October 4, 2019

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2019-CB-068

FEDERAL-AID PROJECT NO. FAP Nos: BHO-PRES(010)

Bridge Group 16B - FOS, JOH, PVD, SCI

Various locations in Foster, Johnston, Providence, and Scituate CITY/TOWN OF Foster, Providence, Scituate, Johnston COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

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

B. Contract Dates

1. Bid-Opening Date

Bid-Opening Date Updated To "10/11/2019".

C. General Provisions - Contract Specific

1. CS-3

Delete page CS-3 in its entirety and replace with CS-3 (R-1) attached to this Addendum No. 1. The index of contract specific specifications has been revised.

2. CS-15

Delete page CS-15 in its entirety and replace with CS-15 (R-1) attached to this Addendum No. 1. Section 27 Environmental Notification – Bridge 146 has been added.

3. Appendix A

Delete page 15 of 16 in its entirety and replace with signed page 15 of 16 attached to this Addendum No. 1. Signatures have been added.

D. Specifications - Job Specific

1. JS-2 - JS-3

Delete pages JS-2 and JS-3 in their entirety and replace with JS-2(R-1) and JS-3(R-1) attached to this Addendum No. 1. The index of job specific specifications has been revised.

2. JS-34

Delete page JS-34 in its entirety and replace with JS-34(R-1) attached to this Addendum No. 1. Specification Code 820.9901-05 High Pressure Water Cleaning – Bridge No. 274, 605, 61101, and 61121 have been revised to include graffiti removal.

3. JS-39

Delete pages JS-39 in its entirety and replace with JS-39(R-1) attached to this Addendum No. 1. Specification Code 820.9906 Concrete Surface Treatment (Protective Coating) has been revised to include graffiti removal.

4. JS-44A - JS-44B

Add page JS-44A and JS-44B in their entirety attached to this Addendum No. 1. Specification Code Temporary Traffic Plate Bridge No. 274 has been added.

5. JS-50

Delete page JS-50 in its entirety and replace with JS-50(R-1) attached to this Addendum No. 1. Specification Code 926.9901 Unanchored Barrier for Temporary Traffic Control has been revised to clarify required barrier test level and maximum deflection limits.

E. Distribution of Quantities

1. Index Pages

Delete page Index 1, Index 2 and Index 3 in its entirety and replace with revised pages Index 1(R-1), Index 2(R-1) and Index 3(R-1) attached to this Addendum No. 1. Items highlighted in bold have been reordered, added or deleted to the contract.

2. Pages 2, 4, 5, 6, and 14

Delete Pages 2, 4, 5, 6, and 14in their entirety and replace with revised pages 2(R-1), 4(R-1), 5(R-1), 6(R-1), and 14(R-1) attached to this Addendum No. 1. Items in bold have been revised due to quantity changes or group location changes.

3. Page 20

Delete Page 20 and replace with 20(R-1) attached to this Addendum No. 1. Items 201.0401 and 824.9904 have been added.

F. Plans

1. SHEET NO. 6 – GENERAL BRIDGE NOTES Sheet 1 of 3

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

2. SHEET NO. 23 – Bridge No. 146 Route 44 over Woonasquatucket River; Johnston, RI BRIDGE SCUPPER MODIFICATION

Remove and replace Sheet 23 in its entirety with Sheet 23(R-1) attached to this Addendum No. 1. This sheet has been revised.

3. SHEET NO. 39 – Bridge No. 232 Atwood Avenue over Simmons Brook; Johnston, RI SIDEWALK REPAIR PLAN

Remove and replace Sheet 39 in its entirety with Sheet 39(R-1) attached to this Addendum No. 1. This sheet has been revised.

4. SHEET NO. 50 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI GENERAL PLAN

Remove and replace Sheet 50 in its entirety with Sheet 50(R-1) attached to this Addendum No. 1. This sheet has been revised.

5. SHEET NO. 51 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI TYPICAL BRIDGE SECTION

Remove and replace Sheet 51 in its entirety with Sheet 51(R-1) attached to this Addendum No. 1. This sheet has been revised.

6. SHEET NO. 52 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI ABUTMENT ELEVATIONS

Remove and replace Sheet 52 in its entirety with Sheet 52(R-1) attached to this Addendum No. 1. This sheet has been revised.

7. SHEET NO. 53 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI ROADWAY JOINTS

Remove and replace Sheet 53 in its entirety with Sheet 53(R-1) attached to this Addendum No. 1. This sheet has been revised.

8. SHEET NO. 53A – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI ROADWAY JOINTS Sheet 2 of 2

Add Sheet 53A in its entirety attached to this Addendum No. 1. This sheet has been added.

9. SHEET NO. 57 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI CONCRETE DECK REPAIR DETAILS

Remove and replace Sheet 57 in its entirety with Sheet 57(R-1) attached to this Addendum No. 1. This sheet has been revised.

 SHEET NO. 60 – Bridge No. 295 U.S. Route 6 Danielson Pike over Dolly Cole Brook; Foster, RI END POST DETAILS

Remove and replace Sheet 60 in its entirety with Sheet 60(R-1) attached to this Addendum No. 1. This sheet has been revised.

RI Department of Transportation Administrator, Division of Project Management

22	Work Adjacent to and Above Waterways	CS-14
23	Construction Access to Bridges	CS-14
24	Inspection Access	CS-15
25	Field Survey	CS-15
26	State and Local Police Compensation	CS-15
27	Environmental Notification – Bridge 146	CS-15
	Appendix A: Transportation Management Plan	CS-16
	Appendix B: SWPPP	CS-32

All costs associated with the Contractor's means and methods for job site access and final site restoration of the site to pre-construction conditions will be considered incidental to the associated items in the proposal; there will be no separate payment for this work.

The Contractor shall not be allowed to park or store construction materials and equipment within the drip line of any existing tree.

The Contractor shall notify the Engineer of the need for tree trimming to access the Bridge. The Engineer shall coordinate with the State On-call Tree Trimming Contractor to have the trees trimmed. The Bridge Contractor shall provide two (2) weeks notice to allow the Tree Trimming Contractor time to complete the required work. No compensation for delays will be permitted based on tree trimming access.

24. Inspection Access

The Contractor shall provide the Engineer and/or his representative(s) full access to all the work sites, as may be required, for the purpose of inspection and/or construction monitoring. This shall include all necessary safety equipment such as safety harnesses and life vests. No separate payment shall be made for these services. The costs of these services and materials shall be considered incidental to the work and shall be included in the costs of the work for which they are required.

25. Field Survey

The Contractor shall be responsible for all field surveys, field measurements and project controls. No separate payment will be made for these services. The cost of this work shall be included under the item of work for which it is required.

26. State and Local Police Compensation

Upon award of the contract and approval of the schedule, but prior to the start of construction, the Contractor shall coordinate requirements for Uniformed Traffic Control Persons with the Engineer. It will be the responsibility of the Engineer to retain the services of the police with cruisers for traffic control and protection for this project. The Contractor will not be required to bid on, or to compensate for, the service of police.

27. Environmental Notification – Bridge 146

The Contractor is hereby notified of environmental contamination of the river bank soils and river sediment in the immediate vicinity of Bridge 146 and downstream of the bridge. Primary contaminant is dioxin. Care shall be taken when working on the referenced structure to minimize worker and public exposure.

CHANGES TO TMP & CONTINGENCY PLANS

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

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

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

Pr	oject Specifi	c Contingencies	
	TMP AP	PROVALS	
All approv	als must be obi	tained prior to start of work.	
ADMINISTRATOR PROJECT MANAGEMENT Signature:		STATE TRAFFIC SAFETY ENGINEER Signature:	CHIEF ENGINEER Signature: MMM Robert Rocchio, PE
Revision # Initials Date		Date: 8 - 30 - 19 Revision # Initials Date	Revision # Initials Date

INDEX SPECIFICATIONS - JOB SPECIFIC RIC No. 2019-CB-068

<u>SECTION</u>	TITLE	PAGE
105.02	Plans and Shop Drawings	JS-4
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108.1000	Prosecution and Progress	JS-7
109	Measurement and Payment	JS-8
109.04	Differing Site Conditions, Changes, Extra Work and Force Account	JS-9
109.06	Payment of Work	JS-13
206.9901	Catch Basin Inlet Protection	JS-19
212.2000	Cleaning and Maintenance of Erosion and Pollution Controls	JS-22
401.9902	Remove and Replace Overlay and Waterproofing Membrane Bridge No. 274	JS-24
800.9901	DELETED	JS-26
800.9902	Miscellaneous Bridge Repairs	JS-30
803.9901	Remove and Dispose Existing Deck Joints	JS-31
807.9901	Masonry Void Repair	JS-32
817.9901	Prestressed Girders Repair	JS-33
820.9901, 820.9903- 820.9905	High Pressure Water Cleaning – Bridge No. 274, 605, 61101 and 61102	JS-34
820.9902	High Pressure Water Cleaning of Historic Bridge Structure – Bridge No. 295	JS-37
820.9906	Concrete Surface Treatment (Protective Coating)	JS-39
820.9907	Concrete Surface Treatment (ASR Coating)	JS-40

Addendum 1

824.9901 - 824.9903	Steel Girder Repairs Bridge No. 274, 61101, & 61121	JS-42
824.9904	Temporary Traffic Plate Bridge No. 274	JS-44A
825.9901 - 825.9903	Repainting Existing Structural Steel – Bridge No. 274, 61101, 61121	JS-45
826.9901	Management of Pigeon Guano and Mixed Debris	JS-47
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928.9901	Truck Mounted Attenuator (TMA) With Truck Mounted Flashing Arrow Board (TMFAB)	JS-53
929.0110	Field Office	JS-56
934.9901	Field Control and Construction Layout	JS-58
936	Mobilization and Demobilization	JS-59
937.0200	Maintenance and Movement Traffic Protection	JS-61
938.1000	Price Adjustments	JS-62
L09.9901	Selective Clearing	JS-63

CODE 820.9901 <u>HIGH PRESSURE WATER CLEANING – BRIDGE NO. 274</u> CODE 820.9903 <u>HIGH PRESSURE WATER CLEANING – BRIDGE NO. 605</u> CODE 820.9904 <u>HIGH PRESSURE WATER CLEANING – BRIDGE NO. 61101</u> CODE 820.9905 <u>HIGH PRESSURE WATER CLEANING – BRIDGE NO. 61121</u>

DESCRIPTION: This work shall consist of the removal of all organic matter, bird droppings, efflorescence, graffiti and all other foreign particles, including but not limited to sand, salt, and debris accumulated on all specified bridge surfaces. Bridge surfaces to be cleaned through the application of a high pressure water spray shall include but not limited to:

- Roadway surface, from face of curb/barrier to shoulder line or 4'-0" from face of curb/barrier, whichever is greater;
 - Roadway surfaces that are indicated in the plans to receive new wearing surface shall be exempt from bridge washing
- Barriers, parapets, sidewalks, curbing;
- Structural steel, including bearing devices;
- Concrete beams and diaphragms;
- Backwalls, beam seats, abutment and wingwall faces, piers in their entirety;
- Slope paving, drainage features, and other bridge components as directed by the Engineer

The limits of this work are as shown on the plans as described above, and as directed by the Engineer.

The contractor should not attempt to remove sealant, or any other weatherproof or waterproof coating during high pressure washing operations. Removal of bird droppings shall be in accordance with Code 826.9901 Management of Pigeon Guano And Mixed Debris and the cost of the bird dropping removal shall be included as part of this section for each bridge. Protection of any utilities and traffic devices shall be included as part of this section for each bridge.

MATERIALS AND EQUIPMENT: The cleaning equipment shall include the necessary high pressure water cleaning equipment and all ancillary equipment necessary to flush, clean and remove all foreign material from the bridge, including hand tools, compressors, water tanks and water pumps. The contractor shall determine the method and equipment, subject to the approval of the Engineer, which is best suited to complete the cleaning operation.

The high-pressure water cleaning equipment shall have sufficient controls to vary the water pressure such that it can be adjusted to clean the bridge surfaces without damaging the structure. The equipment shall be capable of producing a water pressure of up to 5000 psi, and shall have a functional pressure gage incremented in a manner such that pressure can be adjusted and maintained consistently. A sufficient variety of nozzle tips and accessories shall be available to ensure that the spray can be applied uniformly to all applicable parts of the structure. The tip shall not concentrate the spray at less than 25 degrees to the surface.

CODE 820.9906

CONCRETE SURFACE TREATMENT (PROTECTIVE COATING)

DESCRIPTION: The work under this item shall consist of furnishing, applying, and curing clear concrete penetrating sealant to all concrete surfaces below the decks, traffic side face of concrete parapets, and as designated on the Plans. The work shall be performed in accordance with the contract drawings, the Rhode Island Standard Specifications for Road and Bridge Construction, Amended December 2018, all applicable compilations of approved specifications, as modified by this special provision, and as directed by the Engineer. This item shall also include the necessary surface preparation, including graffiti removal, as described herein, as shown on the plans, or as directed by the Engineer. Any high pressure water cleaning required for surface preparation for concrete surface treatment (protective coating) shall be included and paid under Item Code 820.9901-9905 "High Pressure Water Cleaning – Bridge No. 274, 295, 605, 61101, & 61102."

MATERIALS: All materials shall meet the requirements of Section 820 of the RI Standard Specifications for Penetrant Sealers.

CONSTRUCTION METHODS:

All construction methods shall be in accordance with the manufacturer's recommendations and requirements as well as Section 820 of the RI Standard Specification. In case of a conflict between the Standard specification and the manufacturer's recommendations and requirements, the most stringent requirement shall govern. Any high pressure water cleaning shall be per the requirements Item No. 820.9901-9905 "High Pressure Water Cleaning – Bridge No. 274, 295, 605, 61101, & 61102" and shall be paid under said item.

METHOD OF MEASUREMENT: This work will be measured for payment by the numbers of square feet of "Concrete Surface Treatment (Protective Coating)" complete and accepted in place within the lines shown on the plans or as directed by the Engineer.

BASIS OF PAYMENT: The quantity determined under "Method of Measurement" section will be paid for at the contract unit price per square feet of "Concrete Surface Treatment (Protective Coating)" complete in place including all surface preparation, application of Surface Treatment, materials, equipment, tools, labor and incidental expense.

CODE 824.9904 TEMPORARY TRAFFIC PLATE BRIDGE NO. 274

DESCRIPTION:

The work under this item shall consist of furnishing and installing temporary roadway traffic plates bolted to the concrete deck and/or approach slab as required to build deck over backwall modifications, link slabs, and roadway joints at the abutments and piers. This item shall also include all blocking, inserts, anchor bolts, movement of the plates as necessary and associated maintenance to complete the work in accordance with these Special Provisions and as detailed on the contract drawings.

MATERIALS:

All materials shall conform to the following requirements:

- 1. The steel traffic plate shall meet the requirements of AASHTO Designation M270 Grade 36 or M270 Grade 50.
- 2. All bolts shall meet the requirements of ASTM F3125 Grade A325 or A490 Type 1.
- 3. All concrete inserts shall be capable of developing the full strength of the bolt.

All steel plate surface exposed to traffic shall be coated with a thin polymer resin overlay broadcast with a wearing aggregate for vehicular traffic.

CONSTRUCTION METHODS:

The entire traffic plate including inserts shall be furnished and installed in a sequence consistent with the established maintenance and protection of traffic plan and the restrictions noted in the contract TMP and CS pages.

The traffic plates shall be detailed such that removal and placement of the plates before commencement and after completion of the work is performed expeditiously and in such a manner as to not endanger the motoring public.

The Contractor shall at all times maintain the plates (including concrete inserts and bolts), as may be required for the duration of the work.

The contractor shall submit shop drawings and supporting calculations detailing the temporary traffic plate consistent with the proposed sequence of construction. The steel plate shall be so detailed such that the head of the bolts are flush with the top of the temporary plate. Shop drawings and calculations shall include at a minimum plate thickness and bolt spacing and shall be prepared by a professional engineer registered in State of Rhode Island.

METHOD OF MEASUREMENT:

Work under Item 824.9904 will be measured and paid for at the Contract unit price per "LUMP SUM."

Engineer. The steel plates shall become the property of the Contractor.

BASIS OF PAYMENT:

Item code 824.9904 "TEMPORARY TRAFFIC PLATE – BRIDGE NO. 274 will be paid for at respective contract unit price per "Lump Sum" as listed in the Proposal. The prices so stated shall constitute full and complete compensation for furnishing and installing temporary roadway traffic plates bolted to the concrete deck and/or approach slab as required to build deck over backwall modifications, link slabs, and roadway joints at the abutments and piers, all labor, tools, materials, equipment, and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete and accepted by the Engineer.

CODE 926.9901

UNANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL

DESCRIPTION:

The Contractor shall furnish and install Temporary Barriers at locations shown on the plans and as directed by the Engineer. The Temporary Barriers shall meet the requirements of AASHTO Manual for Accessing Safety Hardware (MASH) and be accepted by the Federal Highway Administration.

MATERIALS:

Portland cement concrete and reinforcing shall conform to the requirements of Subsection 909.02.01. Barrier units comprising of other materials, such as steel, plastic, etc., may also be used upon approval of the Engineer.

All Temporary Barrier shall conform to the performance requirements contained in te 2016 edition of the Manual for Assessing Safety Hardware (MASH) which includes steel or concrete type temporary barrier.

The Temporary Barrier shall be designed based on the minimum test level requirements from the table below:

Roadway	Temporary Barrier Minimum Test Level	Maximum Deflection Limit
US Route 6*	TL-4	4 ft
All other roadways	TL-3	4 ft

*Between I-295 and Route 10

Before installation, the Contractor shall submit a copy of the manufacture's documents indicating satisfactory testing in accordance with MASH Test Level 3 rating and/or its subsequent revisions, and a copy of the approval by the FHWA for use of the impact attenuator as intended.

Delineators shall have a minimum of 9 square inches of reflective surface area. The unit shall be capable of being mounted on the side of barrier by use of an adhesive or other method approved by the manufacturer. Such delineators may be one of those products which appear on the Department's Approved Material List.

No work shall commence under these items until all documents have been approved by the Engineer.

EXECUTION:

The Contractor shall submit its chosen temporary barrier system, including the FHWA test level approval level and any details for transitional areas to any existing barrier system, to the Engineer

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Item 202.0300 Total: 5.00

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		Distribution of Qua	antities			
		Project Name - Bridge Group 16B	- FOS, JOH, PVD,	SCI		
		Estimate Name - BG16B -	Addendum 1			
		FAP Nos: BHO-PRES	S(010)			
Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
007	202.0800	GRAVEL BORROW	CY			
		BRIDGE GROUP 16B				
		BRIDGE 146		1.00	0014	01
		BRIDGE 232			0014	
		BRIDGE 83			0014	
		Item 202.0800	Total:	1.00	-	
008	203.0400	STRUCTURAL EXCAVATION UNCLASS	SIFIED CY			
		BRIDGE GROUP 16B				
		BRIDGE 146		3.00	0014	01
		BRIDGE 274		2.00	0014	01
		Item 203.0400	Total:	5.00	-	
009	206.9901	CATCH BASIN INLET PROTECTION	EACH			
		BRIDGE GROUP 16B				
		BRIDGE 146		5.00	0014	01
		BRIDGE 232		2.00	0014	01
		BRIDGE 61101		4.00	0014	01
		BRIDGE 61121		4.00	0014	01
		BRIDGE 83		4.00	0014	01
		Item 206.9901	Total:	19.00	_	
010	212.2100	MAINTENANCE AND CLEANING OF	LS			
		EROSION AND POLLUTION CONTROL	S			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
		Item 212.2100	Total:	1.00	-	
011	401.2000	CLASS 12.5 HMA	TON			
		BRIDGE GROUP 16B				
		BRIDGE 146		25.00	0014	01
		Item 401.2000	Total:	25.00	-	

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		Project Name - Bridge Group 16B - F Estimate Name - BG16B - Ad R.I. Contract No 2019 FAP Nos: BHO-PRES(0)	OS, JOH, PVD, dendum 1 -CB-068 10)	, SCI		
Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
012	401.2003	CLASS 12.5 HMA FOR PATCHING	TON			
		BRIDGE GROUP 16B				
		BRIDGE 232		0.70	0014	01
		BRIDGE 83		0.30	0014	01
		Item 401.2003 To	otal:	1.00	_	
013	401.9901	MODIFIED CLASS 9.5 HMA FOR BRID	GE TON			
		DECKS				
		BRIDGE GROUP 16B				
		BRIDGE 61101		2.50	0014	01
		BRIDGE 61121		2.50	0014	01
		Item 401.9901 To	otal:	5.00	_	
014	401.9902	REMOVE AND REPLACE OVERLAY AND	LS			
		WATERPROOF MEMBRANE BRIDGE NO. 2	274			
		BRIDGE GROUP 16B				
		BRIDGE 274		1.00	0014	01
		Item 401.9902 To	otal:	1.00	_	
015	403.0300	ASPHALT EMULSION TACK COAT	SY			
		BRIDGE GROUP 16B				
		BRIDGE 146		230.00	0014	01
		BRIDGE 61101		7.50	0014	01
		BRIDGE 61121		7.50	0014	01
		BRIDGE 83		5.00	0014	01
		Item 403.0300 To	otal:	250.00	_	
016	501.0103	PORTLAND CEMENT CONCRETE BASE	SY			
		BRIDGE GROUP 16B				
		BRIDGE 232		3.00	0014	01
		BRIDGE 83		7.00	0014	01
		Item 501.0103 To	otal:	10.00	-	

Distribution of Quantities

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		Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI Estimate Name - BG16B - Addendum 1 R.I. Contract No 2019-CB-068 FAP Nos: BHO-PRES(010)			
Item No.	Item Code	Description UM	Qty.	Pay Code	Seq. No.
017	708.9041	CLEANING CATCH BASINS ALL TYPES EACH		coue	
		AND SIZES			
		BRIDGE GROUP 16B			
		BRIDGE 146	4.00	0014	01
		Item 708.9041 Total:	4.00	_	
018	713.8269	ADJUST WATER GATE BOXES TO GRADE EACH			
		BRIDGE GROUP 16B			
		BRIDGE 232	1.00	0014	01
		Item 713.8269 Total:	1.00	_	
019	713.8300	ADJUST GAS GATE BOXES TO GRADE EACH			
		BRIDGE GROUP 16B			
		BRIDGE 232	2.00	0014	01
		Item 713.8300 Total:	2.00	_	
020	800.9901	MISCELLANEOUS BRIDGE REPAIRS LS			
		BRIDGE GROUP 16B			
		PROJECT WIDE	1.00	0014	01
		Item 800.9901 Total:	1.00	_	
021	803.0300	PARTIAL REMOVAL AND DISPOSAL OF CY			
		EXISTING CONCRETE MASONRY			
		BRIDGE GROUP 16B			
		BRIDGE 146	1.50	0014	01
		BRIDGE 274	17.00	0014	01
		BRIDGE 295	2.50	0014	01
		Item 803.0300 Total:	21.00		
022	803.9901	REMOVE AND DISPOSE EXISTING DECK LS			
		JOINT			
		BRIDGE GROUP 16B			

BRIDGE 274

0.34 0014 01

Distribution of Quantities Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI Estimate Name - BG16B - Addendum 1 R.I. Contract No. - 2019-CB-068 FAP Nos: BHO-PRES(010) Item Item Code UΜ Qty. Pay Seq. Description No. Code No. 022 BRIDGE 61101 0.33 0014 01 803.9901 Cont. BRIDGE 61121 0.33 0014 01 Item 803.9901 Total: 1.00 023 807.0350 POINTING & GROUTING MASONRY \mathbf{LF} BRIDGE GROUP 16B 70.00 0014 BRIDGE 233 01 BRIDGE 252 65.00 0014 01 Item 807.0350 Total: 135.00 024 807.9901 MASONRY VOID REPAIR CY BRIDGE GROUP 16B BRIDGE 233 1.00 0014 01 Item 807.9901 Total: 1.00 025 808.0322 CONCRETE SUBSTRUCTURE CLASS HP CY 3/4'' END POSTS BRIDGE GROUP 16B BRIDGE 295 3.00 0014 01 Item 808.0322 Total: 3.00 026 808.1200 CONCRETE SUPERSTRUCTURE CLASS HP CY 3/4'' BRIDGE GROUP 16B BRIDGE 146 2.50 0014 01 BRIDGE 274 17.50 0014 01 Item 808.1200 Total: 20.00 027 808.1642 PREFORMED POLYETHYLENE FOAM JOINT SF FILLER 1'' BRIDGE GROUP 16B BRIDGE 274 60.00 0014 01

BRIDGE 610 50.00 0014 01

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		Distribution of Quantitie	S		
	Pro	oject Name - Bridge Group 16B - FOS, Jo Estimate Name - BG16B - Addendur R.I. Contract No 2019-CB-06 FAP Nos: BHO-PRES(010)	OH, PVD, SCI m 1 58		
Item No.	Item Code	Description U	M Qty.	Pay Code	Seq. No.
027	808.1642 Cont.	Item 808.1642 Total:	110.00		
028	808.1644	PREFORMED POLYETHYLENE FOAM JOINT S	ŝF		
		FILLER 1-1/2''			
		BRIDGE GROUP 16B			
		BRIDGE 274	80.00	0014	01
		Item 808.1644 Total:	80.00	_	
029	808.1675	POLYURETHANE ELASTOMERIC JOINT C	21		
		SEALANT			
		BRIDGE GROUP 16B			
		BRIDGE 274	550.00	0014	01
		Item 808.1675 Total:	550.00	-	
030	810.0210	GALVANIZED BAR REINFORCEMENT GRADE L	BS		
		60			
		BRIDGE GROUP 16B			
		BRIDGE 146	105.00	0014	01
		BRIDGE 274	2,375.00	0014	01
		BRIDGE 295	420.00	0014	01
		Item 810.0210 Total:	2,900.00		
031	811.1400	THERMOPLASTIC PIPE 2 INCH	ŀF		
		COMMERCIAL GRADE PLASTIC			
		BRIDGE GROUP 16B			
		BRIDGE 274	10.00	0014	01
		Item 811.1400 Total:	10.00		
032	813.0210	HEAT-APPLIED PREFABRICATED MEMBRANE S	3Y		
		BRIDGE GROUP 16B			
		BRIDGE 61101	12.50	0014	01
		BRIDGE 61121	12.50	0014	01
		Item 813.0210 Total:	25.00	_	

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		Distribution of Quant	ities			
		Project Name - Bridge Group 16B - FC Estimate Name - BG16B - Add R.I. Contract No 2019-(FAP Nos: BHO-PRES(01)	NS, JOH, PVD, lendum 1 CB-068 0)	SCI		
Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
033	817.2112	REPAIRS TO STRUCTURE CONCRETE	CF			
		MASONRY - PATCHING MORTAR				
		BRIDGE GROUP 16B				
		BRIDGE 083		7.00	0014	01
		BRIDGE 091		6.00	0014	01
		BRIDGE 146		45.00	0014	01
		BRIDGE 274		5.00	0014	01
		BRIDGE 295		12.00	0014	01
		BRIDGE 61101		55.00	0014	01
		BRIDGE 61121		70.00	0014	01
		Item 817.2112 Tot	cal:	200.00	_	
034	817.2142	REPAIRS TO STRUCTURE CONCRETE MASONRY - FORM AND CAST IN PLACE CONCRETE BRIDGE GROUP 16B BRIDGE 146 BRIDGE 274	CF	2.00 4.00	0014 0014	01 01
		BRIDGE 295		4.00	0014	01
		BRIDGE 61101		12.00	0014	01
		BRIDGE OIIZI		18.00	-	01
035	817.9901	REPAIRS TO PRESTRESSED CONCRETE GIRDERS BRIDGE GROUP 16B	SF	10.00		
		BRIDGE 605		80.00	0014	01
		Item 817.9901 Tot	al:	80.00	_	
036	818.2010	PORTLAND CEMENT CONCRETE DECK REPAIRS (FULL DEPTH REMOVAL) BRIDGE GROUP 16B	SF	05 00	0.014	01
		BRIDGE 274		25.00	0014	UΤ

Distribution of Quantities Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI Estimate Name - BG16B - Addendum 1 R.I. Contract No. - 2019-CB-068 FAP Nos: BHO-PRES(010) Item Item Code Description UΜ Qty. Pay Seq. No. Code No. 036 818.2010 Cont. Item 818.2010 Total: 25.00 037 819.0800 DRILL AND GROUT REINFORCING DOWELS EACH BRIDGE GROUP 16B BRIDGE 146 25.00 0014 01 BRIDGE 274 65.00 0014 01 BRIDGE 295 40.00 0014 01 Item 819.0800 Total: 130.00 038 820.9901 HIGH PRESSURE WATER CLEANING -LS BRIDGE NO. 274 BRIDGE GROUP 16B BRIDGE 274 1.00 0014 01 Item 820.9901 Total: 1.00 039 820.9902 HIGH PRESSURE WATER CLEANING OF LS HISTORIC BRIDGE STRUCTURE - BRIDGE NO. 295 BRIDGE GROUP 16B BRIDGE 295 1.00 0014 01 Item 820.9902 Total: 1.00 040 820.9903 HIGH PRESSURE WATER CLEANING -LS BRIDGE NO. 605 BRIDGE GROUP 16B BRIDGE 605 1.00 0014 01 Item 820.9903 Total: 1.00 041 820.9904 HIGH PRESSURE WATER CLEANING -LS BRIDGE NO. 61101 BRIDGE GROUP 16B BRIDGE 61101 1.00 0014 01 Item 820.9904 Total: 1.00

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		Project Name - Bridge Group 16B - FOS, JOH, PV Estimate Name - BG16B - Addendum 1 R.I. Contract No 2019-CB-068 FAP Nos: BHO-PRES(010)	/D, SCI		
Item No.	Item Code	Description UM	Qty.	Pay Code	Seq. No.
042	820.9905	HIGH PRESSURE WATER CLEANING - LS			
		BRIDGE NO. 61121			
		BRIDGE GROUP 16B			
		BRIDGE 61121	1.00	0014	01
		Item 820.9905 Total:	1.00	_	
043	820.9906	CONCRETE SURFACE TREATMENT SF			
		(PROTECTIVE COATING)			
		BRIDGE GROUP 16B			
		BRIDGE 083	20.00	0014	01
		BRIDGE 091	25.00	0014	01
		BRIDGE 146	3,100.00	0014	01
		BRIDGE 274	2,355.00	0014	01
		Item 820.9906 Total:	5,500.00	_	
S044	820.9907	CONCRETE SURFACE TREATMENT (ASR SF			
		COATING)			
		BRIDGE GROUP 16B			
		BRIDGE 295	2,200.00	0014	01
		Item 820.9907 Total:	2,200.00	_	
045	821.1690	SAW & SEALING JOINTS IN BITUMINOUS LF			
		CONCRETE PAVEMENT			
		BRIDGE GROUP 16B			
		BRIDGE 146	90.00	0014	01
		BRIDGE 317	136.00	0014	01
		BRIDGE 61101	107.00	0014	01
		BRIDGE 61121	107.00	0014	01
		Item 821.1690 Total:	440.00	_	
046	823.1750	ASPHALTIC EXPANSION JOINT SYSTEM LF			
		BRIDGE GROUP 16B			

BRIDGE 61101

110.00 0014 01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
046	823.1750 Cont.	BRIDGE 61121		110.00	0014	01
		Item	823.1750 Total:	220.00	_	
047	823.1760	STRIP SEAL EXPANSION	JOINT LF			
		ASSEMBLIES				
		BRIDGE GROUP 16B				
		BRIDGE 274		30.00	0014	01
		Item	823.1760 Total:	30.00	_	
048	824.9901	STEEL GIRDER REPAIRS	BRIDGE NO. 274 LBS			
		BRIDGE GROUP 16B				
		BRIDGE 274		1,100.00	0014	01
		Item	824.9901 Total:	1,100.00		
049	824.9902	STEEL GIRDER REPAIRS	BRIDGE NO. LBS			
		61101				
		BRIDGE GROUP 16B				
		BRIDGE 61101		80.00	0014	01
		Item	824.9902 Total:	80.00	_	
050	824.9903	STEEL GIRDER REPAIRS	BRIDGE NO LBS			
		61121				
		BRIDGE GROUP 16B				
		BRIDGE 61121		80.00	0014	01
		Item	824.9903 Total:	80.00	_	
051	825.9901	REPAINTING EXISTING	STRUCTURAL LS			
		STEEL - BRIDGE NO. 2	74			
		BRIDGE GROUP 16B				
		BRIDGE 274		1.00	0014	01
		Item	825.9901 Total:	1.00	_	

052 825.9902 REPAINTING STRUCTURL STEEL - LS

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	Pro	oject Name - Bridge Group 16B - FOS, JOH, PVD, SCI Estimate Name - BG16B - Addendum 1 R.I. Contract No 2019-CB-068 FAP Nos: BHO-PRES(010)			
Item No.	Item Code	Description UM	Qty.	Pay Code	Seq. No.
052	825.9902 Cont.	BRIDGE NO. 61101			
		BRIDGE GROUP 16B			
		BRIDGE 61101	1.00	0014	01
		Item 825.9902 Total:	1.00	_	
053	825.9903	REPAINTING EXISTING STRUCTURAL LS			
		STEEL - BRIDGE NO 61121			
		BRIDGE GROUP 16B			
		BRIDGE 61121	1.00	0014	01
		Item 825.9903 Total:	1.00	_	
054	826.0100	CONTAINMENT, COLLECTION, STORAGE LS			
		AND DISPOSAL OF DEBRIS AND SPENT			
		MATERIALS			
		BRIDGE GROUP 16B			
		PROJECT WIDE	1.00	0014	01
		Item 826.0100 Total:	1.00	_	
055	826.0200	PERSONNEL PROTECTION DURING LS			
		PAINTING AND CLEANING OPERATIONS			
		BRIDGE GROUP 16B			
		BRIDGE 274	0.34	0014	01
		BRIDGE 61101	0.33	0014	01
		BRIDGE 61121	0.33	0014	01
		Item 826.0200 Total:	1.00	_	
056	833.0400	GRANITE IDENTIFICATION TABLETS EACH			
		BRIDGE GROUP 16B			
		BRIDGE 274	2.00	0014	01
		BRIDGE 295	2.00	0014	01
		Item 833.0400 Total:	4.00	_	

057 835.0210 DECK SCUPPERS SINGLE COMPLETE WITH EACH

		Distribution of Quantities	5			
	Pro	oject Name - Bridge Group 16B - FOS, JO Estimate Name - BG16B - Addendum R.I. Contract No 2019-CB-068 FAP Nos: BHO-PRES(010)	H, PVD, SCI 1 3			
Item No.	Item Code	Description U	M Qt	y.	Pay Code	Seq. No.
057	835.0210 Cont.	DOWNSPOUT				
		BRIDGE GROUP 16B				
		BRIDGE 146	2.	00	0014	01
		Item 835.0210 Total:	2.	00	-	
058	836.0100	STRUCTURAL CONCRETE CRACK REPAIR LI	7			
		BY EPOXY-RESIN BASE ADHESIVE				
		INJECTION				
		BRIDGE GROUP 16B				
		BRIDGE 091	б.	00	0014	01
		BRIDGE 146	9.	00	0014	01
		Item 836.0100 Total:	15.	00	-	
059	839.0100	PARTIAL-DEPTH REMOVAL AND DISPOSAL SY	Ľ			
		OF BITUMINOUS PAVEMENT FROM				
		CONCRETE BRIDGE DECKS				
		BRIDGE GROUP 16B				
		BRIDGE 146	230.	00	0014	01
		Item 839.0100 Total:	230.	00	-	
060	839.0200	FULL DEPTH REMOVAL AND DISPOSAL OF SY	ζ.			
		BITUMINOUS PAVEMENT FROM CONCRETE				
		BRIDGE DECKS				
		BRIDGE GROUP 16B				
		BRIDGE 61101	10.	00	0014	01
		BRIDGE 61121	10.	00	0014	01
		Item 839.0200 Total:	20.	00	-	
061	842.0100	ANTI-GRAFFITI COATING SI	?			
		BRIDGE GROUP 16B				
		BRIDGE 605	9,000.	00	0014	01
		Item 842.0100 Total:	9,000.	00	-	

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		Distribution of Quantities			
		Project Name - Bridge Group 16B - FOS, JOH, Estimate Name - BG16B - Addendum 1 R.I. Contract No 2019-CB-068 FAP Nos: BHO-PRES(010)	PVD, SCI		
Item No.	Item Code	Description UM	Qty.	Pay Code	Seq. No.
062	901.0161	GUARDRAIL STEEL BEAM POST (IN EACH	[
		EARTH AND ASPHALT)			
		BRIDGE GROUP 16B			
		BRIDGE 295	2.00	0014	01
		Item 901.0161 Total:	2.00	-	
063	901.0193	GUARDRAIL STEEL BEAM SINGLE FACE LF			
		STANDARD 34.2.0			
		BRIDGE GROUP 16B			
		BRIDGE 295	20.00	0014	01
		Item 901.0193 Total:	20.00	-	
064	901.0197	GUARDRAIL CONNECTION TO EXISTING EACH	ſ		
		ENDPOST APPROACH END SECTION,			
		STANDARD 34.3.5			
		BRIDGE GROUP 16B			
		BRIDGE 295	2.00	0014	01
		Item 901.0197 Total:	2.00	_	
065	903.0410	TEMPORARY CHAIN LINK FENCE LF			
		BRIDGE GROUP 16B			
		BRIDGE 146	300.00	0014	01
		Item 903.0410 Total:	300.00	_	
066	905.0110	PORTLAND CEMENT SIDEWALK CY			
		MONOLITHIC STANDARD 43.1.0			
		BRIDGE GROUP 16B			
		BRIDGE 083	4.00	0014	01
		BRIDGE 232	2.00	0014	01
		Item 905.0110 Total:	6.00	_	

067 905.0140 BITUMINOUS SIDEWALK STANDARD 43.2.0 TON

BRIDGE GROUP 16B

Distribution of Quantities Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI Estimate Name - BG16B - Addendum 1 R.I. Contract No. - 2019-CB-068 FAP Nos: BHO-PRES(010) Item Item Code UΜ Description Qty. Pay Seq. Code No. No. 067 BRIDGE 317 905.0140 Cont. 50.00 0014 01 Item 905.0140 Total: 50.00 068 906.0110 GRANITE CURB, QUARRY SPLIT \mathbf{LF} STRAIGHT, STANDARD 7.3.0 BRIDGE GROUP 16B 20.00 0014 01 BRIDGE 232 Item 906.0110 Total: 20.00 069 906.0240 CEMENT CONCRETE CURB TYPES 10'' X LF 10'' STRAIGHT BRIDGE GROUP 16B BRIDGE 83 50.00 0014 01 Item 906.0240 Total: 50.00 Item 906.0700 Total: * *DELETED* * 071 907.0100 WATER FOR DUST CONTROL MGAL BRIDGE GROUP 16B BRIDGE 146 1.00 0014 01 Item 907.0100 Total: 1.00 072 914.5010 FLAGPERSONS MHRS BRIDGE GROUP 16B BRIDGE 146 50.00 0014 01 BRIDGE 232 50.00 0014 01 BRIDGE 274 3,552.00 0014 01

BRIDGE 295

01

50.00 0014

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	Pro	oject Name - Bridge Group 16B - FOS, Jo Estimate Name - BG16B - Addendur R.I. Contract No 2019-CB-06 FAP Nos: BHO-PRES(010)	OH, PVD, m 1 8	SCI		
Item No.	Item Code	Description U	M	Qty.	Pay Code	Seq. No.
072	914.5010 Cont.	BRIDGE 317		576.00	0014	01
		BRIDGE 83		696.00	0014	01
		BRIDGE 91		50.00	0014	01
		Item 914.5010 Total:		5,024.00	_	
073	914.5020	FLAGPERSONS - OVERTIME M	HRS			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1,005.00	0014	01
		Item 914.5020 Total:		1,005.00	-	
074	920.0055	PLACED STONE RIPRAP R-3, R-4, R-5 S STANDARD 8.3.0	Y			
		DETCE 205		10 00	0014	01
		Ttem 920 0055 Total.		10.00	- -	01
		100m 920.0000 100a1.		10.00		
075	920.0140	BEDDING FOR RIPRAP FS-3 STANDARD S	Y			
		8.3.0				
		BRIDGE GROUP 16B				
		BRIDGE 295		10.00	0014	01
		Item 920.0140 Total:		10.00	_	
076	920.0200	FILTER FABRIC FOR RIP-RAP S	Y			
		BRIDGE GROUP 16B				
		BRIDGE 295		10.00	0014	01
		Item 920.0200 Total:		10.00		
077	922.0100	TEMPORARY CONSTRUCTION SIGNS S	F			
		STANDARD 29.1.0 AND 27.1.1				
		BRIDGE GROUP 16B				
		PROJECT WIDE		3,430.00	0014	01

Item 922.0100 Total: 3,430.00

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Distribution of Quantities

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI Estimate Name - BG16B - Addendum 1 R.I. Contract No. - 2019-CB-068 FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
078	923.0105	DRUM BARRICADE STANDARD 26.2.0	BDAY			
		BRIDGE GROUP 16B				
		BRIDGE 146		1,192.00	0014	01
		BRIDGE 274		2,960.00	0014	01
		BRIDGE 295		525.00	0014	01
		BRIDGE 317		480.00	0014	01
		BRIDGE 605		625.00	0014	01
		BRIDGE 610		375.00	0014	01
		BRIDGE 61101		2,610.00	0014	01
		BRIDGE 61121		2,995.00	0014	01
		BRIDGE 83		580.00	0014	01
		Item 923.0105 Total	:	12,342.00	_	
079	923.0125	PLASTIC PIPE TYPE III BARRICADE	EACH			
		STANDARD 26.3.1				
		BRIDGE GROUP 16B				
		PROJECT WIDE		21.00	0014	01
		Item 923.0125 Total	:	21.00	_	
080	923.0200	FLUORESCENT TRAFFIC CONES STANDARD	EACH			
		26.1.0				
		BRIDGE GROUP 16B				
		PROJECT WIDE		97.00	0014	01
		Item 923.0200 Total	:	97.00	-	
081	924.0113	ADVANCE WARNING ARROW PANEL	PDAY			
		BRIDGE GROUP 16B				
		PROJECT WIDE		219.00	0014	01
		Item 924.0113 Total	:	219.00		
082	925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	PDAY			
		BRIDGE GROUP 16B				
		PROJECT WIDE		88.00	0014	01

Page	17	of	2.0
LUGC	- ·		20

Distribution of Quantities Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI Estimate Name - BG16B - Addendum 1 R.I. Contract No. - 2019-CB-068 FAP Nos: BHO-PRES(010) Item Item Code Description UM Qty. Pay Seq. Code No. No. 082 925.0112 Cont. Item 925.0112 Total: 88.00 083 926.0140 REFLECTIVE DELINEATORS FOR EACH TEMPORARY CONCRETE BARRIERS BRIDGE GROUP 16B PROJECT WIDE 27.00 0014 01 27.00 Item 926.0140 Total: 084 926.9901 TEMPORARY IMPACT ATTENUATOR EACH BRIDGE GROUP 16B PROJECT WIDE 8.00 0014 01 Item 926.9901 Total: 8.00 085 926.9902 REMOVE AND RESET TEMPORARY IMPACT EACH ATTENUATOR BRIDGE GROUP 16B PROJECT WIDE 6.00 0014 01 Item 926.9902 Total: 6.00 086 926.9903 RELOCATE PRECAST MEDIAN BARRIER \mathbf{LF} FOR TEMPORARY TRAFFIC CONTROL BRIDGE GROUP 16B PROJECT WIDE 685.00 0014 01 Item 926.9903 Total: 685.00 087 926.9904 UNANCHORED BARRIER FOR TEMPORARY \mathbf{LF} TRAFFIC CONTROL BRIDGE GROUP 16B PROJECT WIDE 875.00 0014 01 Item 926.9904 Total: 875.00

088 928.9901 TRUCK MOUNTED ATTENUATOR WITH HRS

TRUCK MOUNTED FLASHING ARROW

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Page	IX	$\cap t$	-20
LUGC	T O	ΟL	20

		Distribution	n of Quantities	5		
	Prc	ject Name - Bridge Gr Estimate Name - R.I. Contract FAP Nos:	oup 16B - FOS, JOH, BG16B - Addendum 1 No 2019-CB-068 BHO-PRES(010)	PVD, SCI		
Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
088	928.9901 Cont.	BRIDGE GROUP 16B				
		PROJECT WIDE		664.00	0014	01
		Item	928.9901 Total:	664.00	_	
089	929.0110	FIELD OFFICE	РМО			
		BRIDGE GROUP 16B				
		PROJECT WIDE		16.00	0014	01
		Item	929.0110 Total:	16.00	_	
090	931.0110	CLEANING AND SWEEPING	PAVEMENT HSY			
		BRIDGE GROUP 16B				
		BRIDGE 146		5.00	0014	01
		Item	931.0110 Total:	5.00	-	
091	932.0200	FULL-DEPTH SAWCUT OF	BITUMINOUS LF			
		PAVEMENT				
		BRIDGE GROUP 16B				
		BRIDGE 146		400.00	0014	01
		BRIDGE 232		30.00	0014	01
		BRIDGE 83		50.00	0014	01
		Item	932.0200 Total:	480.00	-	
092	936.0110	MOBILIZATION	LS			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
		Item	936.0110 Total:	1.00	_	
093	937.0200	MAINTENANCE AND MOVEM	IENT TRAFFIC LS			
		PROTECTION				
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01

Item 937.0200 Total: 1.00

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Page	19	of	20
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		Distribution of Quantit	ies			
		Project Name - Bridge Group 16B - FOS, Estimate Name - BG16B - Adder R.I. Contract No 2019-CB FAP Nos: BHO-PRES(010)	, JOH, PVD, ndum 1 -068	SCI		
Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
094	L09.9901	SELECTIVE CLEARING	LS			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
		Item L09.9901 Tota	1:	1.00	_	
095	T20.0706	6 INCH WHITE WATERBORNE PAINT	LF			
		PAVEMENT MARKINGS				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		1,540.00	0014	01
		Item T20.0706 Tota	1:	1,540.00		
096	T20.0712	12 INCH WHITE WATERBORNE PAINT	LF			
		PAVEMENT MARKINGS				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		90.00	0014	01
		Item T20.0712 Tota	1:	90.00		
097	T20.0906	6 INCH YELLOW WATERBORNE PAINT	LF			
		PAVEMENT MARKINGS				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		2,070.00	0014	01
		Item T20.0906 Tota	1:	2,070.00	_	
098	T20.2406	6 INCH WHITE FINAL EPOXY RESIN	LF			
		PAVEMENT MARKINGS				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		970.00	0014	01
		Item T20.2406 Tota	1:	970.00	_	
099	T20.2412	12 INCH WHITE FINAL EPOXY RESIN	LF			
		PAVEMENT MARKINGS				
		BRIDGE GROUP 16B				

BRIDGE GROUP 16B

		Distribution of Quantities	-		
	Pro	oject Name - Bridge Group 16B - FOS, JOH, Estimate Name - BG16B - Addendum 1 R.I. Contract No 2019-CB-068 FAP Nos: BHO-PRES(010)	PVD, SCI		
Item No	Item Code	Description UM	Qty.	Pay Code	Seq.
099	T20.2412 Cont.	Item T20.2412 Total:	230.00	coue	NO.
100	T20.2804	4 INCH YELLOW FINAL EPOXY RESIN LF			
		PAVEMENT MARKINGS			
		BRIDGE GROUP 16B			
		BRIDGE GROUP 16B	950.00	0014	01
		Item T20.2804 Total:	950.00	_	
101	T20.2812	12 INCH YELLOW FINAL EPOXY RESIN LF			
		PAVEMENT MARKINGS			
		BRIDGE GROUP 16B			
		BRIDGE GROUP 16B	280.00	0014	01
		Item T20.2812 Total:	280.00	_	
102	T20.4506	REMOVE PAVEMENT MARKING LINE - LF			
		LESS THAN OR EQUAL TO 6 INCHES			
		WIDE			
		BRIDGE GROUP 16B			
		PROJECT WIDE	4,900.00	0014	01
		Item T20.4506 Total:	4,900.00	_	
103	201.0401	REMOVE AND DISPOSE GRANITE CURB			
		BRIDGE GROUP 16B			
		BRIDGE 232	20.00	0014	01
		Item 201.0401 Total:	20.00	-	
104	824.9904	TEMPORARY TRAFFIC PLATE BRIDGE 274 LS			
		BRIDGE GROUP 16B			
		BRIDGE 274	1.00	0014	01

Item 824.9904 Total: 1.00

GE	ENERAL NOTES:				
1.	ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:	<u>C</u>	ONCRETE NOTES:		
	• THE LATEST EDITION OF AND SUPPLEMENTS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).	1.	CLASSES OF CONCRETE SHALL BE HIGH PE SPECIFICATIONS AND THE SPECIAL PROVISIO NOTES FOR CLASSES OF CONCRETE SPECIF	RFORMANCE CLA NS OF THE SPE IED FOR VARIOU	ASS HP AS DESCRIBED IN T CIFICATIONS REFER TO THE S COMPONENTS.
	 THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, EIGHTH EDITION, INCLUDING THE LATEST INTERIM REVISIONS. 	2.	THE CONTRACTOR MAY, AT THE APPROVAL (SELF-CONSOLIDATING CONCRETE FOR ANY (OF THE ENGINEE CLASS OF CONC	R, PROPOSE THE USE OF RETE ON THIS PROJECT. S
	THE SPECIFICATIONS ACCOMPANYING THESE PLANS.		"SELF-CONSOLIDATING CONCRETE (SCC)", C OF CONCRETE MIX DESIGN FOR ALL SELF-(ONTAINS THE RE	EQUIREMENTS FOR MODIFYIN APPLICATIONS.
2	IN CASE OF CONFLICT, THE SPECIAL PROVISIONS OF THE SPECIFICATIONS ACCOMPANYING THESE PLANS SHALL GOVERN. DIMENSIONS STATIONS AND FLEVATION ARE SHOWN TO THE NEAREST ONE-HUNDRETH OF A FOOT OR	3.	ALL PORTLAND CEMENT CONCRETE SHALL B STANDARD SPECIFICATIONS.	E AIR-ENTRAINE	ED PER THE REQUIREMENTS
2.	ONE-EIGHTH OF AN INCH, EXCEPT STRUCTURAL STEEL DIMENSIONS WHICH ARE TO THE NEAREST ONE-SIXTEENTH OF AN INCH. UNLESS OTHERWISE NOTED, ALL DIMENSIONS SHALL BE ASSUMED TO OCCUR AT 70 DEGREES F.	4.	UNLESS OTHERWISE NOTED ON THE PLANS, TIES AND MISCELLANEOUS HARDWARE USED GAI VANIZED	ALL REINFORCIN FOR PLACEMEN	NG STEEL SHALL BE GALVA IT OF REINFORCING STEEL
<u>3.</u>	ALL ELEVATIONS ARE BASED ON THE ORIGINAL CONSTRUCTION PLANS, INCLUDED WITHIN THE CONTRACT	5.	ALL CRITICAL LAP SPLICES SHALL BE SHOW SHALL BE LAPPED IN ACCORDANCE WITH TH	'N ON THE PLAN 1E AASHTO LRFE	NS. ALL SPLICES NOT SHON D BRIDGE DESIGN SPECIFICA
4.	COORDINATES USED ON THESE PLANS ARE BASED ON THE ORIGINAL CONSTRUCTION PLANS, INCLUDED WITHIN THE CONTRACT DOCUMENTS.	6.	C LAP SPLICES. THE TOP BARS IN THE DECK SLABS SHALL	BE SPLICED AT	THE CENTER OF SPANS E
5.	ANGLES ARE SHOWN TO THE NEAREST SECOND.	7	THE BUTTOM BARS SHALL BE SPLICED OVER	T THE GIRDERS.	
6.	WORKING POINTS ARE SHOWN AT THE CENTERLINES OF BEARINGS OF ABUTMENTS AND PIERS UNLESS OTHERWISE NOTED.	7.	FOLLOWING MINIMUM COVER:	NS, ALL MAIN R	EINFORCING BARS SHALL F
7.	ALL ABUTMENTS AND WALLS ARE DRAWN LOOKING AT THE EXPOSED FACES.		ERMANENTLY EXPOSED TO EARTH (FOOTINGS, ABUTMENTS		3"
0.	SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.		DECK SLABS (WITH WEARING	TOP	2" (+ 1/4", -0") 1" (+ 1/8" -0")
9.	APPROVED BY THE ENGINEER. THE EQUIPMENT AND MATERIAL SHALL BE PLACED IN A STORAGE AREA SO AS NOT TO CAUSE A SAFETY HAZARD.		DECK SLABS (EXPOSED DECK)	TOP	3" (+ 1/4", -0") 1" (+ 1/8", -0")
10.	. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, DETAILS, ANGLES, STRUCTURAL MEMBER SIZES, AND LAYOUTS AS SHOWN ON THESE PLANS. THIS PRIOR FIELD VERIFICATION IS ESPECIALLY PERTINENT FOR PRE-FABRICATED STRUCTURAL ITEMS, WORK IN THE		ALL OTHER BARS	201101	2"
11.	VICINITY OF UTILITIES, AND FOR EXISTING STRUCTURAL ITEMS TO REMAIN. . THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTION TO ENSURE THE STABILITY OF ALL STRUCTURAL		COVER TO TIES AND STIRRUPS MAY BE 0.5 REINFORCING, BUT IN NO CASE LESS THAN THE REQUIREMENT UNLESS OTHERWISE NOT	INCH LESS THA 1.5 INCHES. EX ED	AN THE ABOVE VALUES SPI XISTING REINFORCING SHALI
12.	. FOR REQUIRED SEQUENCE OF CONSTRUCTION, SEE CONTRACT DOCUMENTS UNDER GENERAL	8.	ANCHOR RODS SHALL CONFORM TO ASTM F DIPPED GALVANIZED IN ACCORDANCE WITH A	1554. ANCHOR ASHTO DESIGNA	RODS, NUTS AND WASHERS TION M 232.
	TRAFFIC.	9.	ALL ANCHOR BOLTS SHALL BE SET PRIOR	TO PLACEMENT	OF CONCRETE UNLESS OTH
13.	. IF THIS PROJECT IS ON A HURRICANE EVACUATION ROUTE AS DESIGNATED ON THE COVER SHEET, THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE, THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL. ANY EXTRA WORK NECESSARY TO COMPLY WITH THESE	1C	AUTHORIZED BY THE ENGINEER.). ALL EXPOSED EDGES AND REENTRANT CORN A MINIMUM OF ≩" CHAMFER.	VERS NOT OTHE	RWISE DETAILED ON THE P
	REQUIREMENT WILL BE REIMBURSED UNDER FORCE ACCOUNT PROCEDURES.	11	. ALL JOINT SEALANT SHALL BE POLYURETHAN	NE, POLYURETHA	NE ELASTOMERIC, OR SILIC
			DESIGNATED ON THE PLANS. THE COLOR OF NEUTRAL (LIGHT GRAY OR TAN). THE COLOF	? THE JOINT SE/ ₹ OF THE SEALA	ALANT, WHERE IS EXPOSED, ANT, WHERE NOT EXPOSED,
1.	 THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, 2018, INCLUDING ALL INTERIM 	10	DISCRETION OF THE CONTRACTOR.		CONCRETE STAINS OR DI
	REVISIONS TO DATE.	١Z	DURING CONSTRUCTION UNTIL SUCH TIME W CONCRETE STAINS OR DISCOLORATION OCCU	HEN THE SURFA	ACES ARE APPROVED AND A O ACCEPTANCE OF THE SU
	• THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL, 2007 EDITION INCLUDING ALL REVISIONS TO DATE.		REMOVED BY THE CONTRACTOR AT NO ADDI	TIONAL COST TO) THE STATE.
	• ALL OTHER APPLICABLE DESIGN SPECIFICATIONS ARE REFERENCED IN SECTION 1 OF THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL DATED 2007.	13	5. UNLESS OTHERWISE NOTED ON THE PLANS, NON-EXTRUDING TYPE IN ACCORDANCE WITH	JOINT FILLER IS 1 SECTION M.02	S TO BE PREFORMED, NON 11.1 OF THE RI STANDARI
	 THE LATEST REVISIONS OF AND SUPPLEMENTS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS). 	14	. UNLESS OTHERWISE INDICATED ON THE PLA THAT WILL PRODUCE THE DIMENSIONS SHOW	NS, ALL DECK F VN ON THE PLA	FORMS SHALL BE OF THE INS.
	 IN CASE OF CONFLICT, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL SHALL GOVERN. 	15	5. EMBEDMENT LENGTHS FOR DRILLED AND GR 819 OF THE RI STANDARD SPECIFICATIONS.	OUTED DOWELS	SHALL BE IN ACCORDANCE
MA	ATERIALS:	16	3. IN ACCORDANCE WITH THE RI STANDARD SP	ECIFICATIONS, A	LL METAL TIES OR ANCHOR
	LESS OTHERWISE NOTED ALL MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS:		LEAST TWO INCHES BELOW THE EXPOSED S	L BE SO CONST URFACE OF THE	CONCRETE WITHOUT CAUS
STI	RUCTURAL STEFT.		CONTRACTOR PROPOSES TO USE THEM, A C	CATALOG CUT AN	ND OTHER NECESSARY INFO
	 AASHTO DESIGNATION M 270, GRADE 50 		CONCRETE TO ALLOW FOR PROPER PATCHIN SUPPORT THE FORMS. ALL CAVITIES SHALL REQUIREMENTS OF ASTM C 928.	IG. SNAP TIES N BE FILLED WITH	MILL SNAF-OFF FAR ENOUG MUST PROVIDE ADEQUATE S APPROVED CEMENT MORTA
RE	INFORCING STEEL:	17	. HAND HELD VIBRATIONS SHALL BE FOUIPPE	D WITH RUBBER	TIPPED HEADS WHEN USF
	 AASHTO DESIGNATION M31, GRADE 60 	17	CONCRETE AROUND EPOXY OR GALVANIZED	REINFORCEMENT	AND EMBEDMENTS.
со	NCRETE STRENGTHS:				
	 CLASS HP 3" f'c = 5000 PSI (28 DAYS) DECK OVER BACKWALL, BACKWALL MODIFICATIONS, APPROACH SLAB, SUBSTRUCTURE FORM AND CAST-IN-PLACE REPAIR AND CONCRETE DECK REPAIR 				
	 RAPID SETTING MORTAR f'c = 5000 PSI (28 DAYS) SUBSTRUCTURE PATCHING MORTAR REPAIR 				

- N THE RI STANDARD HE "MATERIALS"
- SECTION 606 (ING ALL CLASSES
- OF THE RIDOT
- VANIZED. ALL WIRE L SHALL BE
- OWN ON THE PLANS CATIONS FOR CLASS
- BETWEEN GIRDERS.
- HAVE THE

- SPECIFIED FOR MAIN ALL BE EXEMPT FROM
 - ERS SHALL BE HOT
 - HERWISE
 - PLANS SHALL HAVE
 - ICONE SEALANT AS ED, SHALL BE , WILL BE AT THE
- DISCOLORATION ACCEPTED. ANY URFACES SHALL BE
- N-EXPANSIVE, RD SPECIFICATIONS.
- REMOVABLE TYPE
- E WITH SECTION
- RAGES WHICH ARE BE REMOVED TO AT JSING DAMAGE TO GINEER. IF THE ORMATION MUST BE UGH INTO THE STRENGTH TO RTAR MEETING THE
- SED TO CONSOLIDATE



REINFORCEMENT NOTES:	
THE CONTRACTOR BAR FABRICATOR SHALL VERIFY THE AND BENDING DIAGRAMS. ANY EXPENSE INCIDENT TO F ORIGINAL ORDER LISTS AND BENDING DIAGRAMS IN OR DRAWINGS SHALL BE BORNE BY THE CONTRACTOR, SH DETAILS AND SCHEDULE SHALL BE SUBMITTED TO THE CAREFUL CHECKING.	CORRECTIONS IN PREPARING HIS ORDER LISTS REVISIONS OF MATERIAL AS SHOWN ON THE DER TO MAKE IT COMPLY WITH THE DESIGN OP DRAWINGS FOR ALL REINFORCEMENT ENGINEER IN SUFFICIENT TIME TO PERMIT
REVISIONS	ADDENDUM No. 1
NO. DATE BY 1 10/01/19 LBG	RHODE ISLAND
	BRIDGE GROUP 16B
	PROVIDENCE COUNTY, RHODE ISLAND
Louis Berger	GENERAL BRIDGE NOTES SHEET 1 OF 3
166 VALLEY STREET PROVIDENCE, RI 02908 TEL 401 521 5980 WWW.LOUISBERGER.COM	CHECKED BY JPM DATE 09/11/19 SCALE AS NOTED
	GENERAL NOTES.DWG

FED. ROAD DIV. NO. STATE

R-1

FEDERAL AID PROJECT NO. FISCAL SHEET TOTAL YEAR NO. SHEETS

96

RI BHO-PRES(010) 2019 6





166 VALLEY STREET PROVIDENCE, RI 02908 TEL 401 521 5980 WWW.LOUISBERGER.COM

CHECKED BY JPM DATE 09/11/19 SCALE AS NOTED

BRIDGE SCUPPER MODIFICATION

146 BRIDGE SCUPPER REMOVAL.DWG



				1	FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	SHEETS
			K-	•		RI	BHO-PRES(010)	2019	39	96
NOT 1. RE 20 2. RE GI 1. CL CUE 1. CL 2. CC FC 3. CC 3. CC 4. CC 5. RE 40 6. RE IN DI 7. IN "C RE TALONG CURB FACE 5. CL 1. CL 2. CC 5. CL 5. RE 4. CL 5. RE 5. RE	<u>ES:</u>									
1. RE 20	MOVAL OF)1.0403 "R	EXISTING SIDEV EMOVE AND DIS	WALK SHALL SPOSE SIDE	BI WAL	E PAID _KS."	FOR	UNDER ITEN	l		
2. RE GF	MOVE CEM	ENT CONCRETE ROW BASE GRA	OR BITUMIN DE AND COL	NOL MP/	JS CON ACT.	ICRE	TE PATCH, RE	ETAIN		
CUR	B REPAII	R NOTES:								
1. CL	JRB REVEA	L SHALL BE 6"	AND SHALL	_ B	E TAPE	ERED	TO MEET EX	ISTING	7	
2. CC	NCRETE B	ASE SHALL CON	VFORM TO T	THE	REQUI		INTS OF AND	"BE f	PAID	
3. CC)ST OF SAN	WCUTTING TO F	ACILITATE CU		B REMO)VAL	SHALL BE IN	CLUDI	ED T"	
4. CC EX AN	OST OF REI (ISTING SUE	MOVAL OF EXIS BBASE SHALL B E SIDEWALKS."	TING WEARIN E INCLUDED	NG) U	SURFA	CE A ITEM	ND EXCAVATIO 201.0403 "F	DN OF	т. . Е	
5. RE 40	PLACEMEN 01.2003 °C	T OF EXISTING LASS 12.5 HMA	WEARING SU FOR PATC	JRF HIN	ACE SI IG."	HALL	BE PAID UN	DER I	TEM	
6. RE INS DIS	MOVAL OF STALLATION SPOSE CON	EXISTING CURE SHALL BE PAI NCRETE CURB".	3 AND PREF D FOR UND	PAR. ER	ATION ITEM 2	FOR 201.0	NEW CURB 9402 "REMOV	e anc)	
7. IN: "C	STALLATION EMENT COI	OF CONCRETE	CURBS SH	ALL 10"	. BE P. STRAI	AID L GHT".	JNDER ITEM S FOR CURB	906.02	240	
	FLACEMEN	I DETAIL, SEE	SHELLIZ							
SED PRECAST	\sim	LEGENI):							
ALONG CURB FACE			REMOVE A	٩ND	RESE	t gr	ANITE CURB			
ATE CURB REMOVAL 1' PAST END OF										
							ADDEND	JM	No.	1
G SURFACE		REVISIONS NO. DATE BY 1 10/01/19 LBG		тл			E ISLAND	ORT	-ΔTI	
E AND REPLACE WITH CLASS 12.5 HMA, DTE 4 AND 5.				<u> </u>						
T CONCRETE BASE, DTE 2			 E	3F	RIDG	EC	GROUP	16B)	
IG GRAVEL BORROW SE TO BE COMPACTE	D		PRO	DVI	DENCE	COL	JNTY, RHODE	ISLA	ND	
EVELED Louis Berge	er		B OVE	RIE ER S	DGE NC). 232 NS B	ATWOOD AV	'ENUE STON	: , RI	
166 VALLEY STR PROVIDENCE, RI 0 TFI 401 521 5	EET 2908 5980)E	WAI	_K	REPAIR	PL/	4N	
WWW.LOUISBERGER	R.COM		CHECKED B	Ý _	JPM	DAT	E <u>U9/11/19</u>	SCALE !	<u>45 NO</u>	IED

²³² DECK PLAN.DWG



				FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			Κ-Ι		RI	BHO-PRES(010)	2019	50	96
T WINGWALL									
GRANITE I.D.									
RIDGE NO.)									
DECK OVER									
MODIFICATION									
<u>∕</u> −₽ COLVIN	N STREET								
<u> </u>									
VT - (161)									
TYP.)									
I WINGWALL									
	DESCRIPTION OF	<u>WORK – BRID</u>	<u>GE NO. 274</u>	<u>1:</u>					
	1. DETERIORATED CO AND PATCHED. B	ONCRETE ON THE A OTH ABUTMENTS AN	BUTMENTS AND ND WINGWALLS) WING ARE T	NALLS O BE	5 SHALL BE F SEALED, SEE	REMO\ E	/ED	
	ABUTMENT SHEET	S FOR LOCATIONS.							
	2. STEEL GIRDERS A AREAS OF SECTION	ARE TO BE BLAST (ON LOSS ARE TO E	CLEANED AND BE REINFORCED	FIELD F) WITH	PAINT STEE	ED. GIRDERS L PLATES. SE	WITH E		
	UNDERSIDE PLAN	FOR LOCATIONS.					-		
	3. THE BRIDGE DEC	K OVERLAY AND WA	ATERPROOFING			SHALL BE RE	EMOVE	D	
	SPECIFICATIONS.	N ACCORDANCE WIT	TI SECTION 05	09 01		NDOT STANDA			
	4. SEE SHEET 53 F	OR DECK OVER BA	CKWALL AND E	BRIDGE	DEC	K JOINT DETA	ILS.		
	5. GRANITE I.D. TAB	LETS SHALL BE REI	PLACED, SEE S	SHEET :	51 F	OR DETAIL.			
	6. CONTRACTOR SHA	ALL SURVEY AND RE	ECORD STRIPIN	IG LOCA	ATION	S AND PATTE	RNS		
	PRIOR TO DECK	PAVEMENT REMOVAL	SEE SPECIAI	L PROV	ISION	IS.			
5						ADDENDU	JM	No.	1
		REVISIONS		RF		E ISI AND			
8.50		NO. DATE BY 1 10/01/19 LBG		ЛЕNT			ORT	ΆΤΙ	ON
			BF	RIDG	E C	GROUP '	16B		
			PROVI		COL	JNTY, RHODE	ISLAN	١D	
			BRIDG		274 C			 ER	
	Louis Borgor		PA'	WTUXE		/ER; SCITUAT	E, RI	_, 、	
	166 VALLEY STREET			GEN	IEF	RAL PLAI	N		
	PROVIDENCE, RI 02908 TEL 401 521 5980 WWW.LOUISBERGFR.COM		CHECKED BY	JPM	DAT	E <u>09/11/19</u> s	SCALE A	<u>s no</u>	TED

274 PLAN.DWG





STATE SEAL TABLET

BRIDGE NAME TABLET

NOTE: ALL FONT STYLES ARE TO BE TIMES NEW ROMAN, UNLESS NOTED OTHERWISE.





		REVISIONS			RHODE ISLAND
		NO.	DATE	BY	
		1	10/01/19	LBG	DEPARTMENT OF TRANSPORTATION
					BRIDGE GROUP 10B
					PROVIDENCE COUNTY, RHODE ISLAND
					BRIDGE NO. 274 COLVIN STREET OVER
					PAWTIXET RIVER' SCITIATE RI
	Louis Berger				
	166 VALLEY STREET				I YPICAL BRIDGE SECTION
~ .}	PROVIDENCE, RI 02908				
	WWW.LOUISBERGER.COM				CHECKED BY DATE 09/11/19 SCALE AS NOTED

274 TYPICAL SECTION.DWG





NORTH ABUTMENT ELEVATION SCALE: 1/4"=1'-0"



	R-1
	RI BHO-PRES(010) 2019 52 96
<u>LE</u>	<u>IGEND:</u>
	SPALLED OR SPALLED AND DELAMINATED CONCRETE
	AREA WITH OR WITHOUT EXPOSED REBAR, SEE NOTE 3
\boxtimes	DEMOLITION AREA
NC	DTES:
1.	ALL DIMENSIONS ARE APPROXIMATE AND TAKEN FROM LIMITED EXISTING PLANS, FIELD MEASUREMENTS AND INSPECTION REPORTS.
	CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO THE START OF WORK.
2	ALL EXPOSED SURFACES OF ABUTMENT STEMS BACKWALLS AND
	BEAM SEATS SHALL BE WASHED AND CLEANED PER THE
	CLEANING – BRIDGE NO. 274."
3	SEE SHEET 56 FOR CONCRETE REPAIR DETAILS
3.	ALL FACES OF ADUTMENT STEMS DACKWALLS AND DEAM SEATS
4.	SHALL RECEIVE CONCRETE SEALER PER REQUIREMENTS OF ITEM
	820.9906 "CONCRETE SURFACE TREATMENT (PROTECTIVE COATING).
5	SPALLED AND DELAMINATED AREAS THAT OVERLAP REQUIRED
	ONLY BE REPAIR BELOW CUTLINE.
LEVEL EL. 124.15	
	NO. DATE BY RHODE ISLAND
	1 10/01/19 LBG DEPARTMENT OF TRANSPORTATION
	PROVIDENCE COUNTY, RHODE ISLAND
	BRIDGE NO. 274 COLVIN STREET OVER
Louis Berger	
BISTIC 166 VALLEY STREET PROVIDENCE, RI 02908	
TEL 401 521 5980 WWW.LOUISBERGER.COM	CHECKED BY JPM DATE 09/11/19 SCALE AS NOTED
	274 ABUTMENT ELEVATIONS.DWG



		FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	
	K-I		RI	BHO-PRES(010)	2019	53	
<u>N0</u>	TES:						
1.	INSTALL CONTINUOUS NEOPRENE STRIP SEAL STRIP SEAL IS NOT PERMITTED.	IN FI	ELD.	FIELD SPLICI	NG O	F	
2.	THE ENTIRE EXPANSION STRIP SEAL FRAME SHALL BE ASSEMBLED, ERECTED AND SET TO GRADE PRIOR TO PLACING THE ELASTOMERIC CONCRETE. THE EXPANSION DAM SHALL BE CONSTRUCTED TO FOLLOW THE ROADWAY GRADE AND CROSS SLOPE.						
3.	STRIP SEAL FRAME SHALL BE AASHTO DESIGNATION M 270 GRADE 36. THE STUDS SHALL BE ASTM DESIGNATION A 108, AND SHALL BE WELDED BY THE PRESSURE PROCESS.						
4.	A COAT OF ASPHALTIC CEMENT PAINT SHALL SLIDING ON THE CONCRETE.	BE A	PPLIE	ED TO STEEL	SURF	ACES	
5.	ALL MATERIALS SHALL BE HOT DIPPED GALV	'ANIZEC	OR	METALIZED.			
6.	THESE DRAWINGS ARE TO BE USED AS A GUIDE IN THE PREPARATION OF THE SHOP DRAWINGS.						
7.	THE NEOPRENE STRIP SEAL SHALL BE BONDED TO THE SEAL FRAME WITH AN APPROVED ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.						
8.	THE TRANSVERSE BUTT WELDS FOR SPLICING OF THE STEEL FRAME SHALL BE PARTIAL PENETRATION DOUBLE V-GROOVE WELDS ON PREPARED BEVELED EDGES EXTENDING ALL AROUND THE JOINT AS FAR AS PRACTICAL TO ACHIEVE A WATERTIGHT SEAL. THE INSIDE OF THE SEAL CAVITY SHALL NOT BE WELDED. WHERE A TRANSVERSE JOINT OCCURS, TWO ADDITIONAL STUDS MUST BE ADDED ON EACH SIDE OF THE JOINT.						
9.	THE MOVEMENT CLASSIFICATION OF THE JOIN CLASSIFICATION SPECIFIED ON THE DRAWING	NT SHA S.	LL N	OT BE LESS	THAN	THE	
10.	. PLACE CURBS AND SIDEWALKS WITH STEEL SLIDING PLATES, WITH INSERTS AND BOLTS IN PLACE TO INSURE ALIGNMENT OF INSERTS WITH HOLES IN THE STEEL SLIDING PLATES. REMOVE PLATES TO INSTALL SEAL. APPLY BOND BREAKER TO SLIDING PLATES PRIOR TO INSTALLATION.						
11.	THE SEALS FURNISHED WITH THE STRIP SEA WITH THE STEEL FRAME AND MUST PROVIDE	A WA	ME M TERTI	UST BE COM GHT JOINT.	PATIB	LE	
	10" ± <u>3</u> "						
	<u>- " · 1 " - 1 " · 1 "</u>						



274 ROADWAY JOINTS 1.DWG



DWN)				م	81 BHO-PRES(010) 201	9 53A 96			
K	<u>NO</u>	<u>)TES:</u>							
OF CURB	1.	OF STRIP SEAL	NUOUS NEOPRENE _ IS NOT PERMITTE	STRIP SE D.	AL IN FIELD, FIELD	SPLICING			
	2.	THE ENTIRE EX ERECTED AND THE EXPANSION GRADE AND CF	KPANSION STRIP SE SET TO GRADE PR N DAM SHALL BE ROSS SLOPE.	EAL FRAMI IOR TO P CONSTRUC	E SHALL BE ASSEM OURING THE DECK CTED TO FOLLOW R	IBLED, CONCRETE. OADWAY			
	3.	STRIP SEAL FR THE STUDS SH WELDED BY TH	RAME SHALL BE AA HALL BE ASTM DES HE PRESSURE PROG	SHTO DES IGNATION CESS.	SIGNATION M 270 C A 108, AND SHALL	RADE 36. BE			
RB ANCHOR	4.	A COAT OF AS SURFACES SLIE	SPHALT CEMENT PA DING ON THE CONC	INT SHALL CRETE.	BE APPLIED TO S	STEEL			
	5.	ALL MATERIALS EXCEPT WHERE	SHALL BE HOT D IN CONTACT WITH	IPPED GA I THE COI	LVANIZED OR META NCRETE.	LIZED			
	6.	THESE STANDA PREPARATION (RD DRAWINGS ARE OF THE SHOP DRAV	TO BE U WINGS.	ISED AS A GUIDE I	N THE			
	7.	THE NEOPRENE STRIP SEAL SHALL BE BONDED TO THE SEAL FRAME WITH AN APPROVED ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.							
#5@12" BOTTOM OF PROP. HAUNCH	8.	THE TRANSVERSE BUTT WELDS FOR SPLICING OF THE STEEL FRAME SHALL BE PARTIAL PENETRATION DOUBLE V-GROOVE WELDS ON PREPARED BEVELED EDGES EXTENDING ALL AROUND THE JOINT AS FAR AS PRACTICAL TO ACHIEVE A WATERTIGHT SEAL. THE INSIDE OF THE SEAL CAVITY SHALL NOT BE WELDED. WHERE A TRANSVERSE JOINT OCCURS, TWO ADDITIONAL STUDS MUST BE ADDED ON EACH SIDE OF THE JOINT.							
END	9.	THE MOVEMEN ^T THAN THE CLA	T CLASSIFICATION C SSIFICATION SPECIF	OF THE JO	DINT SHALL NOT BE THE DRAWINGS.	E LESS			
	10.	PLACE CURBS INSERTS AND I WITH HOLES IN INSTALL SEAL. INSTALLATION.	AND SIDEWALKS W BOLTS IN PLACE TO N THE STEEL SLIDIN APPLY BOND BRE	'ITH STEEL O INSURE NG PLATES EAKER TO	SLIDING PLATES, ALIGNMENT OF INS S. REMOVE PLATE SLIDING PLATES P	WITH SERTS S TO PRIOR TO			
	11.	THE SEALS FU	RNISHED WITH THE	STRIP S	EAL FRAME MUST E PROVIDE A WATERT	BE IGHT JOINT.			
				WIDTH					
			15	.')	2 3/8				
			30		2 1/4				
			45		2 1/8				
			60		2				
			75		1 7/8				
€ BRG.			90		1 3/4				
FACE OF CU	RB								
DECK SIDE									
APPROACH SIDE									
	E		ET ADDED D			No. 1			
		NO. DATE 1 xx/xx/19		RHO MENT C	DE ISLAND DF TRANSPOF	RTATION			
			BF	RIDGE	GROUP 16	В			
					UUNIY, RHODE ISL	AND			
Louis Berge	er		PA PA		RIVER; SCITUATE, F				
166 VALLEY STRE B	EET 2908			SH	EET 2 OF 2	-			
TEL 401 521 5 WWW.LOUISBERGER	980 .COM		CHECKED BY	JPM [DATE <u>09/11/19</u> SCAL	E AS NOTED			
					274 ROADWAY	JOINTS 1.DW			

FISCAL SHEET TOTAL YEAR NO. SHEETS

FED. ROAD DIV. NO. STATE FEDERAL AID PROJECT NO.





R—1	FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		RI	BHO-PRES(010)	2019	57	96
<u>CRETE DECK REPAIR – NOTES:</u> ONCRETE BRIDGE DECK REPAIRS FOR FULL DEPTH PATCH REPAIR SH	ALL BE	IN .	ACCORDANCE	WITH		
ARTIAL DEPTH PATCH REPAIRS TO THE UNDERSIDE OF THE DECK SHA	ALL BE	IN A	CCORDANCE	WITH		
LL PARTIAL—DEPTH DECK PATCHES TO THE UNDERSIDE OF DECK SHA 317.2110 – REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING EPTHS GREATER THAN 50% OF CONCRETE DECK THICKNESS SHALL B 318.2010 – PORTLAND CEMENT CONCRETE DECK REPAIRS (FULL DEP OR ACCEPTABLE MATERIALS AND METHODS.	LL BE G MORT E PAID TH REN	PAID [AR)", FOR MOVA	FOR UNDER PATCHES WI UNDER ITEM L)". SEE PRO	ITEM TH VISION	NS	
HE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY DETERIORATIO HOWN ON THE PLANS AND SHALL NOT CONTINUE WORK WITHOUT DIR	N THA	F EXO S FR	CEED THE LIN OM THE ENG	IITS INEER	•	
DURING REMOVAL OF DETERIORATED CONCRETE, THE CONTRACTOR D THE EXTENT REQUIRING REPLACEMENT, ANY ADDITIONAL CONCRETE LEANING EXISTING REINFORCING STEEL, AND FURNISHING AND INSTALL TEEL SHALL BE AT THE CONTRACTOR'S EXPENSE. INSTALL ACCORDIN ETAIL.	AMAGES REMOV ING RE IG TO I	S EX AL, F EPLAC REINF	STING REINFO PATCHING MAT EMENT REINF ORCING REPL	ORCEN ERIAL ORCIN ACEM	IENT , NG IENT	
EINFORCEMENT USED TO REPLACE EXISTING DETERIORATED REINFORCI	NG STE	EL S	HALL BE GAL	VANIZ	ED.	
ARTIAL-DEPTH PATCHES SHALL BE USED IN AREAS WHERE SOUND CO ' DEPTH FROM THE FACE OF THE DECK SLAB OR REINFORCING STEE HALL BE REMOVED TO A MINIMUM DEPTH OF 1" PAST THE LAYER OF HE CONCRETE DECK THICKNESS. REPAIRS THAT REQUIRE REMOVAL OF ONCRETE DECK THICKNESS SHALL BE FULL-DEPTH REPAIRS.	DNCRET L IS EI EXISTI	TE IS NCOU ING S THA	REACHED MO NTERED, CON STEEL, UP TO N 50% OF T	DRE T ICRETI 50% HE	HAN E OF	
FACE PREPARATION NOTES:						
AW CUT AROUND REPAIR AREA PRIOR TO CONCRETE EXCAVATION, USE ESS AS REQUIRED TO AVOID CUTTING REINFORCING STEEL.	ED A C	UT C	EPTH OF 3/-	4" OR	R	
REINFORCING STEEL IS EXPOSED, CLEAN EXPOSED STEEL AND SURF	ROUNDI REPAIF	NG C RS".	ONCRETE AS	SPEC	IFIED	
HE CONTRACTOR SHALL ENSURE THAT ALL BOND INHIBITING MATERIAL ONDED AGGREGATE) HAVE BEEN REMOVED IMMEDIATELY PRIOR TO PAT	S (DIR ⁻ FCHING.	T, GR	EASE, LOOSE	LY		
ET CONCRETE REPAIR AREA SO THAT SUBSTRATE IS SATURATED. SUR ATER, WATER USED TO PREPARE AND WET THE SURFACE SHALL CON IHIBITING CHEMICALS.	FACE E TAIN N	ORY N O DE	VITH NOT STA TERGENTS OF	NDINO	G ID	
LL CONCRETE REPAIR MATERIALS SHALL BE IN ACCORDANCE WITH SP PORTLAND CEMENT CONCRETE BRIDGE DECK REPAIRS".	ECIFICA	TIONS	S PROVIDED I	N		
STRUCTION NOTES:						
NEW (GALVANIZED) REINFORCING BAR SHALL BE PLACED TO SUPPLE AR WHEN AN EXISTING REINFORCING BAR HAS SECTION LOSS OF 25% ROSS SECTION, AS DETERMINED BY THE ENGINEER, OR THE EXISTING ROKEN. THE NEW REINFORCING BAR SHALL EXTEND 43 BAR DIAMETER ECTION LOSS OR A BREAK IS PRESENT AND SHALL BE PLACED AT TH ETERIORATED OR BROKEN BAR. IN LIEU OF SUPPLEMENTING A BAR A HE CONTRACTOR MAY CUT OUT THE DETERIORATED BAR AND MECHAN XISTING REINFORCEMENT, SEE SUBSTRUCTURE CONCRETE REPAIRS FOR	MENT / REINF RS PAS HE SAM DJACEN ICALLY R DETA	AN E IORE ORCE T LO IE LE IT TC SPLI ILS.	XISTING REINF OF THE ORIC MENT HAS BE CATIONS WHE VEL ALONG T A DETERIOR CE THE NEW	FORCII GINAL EEN RE THE ATED BAR	NG BAR, TO	
HE FINISHED SURFACE OF ALL PATCHES SHALL BE EVEN WITH THE A ISCONTINUITIES GREATER THAN 1/8" SHALL BE GROUND DOWN OR RE	DJACEN EPAIREE	NT EX).	ISTING DECK	SLAB		

3. DECK REINFORCEMENT AND CONCRETE PATCH DETAILS PROVIDED ARE GENERAL, ACTUAL REINFORCEMENT SIZE AND SPACING WILL VARY.

		ADDENDUM No. 1
	REVISIONS NO. DATE BY 1 10/01/19 LBG	RHODE ISLAND DEPARTMENT OF TRANSPORTATION
		BRIDGE GROUP 16B PROVIDENCE COUNTY, RHODE ISLAND
Louis Berger 166 VALLEY STREET PROVIDENCE, RI 02908 TEL 401 521 5980		BRIDGE NO. 274 COLVIN STREET OVER PAWTUXET RIVER; SCITUATE, RI CONCRETE DECK REPAIR DETAILS
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274 CONCRETE DECK REPAIR DETAILS.DWG



²⁹⁵ END POST DETAILS.DWG