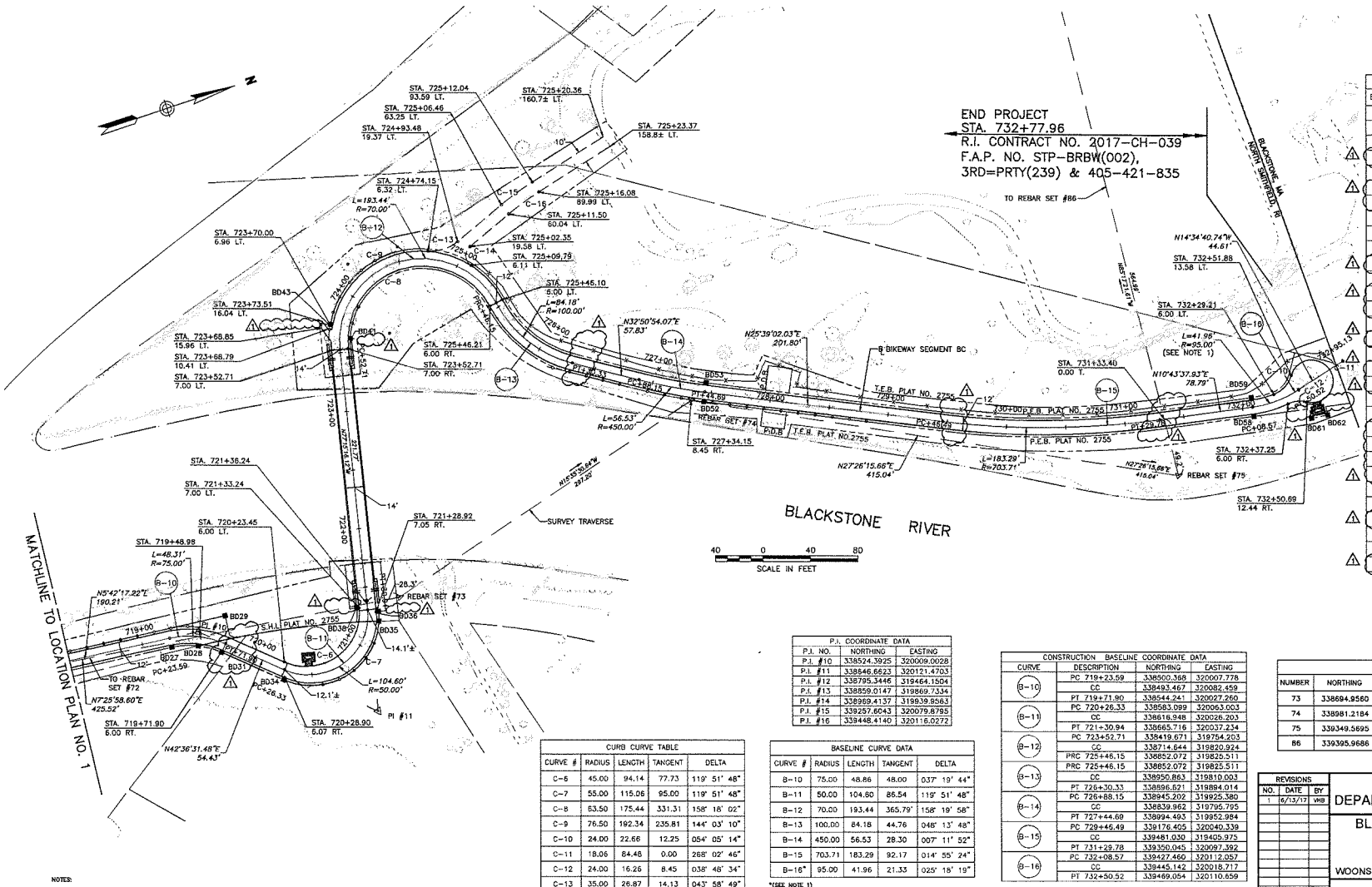
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			11	27



R.I. HIGHWAY BOUNDS			
BOUND #	CONST. ℄ STA.	OFFSET	R.I. STD.
BD27	719+23.59	8.0' RT	14.1.0
BD28	719+48.77	8.0' RT	14.2.0
BD29	719+64.15	21.8' LT	14.1.0
~~BD30~~	~~719+71.90~~	~~8.0' LT~~	~~14.1.0~~
BD31	719+71.90	8.0' RT	14.2.0
~~BD32~~	~~719+95.05~~	~~13.4' LT~~	~~14.2.0~~
~~BD33~~	~~719+80.85~~	~~8.0' RT~~	~~14.2.0~~
BD34	720+26.82	8.1' RT	14.2.0
BD35	721+22.04	9.3 RT	14.2.0
BD36	721+28.99	9.0' RT	14.1.0
~~BD37~~	~~721+29.16~~	~~15.0' RT~~	~~14.1.0~~
BD38	721+33.24	9.0' LT	14.1.0
~~BD39~~	~~721+33.24~~	~~15.0' LT~~	~~14.1.0~~
~~BD40~~	~~723+62.47~~	~~14.5' RT~~	~~14.1.0~~
BD41	723+62.47	9.4' RT	14.1.0
~~BD42~~	~~723+72.30~~	~~18.4' LT~~	~~14.1.0~~
BD43	723+72.49	9.2' LT	14.1.0
~~BD48~~	~~726+30.33~~	~~8.0' RT~~	~~14.1.0~~
~~BD49~~	~~726+30.33~~	~~8.0' LT~~	~~14.1.0~~
BD52	727+44.69	8.0' RT	14.1.0
BD53	727+44.69	8.0' LT	14.1.0
~~BD54~~	~~729+46.49~~	~~8.0' RT~~	~~14.1.0~~
~~BD55~~	~~729+46.49~~	~~8.0' LT~~	~~14.1.0~~
~~BD56~~	~~731+29.78~~	~~8.0' RT~~	~~14.1.0~~
~~BD57~~	~~731+29.78~~	~~8.0' LT~~	~~14.1.0~~
BD58	732+08.57	8.0' RT	14.1.0
BD59	732+08.57	8.0' LT	14.1.0
~~BD60~~	~~732+50.42~~	~~18.3' RT~~	~~14.1.0~~
BD61	732+47.04	26.1' RT	14.1.0
BD62	732+59.12	31.1' RT	14.1.0
~~BD63~~	~~732+63.43~~	~~21.3' RT~~	~~14.1.0~~

CURB CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C-5	45.00	94.14	77.73	119° 51' 48"
C-7	55.00	115.06	95.00	119° 51' 48"
C-8	53.50	175.44	331.31	158° 18' 02"
C-9	76.50	192.34	235.81	144° 03' 10"
C-10	24.00	22.66	12.25	054° 05' 14"
C-11	18.06	84.46	0.00	268° 02' 46"
C-12	24.00	16.26	8.45	038° 48' 34"
C-13	35.00	26.87	14.13	043° 58' 49"
C-14	10.00	18.67	13.50	105° 57' 38"
C-15	255.00	32.56	16.30	007° 18' 59"
C-16	245.00	31.28	15.66	007° 18' 59"

P.I. COORDINATE DATA		
P.I. NO.	NORTHING	EASTING
P.I. #10	338524.3925	320009.0028
P.I. #11	338646.6623	320121.4703
P.I. #12	338795.3446	319464.1504
P.I. #13	338859.0147	319869.7334
P.I. #14	338969.4137	319939.8563
P.I. #15	339257.6043	320079.8795
P.I. #16	339448.4140	320116.0272

BASELINE CURVE DATA				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
B-10	75.00	48.86	48.00	037° 19' 44"
B-11	50.00	104.60	86.54	119° 51' 48"
B-12	70.00	193.44	365.79'	158° 19' 58"
B-13	100.00	84.18	44.76	048° 13' 48"
B-14	450.00	56.53	28.30	007° 11' 52"
B-15	703.71	183.29	92.17	014° 55' 24"
B-16*	95.00	41.96	21.33	025° 18' 19"

*(SEE NOTE 1)

CONSTRUCTION BASELINE COORDINATE DATA			
CURVE	DESCRIPTION	NORTHING	EASTING
B-10	PC 719+23.59	338500.368	320007.778
	CC	338493.467	320082.459
	PT 719+71.90	338544.241	320027.260
B-11	PC 720+26.33	338583.099	320063.003
	CC	338616.948	320026.203
	PT 721+30.94	338665.716	320037.234
B-12	PC 723+52.71	338419.671	319754.203
	CC	338714.644	319820.924
	PRC 725+46.15	338852.072	319825.511
B-13	PRC 725+46.15	338852.072	319825.511
	CC	338950.863	319810.003
	PT 726+30.33	338896.621	319894.014
B-14	PC 726+88.15	338945.202	319925.380
	CC	338839.962	319795.795
	PT 727+44.69	338994.493	319852.984
B-15	PC 729+46.49	339176.405	320040.339
	CC	339481.030	319405.975
	PT 731+29.78	339350.045	320087.392
B-16	PC 732+08.57	339427.460	320112.057
	CC	339445.142	320018.717
	PT 732+50.52	339469.054	320110.659

TRAVERSE COORDINATES				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
73	338694.9560	320035.7263	164.52	REBAR SET
74	338981.2184	319955.8444	155.34	REBAR SET
75	339349.5695	320147.0868	157.71	REBAR SET
86	339395.9686	319584.0070	-	DH SET

NOTES:

1. THE LOCATION OF THE CUL-DE-SAC MAY BE ADJUSTED IN THE FIELD TO A MINOR EXTENT BY A RIDOT REPRESENTATIVE TO PRESERVE LOCAL VEGETATION.

REVISIONS		
NO.	DATE	BY
1	6/13/17	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

WOONSOCKET TO N. SMITHFIELD

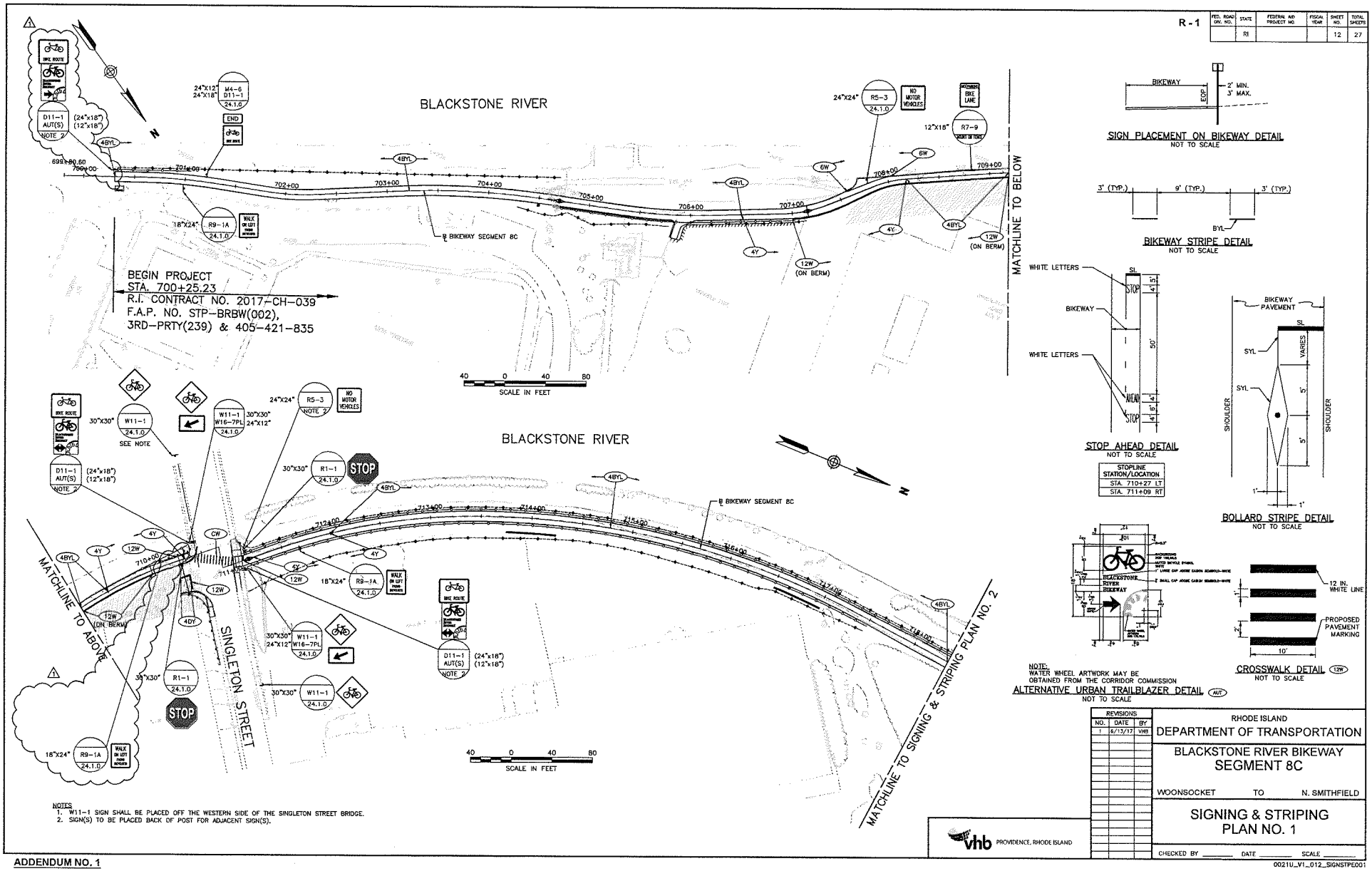
LOCATION PLAN NO. 2

CHECKED BY _____ DATE _____ SCALE _____

vhb PROVIDENCE, RHODE ISLAND

ADDENDUM NO. 1

0021U_V1_011_LOCATION002



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FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			12	27

SIGN PLACEMENT ON BIKEWAY DETAIL
NOT TO SCALE

BIKEWAY STRIPE DETAIL
NOT TO SCALE

STOP AHEAD DETAIL
NOT TO SCALE

STOPLINE STATION/LOCATION
STA. 710+27 LT
STA. 711+09 RT

BOLLARD STRIPE DETAIL
NOT TO SCALE

NOTE:
WATER WHEEL ARTWORK MAY BE OBTAINED FROM THE CORRIDOR COMMISSION

ALTERNATIVE URBAN TRAILBLAZER DETAIL (AUT)
NOT TO SCALE

CROSSWALK DETAIL (12W)
NOT TO SCALE

NOTES
1. W11-1 SIGN SHALL BE PLACED OFF THE WESTERN SIDE OF THE SINGLETON STREET BRIDGE.
2. SIGN(S) TO BE PLACED BACK OF POST FOR ADJACENT SIGN(S).

REVISIONS		
NO.	DATE	BY
1	6/13/17	VHB

vhb PROVIDENCE, RHODE ISLAND

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

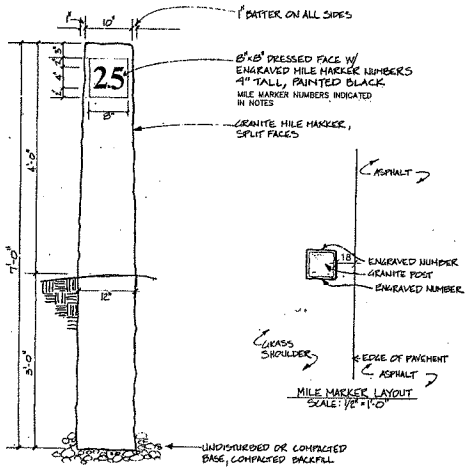
WOONSOCKET TO N. SMITHFIELD

SIGNING & STRIPING
PLAN NO. 1

CHECKED BY _____ DATE _____ SCALE _____

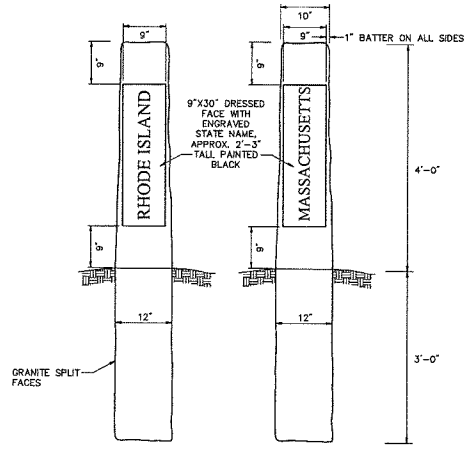
0021U_V1_012_SIGNSTPE001

ADDENDUM NO. 1



GRANITE MILE MARKER (GM)
SCALE: 1"=1'-0"

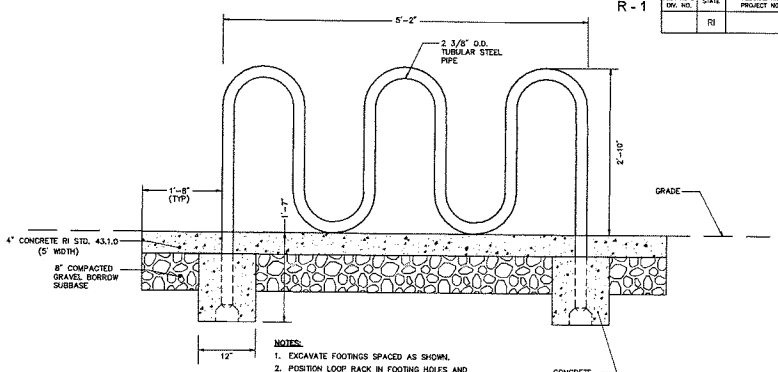
NOTES:
1. FONT TO BE SABON REGULAR. TEXT HEIGHT APPROX. 4" TALL TO FIT WITHIN DRESSED AREA.
2. MILE MARKER LOCATIONS AND TEXT AS FOLLOWS:
   STA. 704+50 – 19.5 MILE
   STA. 731+00 – 20.0 MILE



NOTES:
1. FONT TO BE SABON REGULAR. TEXT HEIGHT DEPENDANT ON FIT WITHIN DRESSED AREA.
2. OFFSET TO PROVIDE SUFFICIENT OFFSET FOR MASS CONNECTION.

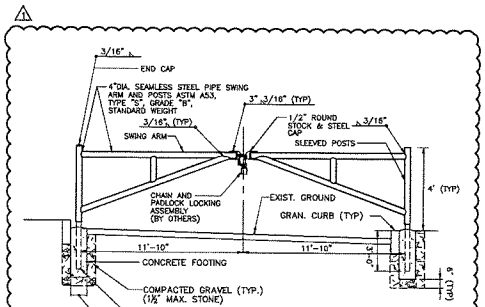
GRANITE BOLLARD STATION/LOCATION
STA. 732+80

STATE IDENTIFICATION GRANITE BOLLARD (SID)
NOT TO SCALE



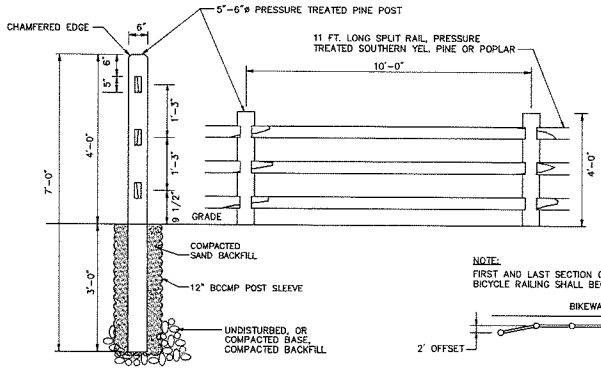
NOTES:
1. EXCAVATE FOOTINGS SPACED AS SHOWN.
2. POSITION LOOP RACK IN FOOTING HOLES AND TEMPORARILY BRACE IN PLUMB POSITION.
3. POUR CONCRETE FOOTINGS. REMOVE TEMPORARY BRACING AFTER CONCRETE HAS SET.
4. CONCRETE FOOTINGS SHALL BE IN ACCORDANCE WITH R.I. STD. 601
5. ALL STEEL MEMBERS SHALL BE COATED WITH A ZINC RICH EPOXY AND FINISHED WITH A SILVER POLYESTER POWDER COATING.

BICYCLE RIBBON RACK
NOT TO SCALE



NOTES:
1. SHOP PRIME PAINT EXPOSED SURFACES FIELD PAINT EPOXY ENAMEL-YELLOW. FINAL COAT IS TO BE COMPLETED IN THE FIELD.
2. 3,000 PSI CONCRETE FOOTING.
3. GATE TO BE FABRICATED TO ALLOW 100° OF SWING PREVENTING SWING INTO BIKEWAY AND SINGLETON STREET.

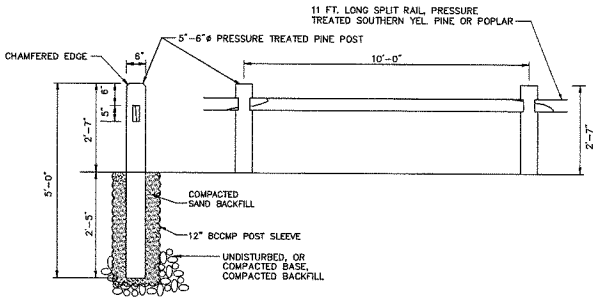
SWING GATE AND FOUNDATION (SFG)
STA. 710+28
SCALE: NTS



FENCE POST (BR)
SCALE: 3/4" = 1'-0"

NOTE:
FIRST AND LAST SECTION OF A LINE OF SPLIT RAIL FENCE BICYCLE RAILING SHALL BEGIN/END WITH A 2' OFFSET TAPER

SPLIT RAIL FENCE (BR)
BICYCLE RAILING
SCALE: 1/2" = 1'-0"



FENCE POST
SCALE: 3/4" = 1'-0"

SPLIT RAIL BARRIER (BC)
SCALE: 1/2" = 1'-0"

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			15	27

R - 1

REVISIONS		
NO.	DATE	BY
1	8/13/17	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

WOONSOCKET TO N. SMITHFIELD

DETAIL PLAN NO. 2

CHECKED BY _____ DATE _____ SCALE _____

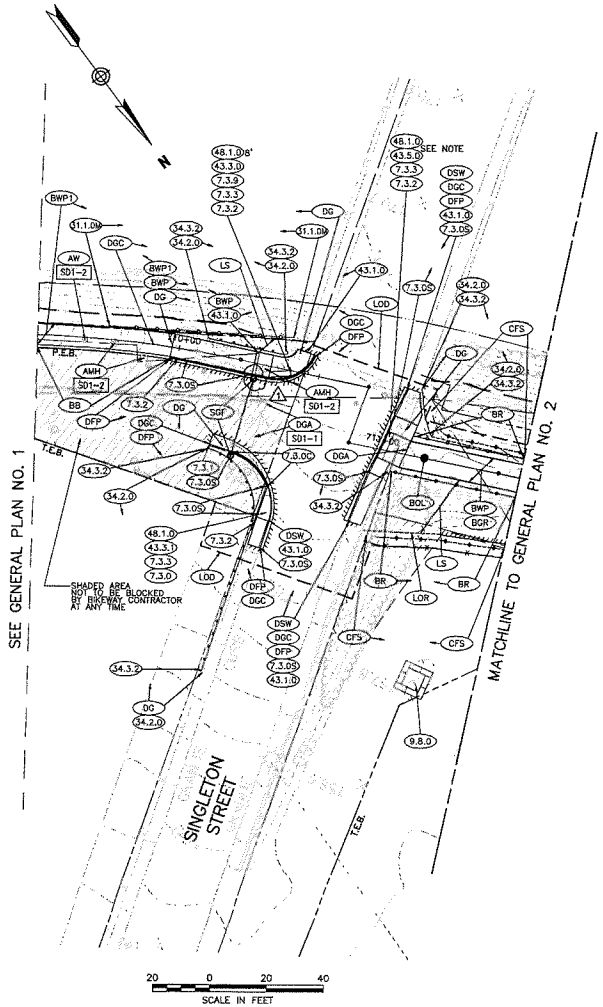
vhb PROVIDENCE, RHODE ISLAND

ADDENDUM NO. 1

0021U_V1_015_DETAIL002

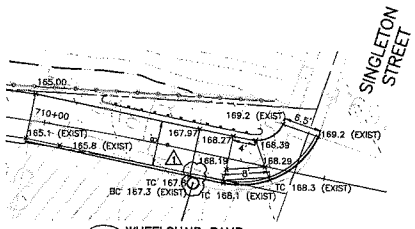
R - 1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			16	27

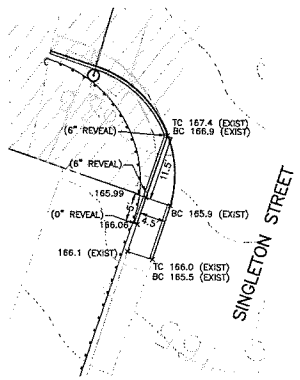


NOTES:

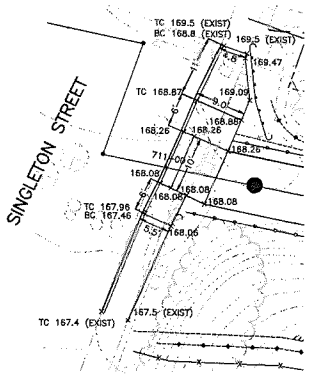
1. R.I. STD. 7.3.3 TRANSITION CURBS CONNECTING INTO EXISTING BRIDGE CURBS SHALL BE RAISED TO MATCH 8" REVEAL.



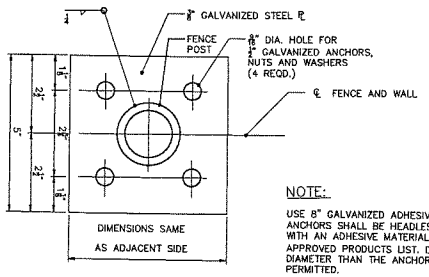
(43.3.0) WHEELCHAIR RAMP
SCALE: 1"=10'



(43.1.0) WHEELCHAIR RAMP
SCALE: 1"=10'



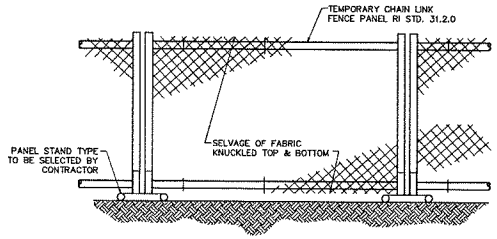
(43.5.0) DRIVEWAY
SCALE: 1"=10'



NOTE:

USE 8" GALVANIZED ADHESIVE ANCHORS EMBEDDED 6" MIN. ADHESIVE ANCHORS SHALL BE HEADLESS ANCHOR BOLTS SET IN DRILLED HOLES WITH AN ADHESIVE MATERIAL SYSTEM IN ACCORDANCE WITH RIDOT APPROVED PRODUCTS LIST. DRILLED HOLES SHALL BE 3/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT. EXPANSION BOLTS ARE NOT PERMITTED.

FENCE MOUNTING ON CONCRETE ENDWALL AND RETAINING WALLS
SCALE: N.T.S.



(TCF) TEMPORARY CHAIN LINK FENCE
SCALE: 1"=10'

REVISIONS		
NO.	DATE	BY
1	8/13/17	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

WOONSOCKET TO N. SMITHFIELD

DETAIL PLAN NO. 3

CHECKED BY _____ DATE _____ SCALE _____

vhb PROVIDENCE, RHODE ISLAND

ADDENDUM NO. 1

0021U_V1_016_DETAIL003

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			3	20

GENERAL NOTES

1. ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:
   - * THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2010 INCLUDING ALL REVISIONS OR SUPPLEMENTS TO DATE.
   - * THE 2007 EDITION OF THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION LRFD BRIDGE DESIGN MANUAL, INCLUDING ALL REVISIONS OR SUPPLEMENTS TO DATE.
   - * 2012 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING LATEST INTERIMS TO DATE.
   - * THE SPECIFICATIONS ACCOMPANYING THESE PLANS.

   IN CASE OF CONFLICT, THE SPECIAL PROVISIONS OF THE SPECIFICATIONS ACCOMPANYING THESE PLANS SHALL GOVERN.
2. DIMENSIONS, STATIONS, AND ELEVATIONS ARE SHOWN TO THE NEAREST ONE-HUNDREDTH OF A FOOT OR ONE-EIGHTH OF AN INCH, EXCEPT STRUCTURAL STEEL DIMENSIONS WHICH ARE TO THE NEAREST ONE-SIXTEENTH OF AN INCH.
3. ANGLES ARE SHOWN TO THE NEAREST SECOND.
4. ALL ABUTMENTS AND WALLS ARE DRAWN LOOKING AT THE EXPOSED FACES.
5. ALL ELEVATIONS ARE REFERENCED TO NGVD 1929.
6. ANY DAMAGE TO EXISTING STATE OR PRIVATE PROPERTY CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST THE STATE.
7. THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL IN HIS FIELD YARD OR AT A SITE APPROVED BY THE ENGINEER. THE EQUIPMENT AND MATERIAL SHALL BE PLACED IN A STORAGE AREA SO AS NOT TO CAUSE A SAFETY HAZARD.
8. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTION TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS DURING ALL PHASES OF CONSTRUCTION UNTIL THE TOTAL STRUCTURE IS IN PLACE.
9. CONTRACTOR SHALL CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO STARTING THE WORK TO VERIFY LOCATIONS OF EXISTING UTILITIES.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH UTILITY COMPANIES.
11. COORDINATES USED ON THESE PLANS ARE BASED ON THE STATEWIDE COORDINATE SYSTEM, THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
12. TOPOGRAPHIC CONDITIONS WERE OBTAINED FROM AERIAL PHOTOGRAMMETRY. ACCURACY OF VERTICAL TOPOGRAPHY IS WITHIN 10% OF ONE-HALF THE CONTOUR INTERVAL.
13. FOR BENCH MARKS AND TIES SEE BIKEWAY LOCATION PLANS (VOLUME 1).
14. ALL FOOTINGS SHALL BE APPROVED BY ENGINEER AS TO DIMENSIONS, ELEVATIONS, AND SUITABILITY OF FOUNDATION MATERIAL BEFORE THE PLACING OF CONCRETE.
15. ALL WORKING POINTS ARE SHOWN AT THE CENTERLINES OF ABUTMENT BEARING, UNLESS OTHERWISE NOTED.

ADDENDUM NO. 1

DESIGN DATA

DESIGN SPECIFICATIONS:

- * THE 2010 EDITION OF STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, INCLUDING ALL REVISIONS TODATE.
- * ALL OTHER APPLICABLE DESIGN SPECIFICATIONS ARE REFERENCED IN SECTION 1 OF THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL DATED 2010.
- * THE 2007 EDITION OF THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION LRFD BRIDGE DESIGN MANUAL, INCLUDING ALL REVISIONS OR SUPPLEMENTS TO DATE.
- * 2012 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING LATEST INTERIMS TO DATE.
- * IN CASE OF CONFLICT, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL SHALL GOVERN.

LOAD MODIFIERS:

THE LOAD MODIFIERS FOR THIS PROJECT ARE AS FOLLOWS:

- * THE LOAD MODIFIER FOR DUCTILITY SHALL BE TAKEN AS 1.0 FOR ALL LIMIT STATES.
- * THE LOAD MODIFIER FOR REDUNDANCY SHALL BE TAKEN AS 1.0.
- * THE LOAD MODIFIER FOR OPERATIONAL IMPORTANCE SHALL BE TAKEN AS 1.0.

LOAD FACTORS:

ALL LOAD FACTORS SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT AS MODIFIED IN THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL

- * THE LOAD FACTOR FOR LIVE LOAD FOR THE EXTREME EVENT I SHALL BE TAKEN AS 0.0.
- * THE LOAD FACTOR FOR DEAD LOAD FOR THE EXTREME EVENT I AND EXTREME EVENT II SHALL BE TAKEN AS 1.0.
- * THE LOAD FACTOR FOR SETTLEMENT FOR ALL LIMIT STATES SHALL BE TAKEN AS 1.0

LIVE LOADS:

- * THE DESIGN LIVE LOAD SHALL BE THE AASHTO M15-44 TRUCK OR 90 PSF PEDESTRIAN LIVE LOAD NOT APPLIED SIMULTANEOUSLY. THE DYNAMIC LOAD ALLOWANCE SHALL NOT BE CONSIDERED.
- * DEFLECTIONS DUE TO DESIGN LIVE LOAD SHALL BE LIMITED TO 1/500 OF THE SPAN.
- * THE VIBRATION FREQUENCY SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF THE "LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES."

WIND LOADING DESIGN DATA:

THE WIND LOADING DESIGN SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL, AND AS MODIFIED HEREIN.

- * EXCEPT DURING CONSTRUCTION, THE DESIGN WIND PRESSURE IS BASED ON A DESIGN WIND SPEED OF 110 MPH.
- * THE DESIGN WIND PRESSURES DURING CONSTRUCTION SHALL BE AS SPECIFIED UNDER THE NOTES TITLED "GENERAL NOTES REGARDING TEMPORARY CONSTRUCTION CONDITIONS".
- * THE HORIZONTAL DEFLECTION DUE TO LATERAL WIND LOAD SHALL NOT EXCEED 1/350 OF THE SPAN.

TRAFFIC DATA:

N/A – PEDESTRIAN BRIDGE

THERMAL DESIGN FORCE DATA:

UNIFORM TEMPERATURE EFFECTS HAVE BEEN TAKEN INTO CONSIDERATION IN ACCORDANCE WITH THE PROCEDURE B OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE MINIMUM DESIGN TEMPERATURE SHALL BE -10 DEGREES F, AND THE MAXIMUM TEMPERATURE SHALL BE 105 DEGREES F.

SEISMIC DESIGN DATA:

N/A – PEDESTRIAN BRIDGE

HYDRAULIC DATA:

DESIGN FLOW DRAINAGE AREA	368.0 SQ. MI.
FLOODWAY WIDTH	158.0 FEET
100 YEAR FLOOD EL.	158.0 (NGVD 1929) 157.0 (NAVD 1988)
MEAN VELOCITY	8.0 F.P.S.

FOUNDATION DESIGN DATA:

DEEP FOUNDATIONS:

THE FACTORED AXIAL UPLIFT RESISTANCE FOR THE VARIOUS DEEP FOUNDATION TYPES ARE AS FOLLOWS:

		FACTORED UPLIFT RESISTANCE (KIPS)	
LOCATION	PILE TYPE	STRENGTH LIMIT STATES	EXTREME LIMIT STATES
ABUTMENTS AND RETURN WALLS	HP14x73	35	70

* PILES WILL BE DRIVEN TO A FACTORED RESISTANCE EQUAL OR GREATER THAN THE FACTORED PILE DEMAND VALUES INDICATED BELOW.

		FACTORED AXIAL RESISTANCE (KIPS)*			
		GEOTECHNICAL		STRUCTURAL	
LOCATION	PILE TYPE	STRENGTH LIMIT STATES	EXTREME/SERVICE LIMIT STATES	STRENGTH LIMIT STATES	EXTREME/SERVICE LIMIT STATES
ABUTMENTS AND RETURN WALLS	H-PILE	270	215	370	745

* THE FACTORED DESIGN AXIAL RESISTANCE AT EACH LOCATION IS THE LESSER VALUE OF THE FACTORED GEOTECHNICAL AND THE FACTORED STRUCTURAL RESISTANCES INDICATED.
* THE FACTORED GEOTECHNICAL AXIAL RESISTANCE FOR THE STRENGTH LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE USING THE NORDLUND METHOD AND A RESISTANCE FACTOR OF 0.65.
* THE FACTORED GEOTECHNICAL AXIAL RESISTANCE FOR THE EXTREME LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE USING THE NORDLUND METHOD AND A RESISTANCE FACTOR OF 1.00.
* THE FACTORED GEOTECHNICAL UPLIFT RESISTANCE FOR THE STRENGTH LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE USING THE NORDLUND METHOD AND A RESISTANCE FACTOR OF 0.50.
* THE FACTORED GEOTECHNICAL UPLIFT RESISTANCE FOR THE EXTREME LIMIT STATE IS BASED ON THE NOMINAL AXIAL RESISTANCE USING THE NORDLUND METHOD AND A RESISTANCE FACTOR OF 1.00.

REVISIONS		
NO.	DATE	BY
1	06/13/17	VHB

vhb PROVIDENCE, RHODE ISLAND

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

WOONSOCKET TO N. SMITHFIELD

JOB SPECIFIC
GENERAL NOTES 1

CHECKED BY _____ DATE _____ SCALE _____

0021U_V2_003_JSBRGNOT001_ADD01

STRUCTURAL STEEL NOTES

1. FRAMING DIMENSIONS ARE GIVEN ALONG CENTERLINES OF GIRDERS AND ALONG CENTERLINES OF BEARINGS ON ABUTMENTS. THE FABRICATOR IS RESPONSIBLE FOR INCORPORATING THE CAMBER, CROSS SLOPE, AND OTHER EFFECTS THAT MAY IMPACT THE OVERALL GIRDER LENGTHS, DIMENSIONS AND/OR THE DETAILING.

2. THE SHOPS FABRICATING THE STRUCTURAL STEEL (EXCEPT FOR EXPANSION JOINTS, RAILINGS AND BEARINGS), MUST BE CERTIFIED FOR "MAJOR STEEL BRIDGES (CBR)" IN ACCORDANCE WITH THE AISC QUALITY CERTIFICATION PROGRAM OR EQUIVALENT. SHOPS FABRICATING THE EXPANSION JOINTS, RAILINGS AND BEARINGS SHALL, AT A MINIMUM, BE CERTIFIED FOR "SIMPLE STEEL BRIDGE STRUCTURES (SBR)".

   THE SHOPS SHALL ALSO BE CERTIFIED UNDER THE AISC "SOPHISTICATED PAINT ENDORSEMENT (SPE)" QUALITY PROGRAM OR THE SSPC-QP3 PAINT CERTIFICATION PROGRAM.

   THE FABRICATOR MUST SUBMIT PROOF OF CURRENT CERTIFICATION AS SPECIFIED.

3. THE STEEL ERECTOR/CONTRACTOR FOR THIS PROJECT SHALL BE CERTIFIED FOR "ADVANCED CERTIFIED STEEL ERECTOR (ASCE)" IN ACCORDANCE WITH THE AISC QUALITY CERTIFICATION PROGRAM. THE ERECTOR/CONTRACTOR OF THE STRUCTURAL STEEL SHALL BE REQUIRED TO SUBMIT PROOF OF CURRENT CERTIFICATION AS SPECIFIED, INCLUDING THE QUALITY CONTROL PLAN AND SAFETY PLAN THAT IS REQUIRED TO OBTAIN THE CERTIFICATION.

4. FRACTURE CRITICAL MEMBERS (FCM) IF ANY, SHALL BE DESIGNATED ON THE PREFABRICATED TRUSS SHOP DRAWING BY THE FABRICATOR.

5. SHOP DRAWINGS FOR ALL FABRICATED STEEL INCLUDING BEARINGS, EXPANSION JOINTS, RAILINGS AND FALSEWORK SHALL BE SUBMITTED TO THE ENGINEER IN SUFFICIENT TIME TO PERMIT CAREFUL CHECKING PRIOR TO FABRICATION.

6. INSPECTION OF WELDS INCLUDING RADIOGRAPHIC TESTING (RT) AND MAGNETIC PARTICLE TESTING (MT) SHALL BE IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS AND THE AASHTO/AWS BRIDGE WELDING CODE, EXCEPT THAT THE REMAINING PERCENTAGE OF ALL GROOVE WELDS NOT RT TESTED SHALL BE MT.

7. STRUCTURAL STEEL SHAPES AND PLATES FOR TRUSSES SHALL CONFORM TO THE LATEST PROVISIONS OF AASHTO DESIGNATION M 270, GRADE 50, AS DESIGNATED ON THE PLANS. STRUCTURAL STEEL TUBULAR MEMBERS FOR TRUSSES SHALL CONFORM TO ASTM DESIGNATION A 500 (GRADE C). UNLESS OTHERWISE NOTED ALL STRUCTURAL STEEL SHALL BE GRADE 50.

8. STRUCTURAL STEEL SHAPES AND PLATES FOR RAILING SHALL CONFORM TO THE LATEST PROVISIONS OF AASHTO DESIGNATION M 270, GRADE 36, AS DESIGNATED ON THE PLANS. STRUCTURAL STEEL TUBULAR MEMBERS FOR RAILING SHALL CONFORM TO ASTM DESIGNATION A 500 (GRADE B).

9. ALL AASHTO M 270 STRUCTURAL STEEL USED IN GIRDERS (INCLUDING CONNECTION PLATES AND STIFFENERS), SHALL MEET THE ZONE 2 CHARPY V-NOTCH FRACTURE TOUGHNESS TEST REQUIREMENTS AS SPECIFIED IN TABLE 6.6.2-2 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR "NONFRACTURE-CRITICAL" COMPONENTS. THE ZONE 2 FRACTURE TOUGHNESS REQUIREMENTS ARE AS FOLLOWS:

   NONFRACTURE-CRITICAL

GRADE 36	15 FT-LBS @ 40°F (UP TO 4 INCHES THICK)
GRADE 50	15 FT-LBS @ 40°F (UP TO AND INCLUDING 2 INCHES THICK)
GRADE 50	20 FT-LBS @ 40°F (FROM 2 INCHES THICK UP TO AND INCLUDING 4 INCHES THICK)

   FRACTURE-CRITICAL

GRADE 36	25 FT-LBS @ 40°F (UP TO 4 INCHES THICK)
GRADE 50	25 FT-LBS @ 40°F (UP TO AND INCLUDING 2 INCHES THICK)
GRADE 50	30 FT-LBS @ 40°F (FROM 2 INCHES THICK UP TO AND INCLUDING 4 INCHES THICK)

   SAMPLING AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO T243. THE FREQUENCY OF TESTING SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

   THE CHARPY V-NOTCH FRACTURE TOUGHNESS TEST REQUIREMENT IS NOT MANDATORY FOR THE FOLLOWING STEEL COMPONENTS:

   - BEARINGS, MASONRY PLATES AND SOLE PLATES
   - EXPANSION JOINTS SYSTEMS
   - DRAINAGE MATERIAL
   - RAILINGS
   - FOUNDATION MICROPILES, H-PILES AND PIPE PILES
   - SUPPORT OF EXCAVATION COMPONENTS

10. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST STRUCTURAL WELDING CODE AASHTO/AWS D1.1 (PREFABRICATED TRUSS, ORNAMENTAL RAILING) AND D1.5 (ALL OTHERS) AND APPLICABLE SUPPLEMENTAL AWS PUBLICATIONS.

11. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325, TYPE 1, AND SHALL BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH ASTM B695 CLASS 50. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 824 OF THE RI STANDARD SPECIFICATIONS. ALL NUTS AND WASHERS SHALL BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH M05.04.4 OF THE RI STANDARD SPECIFICATIONS. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL CONNECTIONS ARE "SLIP CRITICAL" WITH CLASS B SURFACE CONDITIONS.

12. WASHERS MEETING AASHTO DESIGNATION M 293 (ASTM F436, TYPE 1) ARE TO BE USED OVER ALL HOLES THAT ARE MORE THAN $\frac{1}{16}$" IN DIAMETER GREATER THAN THE BOLT DIAMETER AND UNDER ALL PARTS TURNED DURING ASSEMBLY.

13. WELDING ELECTRODES SHALL HAVE THE SAME CORROSION RESISTANCE AS THE BASE METAL AND SHALL BE FREE OF MOISTURE AT THE TIME OF USE.

14. UNLESS OTHERWISE SPECIFIED, STRUCTURAL STEEL SHALL BE PREPARED AND PAINTED IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS.

ADDENDUM NO. 1

STRUCTURAL STEEL NOTES (CONTINUED)

15. PRIOR TO FABRICATION, ALL MATERIALS SHALL BE BLAST-CLEANED TO AT LEAST SSPC-SP6 TO REMOVE ALL OIL, DIRT, GREASE, MILL SCALE AND OTHER DELETERIOUS MATERIALS FROM THE SURFACES OF THE STEEL TO BE FABRICATED.

16. PRIOR TO SHOP COATING AS SPECIFIED IN SECTION 825 OF THE RI STANDARD SPECIFICATIONS, ALL CORNERS AND EDGES OF STEEL WHICH HAVE BEEN FLAME CUT OR OTHERWISE HARDENED SHALL BE SOFTENED BY GRINDING OR BLAST-CLEANING TO PROVIDE A SURFACE SUITABLE FOR APPLICATION OF THE SPECIFIED PAINT SYSTEM.

17. WELDING OF ATTACHMENTS TO GIRDER FLANGES OR WEBS FOR CONSTRUCTION PURPOSES IS NOT PERMITTED EXCEPT WHEN APPROVED BY THE ENGINEER.

18. THE ENDS OF ALL GIRDERS SHALL BE VERTICAL AFTER ALL DEAD LOADS HAVE BEEN PLACED.

19. INTERMEDIATE STIFFENERS SHALL BE PLACED ON THE INTERIOR SIDE OF THE FASCIA PLATE GIRDER WEBS AND ON BOTH SIDES OF ALL INTERIOR PLATE GIRDER WEBS.

20. BEARING STIFFENERS SHALL BE FABRICATED AS SHOWN ON THE PLANS AND SHALL BE PLACED ON BOTH SIDES OF ALL PLATE GIRDER WEBS.

21. INTERMEDIATE STIFFENERS AND CONNECTION PLATES SHALL BE SET PERPENDICULAR TO THE FLANGES OF THE GIRDERS.

22. END BEARING STIFFENERS AT GIRDER ENDS SHALL BE PLUMB.

23. BOLTED CONNECTIONS SHALL BE DESIGNED AS SLIP-CRITICAL CONNECTIONS. THE FAYING SURFACES SHALL SATISFY CLASS B SURFACE CONDITION AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

24. THE TRUSSES SHALL BE CAMBERED TO THE AMOUNTS SHOWN ON THE PLANS. THE FABRICATOR'S SHOP DRAWINGS SHALL INCLUDE, IN ADDITION TO ANY CUTTING OR CAMBER DIAGRAMS NECESSARY FOR THEIR PURPOSES, A SHOP ASSEMBLY DIAGRAM WHICH PROVIDES CAMBER OFFSETS CALCULATED BY THE FABRICATOR AT THE REFERENCE POINTS PROVIDED BY THE ENGINEER (USUALLY TENTH POINTS OF THE SPAN). THE INFORMATION PROVIDED SHALL BE SUFFICIENT ENOUGH FOR THE ENGINEER TO EVALUATE WHETHER THE CAMBER HAS BEEN CORRECTLY INTERPRETED.

   AT THE TIME AND PLACE OF ERECTION, TRUSSES SHALL HAVE THE REQUIRED AMOUNT OF CAMBER. THE ERECTED VERTICAL ALIGNMENT (CAMBER) SHALL NOT DEVIATE FROM THE THEORETICAL ERECTED VERTICAL ALIGNMENT BY MORE THAN FOLLOWING: -0, $+\frac{1}{4}$" x (TOTAL LENGTH, IN FEET, FROM THE NEAREST SUPPORT)/10. THE MAXIMUM DEVIATION IS $1\frac{1}{2}$" BETWEEN SUPPORTS.

25. ALL SHOP CONNECTIONS AND SPLICES SHALL BE WELDED. WELDING PROCEDURES AND TECHNIQUES TO BE USED IN FABRICATION AND ERECTION OF THE GIRDERS SHALL BE AS SHOWN ON THE SHOP DRAWINGS AND SHALL INCORPORATE THE FOLLOWING:

   - BOTH FLANGES AND THE WEB SHALL BE COMPLETELY FABRICATED FOR THEIR ENTIRE LENGTHS BEFORE THE WELDING OF THE FLANGES TO THE WEB IS PERFORMED.
   - ALL WEB AND FLANGE SPLICES OTHER THAN THOSE SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER. ALTERNATE OR ADDITIONAL SPLICES ARE TO BE LOCATED AND DESIGNED BY THE FABRICATOR AND SHOWN ON THE SHOP DRAWINGS. THESE SPLICES ARE TO FULLY DEVELOP THE STRENGTH OF THE WEB AND FLANGE PLATES. WEB SPLICES, IF USED, SHALL BE LOCATED 2'-0" MINIMUM FROM ANY STIFFENER.
   - NO MORE THAN TWO SHOP WEB SPLICES WILL BE PERMITTED BETWEEN FIELD SPLICES. SPLICING OF GIRDERS BY FIELD WELDING WILL NOT BE PERMITTED.

26. NO SHOP FILLET WELD SHALL BE LESS THAN $\frac{1}{4}$".

27. WHEN STEEL DIE STAMPS ARE USED TO IDENTIFY PIECES AND MEMBERS, FABRICATORS SHALL UTILIZE LOW STRESS STAMPS.

28. FOR SIZE AND LOCATION OF ANCHOR BOLTS, SEE ABUTMENT AND BEARING DRAWINGS.

29. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXPANSION JOINT SYSTEM PROVIDED WILL BE COMPATIBLE WITH BOTH THE END OF DECK HAUNCHES AND/OR THE STRUCTURAL STEEL FRAMING CONFIGURATION. THAT IS, THE EXPANSION JOINT SYSTEM AND ALL ITS INHERENT COMPONENTS AND ATTACHMENT DEVICES SHALL BE SIZED OR ARRANGED TO BE COMPATIBLE WITH THE GIRDER AND DIAPHRAGM FLANGES, CONNECTION PLATES, BOLTS, SHEAR STUDS AND REINFORCING STEEL THAT SHARE THE END HAUNCH REGION.

30. THE DESIGN OF THE STRUCTURE IS BASED ON THE SELF-WEIGHT OF THE STRUCTURAL STEEL IN ITS COMPLETELY ERECTED CONFIGURATION ONLY. DEFLECTION INCURRED DURING THE VARIOUS STAGES OF THE ERECTION PROCESS ARE NOT CONSIDERED. THEREFORE, THE ACTUAL ERECTION METHODS AND SEQUENCES EMPLOYED BY THE CONTRACTOR MAY HAVE A SUBSTANTIAL EFFECT ON (1) THE TOTAL STRESS, I.E. THE DESIGN PLUS ERECTION STRESS, AND/OR (2) THE STEEL PROFILE AS ERECTED. THE CONTRACTOR SHALL SUBMIT AN ERECTION PROCEDURE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 824.03.1D ERECTION, OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE CALCULATIONS FOR ALL PHASES AND ERECTION CONDITIONS WHICH DEMONSTRATE THAT THE ALLOWABLE STRESSES ARE NOT EXCEEDED AND THAT THE GEOMETRY AS ERECTED (HORIZONTAL AND VERTICAL) WILL BE CONSISTENT WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ANY CORRECTIVE WORK NECESSARY TO REPOSITION PREVIOUSLY ERECTED STEEL TO ACHIEVE ACCEPTABLE ALIGNMENT AND PROFILE MUST BE APPROVED BY THE ENGINEER AND SHALL BE PERFORMED AT NO EXTRA COST TO THE STATE.

R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			5	20

SHOP DRAWING SUBMITTALS

1. PREFABRICATED TRUSS
2. CONCRETE: MIX DESIGNS, PLACING, METHODS, EQUIPMENT, CURING PLAN AND METHODS, PERSONNEL RESOURCES
3. REINFORCING STEEL, SPLICES AND INSERTS
4. STRUCTURAL STEEL
5. BRIDGE BEARING ASSEMBLY
6. BRIDGE NAME/SEAL TABLETS
7. FIXED AND EXPANSION JOINT ASSEMBLIES
8. CONCRETE SUBCONTRACTOR'S QUALIFICATIONS AND EXPERIENCE
9. STRUCTURAL COMPUTATIONS
10. DETAILED SEQUENCE OF WORK
11. FOUNDATION PILES; INSTALLATION AND LOAD TESTING PROCEDURES, EQUIPMENT AND DETAIL INCLUDING WEAP ANALYSIS
12. PILE POINTS AND SPLICES
13. EARTH SUPPORT SYSTEMS/COFFERDAMS (SHEETING, ETC.)
14. TEMPORARY PROTECTION SHIELDS FOR CONSTRUCTION
15. ARCHITECTURAL TREATMENTS (SPECIAL FORMLINERS, ETC.)
16. CONCRETE FORMS; STAY-IN-PLACE, SPECIALTY FORMWORK
17. ERECTION PROCEDURES (INCLUDING STEEL ERECTOR'S QUALITY CONTROL PLAN); EQUIPMENT (TYPE/SIZE AND PLACEMENT), DETAILED SEQUENCE OF WORK
18. BRIDGE AND APPROACH RAILINGS
19. PAINTING
20. WELDING PROCEDURES; WELD SPLICES
21. DEWATERING

NECESSARY SUBMITTALS MAY NOT BE LIMITED TO THE ABOVE LIST AND MAY REQUIRE OTHER SUBMITTALS AT THE RESIDENT ENGINEER'S REQUEST FOR; SHOP DRAWINGS, CERTIFICATE OF COMPLIANCE, PRODUCT INFORMATION, CATALOG CUTS, TEST DATA OR OTHER.

REVISIONS		
NO.	DATE	BY
1	06/13/17	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

WOONSOCKET TO N. SMITHFIELD

JOB SPECIFIC
GENERAL NOTES 3

CHECKED BY _____ DATE _____ SCALE _____

vhb PROVIDENCE, RHODE ISLAND

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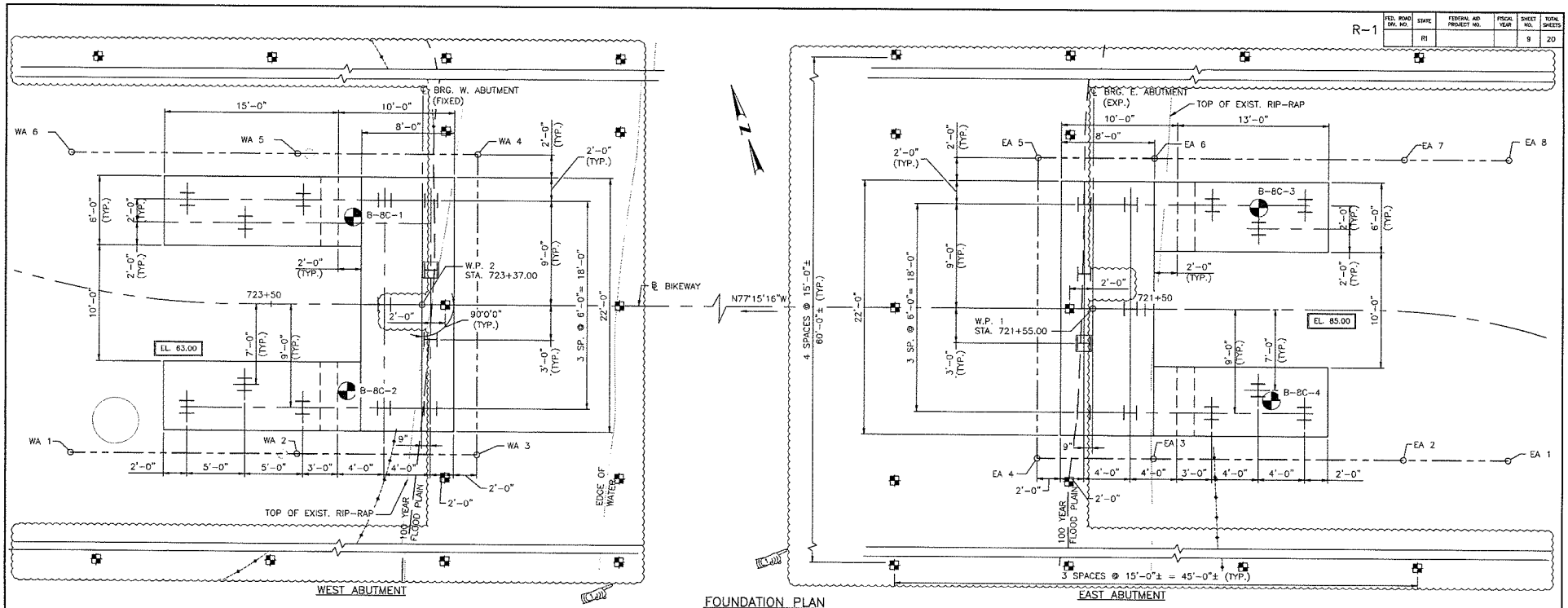


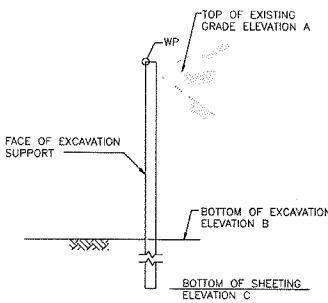
WEST ABUTMENT

FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

EAST ABUTMENT

SOE GENERAL CONSTRUCTION NOTES

1. ALL SOE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 203 "STRUCTURE EXCAVATION AND BACKFILL" AND SECTION 805 "EARTH RETAINING SYSTEMS" OF THE RIDOT STANDARD SPECIFICATIONS.
2. EXCAVATION BELOW THE ELEVATIONS SHOWN IN TABLES WILL NOT BE ALLOWED, UNLESS DIRECTED BY THE ENGINEER.
3. INTERPOLATION BETWEEN CONSECUTIVE BOTTOM OF SHEETING ELEVATIONS IS PERMITTED ALONG SLOPING GROUND. SHEETING SHALL EXTEND BELOW THE INTERPOLATED LINE.
4. ALL SOE WILL BE TEMPORARY SHEETING (ABANDONED IN PLACE) SHALL BE INSTALLED TO THE ELEVATIONS GIVEN IN THE S.O.E. ELEVATIONS TABLE. THE SHEETING SHALL BE CUT OFF A MINIMUM OF 1'-6" BELOW THE TOP OF FINISHED GRADE UNLESS OTHERWISE INDICATED DURING ABUTMENT BACKFILL OPERATIONS.
5. ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE EXCAVATION LIMITS AND REPLACED WITH SUITABLE FILL, AS DIRECTED BY THE ENGINEER.
6. CONTRACTOR SHALL CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO STARTING THE WORK TO VERIFY LOCATIONS OF EXISTING UTILITIES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH UTILITY COMPANIES.
8. SOE HAS BEEN DESIGNED WITH A CONSTRUCTION SURCHARGE OF 400 PSF IN ACCORDANCE WITH RIDOT LRFD BRIDGE MANUAL.
9. EXTREME CAUTION SHOULD BE TAKEN WHEN OPERATING CONSTRUCTION EQUIPMENT AROUND THE SOE.
10. THE MAXIMUM ALLOWABLE SOE DISPLACEMENT AT GROUND SURFACE AFTER PRELOADING SHALL BE 1 INCH.
11. SHEET PILING SHALL BE INSTALLED WITH A HIGH FREQUENCY VIBRATORY HAMMER.
12. SHEETING SHALL BE ASTM A572, GR 50 AND SECTION CAPACITY SHALL BE EQUIVALENT OR GREATER THAN PZ-40.



TYPICAL SOE SECTION
NOT TO SCALE

EAST ABUTMENT S.O.E. ELEVATION TABLE

LOCATION			CONSTRUCTION ELEVATIONS (FT)		
WORKING POINT	STATION	OFFSET (FT)	A	B	C
EA 1	721+15.63	11.19 LT.	165.00±	155.00	143.00
EA 2	721+27.30	12.90 LT.	165.00±	152.50	138.00
EA 3	721+49.74	13.00 LT.	162.00±	151.50	138.00
EA 4	721+59.74	13.00 LT.	158.00±	151.50	142.00
EA 5	721+59.74	13.00 RT.	158.00±	151.50	142.00
EA 6	721+49.74	13.00 RT.	162.00±	151.50	138.00
EA 7	721+28.80	13.06 RT.	165.00±	152.50	138.00
EA 8	721+21.76	14.08 RT.	165.00±	155.00	143.00

WEST ABUTMENT S.O.E. ELEVATION TABLE

LOCATION			CONSTRUCTION ELEVATIONS (FT)		
WORKING POINT	STATION	OFFSET (FT)	A	B	C
WA 1	723+64.84	14.26 LT.	159.00±	152.50	146.00
WA 2	723+47.74	13.00 LT.	159.00±	152.50	142.00
WA 3	723+32.24	13.00 LT.	159.00±	152.50	142.00
WA 4	723+32.24	13.00 RT.	159.00±	151.50	142.00
WA 5	723+47.74	13.00 RT.	159.00±	152.50	142.00
WA 6	723+70.18	11.18 RT.	159.00±	152.50	146.00

LEGEND

- B-8C-X BORING LOCATION
- PROPOSED STEEL HP 14x73 PILE
- PROPOSED STEEL HP 14x73 INDICATOR PILE
- PROPOSED SURFACE MONITORING POINT
- FACE OF TEMPORARY S.O.E. ABD. IN PLACE
- EL. XX.XX — ESTIMATED PILE TIP ELEVATION (FOR ESTIMATING PURPOSES ONLY)

ADDENDUM NO. 1

vhb PROVIDENCE, RHODE ISLAND

REVISIONS		
NO.	DATE	BY
1	06/13/17	VHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BLACKSTONE RIVER BIKEWAY
SEGMENT 8C

WOONSOCKET TO N. SMITHFIELD

FOUNDATION AND PILE PLAN

CHECKED BY _____ DATE _____ SCALE _____

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R-1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			9	20