

April 14, 2016

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7550450

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2016-CB-030

FEDERAL-AID PROJECT NO. FAP Nos: BRO-0471(002)

Improvements to I-195 Superstructure Replacment of Paw. Ave. Br.471

Pawtucket Avenue Bridge No. 471

CITY/TOWN OF East Providence, Barrington

COUNTY OF PROVIDENCE, BRISTOL

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. Substantial Completion Date
Substantial Completion Date updated to "08/31/2017".
2. Bid Opening Date
Bid Opening Date updated to "05/06/2016".

B. Proposal Pages

1. Proposal Page Numbers P-21 and P-22
Remove and replace Proposal Pages P-21 and P-22 in their entirety and replace with revised Proposal Page P-21(Revision-1) and P-22(Revision-1) attached to this Addendum No. 1. The Substantial Completion Date and Bid Opening Date have been updated.

C. General Provisions - Contract Specific

1. Page CS-11
Remove and replace page CS-11 in its entirety with revised page CS-11(R-1) attached to this Addendum No. 1. The Notice to Contractors has been revised.

2. Page CS-12
Remove and replace page CS-12 in its entirety with revised page CS-12(R-1) attached to this Addendum No. 1. The Notice to Contractors has been revised.
3. Page CS-15
Remove and replace page CS-15 in its entirety with revised page CS-15(R-1) attached to this Addendum No. 1. The Sequence of Construction and Schedule has been revised.
4. Page CS-16
Remove and replace page CS-16 in its entirety with revised page CS-16(R-1) attached to this Addendum No. 1. The Sequence of Construction and Schedule has been revised.
5. Transportation Management Plan - Attachment A
Remove and replace Attachment A in its entirety with revised page (R-1) attached to this Addendum No. 1. "Attachment A: Lane Closure Limitations" has been revised to require detour of Pawtucket Avenue during crossover weekends.

D. Specifications - Job Specific

1. Page JS-8
Remove page JS-8 in its entirety and replace with revised page JS-8(R-1) attached to this Addendum No. 1. Item Code 108.1000 has been revised.
2. Page JS-9
Remove and replace page JS-9 in its entirety with revised page JS-9(R-1) attached to this Addendum No. 1. Item Code 108.11 has been revised.
3. Page JS-9A
Insert page JS-9A attached to this Addendum No. 1. Item Code 108.11 has been revised and extends onto this page.
4. Page JS-10
Remove and replace page JS-10 in its entirety with revised page JS-10(R-1). Item Code 108.12 has been deleted.
5. Pages JS-78 and JS-79
Remove and replace pages JS-78 and JS-79 in their entirety with revised pages JS-78(R-1) and JS-79 (R-1) attached to this Addendum No. 1. Section 810 has been revised.
6. Page JS-96
Remove page JS-96 in its entirety and replace with revised page JS-96(R-1) attached to this Addendum No. 1. Item Code 937.1000 has been revised.

E. Plans

1. VOLUME 1 SHEET 1 - TITLE SHEET
Delete Sheet 1 in its entirety and replace it with Sheet 1 (R-1) attached to this Addendum No. 1. This sheet has been revised.

2. VOLUME 2 SHEET 1 - TITLE SHEET

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

3. VOLUME 2 SHEET 6 - GENERAL BRIDGE NOTES SHEET 2 OF 3

Delete Sheet 6 in its entirety and replace it with Sheet 6 (R-1) attached to this Addendum No. 1. This sheet has been revised.



RI Department of Transportation
Chief Engineer

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2016-CB-030

Federal-Aid Project Number(s): BRO-0471(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
Advertise Date	March 31, 2016
Pre-Bid Date	April 15, 2016
Bid-Opening Date	May 6, 2016
Substantial Completion Date	August 31, 2017

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

ADDENDA	DATE POSTED	DOCUMENT(S)	PAGE
NO.1		1. Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements	1
		2. Anti-Collusion Certificate	2
		4. DBE Affirmative Action Certification	3 - 9
		3. Disclosure of Lobbying Activities	

Total or gross sum of bid for Rhode Island Contract Number: 2016-CB-030

Federal-Aid Project Number(s): BRO-0471(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 acceptability of my bid(s).

Name of Signatore - Title

Date

The following items are hereby designated as “Specialty Items”

1. Pavement Markings
2. Guardrail
3. Structural Steel
4. Chain Link Fence
5. Signal Timing Modification
6. Electrical
7. Sign Panels
8. Sign Structure
9. Paving
10. Bridge Bearings

5. NOTICE TO CONTRACTORS

1. Due to the use of ABC method of delivery for this project, the contractor attention is directed to the following activities, among others, anticipated as being on the Critical Path for Project completion:
 - Submittal, reviewing and approval of all prefabricated Superstructure Modular Units SMUs as well as the substructure Precast Concrete Elements PCEs
 - Fabrication of the SMUs, as well as the PCEs.
 - Critical submittals are flagged as structural steel fabrication and erection shop drawings, reinforcing steel, concrete mix, as well as bearing assemblies.
 - Critical submittals will be reviewed by the Engineer and returned to the Contractor for appropriate action within fourteen (28) calendar days of submission.
2. The Contractor shall not be permitted to close the two westerly lanes of Pawtucket Avenue to traffic or start any demolition activities prior to complete fabrication of all SMUs and PCEs, including all construction material and equipment required for the construction of the new bridge.
3. Once the Engineer’s approval is granted to proceed with Stage 1, the Contractor will be permitted to close the two westerly lanes of Pawtucket Avenue in accordance with the Contract Documents to begin the Stage 1 Demolition and Construction work.
4. The Contractor shall provide a storage/laydown site for storing the prefabricated bridge elements at the Contractors own expense. The Contractor shall submit the location of the storage/laydown site for review and approval to the Department prior to the commencement of work. Compensation for out of state inspection service shall be in accordance with RI Standard Specifications Section 809.

4A. The Contractor's attention is directed to the following contract milestones;

Milestone
#1 - Interim Completion Date #1 – Full Bridge Open to Traffic
#2 - Interim Completion Date #2 – All I-195 Lanes Open Traffic
#3 - Substantial Completion

- Milestone #1 is defined as the completed bridge structure with all lanes on Pawtucket Avenue open to all traffic.
 - Milestone #2 is defined as all lanes on I-195 (including shoulders) open to traffic
 - Milestone #3 is defined as Substantial Completion per specification 101.71 and including all of the Works of the Bridge, final striping as well as Pawtucket Avenue and I-195 work.
5. The Contractor shall furnish the Engineer with time-lapse high end imaging documenting all of the construction activities starting with Stage 1 demolition and ending with the completion of Milestone #2.
 6. The Contractor must provide all of the required detours in accordance with the TMP during the staged construction of the Pawtucket Avenue Bridge 471.
 7. Due to the nature of the ABC project delivery method, NO winter shutdown is allowed.
 8. The Contractor is reminded of the ABC nature of this contract and shall note specification "105.02 Plans and Shop Drawings". The Contractor shall submit duplicate Shop Drawings (two copies per submittal) directly to the attention of the Consulting Engineer (Louis Berger, 117 Kendrick Street, Suite #400, Needham, MA 02494, Attn: Phineas Fowler, PE) simultaneously with each of his official submittals to the Department.
 9. The Contractor shall submit Requests for Information (RFI) through the RIDOT's Project Management Portal.
 10. Strict adherence to the regulatory agencies' permit requirements is mandatory.
 11. The Department has obtained all necessary permits to build the job as shown in the contract documents. Proposals by the Contractor which require modifications to the permits shall be at the Contractor's expense.
 12. The Contractor shall coordinate through RIDOT if modification is required for any permit that is included in this Contract.
 13. Approval of the work schedule and time schedule by the Department is required before the start of any construction or other work associated with this contract.
 14. The Contractor shall notify the Department in writing at least fourteen (14) days in advance of any intended lane restrictions and/or closures so that adequate public notice can be given. Upon the Engineer's approval, the Contractor shall coordinate the required traffic control.

- Pawtucket Ave Traffic Control and Mobilization, Implement Pawtucket Ave Traffic Control Plan (TCP) Stage 1.
- Switch Traffic to East Side of Bridge
- Pawtucket Ave Pre-Demolition Activities Stage 1, Saw Cut Existing Pavement and Concrete Deck.
- I-195 Pre-Demolition Activities -Set up Stage 1C traffic control on I-195.
- Stage 1A. Demolition of Northwest Superstructure during weekend crossovers.
- Stage 1B. Demolition of Southwest Superstructure during weekend crossovers.
- Revert back to Stage 1C. Demolition of West Pier Cap, Columns, and Footings, Construction of West Pier Footings, Construction of West Pier Column, Construction of West Pier Cap. Closure Pour for Pier Cap and between Pier Footings.
- Stage 1D. Demolition of Northwest and Southwest Abutment Caps and Wingwalls, Construction of Northwest and Southwest Abutment Caps and Wingwalls, Backfill, Install Gas Pipe at Approaches, Utilities, Roadway work.
- Stage 1E. Place Northwest Superstructure during weekend crossovers.
- Stage 1F. Place Southwest Superstructure during weekend crossovers.
- Stage 1G. Place Longitudinal Closure Pours for Northwest and Southwest Superstructures and End Closure Pours. Place closure pour between Northwest and Southwest Superstructures. Place Sidewalk Closure Pour. Place Superstructure Parapet Closure Pours. Transfer Gas Service over West Superstructure. Install Protective Screen (Fence) at Parapet. Install Wearing Surface and Striping.
- Completion of Stage 1.

Stage 2

- Pawtucket Ave Traffic Control and Mobilization, Implement Pawtucket Ave Traffic Control Plan (TCP) Stage 2.
- Switch Traffic to West Side of Bridge
- Pawtucket Ave Pre-Demolition Activities Stage 2.
- I-195 Pre-Demolition Activities -Set up Stage 2C traffic control on I-195.
- Stage 2A. Demolition of Northeast Superstructure during weekend crossovers.
- Stage 2B. Demolition of Southeast Superstructure during weekend crossovers.
- Revert back to Stage 2C. Demolition of East Pier Cap, Columns, and Footings. Construction of East Pier Footings, Construction of East Pier Column, Construction of East Pier Cap. Closure Pour for Pier Cap and between Pier Footings.
- Stage 2D. Demolition of Northeast and Southeast Abutment Caps and Wingwalls. Construction of Northeast and Southeast Abutment Caps and Wingwalls, Backfill, Utilities, Roadway Work.
- Stage 2E. Place Northeast Superstructure during weekend crossovers.
- Stage 2F. Place Southeast Superstructure during weekend crossovers.
- Stage 2G. Place Longitudinal Closure Pours for Northeast and Southeast Superstructures and End Closure Pours. Place Closure Pour between Northeast and Southeast

Superstructures. Place Sidewalk Closure Pour. Place Superstructure Parapet Closure Pours. Transfer Gas Service over West Superstructure. Install Protective Screen (Fence) at Parapet. Install Wearing Surface and Striping.

- Completion of Stage 2.
- Interim Completion #1: Open Full Bridge to Traffic
- Interim Completion #2: Complete Concrete Surface Repair at Abutments and Wingwalls.
- Substantial Completion:

7. LUMP SUM BID ITEMS

The Contractor shall note that numerous bridge items on this project are paid for on a lump sum basis or are included for payment under other lump sum item(s). In general these include but are not limited to:

- The construction of the new Bridge 471 superstructure in its entirety.
- The construction of the new Bridge 471 substructure to the limits shown on plans.
- The removal and disposal of the existing Bridge 471 superstructure in its entirety.
- The removal and disposal of the existing Bridge 471 substructure to the limits shown on plans.

8. TRANSPORTATION MANAGEMENT PLAN

Included as an appendix (Appendix B) to these Contract Specific General Provisions is the Transportation Management Plan (TMP) for this project. The TMP lays out the set of coordinated transportation management strategies that will be used to manage the work zone safety and mobility impacts of this project. In the event of a discrepancy between information in the TMP and information elsewhere in the Contract Documents, the former shall govern.

The Department's latest Training Guidelines for Personnel Responsible for Work Zone Safety & Mobility are available under the "Training" section at

<http://www.dot.ri.gov/business/contractorsandconsultants.php>

9. ENVIRONMENTAL PERMITS

Environmental Permits required for this project are on the following pages:

Appendix C: Storm Water Pollution Prevention Plan (SWPPP)

10. COORDINATION WITH OTHER CONTRACTS

ATTACHMENT A: LANE CLOSURE LIMITATIONS
I-195 BRIDGE 471
EAST PROVIDENCE

MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC									
Location	TIME OF DAY		DAY OF WEEK						
	From	To	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
I-195 EASTBOUND	0:00:00	6:00:00	2L	2L	2L	2L	2L	2L	2L
	6:00:00	9:00:00	3L	3L	3L	3L	3L	3L	3L
	9:00:00	15:00:00	3L	3L	3L	3L	3L	3L	3L
	15:00:00	19:00:00	3L	3L	3L	3L	3L	3L	3L
	19:00:00	24:00:00	2L	2L	2L	2L	2L	2L	2L
I-195 WESTBOUND	0:00:00	6:00:00	2L	2L	2L	2L	2L	2L	2L
	6:00:00	9:00:00	3L	3L	3L	3L	3L	3L	3L
	9:00:00	15:00:00	3L	3L	3L	3L	3L	3L	3L
	15:00:00	21:00:00	3L	3L	3L	3L	3L	3L	3L
	21:00:00	24:00:00	2L	2L	2L	2L	2L	2L	2L
I-195 WESTBOUND ON-RAMP (Lane F or Horton Farm)	0:00:00	6:00:00	1L	1L	1L	1L	1L	1L	1L
	6:00:00	9:00:00	1L	1L	1L	1L	1L	1L	1L
	9:00:00	15:00:00	1L	1L	1L	1L	1L	1L	1L
	15:00:00	19:00:00	1L	1L	1L	1L	1L	1L	1L
	19:00:00	24:00:00	1L	1L	1L	1L	1L	1L	1L
PAWTUCKET AVENUE	0:00:00	6:00:00	DET	DET	DET	DET	DET	DET	DET
	6:00:00	9:00:00	1LE	1LE	1LE	1LE	1LE	1LE	1LE
	9:00:00	15:00:00	1LE	1LE	1LE	1LE	1LE	1LE	1LE
	15:00:00	19:00:00	1LE	1LE	1LE	1LE	1LE	1LE	1LE
	19:00:00	24:00:00	DET	DET	DET	DET	DET	DET	DET

SPECIAL EXCEPTION: MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC DURING THE CROSSOVER PHASES ONLY						
Location	TIME OF DAY		DAY OF WEEK			
	From	To	Sunday	Monday	Friday	Saturday
I-195 EASTBOUND	0:00:00	6:00:00	1L	1L	2L	1L
	6:00:00	9:00:00	2L	3L	3L	2L
	9:00:00	15:00:00	2L	3L	3L	2L
	15:00:00	19:00:00	2L	3L	3L	2L
	19:00:00	24:00:00	2L	2L	2L	2L
I-195 WESTBOUND	0:00:00	6:00:00	1L	1L	2L	1L
	6:00:00	9:00:00	2L	3L	3L	2L
	9:00:00	15:00:00	2L	3L	3L	2L
	15:00:00	21:00:00	2L	3L	3L	2L
	21:00:00	24:00:00	2L	2L	2L	2L
PAWTUCKET AVENUE	0:00:00	6:00:00	DET	DET	DET	DET
	6:00:00	9:00:00	DET	1LE	1LE	DET
	9:00:00	15:00:00	DET	1LE	1LE	DET
	15:00:00	19:00:00	DET	1LE	1LE	DET
	19:00:00	24:00:00	DET	DET	DET	DET

LEGEND:

- ALL** All travel lanes and shoulders shall remain open to traffic
- 1L** A minimum of one travel lane shall remain open to traffic
- 1LE** A minimum of one travel lane in each direction shall remain open to traffic
- 2L** A minimum of two travel lane shall remain open to traffic
- 3L** A minimum of three travel lane shall remain open to traffic
- DET** A full closure with signed detour is allowed - emergency response vehicles must be allowed access as needed

Notes

- 1 The set-up and break-down of temporary traffic control devices within a traveled way shall be construed as a closure of that traveled way.
- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.

CODE 108.1000

PROSECUTION AND PROGRESS

In accordance with Section **108.08, Failure to Complete on Time, Para. A., Phased Completion, Interim Completion, and Substantial Completion** the following defines the Phased and Interim Completion Dates and Associated Incentive/Disincentive Payment.

1. Interim Completion Date #1 – Full Bridge Open to all Traffic:

120 Calendar Days after the start of the crossover for I-195 Stage 1A (from the beginning of the crossover setup for I-195 Stage 1A) the full bridge shall be open to traffic. The crossover for I-195 Stage 1A shall start no later than **March 31, 2017** unless otherwise approved by the engineer.

Full Bridge Open to all Traffic is defined as the completed bridge structure with all lanes and sidewalks open to traffic and pedestrians over the bridge with the exception of the concrete repair work at the abutments and wingwalls, It shall also include the completed Pawtucket Avenue highway work, Ramp DR-6, and Ramp DR-6 Extension. Temporary striping will be allowed until the roadway pavement has reached the required curing period of 14 days.

Incentive/Disincentive:

\$20,000.00 per calendar day in accordance with Code 108.11 Incentive And Disincentive for Full Bridge Open to all Traffic as defined above.

2. Interim Completion Date #2 – All I-195 Lanes Open Traffic:

14 Calendar Days after the completion of Interim Completion Date #1 the remaining concrete repair work shall be completed at the abutments and wingwalls and all lanes on I-195 (including shoulders) shall be reopened for traffic.

Failure to Comply:

\$10,000.00 per hour per travel lane will be deducted from any monies due the Contractor in accordance with Subsection 937.05.2, Failure to Comply, part b. Movement.

3. Substantial Completion: August 31, 2017

Substantial Completion per specification 101.71 and including all of the Works of the Bridge, final striping, as well as for I-195.

Liquidated damages: \$ **1,500.00** per calendar day.

CODE 108.11

INCENTIVE AND DISINCENTIVE

DESCRIPTION: The payment provisions set forth elsewhere in the Contract are supplemented by the terms of this Special Provision.

INTERIM COMPLETION DATE #1:

A monetary incentive or disincentive will be applied to the following interim completion duration according to the terms herein:

Interim Completion Date #1 (hereafter referred to as "ICD #1"): 120 calendar days after the start of the crossover for I-195 Stage 1A, the work for Full Bridge Open to all Traffic as defined in Code 108.1000 Prosecution and Progress, shall be completed.

INCENTIVE AND DISINCENTIVE ASSESSMENT:

ICD #1 – Full Bridge Open to all Traffic: 120 Calendar Days

Incentive (positive assessment): For each day that the defined work is completed prior to ICD #1, an incentive equal to the sum of **\$20,000.00** per calendar day up to a maximum of thirty days will be added to any monies due the Contractor. This incentive will be calculated from ICD #1 up to the actual completion time of the defined work.

Disincentive (negative assessment): Correspondingly, for each day that the defined work remains incomplete after ICD #1, a disincentive equal to the sum of **\$20,000.00** per calendar day will be deducted from any monies due the Contractor. This disincentive will be calculated from ICD #1 up to the actual completion time of the defined work.

In no case shall the incentive be greater than **\$600,000.00** for ICD #1. There will be no limit to the total disincentive for the contract.

The disincentive amounts are assessed not as a penalty but as liquidated and ascertained damages based upon a percentage of road user costs for the time extending the ICD #1 beyond the specified date and time. The disincentive is for the purpose of recovering the road user costs resulting from delays to the Project. The Contractor should assume that disincentive assessments would commence at the specified completion date and time of from delays to the Project. The Contractor should assume that disincentive assessments would commence at the specified completion date and time of the ICD #1.

For purposes of determining whether the Contractor shall receive an Incentive Payment, the dates and times set forth in this specification will not be adjusted under any circumstance for any reason, cause, or circumstance whatsoever, regardless of fault. Should the Contractor be delayed

in the commencement, prosecution, or completion of the work in ICD #1 for any reason, there shall be no revision of the Incentive Assessment calculation date and time or the Disincentive Assessment calculation date and time notwithstanding that there may be granted an extension of time for Work outside the ICD #1 in the Contract. Failure of the Contractor to complete the required work within the ICD #1 shall release and discharge the State, the Department, and all of its officers, agents, and employees from all claims and demands for the payment of any incentive amount or damages arising from the refusal to pay any incentive amount.

Incentive Payment, if due the Contractor, will be made following acceptance of the project by the Engineer as substantial completion.

Disincentive assessment will be deducted from monies due or to become due the Contractor upon determination by the Engineer that a Disincentive assessment is warranted. Any Disincentive assessed in accordance with this Special Provision shall be separate from and in addition to charges assessed in accordance with Subsection 937.05.02 and Code 937.1000.

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SECTION 810

REINFORCING STEEL

The respective subsections of Section 810 of the Standard Specifications for Road and Bridge Construction are amended as follows:

810.01 DESCRIPTION [Add to end of section]

This work also includes the furnishing and installation of grouted splice couplers.

810.02 MATERIALS: [Add to end of section]

810.02.1 Grouted Splice Coupler:

- a. Mechanical devices used to splice reinforcing steel within precast concrete elements.
 1. These couplers are proprietary devices comprising a combination of a steel sleeve and a high strength cementitious grout.
 2. Some couplers combine a threaded connection for the bar that is cast into the element combined with a grouted portion that is used to make the connection in the field.
 3. The grout used for the coupler is part of the proprietary system and is supplied by the coupler manufacturer.
- b. Use grouted splice couplers to join precast elements as shown on the plans.
 1. Provide couplers that use cementitious grout placed inside a steel casting. Grout is part of the proprietary system and is provided by the coupler manufacturer.
 2. Use threaded connections at the Contractor's option for the portions of the coupler that are placed within the precast element if the strength of the coupler meets or exceeds the requirements of this Section.
- c. Use one of the following grouted splice coupler manufacturers according to the requirements of this Section.
 1. Sleeve-Lock Grout Sleeve System
Dayton Superior
Corporate Headquarters
7777 Washington Village Drive, Suite 130
Dayton, OH 45459
 2. Erico Lenton Interlok
ERICO United States
34600 Solon Road
Solon, OH 44139

- d. Use the same coating system as used for the reinforcing steel. Grouted splice couplers shall be prepared and galvanized in accordance with the requirements of both AASHTO M232 (ASTM A153) and this specification, however, the average coating thickness, of a minimum of 3 test, shall be 3.5 oz/sf or 6 mils.
- e. Use grouted splice couplers that provide 150 percent of the specified yield strength of the connected bar.
- f. Use grout supplied by the manufacturer of the coupler and that matches the certified test report for the coupler.

810.03 CONSTRUCTION METHODS: [Add to end of section]

810.03.3 Grouted Splice Couplers

- a. Use personnel familiar with installation and grouting splice couplers and have completed at least two successful projects in the last two years. Train new personnel within three months prior to installation by a manufacturer's technical representative as an acceptable substitution for the experience.
- b. Remove and clean all debris from the joints before grout application.
- c. Keep bonding surfaces free from laitance, dirt, dust, paint, grease, oil, or any contaminants other than water.
- d. Check the lengths of rebar anchor dowels to make sure they meet the minimum coupler embedment specified in the manufacturer's manual.
- e. Saturate Surface Dry (SSD) all joint surfaces immediately before connecting the elements.
- f. Monitor shim thickness between the precast elements to ensure that the reinforcing extensions are within the manufacturers recommended tolerance.
- g. Maintain a minimum grout and sleeve temperature of 50 degrees F using a calibrated temperature measuring system. Monitor the temperature of the covered grouted slice couplers until the temporary bracing is removed.
- h. Monitor the grout mixing, water to grout ratio, mixing time, and shelf life of the grout for conformance with the manufacturer's written instructions.
- i. Mix structural grout and coupler grout just before use according to the manufacturer's instructions.
- j. Follow the manufacturer's recommendations for coupler installation and grouting
- k. Monitor the grouting operation to verify that all sleeves have been filled.
- l. Verify that all sleeves are protected from any vibration, shock, or other excessive movement until temporary bracing is removed.
- m. Conform to the following when installing couplers above a horizontal joint:
 - 1. Determine the thickness of shims to provide the specified elevation within tolerance.
 - 2. Follow non-shrink grout manufacturer's recommendations for mixing, joint surface preparation, and application.

CODE 937.1000

MAINTENANCE AND MOVEMENT OF TRAFFIC PROTECTIVE DEVICES

DESCRIPTION. Subsection 937.05.2; Failure to Comply, part a. Maintenance, of the Standard Specifications, requires that a daily charge be deducted from monies due the Contractor for failure to adequately and safely maintain traffic control devices along any portion of the project.

The charge for this Contract will be **\$1,000.00 per day**.

Subsection 937.05.2; Failure to Comply, part b. Movement, when the Contractor implements a Traffic Control Plan, the Contractor shall adhere to the time periods for the number of lanes and shoulders associated with the roadway impacted by the Traffic Control Plan as identified in the Traffic Management Plan included in these Contract Documents. The Department will assess penalties to the Contractor if the Contractor does not adhere to these time and lane restrictions. The Department will assess these penalties per impacted lane per hour. The Department will assess these penalties in hour increments and any minute into a hour will be deemed a hour increment. The Engineer will be the sole judge in determining the time of the impacted lanes.

Failure to comply with this requirement will result in charges as follows:

I-195 Eastbound/Westbound Lanes (Excluding Crossover Phases):

For each hour after 6:00 AM on any morning where 3 travel lanes in both directions on I-195 is not provided (except during Saturday and Sunday mornings when weekend crossovers are implemented on I-195), a negative assessment equal to the sum of **\$35,000.00** per hour per travel lane will be deducted from any monies due the Contractor. This negative assessment will be calculated from 6:00 AM up to the actual time that 3 travel lanes in both directions is provided.

Interim Completion Date #2 – All I-195 Lanes Open to Traffic:

Interim Completion Date #2 (hereafter referred to as “ICD #2”) is defined as the 14th Calendar day at 11:59 PM after the completion of ICD #1 (as defined in Code 108.11). The remaining concrete repair work at the abutments and wingwalls shall be completed during this period. For each hour after ICD #2 where 4 travel lanes (including shoulders) in both directions on I-195 is not provided, a negative assessment equal to the sum of **\$10,000.00** per hour per travel lane will be deducted from any monies due the Contractor. This negative assessment will be calculated from ICD #2 up to the actual time that 4 travel lanes in both directions is provided.

Pawtucket Avenue Detour AM (Excluding Crossover Phases):

For each hour after 6:00 AM on any morning where the Pawtucket Avenue Detour remains in effect (except during Saturday and Sunday mornings when weekend crossovers are implemented on I-195), a negative assessment equal to the sum of **\$7,000.00** per hour will be deducted from any monies due the Contractor. This negative assessment will be calculated from 6:00 AM up to the actual time that the detour is removed and 1 travel lane is reopened in both directions.

INDEX

SHEET NO.	DESCRIPTION
VOLUME 1	
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	JOB-SPECIFIC PLAN SYMBOLS, LEGEND & NOTES
6-7	TYPICAL SECTIONS
8-11	GENERAL PLAN
12	GENERAL DETAILS
13-14	DRAINAGE & UTILITY PLAN
15	DRAINAGE DETAILS
16	GAS UTILITY PLAN
17-18	LOCATION PLAN
19	TRAVERSE PLAN
20	PROFILE - ROUTE 114 (PAWTUCKET AVE)
21	PROFILE - RAMP DR6 & RAMP DR6 EXT.
22	GRADE PLAN - ROUTE 114 (PAWTUCKET AVE)
23	LIGHTING PLAN
24	SIGNING & STRIPING PLAN
25	TRAFFIC SIGN SUMMARY
26	SIGN PANEL DETAILS
27	GUIDE SIGN CROSS SECTIONS
28-30	RAMP DR-6 DETOUR PLANS
31-46	MAINTENANCE AND PROTECTION OF TRAFFIC PLANS
47	CONSTRUCTION SIGN SUMMARY
49-54	CROSS SECTIONS - PAWTUCKET AVENUE

SHEET NO.	DESCRIPTION
VOLUME 2	
	BRIDGE NO. 471 - BRIDGE PLANS
	FOR INDEX SEE "BRIDGE PLANS VOLUME 2"

STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED
STATE HIGHWAY
IMPROVEMENTS TO I-195
ACCELERATED BRIDGE CONSTRUCTION (ABC) OF
BRIDGE NO. 471 SUPERSTRUCTURE REPLACEMENT
PAWTUCKET AVENUE OVER I-195
VOLUME 1 OF 2 - HIGHWAY PLANS

CITY OF EAST PROVIDENCE
COUNTY OF PROVIDENCE

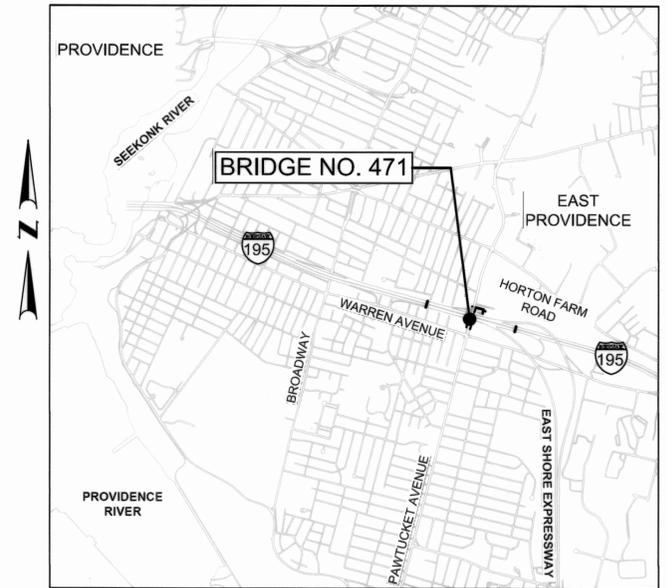
R.I. CONTRACT NO. 2016-CB-030 F.A. PROJECT NO. BRO-0471(002)

PAVEMENT STRUCTURE (FDC)
2" MODIFIED CLASS 12.5
10" CLASS 19
12" (MINIMUM) GRAVEL BORROW SUBBASE

0.92 MILES

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, WITH ALL REVISIONS AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

R-1	FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		RI	BRO-0471(002)		1	54



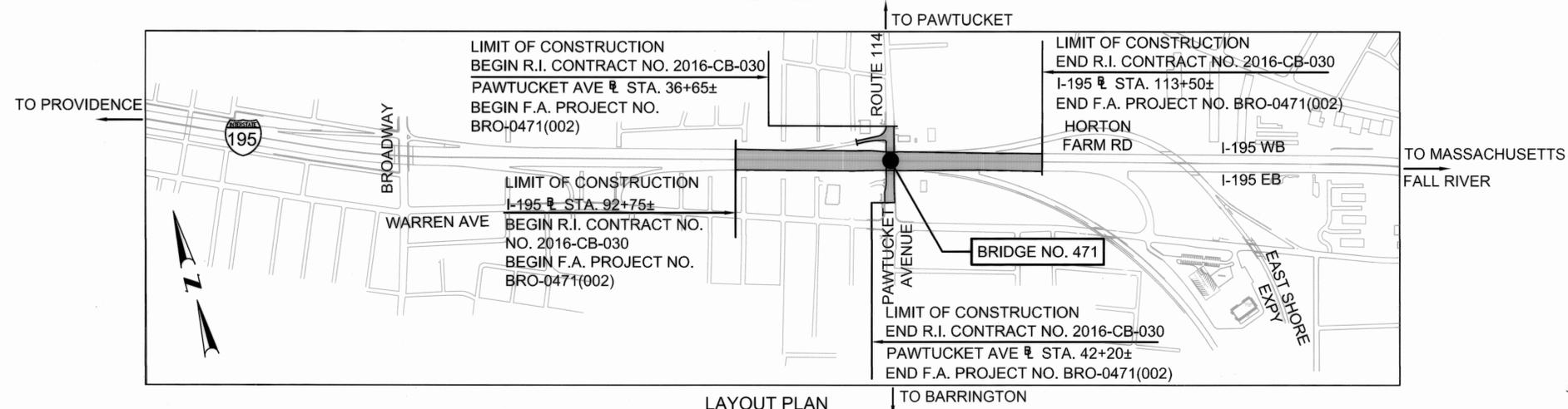
LOCATION MAP
SCALE: 1"=2,000'

DESIGN DESIGNATION

I-195		PAWTUCKET AVENUE	
AADT (2013)	102,800 V.P.D.	AADT (2013)	23,100 V.P.D.
AADT (2033)	124,750 V.P.D.	AADT (2033)	26,800 V.P.D.
D	50/50%	D	60%/40%
K	10%	K	8%
T	6%	T	6%
DDHV	10,300 V.P.H.	DDHV	1,800 V.P.H.
DDV	12,500 V.P.H.	DHV	2,100 V.P.H.
DESIGN SPEED	60 M.P.H.	DESIGN SPEED	30 M.P.H.

HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:
- Intersection of Pawtucket Avenue & Warren Avenue
- Pawtucket Avenue Bridge 471
- Pawtucket Avenue
- East Shore Expressway On Ramp to I-195 over Bridge 472
Refer to General Note 18 on Sheet 3

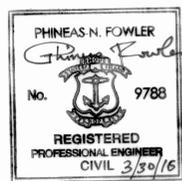


LAYOUT PLAN
SCALE: 1" = 500'

SCALES OF DRAWINGS

Plans	1 inch = 20 & 40 feet
Profiles	1 inch = 20 feet Horizontal
Profiles	1 inch = 4 feet Vertical
Cross Sections	1 inch = 4 feet Horizontal
Cross Sections	1 inch = 4 feet Vertical

BASE OF LEVELS
NGVD 29



Contract Number 2016-CB-030
Number of Sheet 1
Total Sheets 54

R.I. DEPARTMENT OF TRANSPORTATION

APPROVED
Georgetta V. Chole 3-30-16
DEPUTY CHIEF ENGINEER DATE

APPROVED
D. W. Fall 3-30-16
CHIEF ENGINEER DATE

APPROVED
[Signature] 3-31-16
DIRECTOR DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED
DIVISION ADMINISTRATOR DATE

ADDENDUM NO. 1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BRO-0471(002)	2016	1	42

INDEX

BRIDGE PLAN SET
PAWTUCKET AVENUE BRIDGE NO. 471
 SUPERSTRUCTURE REPLACEMENT

SHEET NO.	DESCRIPTION
VOLUME 1	HIGHWAY PLANS
	FOR INDEX SEE "HIGHWAY PLANS VOLUME 1"
VOLUME 2	PAWTUCKET AVENUE BRIDGE NO. 471
1	COVER SHEET & INDEX
2	BRIDGE ABBREVIATIONS & GENERAL LEGEND
3	PROFILES
4	GENERAL BRIDGE NOTES SHEET 1 OF 3
5	GENERAL BRIDGE NOTES SHEET 2 OF 3
6	GENERAL BRIDGE NOTES SHEET 3 OF 3
7	GENERAL PLAN AND ELEVATION
8	TYPICAL BRIDGE AND APPROACH SECTIONS
9	CONSTRUCTION STAGING & DEMOLITION DETAILS SHEET 1 OF 3
10	CONSTRUCTION STAGING & DEMOLITION DETAILS SHEET 2 OF 3
11	CONSTRUCTION STAGING & DEMOLITION DETAILS SHEET 3 OF 3
12	ANCHORED PRECAST CONCRETE BARRIER FOR TEMPORARY TRAFFIC CONTROL
13	TEMPORARY PROTECTIVE SHIELDING DETAILS
14	ABUTMENT AND PIER DEMOLITION PLAN SHEET 1 OF 5
15	ABUTMENT DEMOLITION & REHABILITATION SHEET 2 OF 5
16	PIER DEMOLITION SHEET 3 OF 5
17	WINGWALL DEMOLITION AND REHABILITATION DETAILS SHEET 4 OF 5
18	WINGWALL DEMOLITION AND REHABILITATION DETAILS SHEET 5 OF 5
19	REHABILITATION AND PRECAST SUBSTRUCTURE DETAILS
20	PRECAST TOLERANCE DETAILS SHEET 1 OF 2
21	PRECAST TOLERANCE DETAILS SHEET 2 OF 2
22	NORTH ABUTMENT PLAN AND ELEVATION
23	SOUTH ABUTMENT PLAN AND ELEVATION
24	ABUTMENT CAP DETAILS
25	TOP OF ABUTMENT DETAILS
26	WINGWALL DETAILS SHEET 1 OF 2
27	WINGWALL DETAILS SHEET 2 OF 2
28	PIER PLAN AND ELEVATION
29	PIER SECTIONS AND DETAILS SHEET 1 OF 2
30	PIER SECTIONS AND DETAILS SHEET 2 OF 2
31	FRAMING PLAN
32	BEAM AND MODULAR UNIT DETAILS
33	DIAPHRAGM DETAILS
34	CAMBER TABLE
35	DECK GRADES
36	DECK PLAN AND POURING SEQUENCE
37	DECK REINFORCEMENT DETAILS SHEET 1 OF 2
38	DECK REINFORCEMENT DETAILS SHEET 2 OF 2
39	BEARING DETAILS
40	MISCELLANEOUS DETAILS
41	PRECAST END POST DETAILS
42	PROTECTIVE SCREEN DETAILS

STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED

STATE HIGHWAY

IMPROVEMENTS TO I-195

ACCELERATED BRIDGE CONSTRUCTION (ABC) OF BRIDGE NO. 471 SUPERSTRUCTURE REPLACEMENT

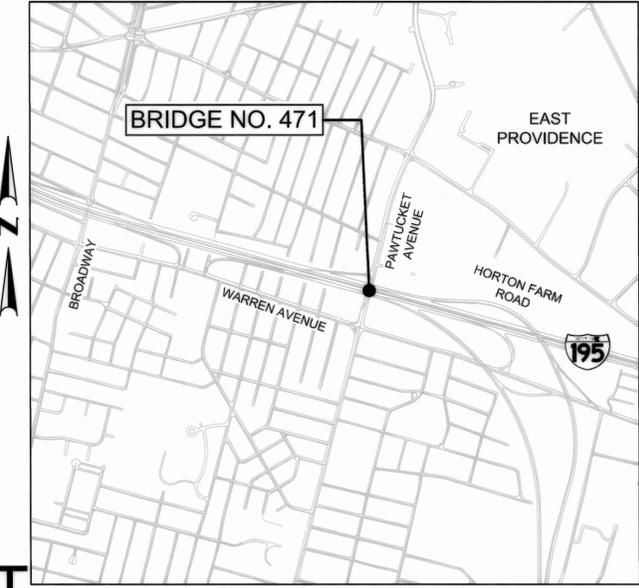
PAWTUCKET AVENUE OVER I-195

VOLUME 2 OF 2 - BRIDGE PLANS

CITY OF EAST PROVIDENCE

COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 2016-CB-030 F.A. PROJECT NO. BRO-0471(002)



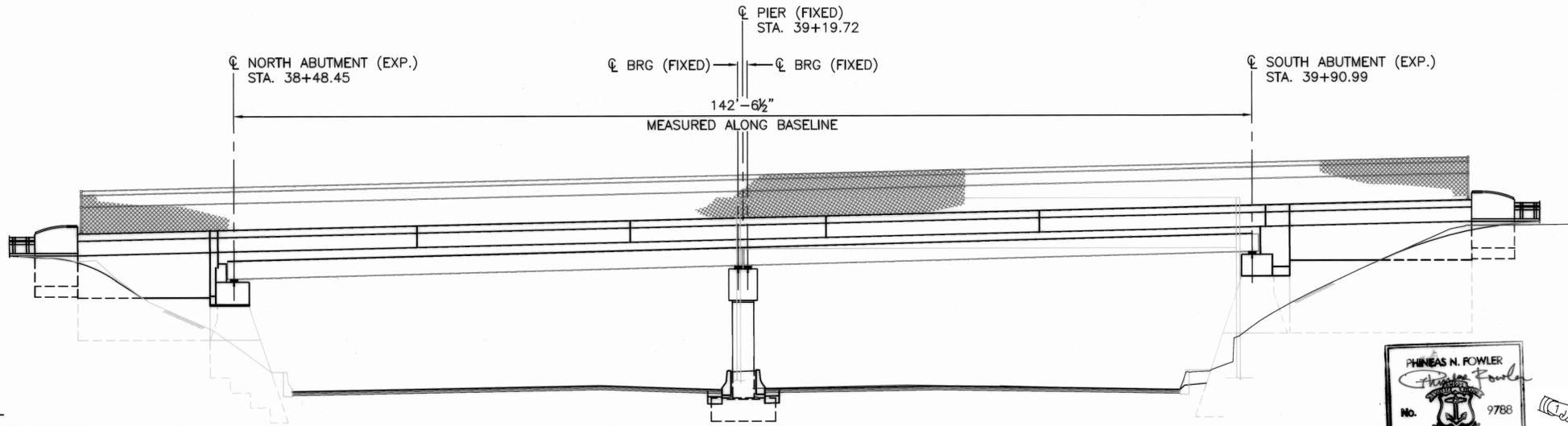
LOCATION MAP
 SCALE: 1"=1,000'

DESIGN DESIGNATION

PAWTUCKET AVENUE	
AADT (2013)	23,100 V.P.D.
AADT (2033)	26,800 V.P.D.
D	60/40
K	8%
T	6%
DHV (2013)	1,800 V.P.H.
DHV (2033)	2,100 V.P.H.
DESIGN SPEED	30 M.P.H.

HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:
 - Intersection of Pawtucket Avenue & Warren Avenue
 - Pawtucket Avenue Bridge 471
 - Pawtucket Avenue
 - East Shore Expressway On Ramp to I-195 over Bridge 472
 Refer to General Note 17 on Sheet 4.



ELEVATION
 SCALE: 1" = 10'

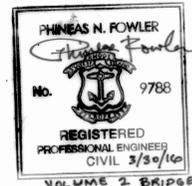
SCALES OF DRAWINGS
 AS SHOWN

BASE OF LEVELS
 NGVD 29

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS
 SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

ADDENDUM NO. 1

Louis Berger
 166 VALLEY STREET
 PROVIDENCE, RI 02909
 TEL. 401-521-5980
 WWW.LOUISBERGER.COM



Contract Number 2016-CB-030
 Number of Sheet 1
 Total Sheets 42

R.I. DEPARTMENT OF TRANSPORTATION

APPROVED
Geoffrey V. Chel... 3-30-16
 DEPUTY CHIEF ENGINEER DATE

APPROVED
David W. Fowler 3-30-16
 CHIEF ENGINEER DATE

APPROVED
R. A. ... 3-31-16
 DIRECTOR DATE

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED
 DIVISION ADMINISTRATOR DATE

