

May 1, 2020

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7602831

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2020-CB-015

FEDERAL-AID PROJECT NO. FAP Nos: BHO-PRES(012)

Bridge Group 10 - I-295

Statewide

CITY/TOWN OF Smithfield

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 3 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

A. General Provisions - Contract Specific

1. CS-ii

Delete page CS-ii in its entirety and replace it with page CS-ii(R-1) attached to this Addendum No. 3. The title of Section 34 has been changed.

2. CS-6

Delete page CS-6 in its entirety and replace it with page CS-6(R-1) attached to this Addendum No. 3. The type of membrane waterproofing has been changed in the list of Shop Drawings and Submittals.

3. CS-14

Delete page CS-14 in its entirety and replace it with page CS-14(R-1) attached to this Addendum No. 3. The title of Section 34 have been changed and requirements for bridge or roadway closure/split/shift/travel lane width reductions have changed.

B. Specifications - Job Specific

1. JS-i

Delete page JS-i in its entirety and replace it with page JS-i(R-1) attached to this Addendum No. 3. Item Code 810.99 has been changed to Item Code 810.9901.

2. JS-15 & JS-16

Delete pages JS-15 & JS-16 in their entirety and replace it with pages JS-15(R-1) & JS-16(R-1) attached to this Addendum No. 3. Item Code 810.99 has been changed to Item Code 810.9901 and the Method of Measurement and Basis of Payment have been revised.

3. JS-35

Delete page JS-35 in its entirety and replace it with page JS-35(R-1) attached to this Addendum No. 3. The title for Code 828.9902 has been corrected.

C. Distribution of Quantities

1. Index Pages

Delete Pages Index 1 through Index 3 in their entirety and replace with Pages Index 1(R-1) through Index 3(R-1) attached to this Addendum No. 3. Items with changes are indicated in bold type.

2. Page 4

Delete Page 4 in its entirety and replace it with Page 4(R-1) attached to this Addendum No. 3. Item 401.3000 has been removed.

3. Page 5

Delete Page 5 in its entirety and replace it with Pages 5(R-1) and 5a attached to this Addendum No. 3. Quantities for Item Code 401.3101 have changed.

4. Page 41

Delete Page 41 in its entirety and replace it with Pages 41(R-1) and 42 attached to this Addendum No. 3. Item Codes 810.0702 and 810.9901 have been added.

D. Proposal Addition/Deletion

1. Proposal Pages

Items with changes are indicated in bold type.

E. Drawings/Plans - Change/Addition

1. Sheet No. 11 - Concrete Repair Details

Revise Sheet No. 11 as shown on Sketch Nos. 1(R-1) and 2(R-1) attached to this Addendum No. 3. A note regarding spacing of galvanic anodes has been added and payment for welded wire fabric and galvanic anodes has been changed.

2. Sheet No. 13 - Mountindale Road Bridge Nos. 074201 & 074221 - Bridge Typical Sections

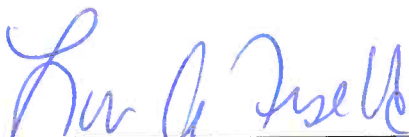
Revise Sheet No. 13 as shown on Sketch Nos. 3(R-1) and 4(R-1) attached to this Addendum No. 3. The pavement structures at approaches and on the bridge have been changed.

3. Sheet No. 17 - Mountindale Road Bridge Nos. 074201 & 072421 - Joint Details - 1

Revise Sheet No. 17 as shown on Sketch Nos. 5(R-1) and 6(R-1) attached to this Addendum No. 3. Sequence for Bridge Joint Work and Repaving Note No. 4 has been revised and the pavement structure at approaches has been changed.

4. Sheet No. 20 - Mountaindale Road Bridge Nos. 074201 & 074221 - Joint Details - 4
Revise Sheet No. 20 as shown on Sketch No. 7(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.
5. Sheet No. 23 - Farnum Pike Bridge Nos. 074301 & 074321 - Bridge Typical Sections
Revise Sheet No. 23 as shown on Sketch Nos. 8(R-1) through 10(R-1) attached to this Addendum No. 3. The pavement structures on the approaches and the bridges have been changed.
6. Sheet No. 27 - Farnum Pike Bridge Nos. 074301 & 074321 - Joint Details - 1
Revise Sheet No. 27 as shown on Sketch Nos. 11(R-1) and 12(R-1) attached to this Addendum No. 3. Sequence for Bridge Joint Work and Repaving Note No. 4 has been revised and the pavement structure at approaches has been changed.
7. Sheet No. 28 - Farnum Pike Bridge Nos. 074301 & 074321 - Joint Details - 2
Revise Sheet No. 28 as shown on Sketch No. 13(R-1) attached to this Addendum No. 3. A note has been added regarding payment for the full depth sawcut of granite curb.
8. Sheet No. 29 - Farnum Pike Bridge Nos. 074301 & 074321 - Joint Details - 3
Revise Sheet No. 29 as shown on Sketch No. 14(R-1) attached to this Addendum No. 3. A note has been added regarding payment for the full depth sawcut of granite curb.
9. Sheet No. 30 - Farnum Pike Bridge Nos. 074301 & 074321 - Joint Details - 4
Revise Sheet No. 30 as shown on Sketch No. 15(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.
10. Sheet No. 34 - Georgiaville Pond Bridge No. 074401 - Culvert General Plan and Sections
Revise Sheet No. 34 as shown on Sketch No. 16(R-1) attached to this Addendum No. 3. Note 4 has been revised regarding payment for the removal of the dewatering system and Note No. 9 has been added indicating repairs shall be in accordance with details shown on Sheet No. 11.
11. Sheet No. 41 - Mowry Road Bridge Nos. 074501 & 074521 - Joint Details - 1
Revise Sheet No. 41 as shown on Sketch No. 17(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.
12. Sheet No. 42 - Mowry Road Bridge Nos. 074501 & 074521 - Joint Details - 2
Revise Sheet No. 42 as shown on Sketch No. 18(R-1) attached to this Addendum No. 3. A note has been added regarding payment for full depth sawcut of granite curb.
13. Sheet No. 44 - Mowry Road Bridge Nos. 074501 & 074521 - Joint Details - 4
Revise Sheet No. 44 as shown on Sketch No. 19(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.
14. Sheet No. 47 - George Washington Highway Bridge No. 074701 - Bridge Typical Sections
Revise Sheet No. 47 as shown on Sketch No. 20(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.
15. Sheet No. 51 - George Washington Highway Bridge No. 074701 - Substructure Repairs - 3
Revise Sheet No. 51 as shown on Sketch Nos. 21(R-1) attached to this Addendum No. 3. Note No. 4 has been added regarding galvanic anodes not being required for pier column concrete repairs.

16. Sheet No. 56 - George Washington Highway Bridge No. 074701 - Bridge Deck Repair Details
Revise Sheet No. 56 as shown on Sketch Nos. 22(R-1) and 23(R-1) attached to this Addendum No. 3. Bridge Deck Repair Note No. 6 has been revised and a note regarding spacing of the galvanic anodes has been added.
17. Sheet No. 57 - George Washington Highway Bridge No. 074701 - Joint Details - 1
Revise Sheet No. 57 as shown on Sketch No. 24(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.
18. Sheet No. 58 - George Washington Highway Bridge No. 074701 - Joint Details - 2
Revise Sheet No. 58 as shown on Sketch No. 25(R-1) attached to this Addendum No. 3. A note has been added regarding payment for the full depth sawcut of granite curb.
19. Sheet No. 59 - George Washington Highway Bridge No. 074701
Revise Sheet No. 59 as shown on Sketch No. 26(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.
20. Sheet No. 60 - George Washington Highway Bridge No. 074701 - Scupper Removal Details
Revise Sheet No. 60 as shown on Sketch No. 27(R-1) attached to this Addendum No. 3. A note has been added regarding payment for R&D of existing scupper.
21. Sheet No. 68 - Douglas Pike Ramp Bridge Nos. 079701 & 079821 - Bridge Deck Repair Details
Revise Sheet No. 68 as shown on Sketch Nos. 28(R-1) and 29(R-1) attached to this Addendum No. 3. Bridge Deck Repair Note No. 6 has been revised and a note has been added regarding spacing of galvanic anodes.
22. Sheet No. 69 - Douglas Pike Ramp Bridge Nos. 079701 & 079801 - Joint Details - 1
Revise Sheet No. 69 as shown on Sketch No. 30(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.
23. Sheet No. 70 - Douglas Pike Ramp Bridge Nos. 079701 & 079801 - Joint Details - 2
Revise Sheet No. 70 as shown on Sketch No. 31(R-1) attached to this Addendum No. 3. A call-out has been added for the full depth sawcut of existing sloped face granite curb and a note has been added regarding payment for this sawcut.
24. Sheet No. 72 - Douglas Pike Ramp Bridge Nos. 079701 & 079801 - Joint Details - 4
Revise Sheet No. 72 as shown on Sketch No. 32(R-1) attached to this Addendum No. 3. The pavement structure at approaches has been changed.



RI Department of Transportation

Administrator, Division of Project Management

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GENERAL PROVISIONS – CONTRACT SPECIFIC

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28.	Acceptance Sampling and Testing	CS-11
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30.	Unit Bid Item and Lump Sum Bid Item Payments	CS-11
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32.	Request for Information (RFI)	CS-12
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APPENDIX A – Transportation Management Plan

APPENDIX B – SMALL-SITE Stormwater Pollution Prevention Plan (SWPPP)

APPENDIX C – RIDEM Insignificant Alteration – Permit for Georgiaville Pond Culvert Bridge
No. 074401

APPENDIX D – Paint Chip Sample Report

11. POLICE COMPENSATION

It will be the responsibility of the Resident Engineer to retain the service of the State and local police with cruiser for traffic control and protection for this project. The Contractor will not be required to bid on, or compensate for, the service of the State and local police.

12. SHOP DRAWINGS AND SUBMITTALS

The following list of bridge/structural items of work for which shop drawings and/or other submittals are required is provided for the convenience of the contractor. This list includes only major items of bridge/structural work; it does not itemize all submittals required by the contract documents. All submittals shall be in accordance with Section 105.02 of the Specifications. The contractor is responsible for timely submission of all shop drawings and other documents required by the contract. No extra payment will be made, nor will any extension be made to the contract completion date for making required submittals.

- a. Bridge Demolition; Equipment and Detailed Sequence of Work
- b. Temporary Protective Shielding
- c. Temporary Shoring and Bracing
- d. Temporary Jacking and Shoring
- e. Concrete; Mix Designs, Placing and Pouring Sequence, Methods and Equipment, Curing Plan including Heat Flow Analysis and Methods, Personnel Resources
- f. Reinforcing Steel, Splicers and Inserts
- g. Cold Spray-Applied Liquid Membrane Waterproofing
- h. Asphaltic Expansion Joint
- i. Strip Seal Expansion Joint
- j. Means, Methods and Equipment for Structural Concrete Repairs
- k. Concrete Protective Coating
- l. Means, Methods & Equipment for High Pressure Water Cleaning Bridges
- m. Structural Steel
- n. Structural Steel Paint Systems
- o. Welding Procedures, Welder Certificates
- p. Surface Preparation of Structural Steel for Painting – Means & Methods
- q. Containment, Collection, Storage & Disposal of Debris and Spent Material
- r. Personnel and Environmental Protection During Cleaning, Surface Preparation and Painting Operations
- s. Deck Placement and Curing Plan

13. CONTRACT SUBMITTALS LIST (CSL)

Critical to the commencement of construction is the requirement to make all of the necessary submittals as required by the contract documents.

The following Illustrative CSL is provided as a basis of format for the Contractor's CSL. The Illustrative CSL shall not be interpreted by the Contractor as an all-inclusive list of

34. SPECIAL REQUIREMENTS FOR TRAFFIC PROTECTION

The Contractor shall notify the Department three (3) weeks in advance of a bridge or roadway closure/split/shift/travel lane width reductions on any roads within the State.

All full closures, splits, or shifts shall be scheduled to begin on Friday or Saturday night as determined by the TMP, to allow motoring public time to adjust to new travel patterns while allowing RIDOT the opportunity to evaluate its success. Construction work can commence on the Monday following the evaluation period.

Any exceptions to this must be approved by the Senior Management of Department.

All full closures, splits, or shifts unless approved by the Administrator of Project Management or his designee shall not be installed or remain in place during the winter shutdown period.

35. TRANSPORTATION MANAGEMENT PLAN

The Transportation Management Plan (TMP) for this project is included as an appendix to these Contract Specific General Provisions. 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 Contractor's attention is called to the Standard Specifications for Road & Bridge Construction, Amended March 2018, **SECTION 103.02 – POST-QUALIFICATION REQUIREMENTS AND AWARD OF CONTRACT**, which describes the requirements for the Contractor's designation of a TMP Implementation Manager for the Contract.

The Contractor's attention is called to the Standard Specifications for Road & Bridge Construction, Amended March 2018, **SECTION – 105.21 WORK ZONE TRAINING**, which describes the requirements for the training of all Contractor and Subcontractor personnel involved in work zone design, implementation, operation, inspection, management, and/or enforcement.

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

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

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SPECIFICATIONS – JOB SPECIFIC

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201.9901	Clear Trees and Undergrowth	JS-4
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803.9901	Deck Surface Concrete Removal by Scarification	JS-6
805.99	Temporary Shoring and Bracing for Support of Excavations	JS-7
808.9902	Ultra High Performance Concrete (UHPC)	JS-9
810.9901	Embedded Galvanic Anodes	JS-15
817.9902	FRP Repairs to Prestressed Concrete Beam	JS-17
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824.9904	Temporary Shoring of Girder End	JS-32
825.9901	Painting Structural Steel	JS-34

CODE 810.9901
EMBEDDED GALVANIC ANODES

DESCRIPTION: Work under this item shall consist of furnishing and installing alkali-activated, galvanic anodes within concrete repairs at locations noted within the plans and as directed by the Engineer.

MATERIALS: Use of one of the qualified galvanic anode products and manufactures listed below will not require written approval; an equivalent system may be used with written approval of the Engineer.

<u>Product Name</u>	<u>Manufacturer/Supplier</u>	<u>Telephone Number</u>
Galvashield	Vector Corrosion Technologies	(319) 364-5355
Sentinel	Euclid Chemical Company	(800) 321-7628
Emaco CP Intact	BASF Building Systems	(262) 227-4045

Anodes shall consist of a minimum 5.6 oz (160 grams) of zinc in compliance with ASTM B418 Type II (Z13000) and ASTM B6 Special High Grade (Z13001) with iron content of 15 ppm or less cast around a pair of heat treated, uncoated steel tie wires and encased in a highly alkaline cementitious shell with a pH of 14 or greater. The anode shall contain no added sulfate nor shall it contain chloride, bromide or other constituents that are corrosive to reinforcing steel. Anode units shall be supplied with integral unspliced wires with loop ties for directly tying to the reinforcing steel. Each anode unit shall have a volume no less than 12.5 in³. Repair mortars, concrete and bonding agents shall be Portland cement-based materials.

CONSTRUCTION METHODS: A technical representative of the manufacturer/supplier shall be notified of the scheduled installation of the anodes and shall be present to provide direction and assistance for the initial installations of anodes in concrete repairs and succeeding anode installations until the Contractor becomes proficient in the work and to the satisfaction of the Engineer.

The work for this item shall be performed in accordance with the manufacturer's product specification and installed per the project details and as recommended by the technical representative of the manufacturer/supplier. Tools, equipment, and techniques used to prepare the repair locations for installation of the anodes shall be approved by the Engineer and the manufacturer's technical representative prior to the start of construction. Reinforcing steel shall be prepared or treated as necessary to provide good electrical conductivity, and then securely fastened together with tie wire. The Contractor shall supply the tools required to test the connections between anodes and reinforcing steel, or electrical continuity between crossing steel bars, as directed by the technical representative. The Contractor shall place additional tie wires or re-tie connections as directed to provide continuity.

Care shall be taken when handling anodes to prevent damage to the anodes and to the wire connections.

When Embedded Galvanic Anodes are installed in concrete demonstrating an electrical resistivity exceeding 15,000 ohm-cm, they shall be installed on a mortar bed as directed by the technical representative.

METHOD OF MEASUREMENT: “Embedded Galvanic Anodes” will be measured by the actual number of galvanic anodes installed and accepted in accordance with the Plans and this specification and/or as directed by the Engineer.

BASIS OF PAYMENT: The accepted quantity of “Embedded Galvanic Anodes” will be paid at the respective contract unit price for each anode installed as listed in the Proposal. The price so stated shall constitute full and complete compensation for all labor, tools, materials, equipment, and incidentals, including all applicable technical representation and/or material application training, complete and accepted by the Engineer.

CODE 828.9901
REMOVE AND REPLACE BEARINGS AT BRIDGE 747 PIERS

CODE 828.9902
REMOVE AND REPLACE BEARINGS AT BRIDGE 747 ABUTMENTS

DESCRIPTION: Work under these items shall conform to the requirements of Sections 803 and 828 of the RI Standard Specifications and shall include the removal and disposal of existing steel bearings and furnishing and installing elastomeric bearing assemblies. This work shall be in accordance with the details indicated on the Plans, this Special Provision, and/or as directed by the Engineer.

Included as components of the elastomeric bearing assemblies are sole plates, bolsters, and elastomeric elements.

Existing bearing-to-girder flange welds shall be removed by grinding. Other methods of weld removal are not permitted without prior approval of the Engineer. The removal of the bearing-to-girder weld shall not be performed until just prior to the commencement of the jacking operation.

All required field verifications of the existing girder elevations shall be performed prior to any jacking associated with the bearing removal and disposal.

As indicated in the "Temporary Jacking and Shoring of Girders for Bridge No. 747" Special Provision, the maximum girder jacking height is restricted. The removal of the bearings may therefore require the cutting of certain components of the existing bearings (i.e., pintles and/or anchor bolts) as approved by the Engineer.

The Contractor shall insure that the removal operations do not cause damage to any of the existing structures to remain. Any resulting damage caused as a result of the Contractor's operation, will be repaired to the satisfaction of the Engineer at the expense of the Contractor.

METHOD OF MEASUREMENT: "Remove and Replace Bearings" will be measured by the number of each bearing actually removed and installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: The accepted quantities of "Remove and Replace Bearings" will be paid for at their respective contract unit prices per each bearing as listed in the Proposal. The prices so-stated constitute full and complete compensation for all labor, materials, and equipment, including testing, removal and disposal, and all incidentals required to finish the work, complete and accepted by the Engineer.

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Estimate Name - Addendum No. 3

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201.9901	CLEAR TREES AND UNDERGROWTH	2
201.9902	REMOVE DEBRIS FROM CHANNEL	2
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204.0100	TRIMMING AND FINE GRADING	3
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401.1003	CLASS 19.0 HMA FOR PATCHING	4
401.3000	** ITEM DELETED **	4
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403.0300	ASPHALT EMULSION TACK COAT	5
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923.0120	PLASTIC PIPE BARRICADE STANDARD 26.3.0	30
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	30
924.0113	ADVANCE WARNING ARROW PANEL	30
925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	31
926.0140	REFLECTIVE DELINEATORS FOR TEMPORARY CONCRETE BARRIERS	31
926.9901	UNANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL (MASH TL- 4)	32
926.9902	UNANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL (MASH TL- 3)	33
928.0500	SHADOW OR ADVANCE WARNING VEHICLE WITH IMPACT ATTENUATOR AND FLASHING ARROW BOARD	33
929.0110	FIELD OFFICE	34
931.0110	CLEANING AND SWEEPING PAVEMENT	34
932.0100	CUTTING AND MATCHING ASPHALT	35
932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT	35
935.0400	REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING	35

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Project Name - Bridge Group 10 - I-295

Estimate Name - Addendum No. 3

R.I. Contract No. - 2020-CB-015

FAP Nos: BHO-PRES(012)

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937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	36
943.0200	TRAINEE MAN-HOURS	36
L01.0104	PLANTABLE SOIL 4 INCHES DEEP	36
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T20.0706	6 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	37
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T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	38
T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	39
T20.2806	6 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	39
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Distribution of Quantities

Project Name - Bridge Group 10 - I-295
 Estimate Name - Addendum No. 3
 R.I. Contract No. - 2020-CB-015
 FAP Nos: BHO-PRES(012)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
010	212.2100	Cont.		Item 212.2100 Total:		1.00
011	401.1000	CLASS 19.0 HMA	TON			
		PROJECT WIDE				
		BRIDGE 74201		25.00	0014	01
		BRIDGE 74221		25.00	0014	01
		BRIDGE 74301		25.00	0014	01
		BRIDGE 74321		25.00	0014	01
		BRIDGE 74501		25.00	0014	01
		BRIDGE 74521		25.00	0014	01
		BRIDGE 74701		25.00	0014	01
		BRIDGE 79701		15.00	0014	01
		BRIDGE 79801		15.00	0014	01
		Item 401.1000 Total:		205.00		
012	401.1003	CLASS 19.0 HMA FOR PATCHING	TON			
		PROJECT WIDE				
		AS DIRECTED BY THE ENGINEER		50.00	0014	01
		Item 401.1003 Total:		50.00		
013	401.1000	CLASS 19.0 HMA	TON			
		PROJECT WIDE				
		BRIDGE 74201		25.00	0014	01
		BRIDGE 74221		25.00	0014	01
		BRIDGE 74301		25.00	0014	01
		BRIDGE 74321		25.00	0014	01
		BRIDGE 74501		25.00	0014	01
		BRIDGE 74521		25.00	0014	01
		BRIDGE 74701		25.00	0014	01
		BRIDGE 79701		15.00	0014	01
		BRIDGE 79801		15.00	0014	01
		Item 401.1000 Total:		205.00		

Distribution of Quantities

Project Name - Bridge Group 10 - I-295

Estimate Name - Addendum No. 3

R.I. Contract No. - 2020-CB-015

FAP Nos: BHO-PRES(012)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
014	401.3101	MODIFIED CLASS 9.5 HMA FOR BRIDGE DECKS	TON			
		PROJECT WIDE				
		BRIDGE 74201		70.00	0014	01
		BRIDGE 74221		70.00	0014	01
		BRIDGE 74301		120.00	0014	01
		BRIDGE 74321		120.00	0014	01
		BRIDGE 74501		30.00	0014	01
		BRIDGE 79701		10.00	0014	01
		BRIDGE 79801		10.00	0014	01
		BRIDGE74521		30.00	0014	01
		BRIDGE74701		330.00	0014	01
				Item 401.3101 Total:		790.00
015	403.0300	ASPHALT EMULSION TACK COAT	SY			
		PROJECT WIDE				
		BRIDGE 74201		1,320.00	0014	01
		BRIDGE 74221		1,320.00	0014	01
		BRIDGE 743		5,200.00	0014	01
		BRIDGE 74501		110.00	0014	01
		BRIDGE 74521		110.00	0014	01
		BRIDGE 79701		30.00	0014	01
		BRIDGE 79801		30.00	0014	01
				Item 403.0300 Total:		8,120.00
016	410.9901	MICROMILL AND FILL RUMBLE STRIP WITH CLASS 9.5 HOT MIX ASPHALT	LF			
		PROJECT WIDE				
		BRIDGE 742		4,500.00	0014	01
		BRIDGE 745		3,000.00	0014	01
				Item 410.9901 Total:		7,500.00
017	603.1000	CONTROLLED LOW STRENGTH MATERIAL	CY			

Distribution of Quantities

Project Name - Bridge Group 10 - I-295
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 R.I. Contract No. - 2020-CB-015
 FAP Nos: BHO-PRES(012)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
017	603.1000 Cont.	PROJECT WIDE BRIDGE 74201		20.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 10 - I-295
 Estimate Name - Addendum No. 3
 R.I. Contract No. - 2020-CB-015
 FAP Nos: BHO-PRES(012)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
111	T20.4106	Cont. PAVEMENT MARKINGS				
		BRIDGE NO. 743				
		STAGE 2		1,400.00	0014	01
		BRIDGE NO. 747				
		STAGE 2		1,640.00	0014	01
		BRIDGE NOS. 797 & 798				
		STAGE 2		1,000.00	0014	01
		PROJECT WIDE				
		AS DIRECTED BY THE ENGINEER		960.00	0014	01
Item T20.4106 Total:				5,000.00		
112	T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE	LF			
		BRIDGE NO. 742				
		I-295 NB		5,375.00	0014	01
		I-295 SB		2,200.00	0014	01
		BRIDGE NO. 743				
		FARNUM PIKE		180.00	0014	01
		BRIDGE NO. 745				
		I-295 NB		2,100.00	0014	01
		I-295 SB		2,200.00	0014	01
		BRIDGE NO. 747				
		GEORGE WASHINGTON HWY		3,400.00	0014	01
		PROJECT WIDE				
		AS DIRECTED BY THE ENGINEER		1,045.00	0014	01
		REMOVE TEMPORARY STRIPING				
		6 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS		25,000.00	0014	01
		6 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS		17,000.00	0014	01
Item T20.4506 Total:						
113	810.0702	WELDED WIRE FABRIC (GALVANIZED)	SF			

Distribution of Quantities

Project Name - Bridge Group 10 - I-295

Estimate Name - Addendum No. 3

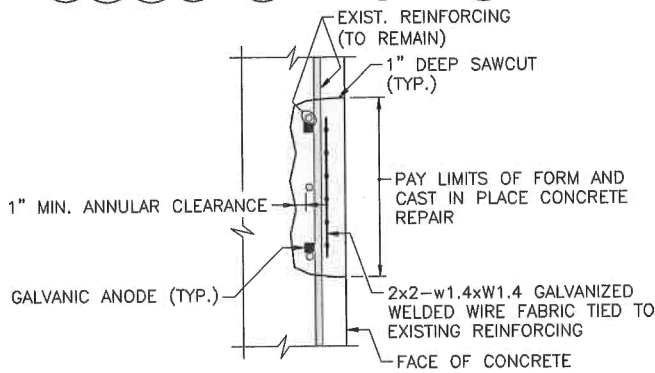
R.I. Contract No. - 2020-CB-015

FAP Nos: BHO-PRES(012)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
113	810.0702 Cont.	PROJECT WIDE				
		AS DIRECTED BY ENGINEER		200.00	0014	01
		BRIDGE 74201		160.00	0014	01
		BRIDGE 74221		400.00	0014	01
		BRIDGE 74301		520.00	0014	01
		BRIDGE 74321		790.00	0014	01
		BRIDGE 74501		160.00	0014	01
		BRIDGE 74521		160.00	0014	01
		BRIDGE 74701		670.00	0014	01
		BRIDGE 79701		40.00	0014	01
		BRIDGE 79801		310.00	0014	01
Item 810.0702 Total:				3,410.00		
114	810.9901	EMBEDDED GALVANIC ANODES	EACH			
		PROJECT WIDE				
		BRIDGE 74201		95.00	0014	01
		BRIDGE 74221		90.00	0014	01
		BRIDGE 74301		155.00	0014	01
		BRIDGE 74321		175.00	0014	01
		BRIDGE 74501		95.00	0014	01
		BRIDGE 74521		60.00	0014	01
		BRIDGE 74701		1,250.00	0014	01
		BRIDGE 79701		310.00	0014	01
		BRIDGE 79801		375.00	0014	01
Item 810.9901 Total:				2,605.00		

GALVANIC ANODE SPACING NOTE:

GALVANIC ANODES SHALL BE SPACED EVENLY AROUND THE PERIMETER OF THE REPAIR AREA AT A MAXIMUM SPACING OF 24" O.C. IN FACES OF WALLS AND ABUTMENTS.



NOTE:

THIS REPAIR INTENDED FOR AREAS WHERE MORE THAN ONE-HALF OF THE REBAR SURFACE IS EXPOSED. BARS HAVING LOST 1/4 OR MORE OF THEIR ORIGINAL DIAMETER SHALL BE SUPPLEMENTED BY NEW BARS PLACED PARALLEL TO EXISTING REINFORCING.

FORM AND CAST IN PLACE CONCRETE REPAIR DETAIL

NOT TO SCALE

FORCING
 EP SAWCUT
 LIMITS OF PATCHING
 AR CONCRETE REPAIR
 OF CONCRETE
 DEPTH
 S WHERE NO
 REBAR SURFACE IS
 CONCRETE IS
 AR
 DETAIL



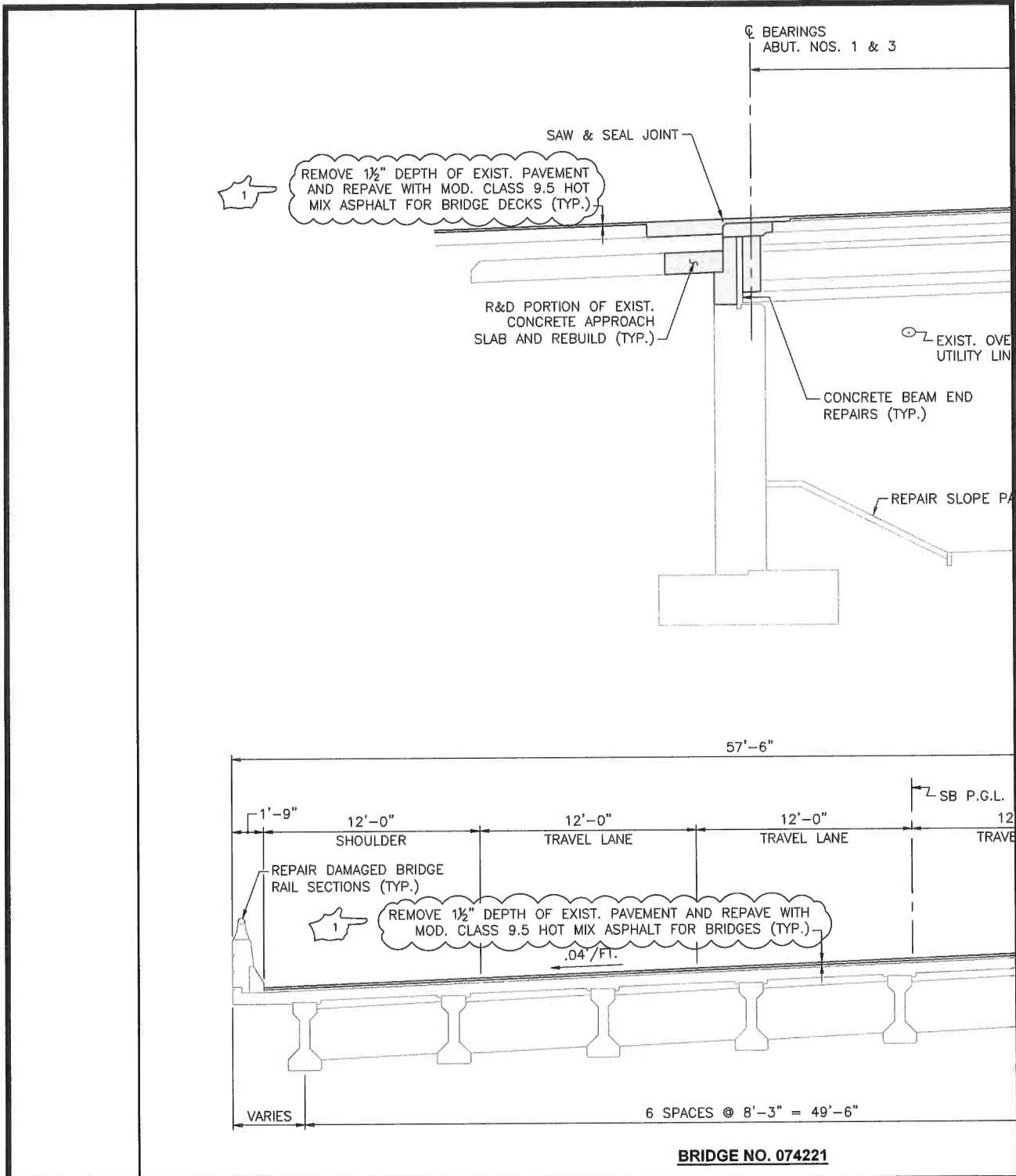
TITLE OF SKETCH
**BRIDGE GROUP 10 - I-295
 CONCRETE REPAIR DETAILS**

RI CONTRACT NO.
 2020-CB-015
**SKETCH NO.
 1**

DATE: 5/1/2020

ADDENDUM NUMBER 3

REVISION TO
 SHEET NO. 11



TITLE OF SKETCH

BRIDGE GROUP 10 - I-295
MOUNTAINDALE ROAD BRIDGE NOS. 074201 & 074221
BRIDGE TYPICAL SECTIONS

RI CONTRACT NO.
2020-CB-015

SKETCH NO.
3

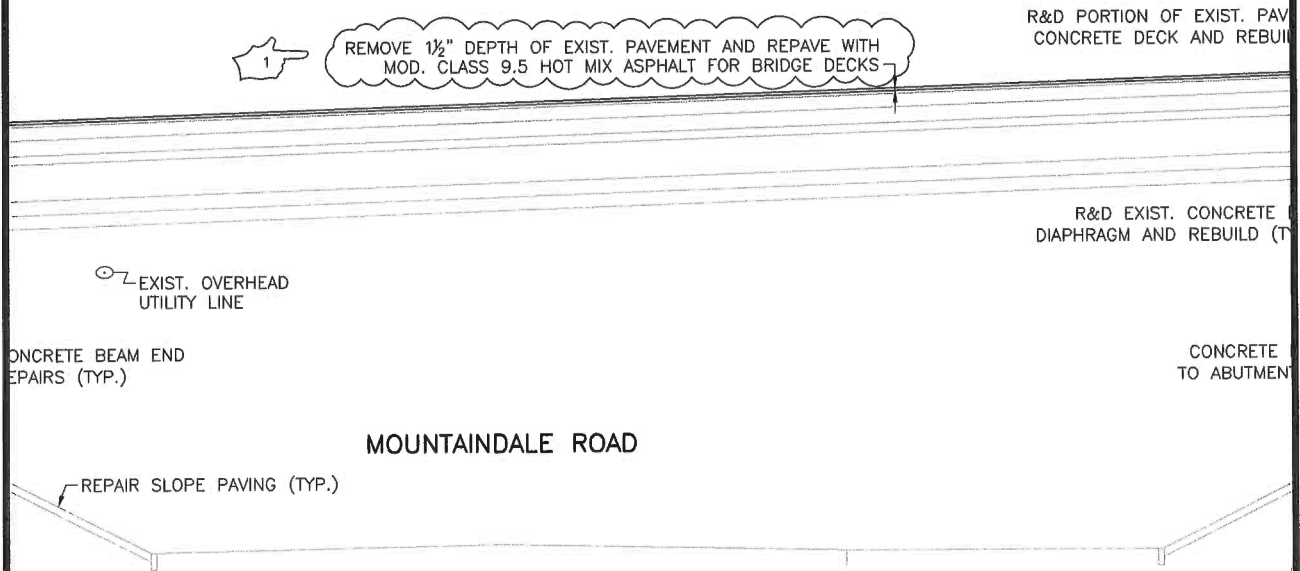
DATE: 5/1/2020

ADDENDUM NUMBER 3

REVISION TO
SHEET NO. 13

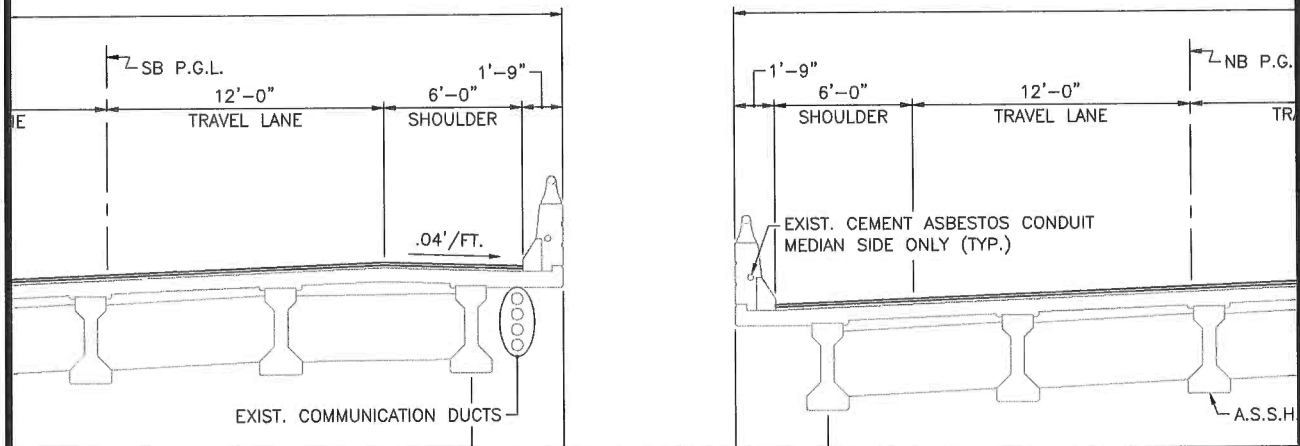
S. 1 & 3

65'-6" - SQUARE



LONGITUDINAL SECTION

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



Gordon R. Archibald, Inc.
Civil and Environmental Engineers

TITLE OF SKETCH

BRIDGE GROUP 10 - I-295
MOUNTAINDALE ROAD BRIDGE NOS. 074201 & 074221
BRIDGE TYPICAL SECTIONS

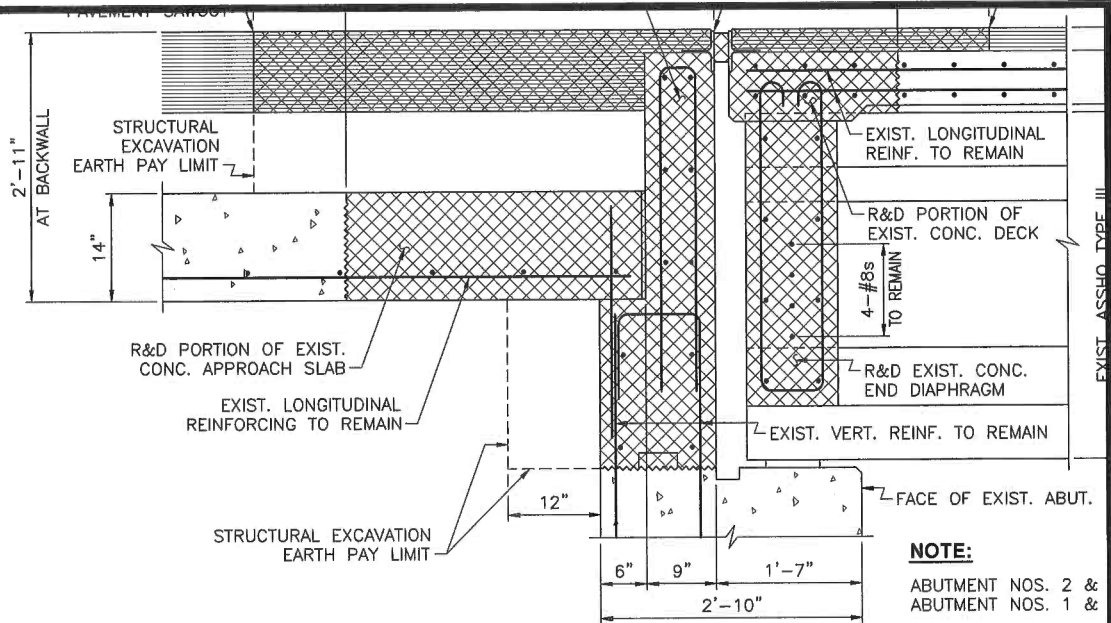
RI CONTRACT NO.
2020-CB-015

SKETCH NO.
4

DATE: 5/1/2020

ADDENDUM NUMBER 3

REVISION TO
SHEET NO. 13



EXISTING ROADWAY SECTION AT ABUTMENT
SCALE: 1" = 1'-0"

NOTES:

1. THE COST OF FURNISHING AND INSTALLING THE CRUSHED STONE AND PVC SPLIT PIPE DRAINS AT THE ABUTMENTS JOINTS SHALL BE CONSIDERED INCIDENTAL TO, AND INCLUDED WITHIN THE PAYMENT FOR, THE CONCRETE REQUIRED FOR THE REBUILDING OF THE APPROACH SLAB AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
2. ANY REQUIRED BACKFILLING AND COMPACTION SHALL BE CONSIDERED INCIDENTAL; NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
3. PROPOSED TEMPORARY SHORING AND BRACING SHALL BE INSTALLED TO PREVENT UNDERMINING OF THE EXISTING APPROACH ROADWAY. THE SHORING AND BRACING SHALL BE REMOVED AND DISPOSED UPON COMPLETION OF THE WORK. THE COST OF THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE EXCAVATION; NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.
4. PAY LIMITS FOR ASPHALTIC EXPANSION JOINT SYSTEM IS FROM FACE OF CURB TO FACE OF CURB.

SEQUENCE FOR BRIDGE JOINT WORK AND REPAVING:

1. REMOVE AND DISPOSE MATERIALS AS CALLED FOR IN THE DETAILS.
2. RECONSTRUCT APPROACH SLAB, WITH NEW HAUNCH, BACKWALL, WINGWALL, DECK OVER BACKWALL, AND BARRIERS, AS CALLED FOR IN THE DETAILS.
3. INSTALL NEW WATERPROOFING MEMBRANE AND REPAVE (FULL DEPTH)
4. AFTER FULL WIDTH OF BRIDGE JOINT WORK HAS BEEN COMPLETED, REMOVE 1½" DEPTH OF PAVEMENT ON THE BRIDGE AND APPROACHES, CLEAN & SWEEP THE SURFACE, APPLY TACK COAT, AND REPAVE WITH 1½" DEPTH OF MOD. CLASS 9.5 HOT MIX ASPHALT FOR BRIDGE DECKS.
5. AT ABUTMENT NOS. 1 & 3, SAWCUT & SEAL JOINT.
6. AT ABUTMENT NOS. 2 & 4, SAWCUT & REMOVE 1'-8" (NOMINAL) WIDTH OF PAVEMENT AND INSTALL NEW ASPHALTIC JOINT MATERIALS.



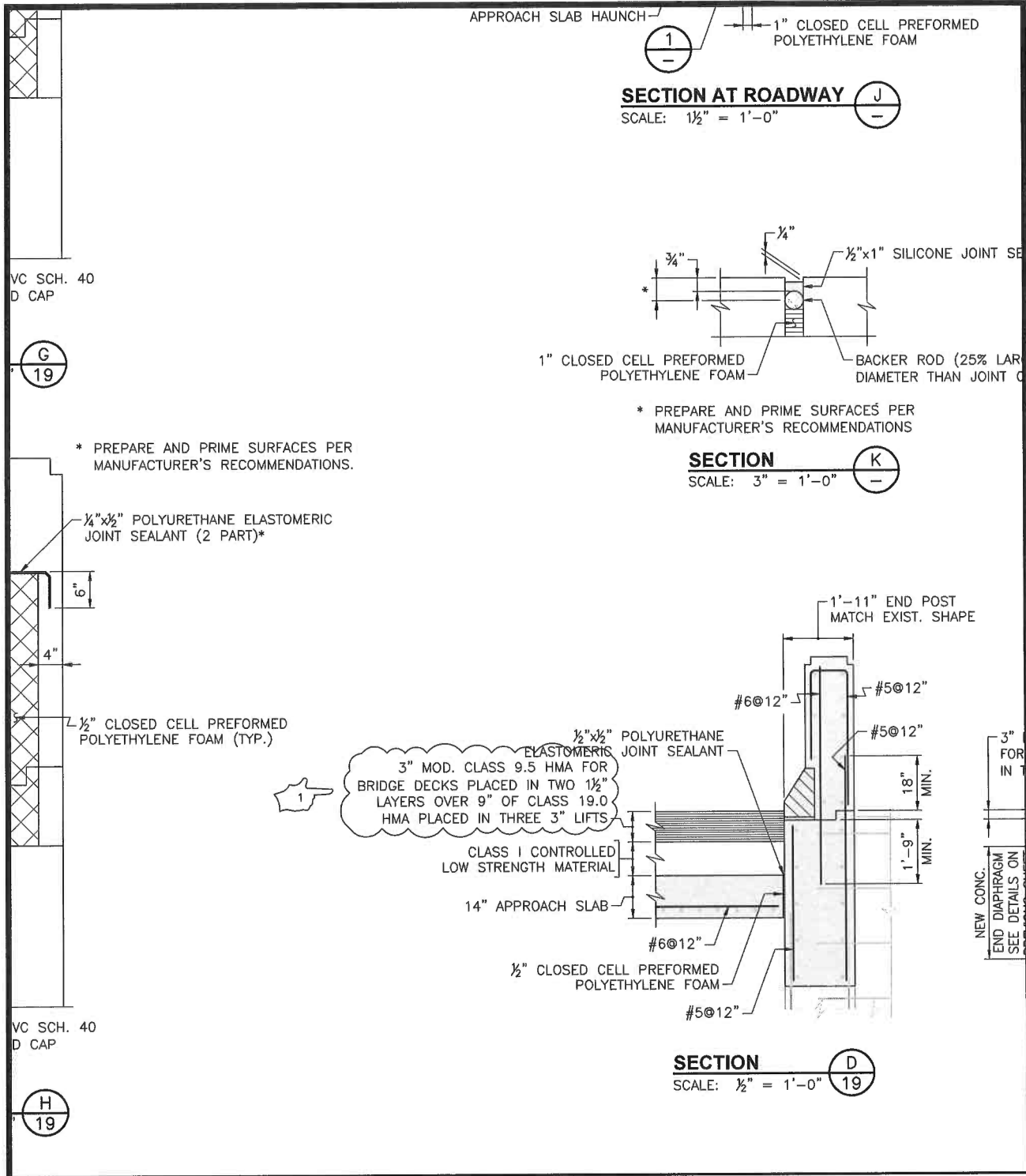
TITLE OF SKETCH
BRIDGE GROUP 10 - I-295
MOUNTAINDALE ROAD BRIDGE NOS. 074201 & 074221
JOINT DETAILS - 1

RI CONTRACT NO.
2020-CB-015
SKETCH NO.
5

DATE: 5/1/2020

ADDENDUM NUMBER 3

REVISION TO
SHEET NO. 17



TITLE OF SKETCH

BRIDGE GROUP 10 - I-295
MOUNTAINDALE ROAD BRIDGE NOS. 074201 & 074221

JOINT DETAILS - 4

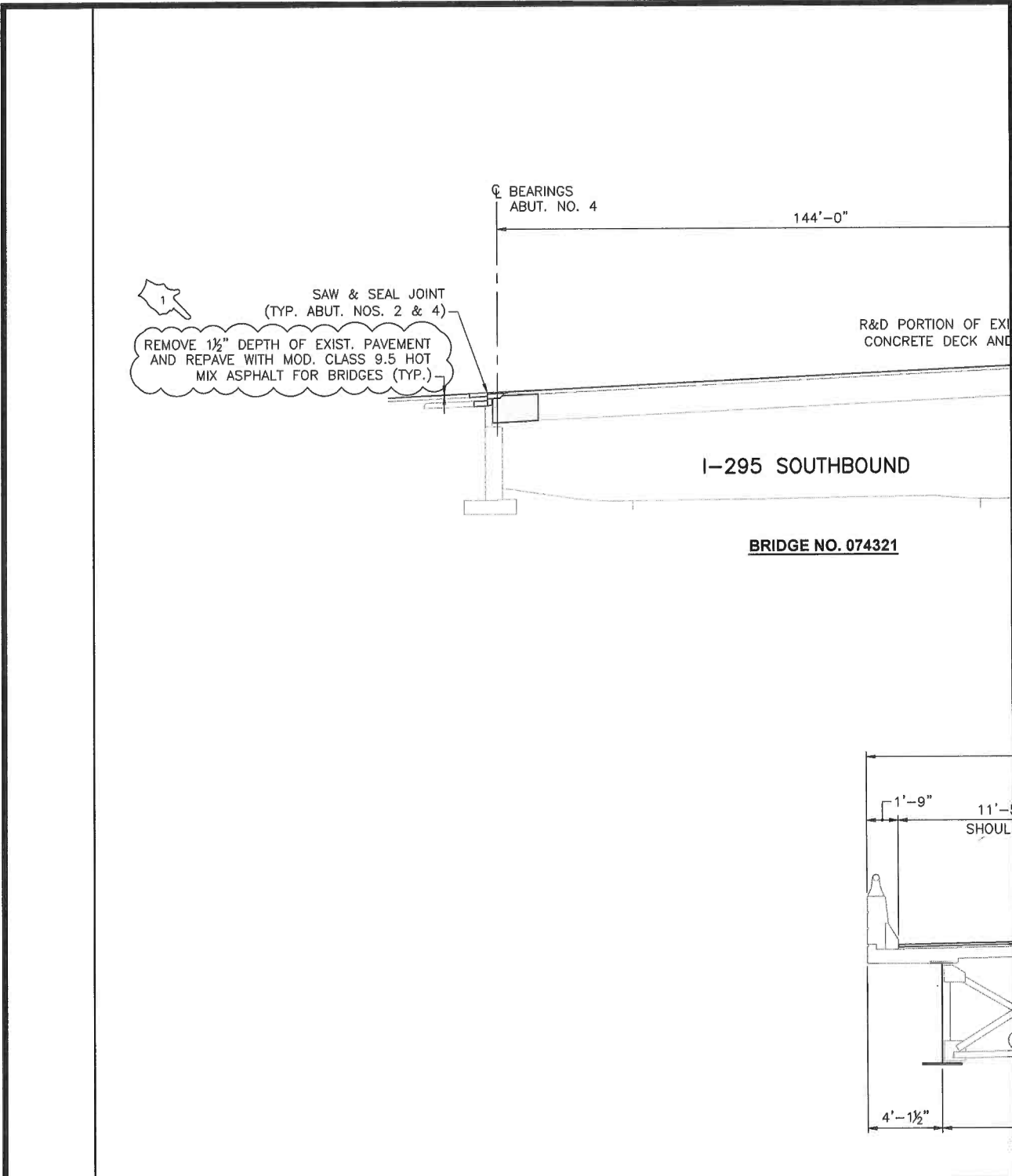
RI CONTRACT NO.
2020-CB-015

SKETCH NO.
7

DATE: 5/1/2020

ADDENDUM NUMBER 3

REVISION TO SHEET NO. 20



Gordon R. Archibald, Inc.
Civil and Environmental Engineers

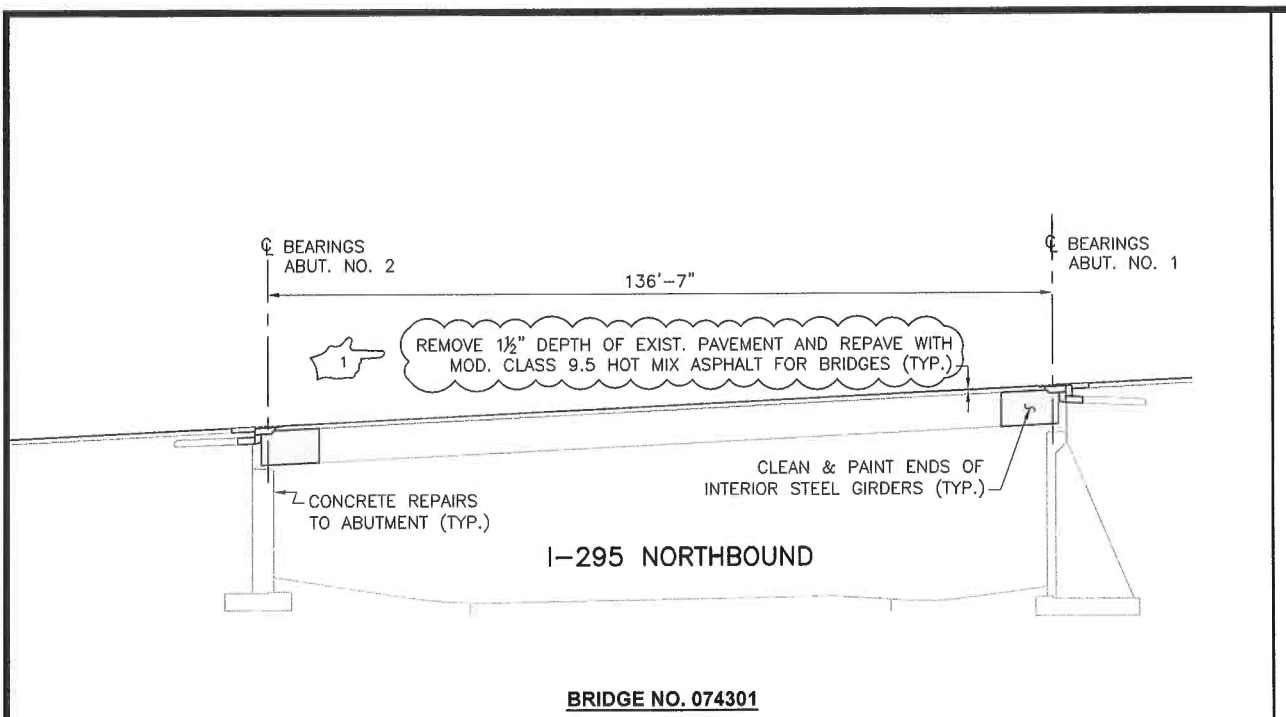
TITLE OF SKETCH
BRIDGE GROUP 10 - I-295
FARNUM PIKE BRIDGE NOS. 074301 & 074321
BRIDGE TYPICAL SECTIONS

ADDENDUM NUMBER 3

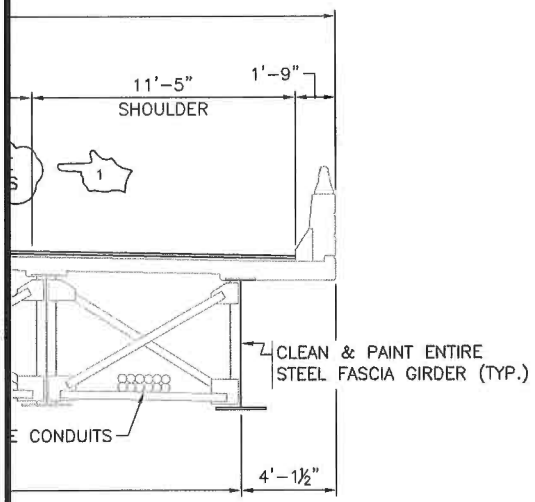
RI CONTRACT NO.
2020-CB-015


SKETCH NO.
8

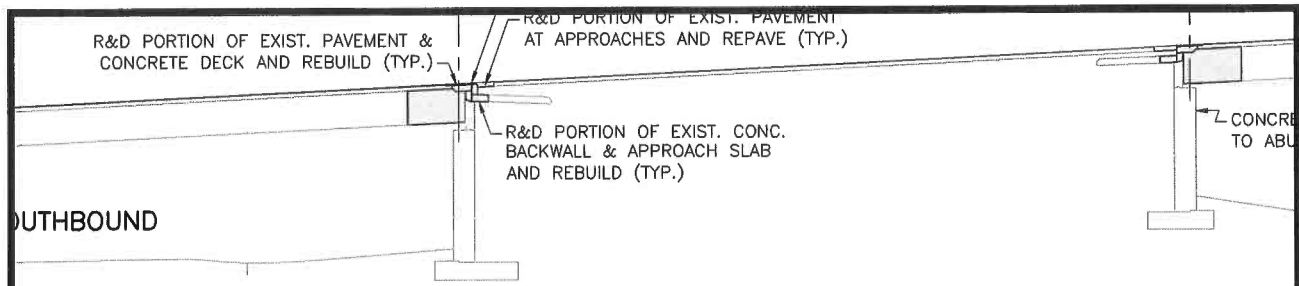
REVISION TO
SHEET NO. 23



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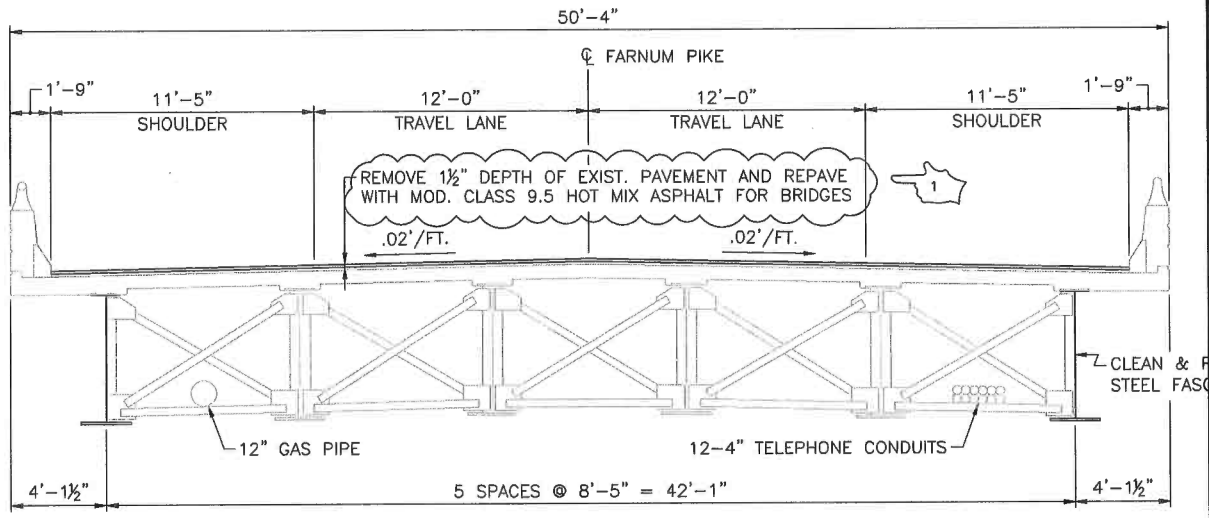
 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 FARNUM PIKE BRIDGE NOS. 074301 & 074321</p> <p>BRIDGE TYPICAL SECTIONS</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
		<p>REVISION TO SHEET NO. 23</p>



E NO. 074321

LONGITUDINAL SECTIONS


SCALE: 1/16" = 1'-0"

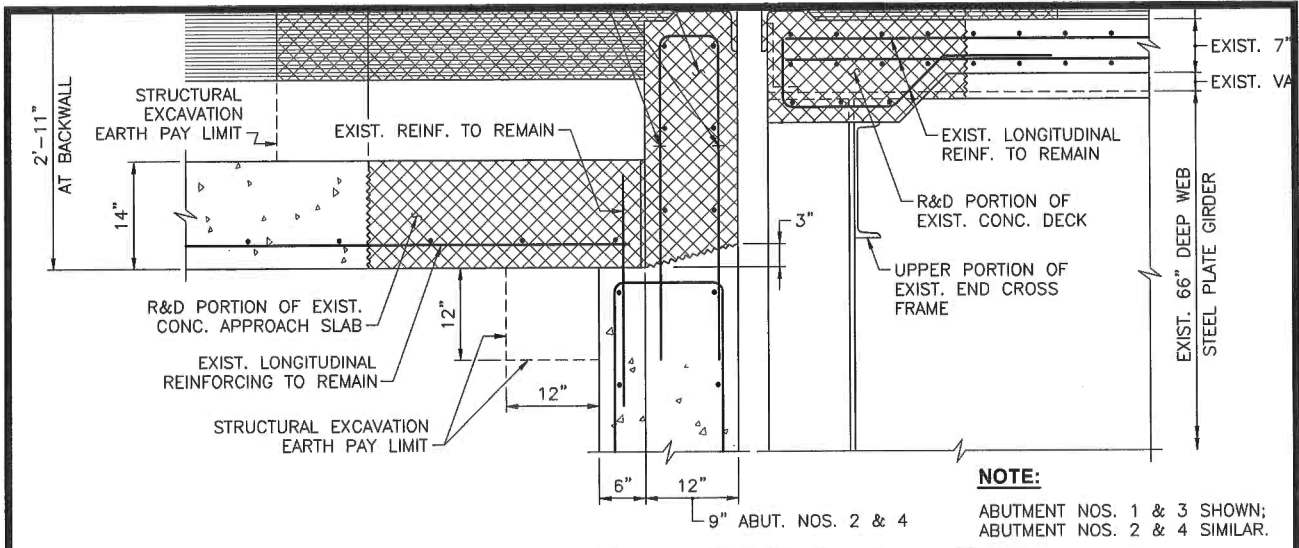


TYPICAL TRANSVERSE SECTION

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



 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 FARNUM PIKE BRIDGE NOS. 074301 & 074321</p> <p>BRIDGE TYPICAL SECTIONS</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>



EXISTING ROADWAY SECTION AT ABUTMENT

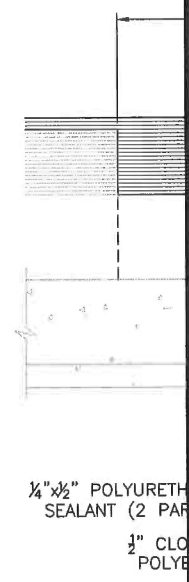
SCALE: 1" = 1'-0"


NOTES:

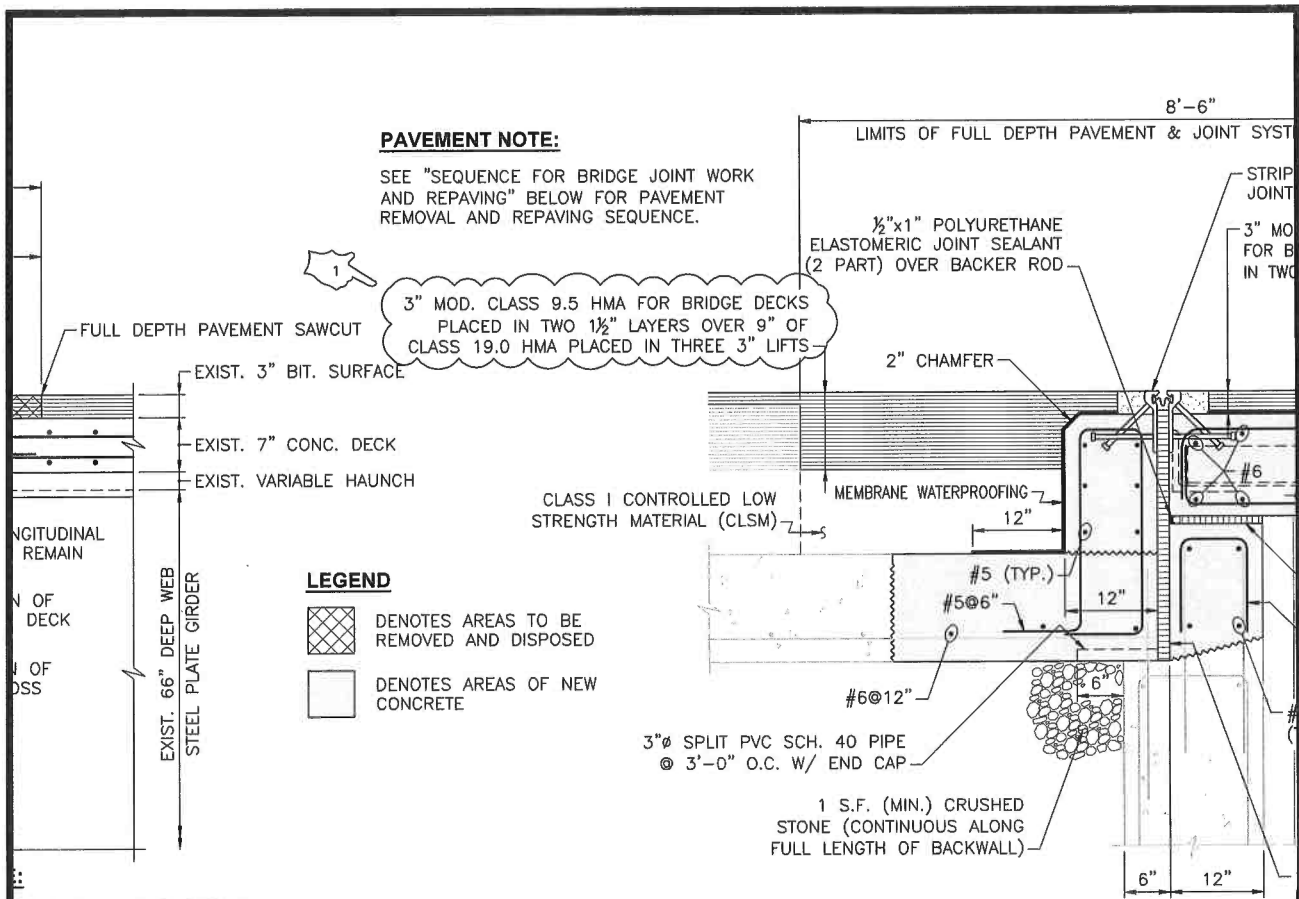
1. THE COST OF FURNISHING AND INSTALLING THE CRUSHED STONE AND PVC SPLIT PIPE DRAINS AT THE ABUTMENTS JOINTS SHALL BE CONSIDERED INCIDENTAL TO, AND INCLUDED WITHIN THE PAYMENT FOR, THE CONCRETE REQUIRED FOR THE REBUILDING OF THE APPROACH SLAB AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
2. PROPOSED TEMPORARY SHORING AND BRACING SHALL BE INSTALLED TO PREVENT UNDERMINING OF THE EXISTING APPROACH ROADWAY. THE SHORING AND BRACING SHALL BE REMOVED AND DISPOSED UPON COMPLETION OF THE WORK. THE COST OF THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE EXCAVATION; NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.
3. PAY LIMITS FOR ASPHALTIC EXPANSION JOINT SYSTEM IS FROM FACE OF CURB TO FACE OF CURB.

SEQUENCE FOR BRIDGE JOINT WORK AND REPAVING:

1. REMOVE AND DISPOSE MATERIALS AS CALLED FOR IN THE DETAILS.
2. RECONSTRUCT APPROACH SLAB, WITH NEW HAUNCH, BACKWALL, WINGWALL, DECK OVER BACKWALL, AND BARRIERS, AS CALLED FOR IN THE DETAILS; SET STRIP SEAL EXPANSION JOINT SYSTEM AT ELEVATION OF PROPOSED ROADWAY AT ABUTMENT NOS. 1 & 3.
3. INSTALL NEW WATERPROOFING MEMBRANE AND REPAVE (FULL DEPTH).
4. AFTER FULL WIDTH OF BRIDGE JOINT WORK HAS BEEN COMPLETED, REMOVE 1½" DEPTH OF PAVEMENT ON THE BRIDGE AND APPROACHES, CLEAN & SWEEP THE SURFACE, APPLY TACK COAT, AND PAVE ENTIRE SURFACE WITH 1½" DEPTH OF MOD. CLASS 9.5 HOT MIX ASPHALT FOR BRIDGE DECKS.
5. AT ABUTMENT NOS. 2 & 4, SAWCUT & SEAL JOINT.



 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 FARNUM PIKE BRIDGE NOS. 074301 & 074321</p> <p>JOINT DETAILS - 1</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
<p>REVISION TO SHEET NO. 27</p>		





PAVEMENT NOTE:

SEE "SEQUENCE FOR BRIDGE JOINT WORK AND REPAVING" BELOW FOR PAVEMENT REMOVAL AND REPAVING SEQUENCE.

3" MOD. CLASS 9.5 HMA FOR BRIDGE DECKS PLACED IN TWO 1 1/2" LAYERS OVER 9" OF CLASS 19.0 HMA PLACED IN THREE 3" LIFTS

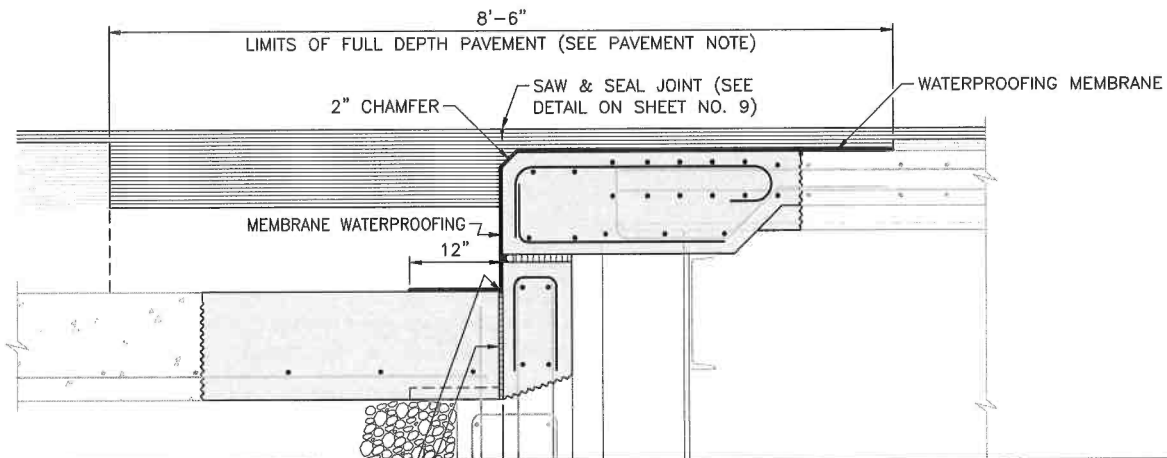
LEGEND


-  DENOTES AREAS TO BE REMOVED AND DISPOSED
-  DENOTES AREAS OF NEW CONCRETE

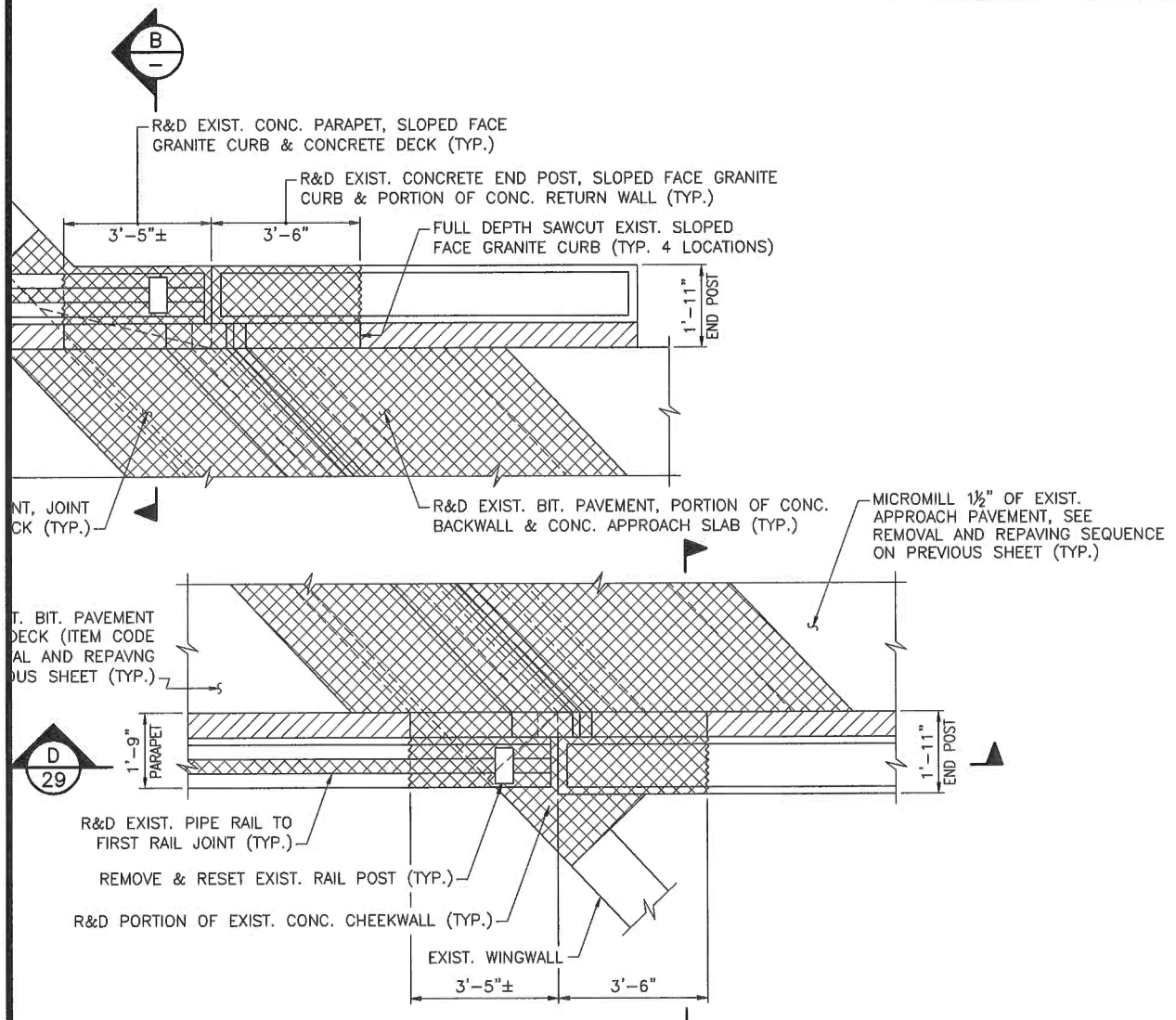
MENT NOS. 1 & 3 SHOWN;
MENT NOS. 2 & 4 SIMILAR.

PROPOSED ROADWAY SECTION

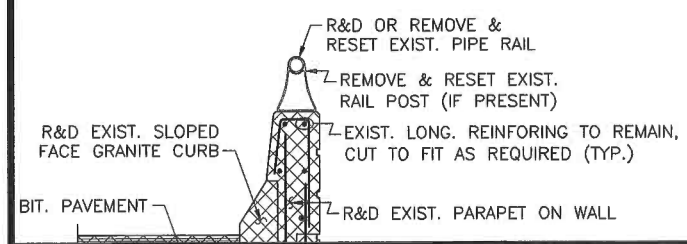
SCALE: 1"




 Gordon R. Archibald, Inc. Civil and Environmental Engineers	TITLE OF SKETCH BRIDGE GROUP 10 - I-295 FARNUM PIKE BRIDGE NOS. 074301 & 074321 JOINT DETAILS - 1	RI CONTRACT NO. 2020-CB-015
	SKETCH NO. 12	
DATE: 5/1/2020	ADDENDUM NUMBER 3	REVISION TO SHEET NO. 27

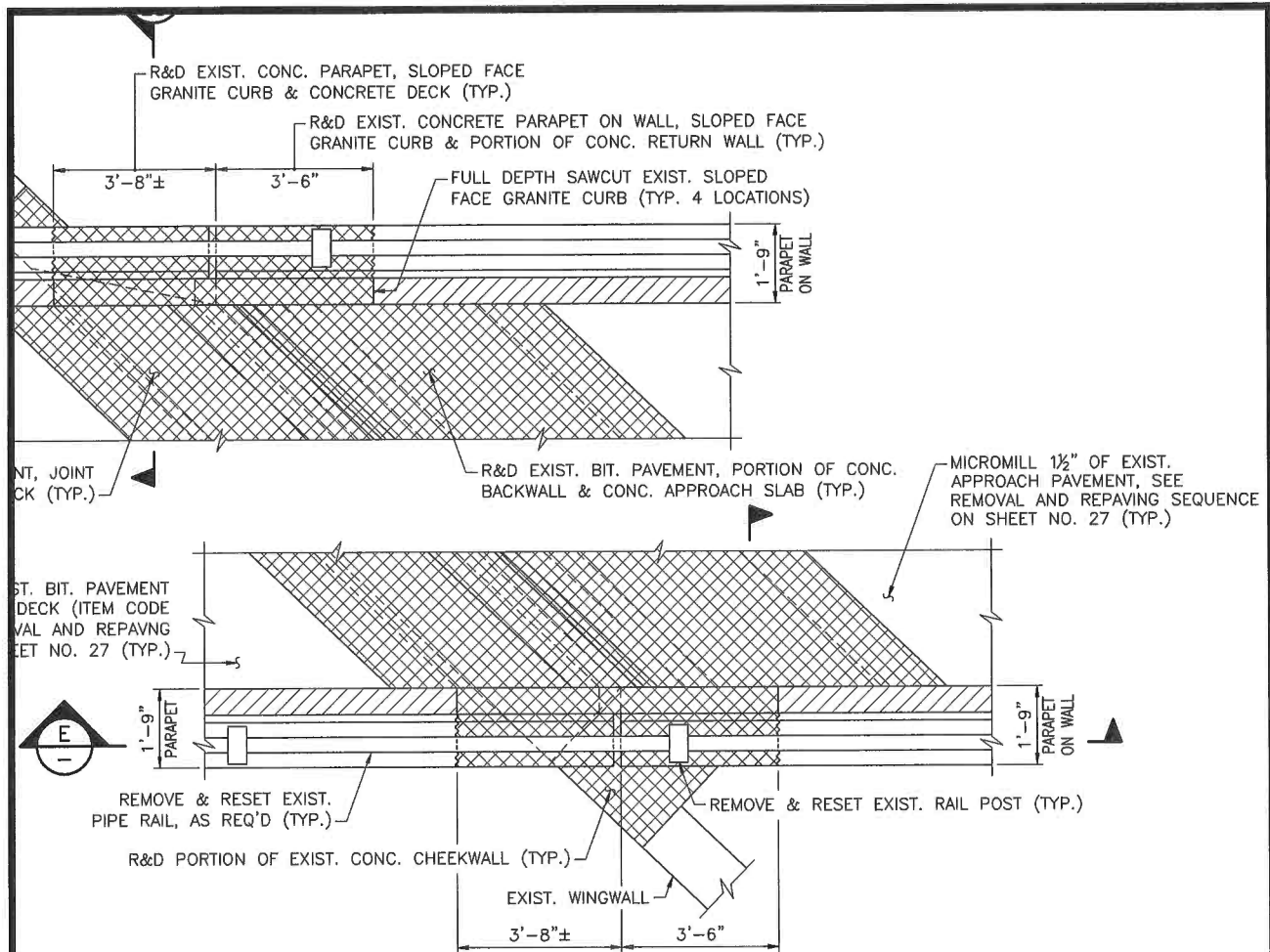


EXISTING PLAN AT ABUTMENT NO. 1
SCALE: 1/2" = 1'-0"



NOTE:
THE COST OF THE FULL DEPTH SAWCUT OF GRANITE CURB SHALL BE CONSIDERED INCIDENTAL TO ITEM CODE 803.0300.

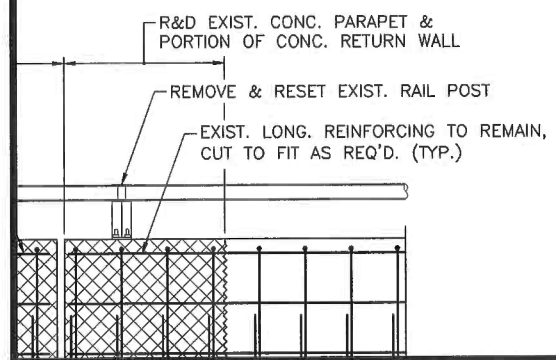
 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 FARNUM PIKE BRIDGE NOS. 074301 & 074321</p> <p>JOINT DETAILS - 2</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
<p>REVISION TO SHEET NO. 28</p>		




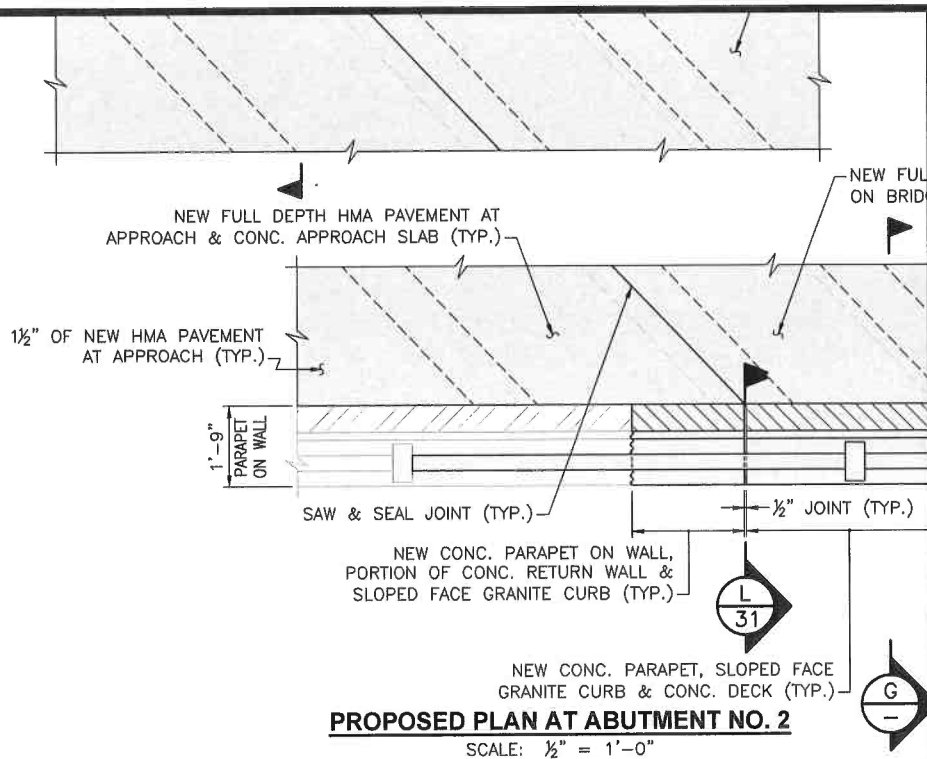
EXISTING PLAN AT ABUTMENT NO. 3
 SCALE: 1/2" = 1'-0"



NOTE:
 THE COST OF THE FULL DEPTH SAWCUT OF GRANITE CURB SHALL BE CONSIDERED INCIDENTAL TO ITEM CODE 803.0300.

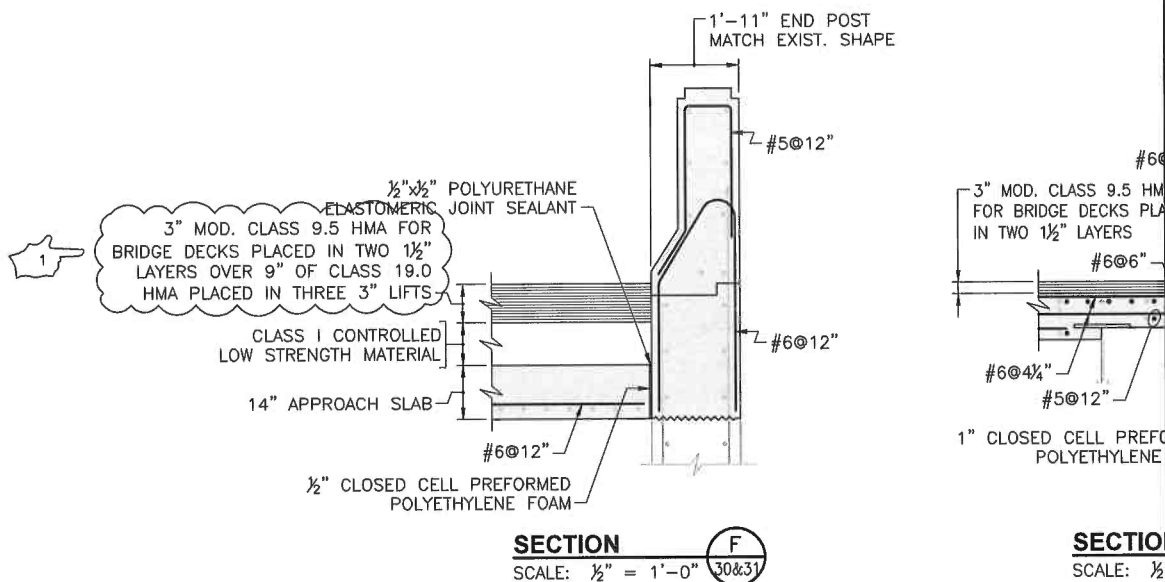


 Gordon R. Archibald, Inc. Civil and Environmental Engineers	TITLE OF SKETCH BRIDGE GROUP 10 - I-295 FARNUM PIKE BRIDGE NOS. 074301 & 074321 JOINT DETAILS - 3	RI CONTRACT NO. 2020-CB-015
	DATE: 5/1/2020	ADDENDUM NUMBER 3
		REVISION TO SHEET NO. 29



PROPOSED PLAN AT ABUTMENT NO. 2

SCALE: 1/2" = 1'-0"



SECTION F

SCALE: 1/2" = 1'-0"

SECTION

SCALE: 1/2"

Gordon R. Archibald, Inc.
Civil and Environmental Engineers

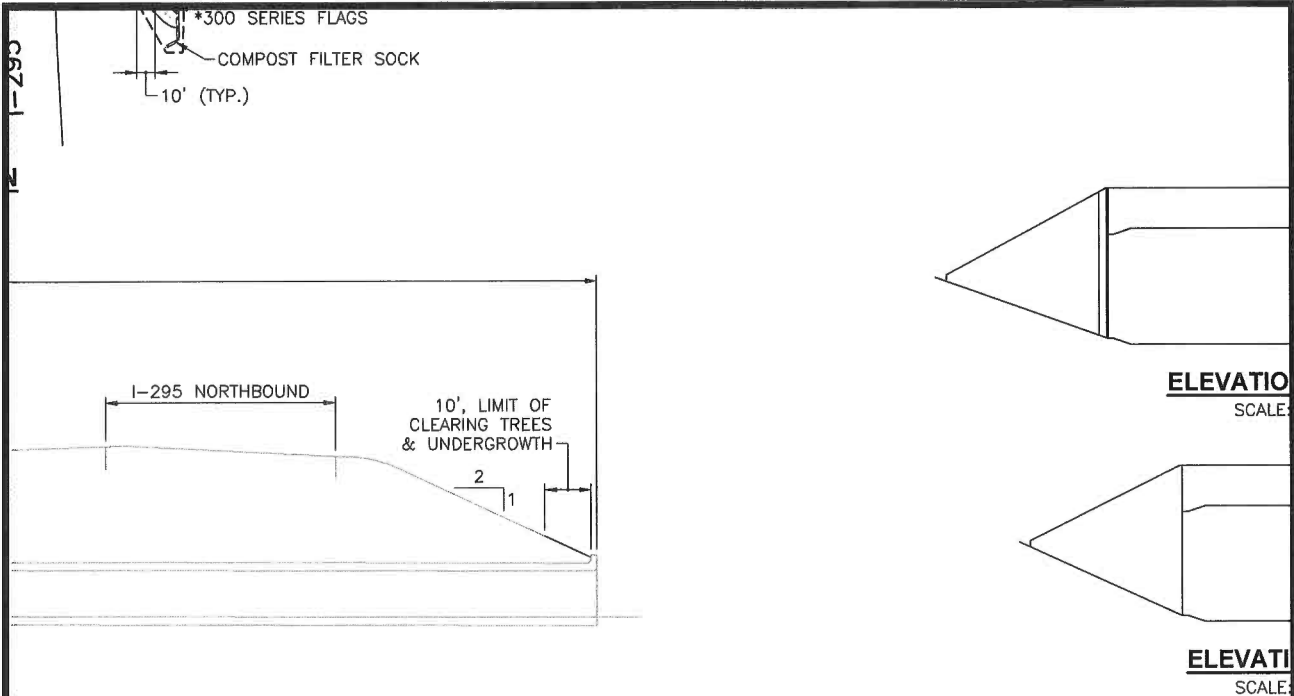
TITLE OF SKETCH
BRIDGE GROUP 10 - I-295
FARNUM PIKE BRIDGE NOS. 074301 & 074321
JOINT DETAILS - 4

ADDENDUM NUMBER 3

RI CONTRACT NO.
2020-CB-015

SKETCH NO.
15

REVISION TO
SHEET NO. 30

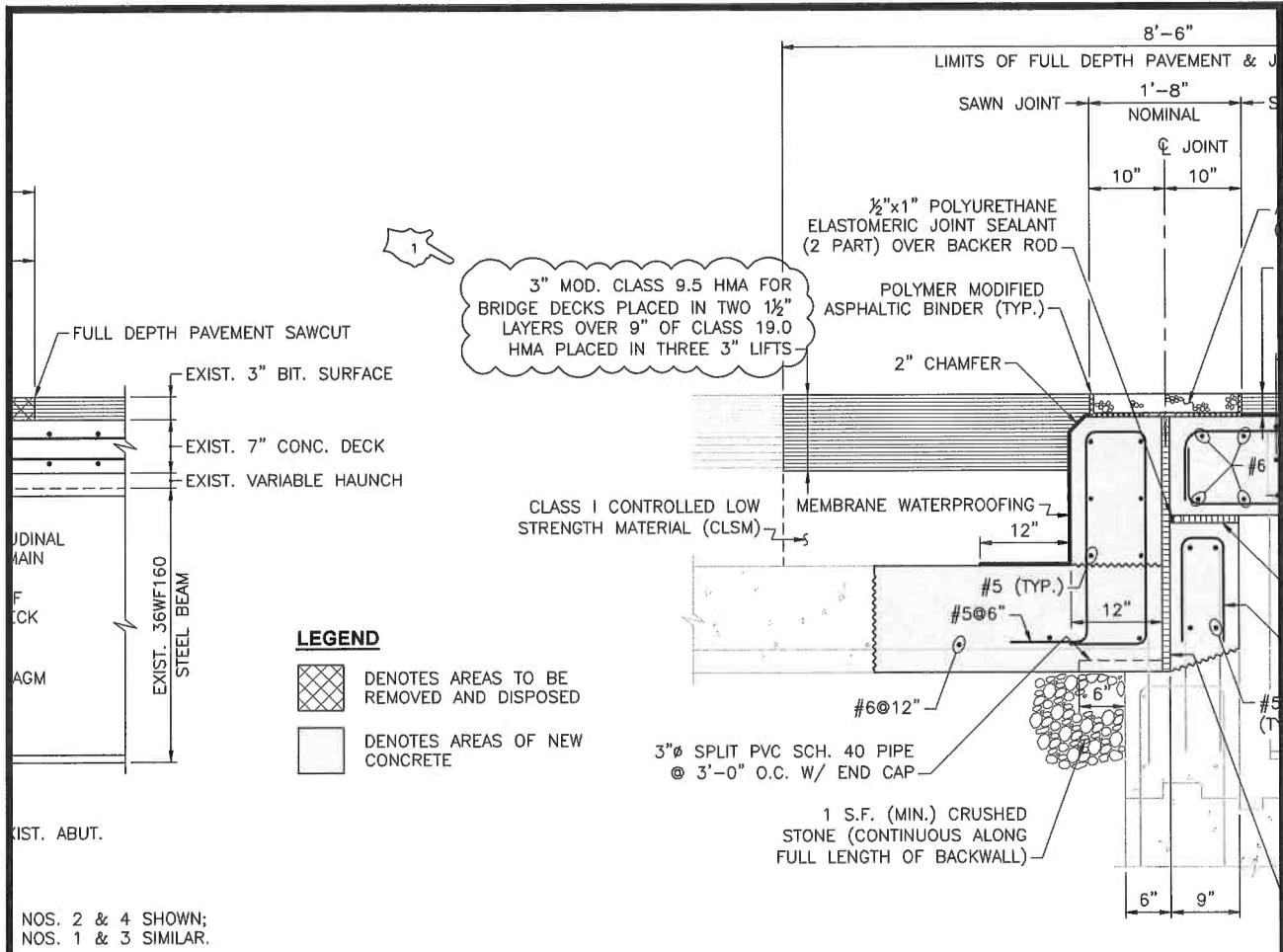


NOTES:

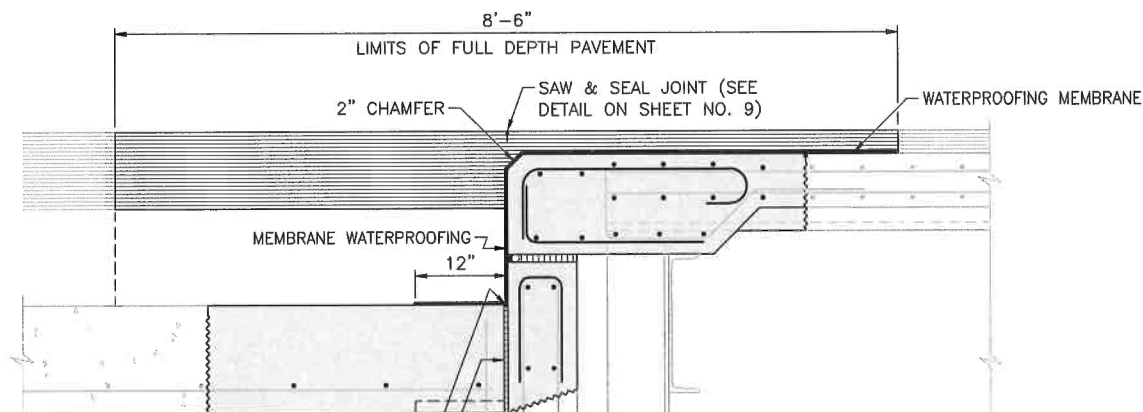
1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS AND RESTRICTIONS NOTED IN THE CONTRACT TMP & CS PAGES.
2. PRIOR TO CLEARING, THE CONTRACTOR SHALL INSTALL COMPOST FILTER SOCK AT THE BOUNDARY OF LIMITS SHOWN AND/OR AS DIRECTED BY THE ENGINEER.
3. CLEARING OF TREES AND UNDERGROWTH SHALL CONFORM TO SPECIAL PROVISION CODE 201.9901 "CLEARING TREES AND UNDERGROWTH."
4. CONCRETE REPAIRS SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING A DEWATERING SYSTEM CAPABLE OF PROVIDING A DRY WORK AREA WITH A WATER DEPTH OF 2'-0". THE DEWATERING SYSTEM, INCLUDING DETAILS AND CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF RHODE ISLAND, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. THE ENTIRE COST OF THIS SYSTEM, INCLUDING THE REMOVAL OF THE SYSTEM, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONCRETE REPAIRS WITH NO ADDITIONAL PAYMENT.
5. CONCRETE REPAIR AREAS ADJACENT TO EXISTING JOINTS SHALL INCLUDE THE INSTALLATION OF A BITUMINOUS COATED JOINT MATERIAL WITH A THICKNESS EQUAL TO THE EXISTING JOINT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONCRETE REPAIR.
6. ANY SCAFFOLDING REQUIRED TO PERFORM THE CONCRETE REPAIRS SHALL BE DESIGNED BY THE CONTRACTOR AND CONSIST OF NO MORE THAN FOUR VERTICAL MEMBERS WITH A MAXIMUM DIAMETER OF 4" SO AS TO MINIMIZE THE RESTRICTED FLOW AREA. THIS SCAFFOLDING SHALL BE DESIGNED TO WITHSTAND THE FLOW OF THE RIVER. THE SCAFFOLDING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONCRETE REPAIRS WITH NO ADDITIONAL PAYMENT.
7. THE CONTRACTOR SHALL EMPLOY DRIP PANS AND/OR OTHER PROTECTIVE DEVICES TO ENSURE THAT NO MATERIALS USED IN CONCRETE REPAIRS ARE RELEASED INTO THE WATERWAY.
8. ALL WORK ASSOCIATED WITH THE CONCRETE REPAIRS, INCLUDING BUT NOT LIMITED TO DEWATERING, JOINT MATERIAL, SCAFFOLDING, DRIP PANS, ETC., SHALL BE INCLUDED FOR PAYMENT UNDER ITEM CODE 817.9903.
9. WITH THE EXCEPTION OF PAYMENT, CONCRETE REPAIRS FOR THIS BRIDGE SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON SHEET NO. 11.



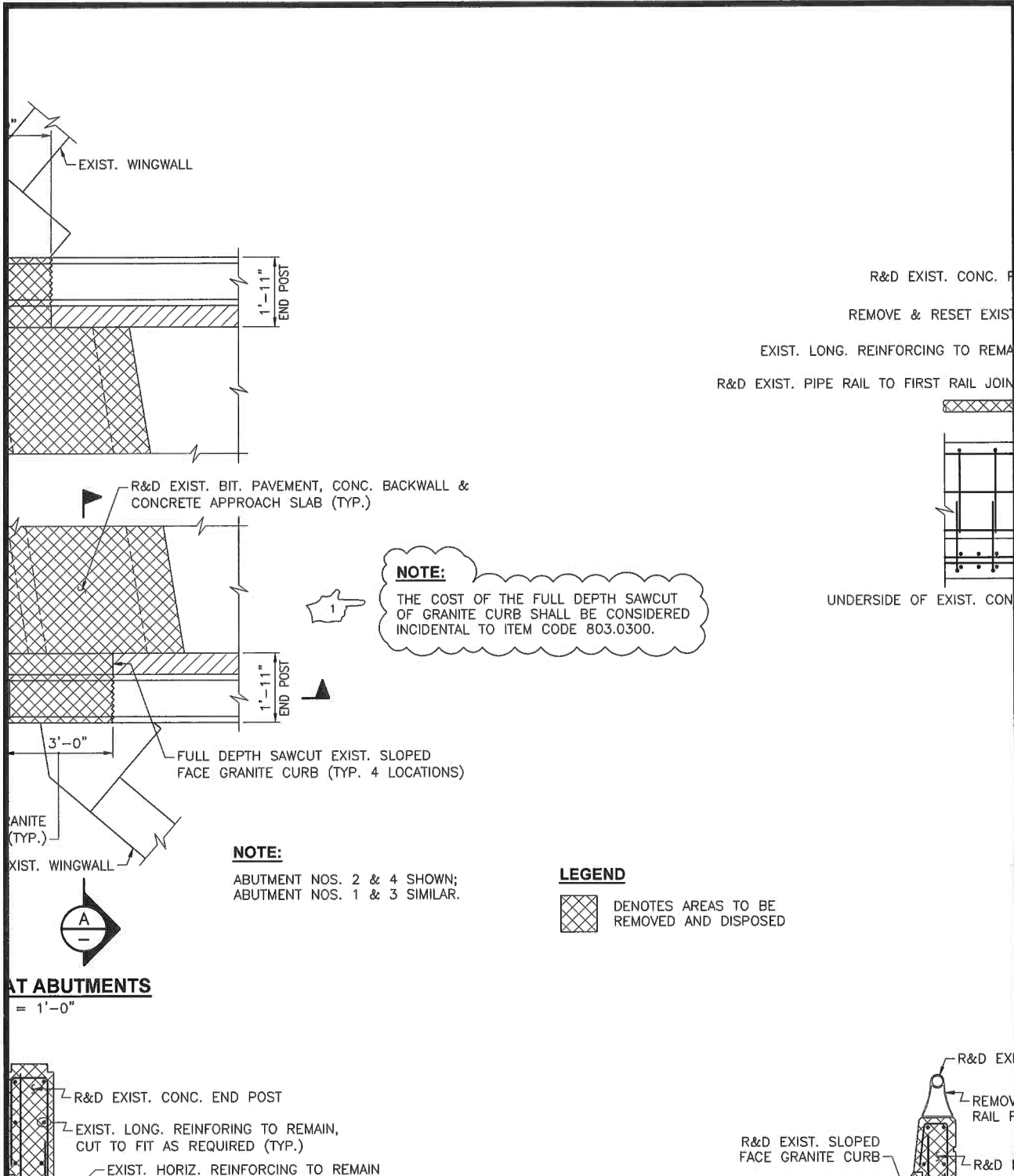
<p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH BRIDGE GROUP 10 - I-295 GEORGIEVILLE POND BRIDGE NO. 074401</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>CULVERT GENERAL PLAN AND SECTIONS</p>	<p>SKETCH NO. 16</p>
<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>	<p>REVISION TO SHEET NO. 34</p>



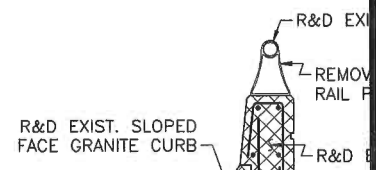
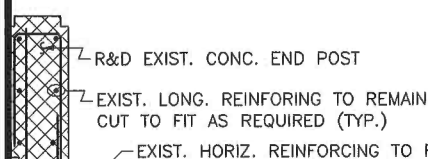
PROPOSED ROADWAY SECTION
SCALE: 1" = 1'




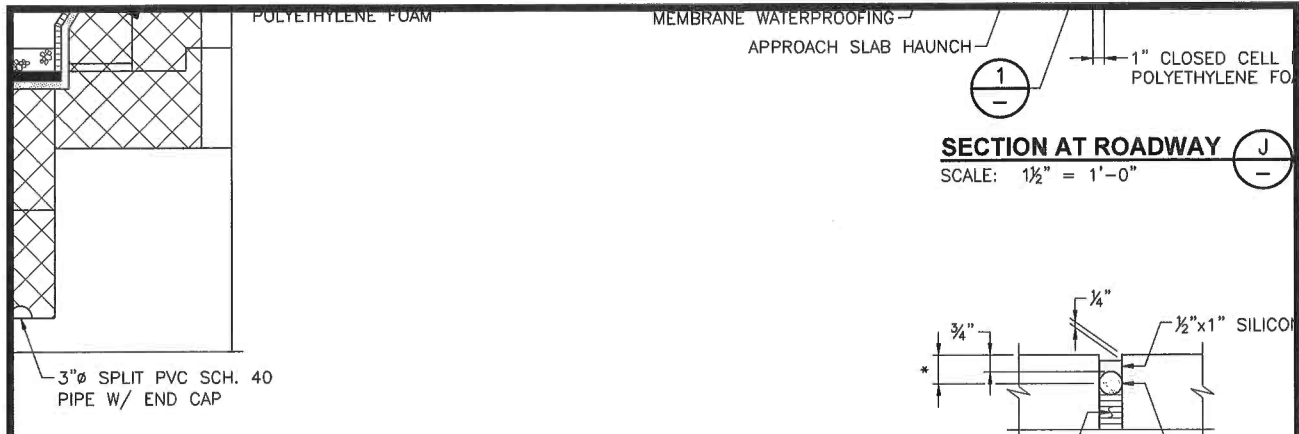
<p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 MOWRY ROAD BRIDGE NOS. 074501 & 074521</p> <p>JOINT DETAILS - 1</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
<p>REVISION TO SHEET NO. 41</p>		



AT ABUTMENTS
= 1'-0"

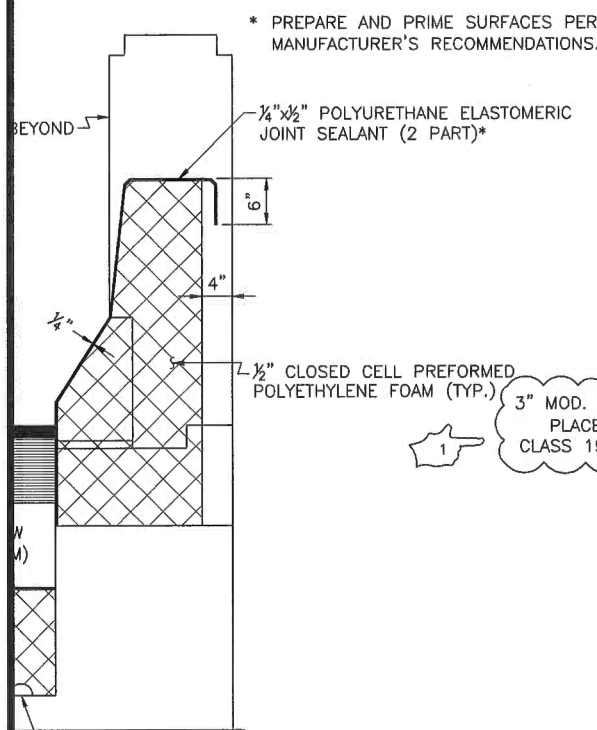


 Gordon R. Archibald, Inc. Civil and Environmental Engineers	TITLE OF SKETCH BRIDGE GROUP 10 - I-295 MOWRY ROAD BRIDGE NOS. 074501 & 074521 JOINT DETAILS - 2	RI CONTRACT NO. 2020-CB-015
	DATE: 5/1/2020	ADDENDUM NUMBER 3
		REVISION TO SHEET NO. 42



SECTION AT ROADWAY J
SCALE: 1/2" = 1'-0"

SECTION G
SCALE: 1" = 1'-0"

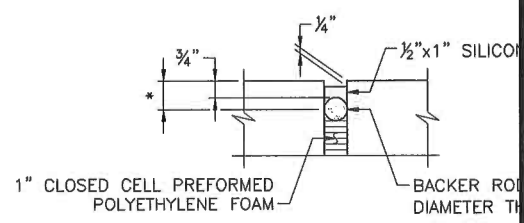


* PREPARE AND PRIME SURFACES PER MANUFACTURER'S RECOMMENDATIONS.

1/4" x 1/2" POLYURETHANE ELASTOMERIC JOINT SEALANT (2 PART)*

1/2" CLOSED CELL PREFORMED POLYETHYLENE FOAM (TYP.)

3" Ø SPLIT PVC SCH. 40 PIPE W/ END CAP



* PREPARE AND PRIME SURFACES PER MANUFACTURER'S RECOMMENDATIONS

SECTION K
SCALE: 3" = 1'-0"

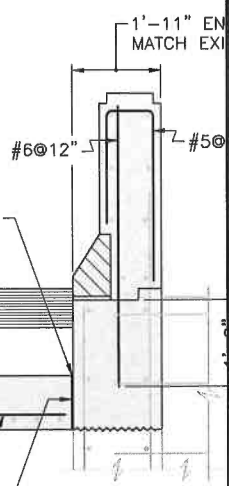
3" MOD. CLASS 9.5 HMA FOR BRIDGE DECKS PLACED IN TWO 1 1/2" LAYERS OVER 9" OF CLASS 19.0 HMA PLACED IN THREE 3" LIFTS

CLASS I CONTROLLED LOW STRENGTH MATERIAL

14" APPROACH SLAB


#6 @ 12" / 1/2" CLOSED CELL PREFORMED POLYETHYLENE FOAM

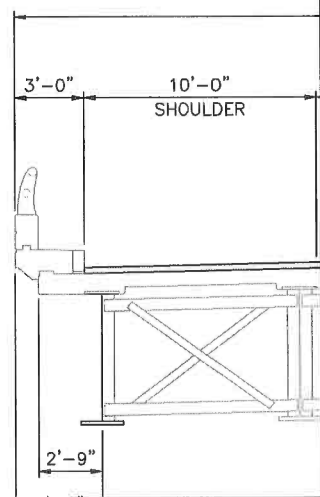
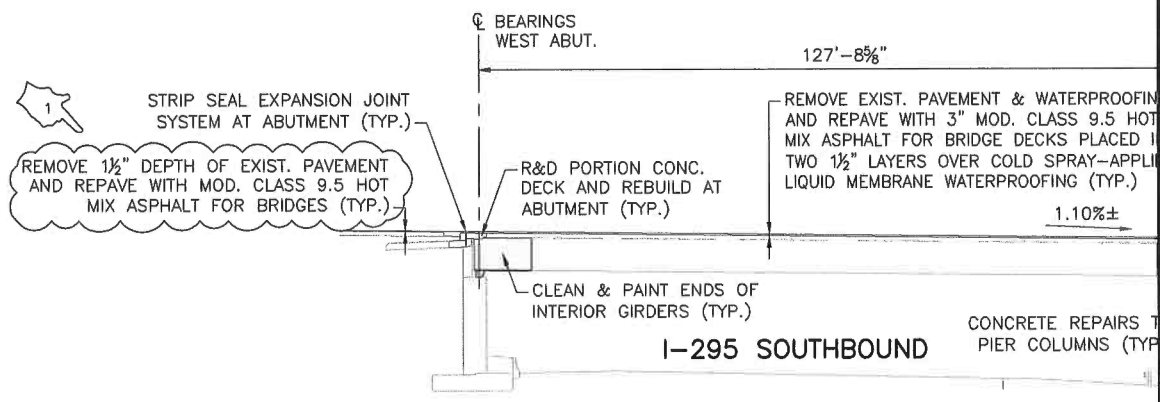
1/2" x 1/2" POLYURETHANE ELASTOMERIC JOINT SEALANT




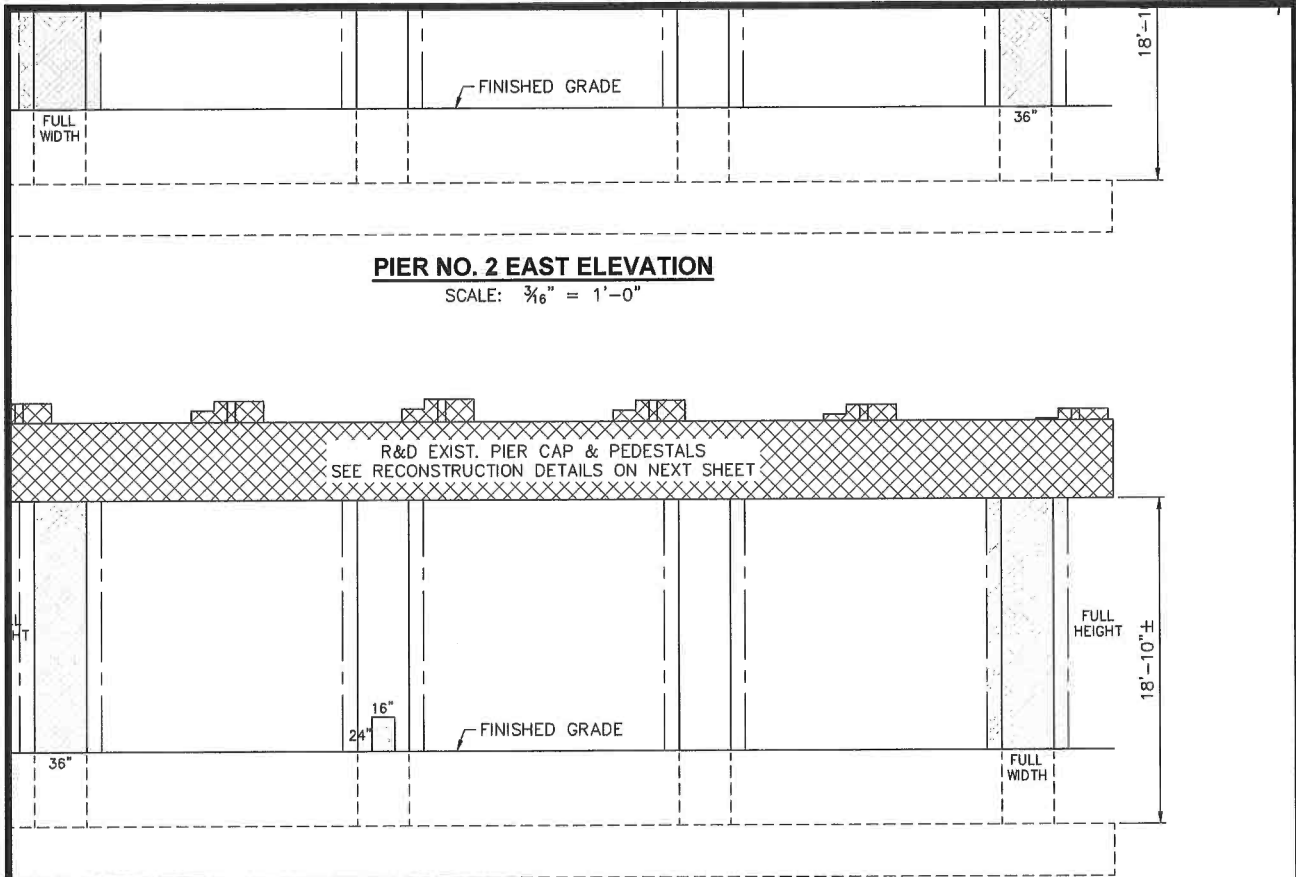
SECTION D
SCALE: 1/2" = 1'-0"

SECTION H
SCALE: 1" = 1'-0"

 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 MOWRY ROAD BRIDGE NOS. 074501 & 074521</p> <p>JOINT DETAILS - 4</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
<p>REVISION TO SHEET NO. 44</p>		



 Gordon R. Archibald, Inc. Civil and Environmental Engineers	TITLE OF SKETCH BRIDGE GROUP 10 - I-295 GEORGE WASHINGTON HIGHWAY BRIDGE NO. 074701 BRIDGE TYPICAL SECTIONS	RI CONTRACT NO. 2020-CB-015
	DATE: 5/1/2020	ADDENDUM NUMBER 3
		REVISION TO SHEET NO. 47



PIER NO. 2 WEST ELEVATION

SCALE: 3/16" = 1'-0"

NOTES:

1. ONLY VISIBLE REPAIRS ARE NOTED. EXISTING MATERIAL SHALL BE EXCAVATED FROM ABOVE THE TOP OF FOOTING, EXPOSING THE ENTIRE HEIGHT OF THE COLUMNS. AFTER EXCAVATION, THE ENGINEER WILL INSPECT THE COLUMN SURFACES AND DESIGNATE ANY ADDITIONAL REPAIR AREAS. THESE REPAIRS SHALL BE COMPLETED AT THE CONTRACT UNIT PRICES WITH NO ADDITIONAL COMPENSATION.
2. REQUIRED EXCAVATION WILL BE PAID FOR UNDER ITEM CODE 203.0100. HORIZONTAL PAYMENT LIMITS WILL BE MEASURED BETWEEN PLUMB LINES AT THE LIMITS OF THE EXISTING FOOTINGS; VERTICAL LIMITS WILL BE MEASURED FROM THE TOP OF THE EXISTING FOOTING TO THE EXISTING GROUND SURFACE.
3. TEMPORARY JACKING AND SHORING SHALL BE IN PLACE PRIOR TO BEGINNING ANY CONCRETE REPAIR WORK.
4. GALVANIC ANODES SHALL NOT BE REQUIRED FOR CONCRETE REPAIRS TO PIER COLUMNS.

OF PIER CAP

FOOTING



REVISIONS		
NO.	DATE	BY
1	5/1/20	JSC

RI
DEPARTMENT

BRIDGE
SMITHFIELD
GEORGE WASHINGTON

Gordon R. Archibald, Inc.
Civil and Environmental Engineers

DATE: 5/1/2020

TITLE OF SKETCH
BRIDGE GROUP 10 - I-295
GEORGE WASHINGTON HIGHWAY BRIDGE NO. 074701
SUBSTRUCTURE REPAIRS - 3

ADDENDUM NUMBER 3

RI CONTRACT NO.
2020-CB-015

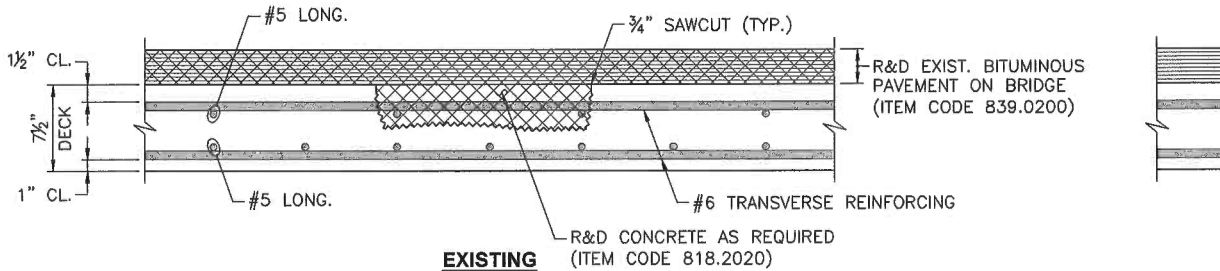
SKETCH NO.
21

REVISION TO
SHEET NO. 51

EXISTING (ITEM CODE 818.2010)

FULL DEPTH CONCRETE DECK REPAIR
(ITEM CODE 818.2010)

NOT TO SCALE



EXISTING (ITEM CODE 818.2020)


PARTIAL DEPTH CONCRETE DECK REPAIR
(ITEM CODE 818.2020)

NOT TO SCALE

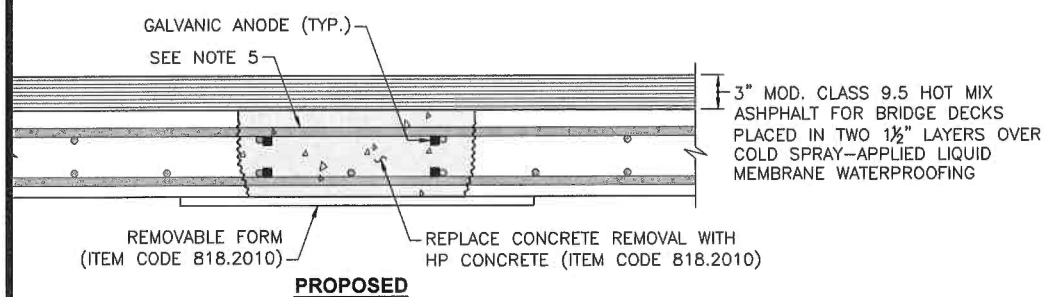
BRIDGE DECK REPAIR NOTES:

1. LIMITS OF BRIDGE DECK REPAIRS SHALL BE AS DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL PERFORM CHAIN DRAGGING, HAMMER SOUNDING, OR OTHER METHODS OF DETECTION AS APPROVED BY THE ENGINEER. THE DECK EVALUATION SHALL BE PERFORMED AFTER REMOVAL OF THE PAVEMENT.
2. THE COST OF THE DECK EVALUATION OPERATIONS SHALL BE INCLUDED IN THE COST OF THE DECK REPAIRS.
3. PRIOR TO THE REMOVAL OF ANY DETERIORATED DECK CONCRETE, THE CONTRACTOR SHALL INSTALL TEMPORARY DECK UNDERSIDE PROTECTIVE SHIELDING BENEATH THE DESIGNATED REPAIR LOCATIONS IN ACCORDANCE WITH ITEM CODE 803.0500. HORIZONTAL LIMITS SHALL EXTEND A MINIMUM OF 2'-0" BEYOND THE LIMITS OF THE REPAIR; VERTICAL LIMITS SHALL BE SUFFICIENT TO CONTAIN ANY POSSIBLE DEBRIS. ALL COSTS ASSOCIATED WITH THIS SHIELDING SHALL BE INCLUDED IN THE COST OF THE REPAIR.
4. AFTER REMOVAL OF DETERIORATED DECK CONCRETE, THE REINFORCING MAY BE FOUND TO BE DETERIORATED PAST THE POINT THAT IT IS UNACCEPTABLE FOR REUSE. THE EXISTING REINFORCING SHALL BE REPLACED WHEN:
 - EXISTING REINFORCING HAS 25% OR MORE OF SECTION LOSS.
 - EXISTING REINFORCING IS SEVERED.
 - AS DIRECTED BY THE ENGINEER.
5. ALL EXPOSED REINFORCING STEEL TO REMAIN SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SECTION 818 OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. GALVANIC ANODES SHALL BE INSTALLED AS INDICATED IN THE DETAILS AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
7. REMOVE CONCRETE AS FAR AS REQUIRED TO EXPOSE SOUND REINFORCING TO LAP THE NEW BARS. THE CONCRETE SHALL BE REMOVED TO A MINIMUM DEPTH OF 1" BELOW THE NEW BARS. REMOVAL IS TO STOP ONCE CONCRETE BEING REMOVED HAS FRACTURE LINES THAT PASS THROUGH AGGREGATE.
8. A CHISEL ALLOWED.
9. NEW BARS TRANSVERSE
10. REINFORCE
11. IN DETERIORATED REMOVAL SHALL BE (REMOVAL) OPERATION
12. AS DIRECT HONEYCOMB THE ITEM CONFORM PLACE.
13. THE COST FURNISHING THE ITEM THE ITEM
14. APPROPRIATE PERMITTED USE OF M
15. ALL DETERIORATED EXERCISED OF SAWCUT PLANS.



 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 GEORGE WASHINGTON HIGHWAY BRIDGE NO. 074701</p> <p>BRIDGE DECK REPAIR DETAILS</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>SKETCH NO. 22</p>	<p>REVISION TO SHEET NO. 56</p>
<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>	

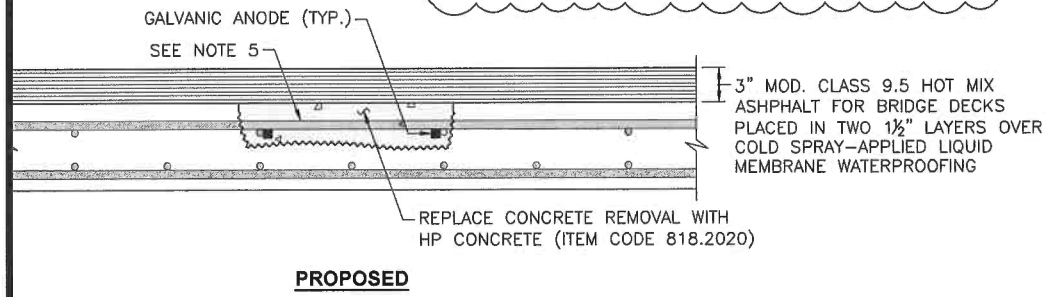
1	RI
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REPAIR

GALVANIC ANODE SPACING NOTE:

GALVANIC ANODES SHALL BE SPACED EVENLY AROUND THE PERIMETER OF THE REPAIR AREA AT A MAXIMUM SPACING OF 18\"/>



REPAIR

CHISEL BIT SHALL BE USED FOR THE PNEUMATIC HAMMER; A POINTED BIT SHALL NOT BE ALLOWED.


REINFORCING BARS SHALL MATCH EXISTING BAR SIZES AND SPACING FOR BOTH LONGITUDINAL AND TRANSVERSE BARS.

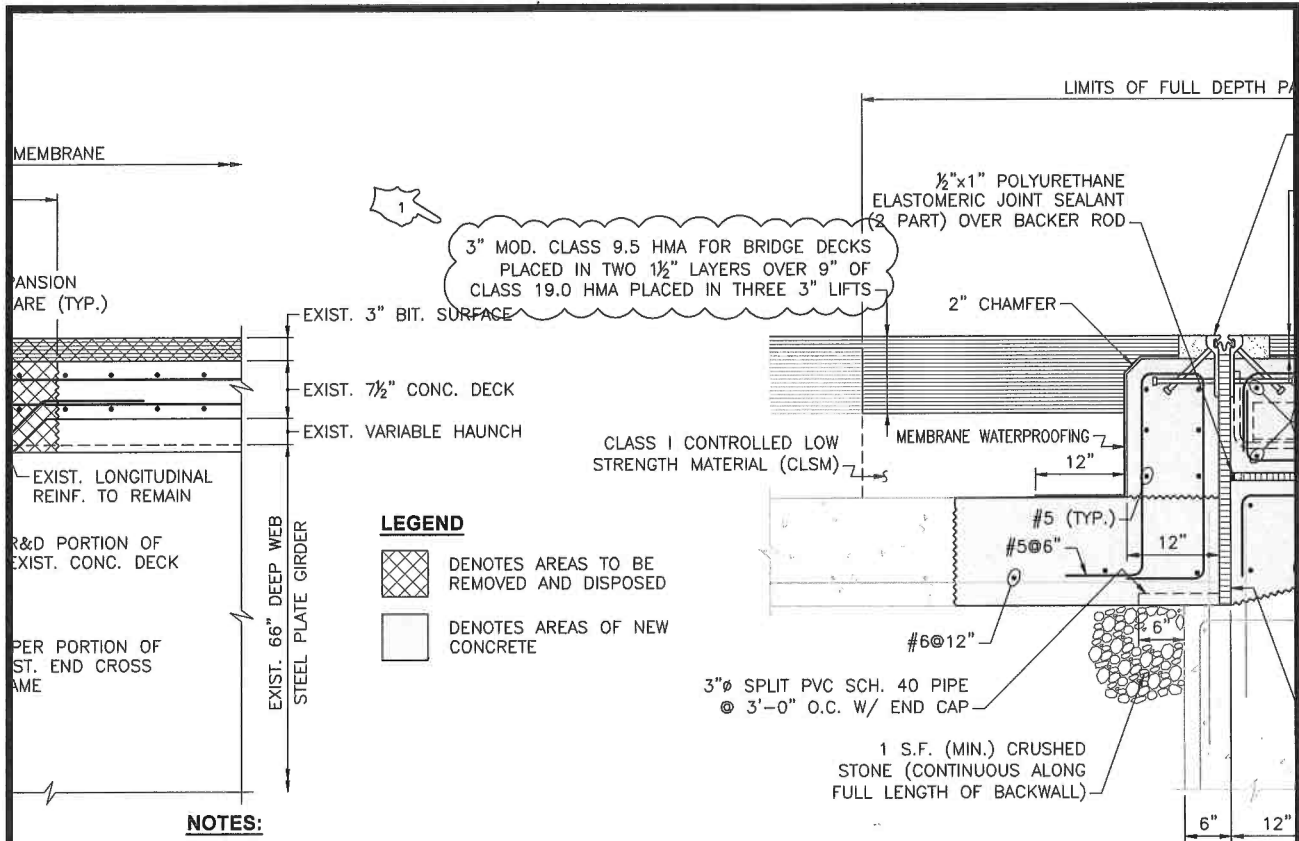
REINFORCEMENT SHALL BE GALVANIZED AND CONFORM TO ASTM A615, GRADE 60.

FOR DETERIORATED AREAS OF CONCRETE, WHERE AREAS OF POP-OUTS ARE CAUSED BY THE REMOVAL OF DETERIORATED CONCRETE, THE FULL DEPTH OF SLAB SHALL BE REPAIRED AND SHALL BE PAID FOR UNDER THE ITEM CODE 818.2010, "BRIDGE DECK REPAIR (FULL DEPTH REMOVAL)". WHERE POP-OUTS ARE CREATED IN SOUND CONCRETE DUE TO REMOVAL OPERATIONS, THEY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

AS DIRECTED BY THE ENGINEER, UPON REMOVAL OF THE FORM WORK, ALL VOIDS AND KEYHOLE ON THE SURFACE SHALL BE FILLED WITH THE SAME MATERIAL AS USED FOR ITEM CODE 818.2010 "BRIDGE DECK REPAIR (FULL DEPTH REMOVAL)" AND FINISHED TO CONFORM TO THE SURROUNDING CONCRETE SURFACE. NO FORM WORK SHALL BE LEFT IN PLACE.

THE COST OF REMOVAL OF THE DETERIORATED CONCRETE INCLUDING THE SAWCUT, AND MOVING AND PLACING THE RESULTING MATERIAL SHALL BE INCLUDED FOR PAYMENT UNDER

 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 GEORGE WASHINGTON HIGHWAY BRIDGE NO. 074701 BRIDGE DECK REPAIR DETAILS</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
		<p>REVISION TO SHEET NO. 56</p>



3" MOD. CLASS 9.5 HMA FOR BRIDGE DECKS
 PLACED IN TWO 1½" LAYERS OVER 9" OF
 CLASS 19.0 HMA PLACED IN THREE 3" LIFTS

LEGEND

DENOTES AREAS TO BE REMOVED AND DISPOSED

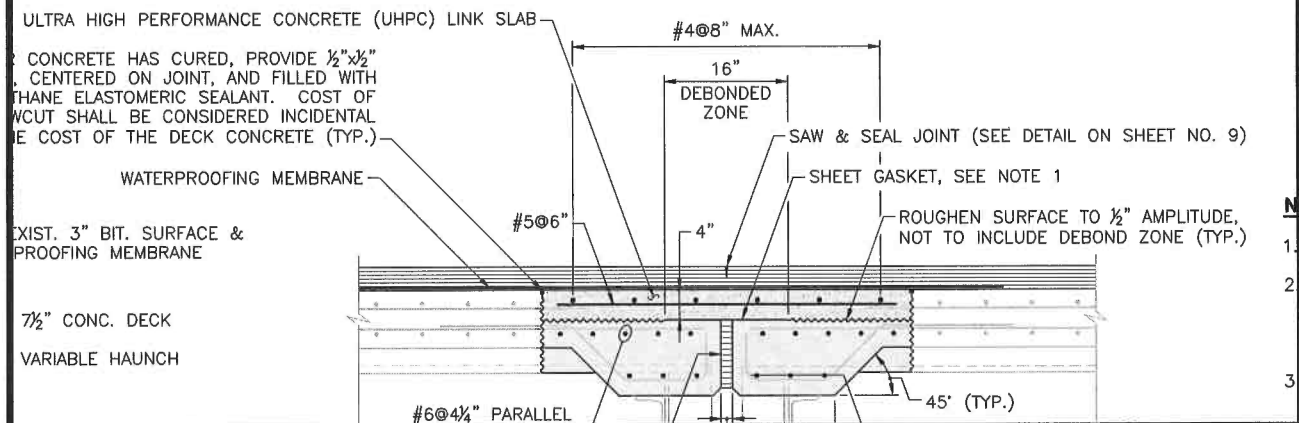
DENOTES AREAS OF NEW CONCRETE

NOTES:

1. THE COST OF FURNISHING AND INSTALLING THE CRUSHED STONE AND PVC SPLIT PIPE DRAINS AT THE ABUTMENTS JOINTS SHALL BE CONSIDERED INCIDENTAL TO, AND INCLUDED WITHIN THE PAYMENT FOR, THE CONCRETE REQUIRED FOR THE REBUILDING OF THE APPROACH SLAB AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.
2. PROPOSED TEMPORARY SHORING AND BRACING SHALL BE INSTALLED TO PREVENT UNDERMINING OF THE EXISTING APPROACH ROADWAY. THE SHORING AND BRACING SHALL BE REMOVED AND DISPOSED UPON COMPLETION OF THE WORK. THE COST OF THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE EXCAVATION; NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.

ABUTMENT

PROPOSED ROADWAY



Gordon R. Archibald, Inc.
 Civil and Environmental Engineers

TITLE OF SKETCH
BRIDGE GROUP 10 - I-295
 GEORGE WASHINGTON HIGHWAY BRIDGE NO. 074701
JOINT DETAILS - 1

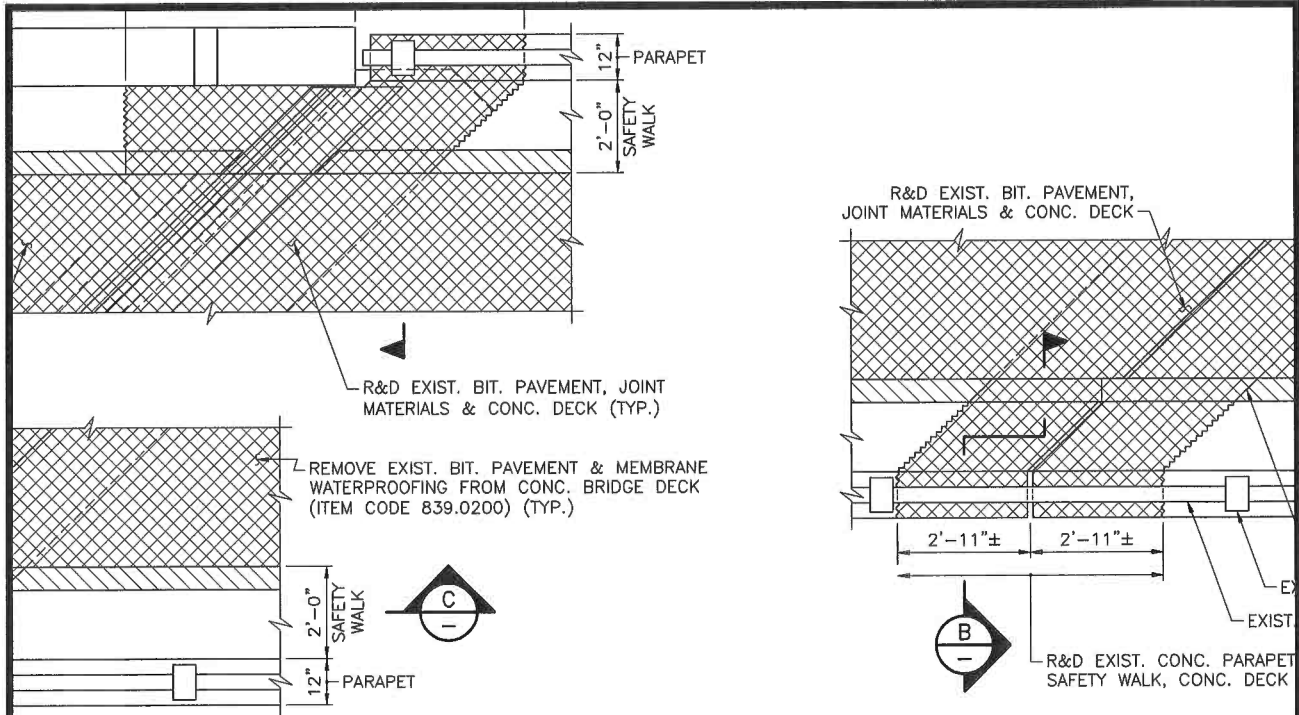
ADDENDUM NUMBER 3

RI CONTRACT NO.
 2020-CB-015

SKETCH NO.
24

REVISION TO
 SHEET NO. 57

DATE: 5/1/2020



EXISTING PLAN AT PIER

SCALE: 1/2" = 1'-0"

REMOVE & RESET EXIST. PIPE RAIL (TYP.)
 AT EXIST. RAIL POST (TYP.)

NOTE:
 THE COST OF THE FULL DEPTH SAWCUT OF GRANITE CURB SHALL BE CONSIDERED INCIDENTAL TO ITEM CODE 803.0300.

C. PARAPET, CONC. SAFETY WALK,
 JOINT MATERIALS & GRANITE CURB (TYP.)

PIER AT ABUTMENTS

1/2" = 1'-0"

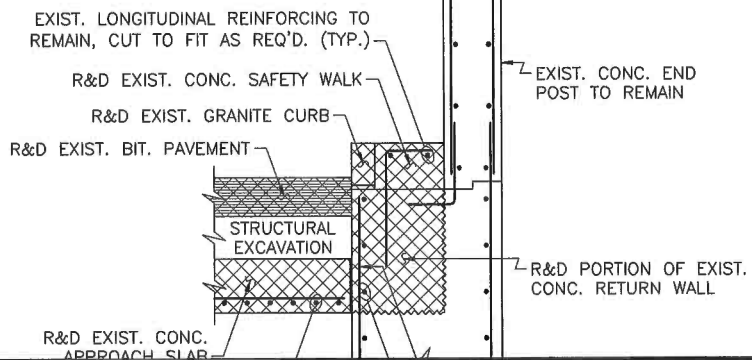
LEGEND

DENOTES AREAS TO BE REMOVED AND DISPOSED

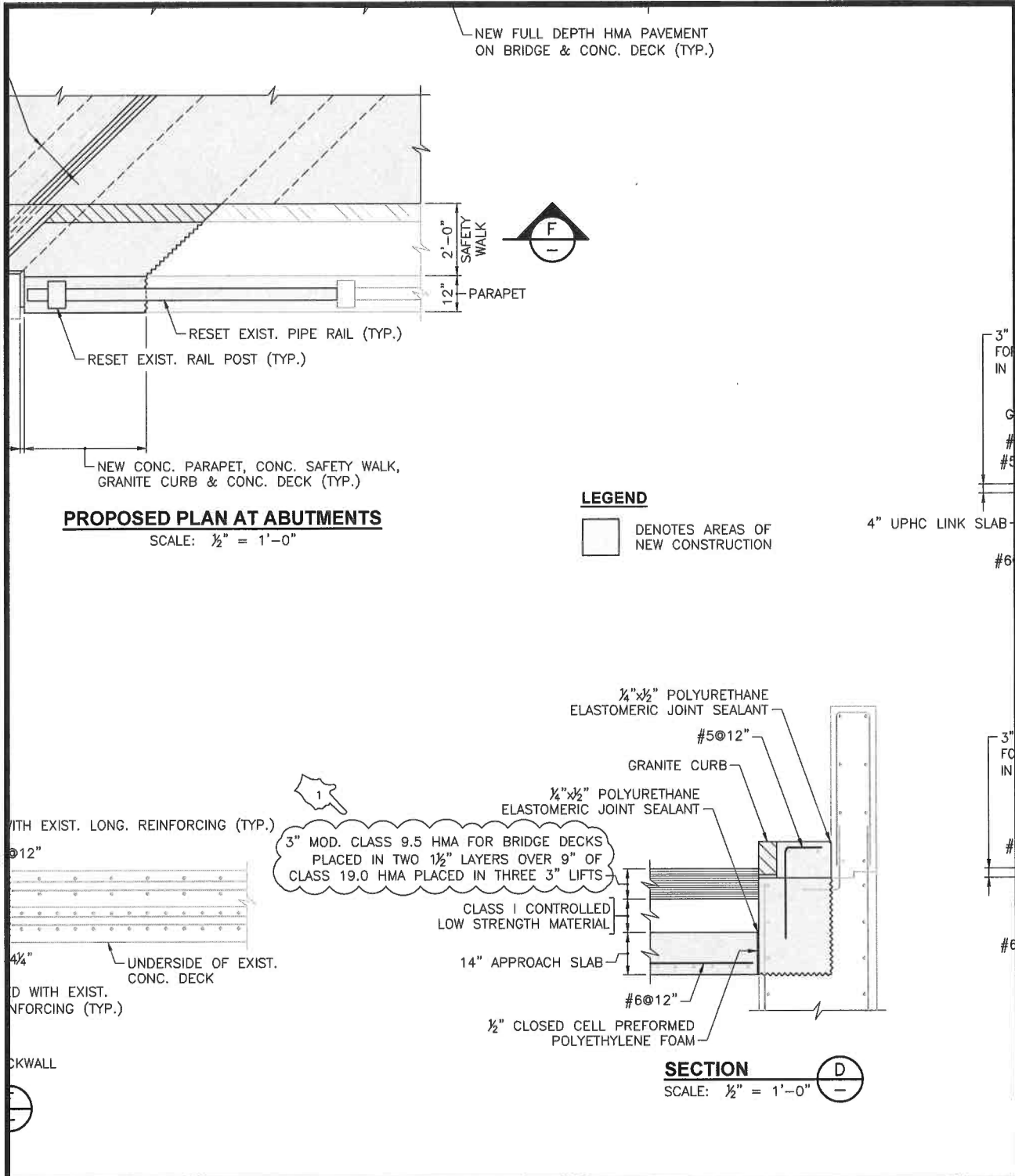
CONC. SAFETY WALK,
 JOINT MATERIALS & GRANITE CURB


REINFORCING TO REMAIN (TYP.)

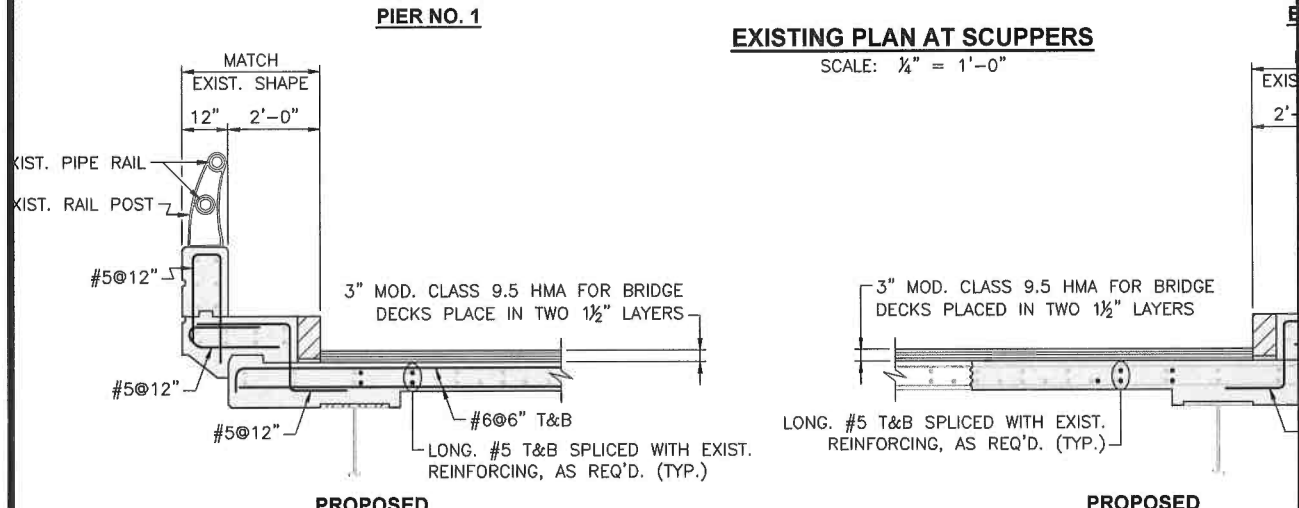
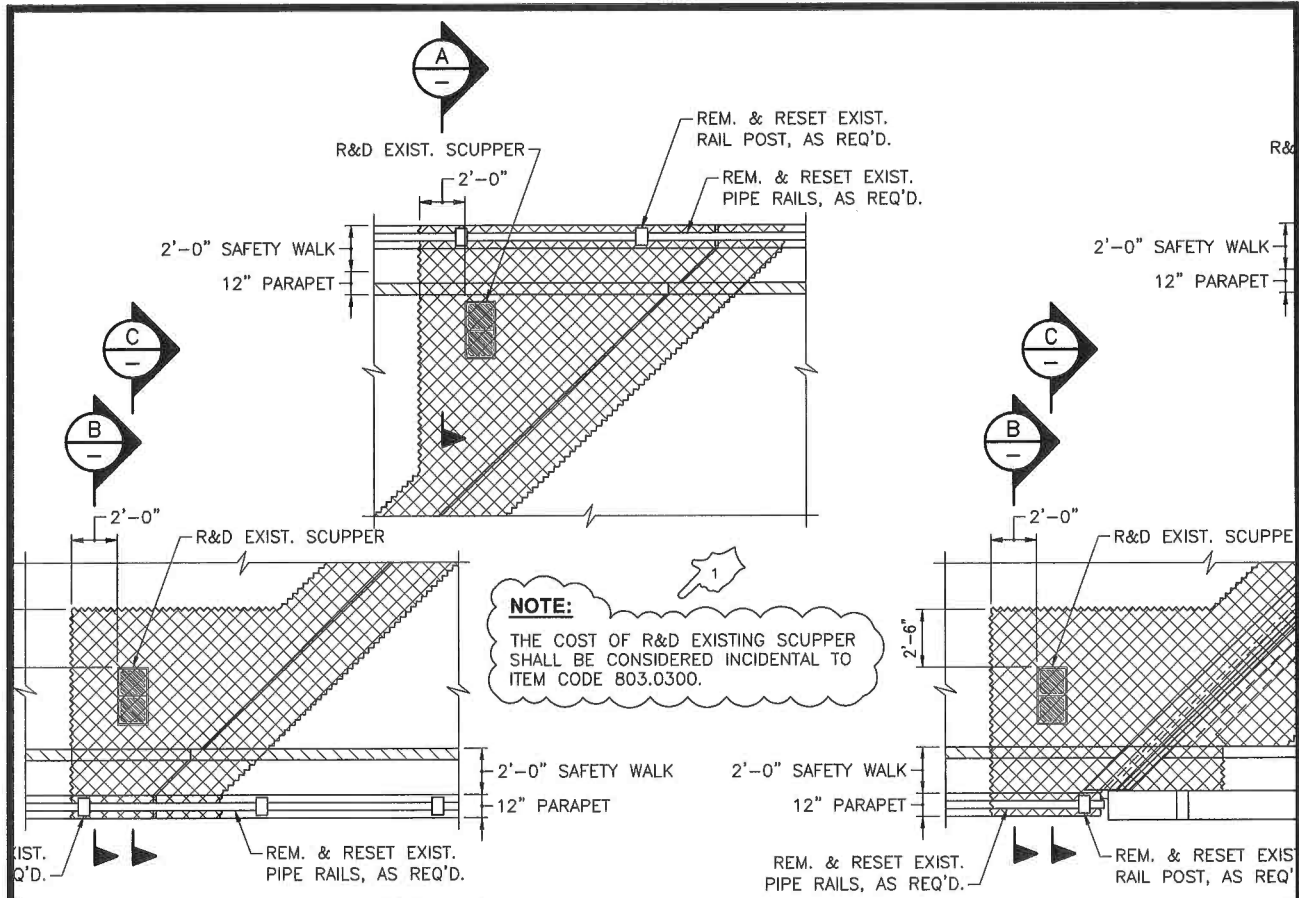
SIDE OF EXIST. CONC. DECK




<p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 GEORGE WASHINGTON HIGHWAY BRIDGE NO. 074701</p> <p>JOINT DETAILS - 2</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
		<p>REVISION TO SHEET NO. 58</p>



 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 GEORGE WASHINGTON HIGHWAY BRIDGE NO. 074701</p> <p>JOINT DETAILS - 3</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
<p>REVISION TO SHEET NO. 59</p>		

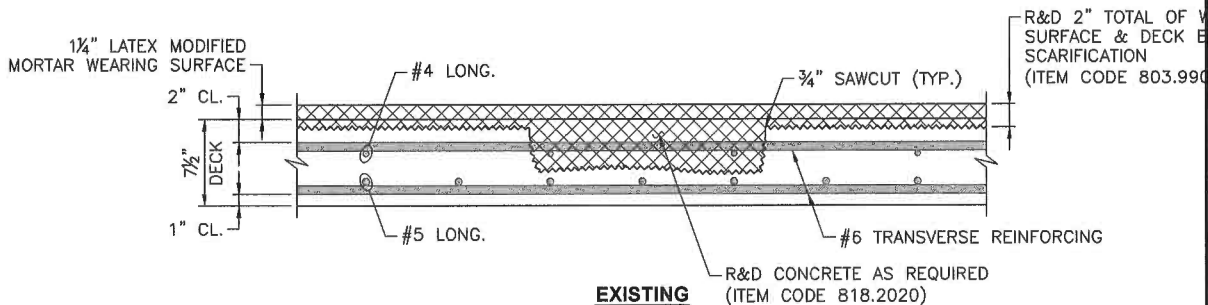


 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295 GEORGE WASHINGTON HIGHWAY BRIDGE NO. 074701</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>SCUPPER REMOVAL DETAILS</p>	<p>SKETCH NO. 27</p>
<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>	<p>REVISION TO SHEET NO. 60</p>

EXISTING (ITEM CODE 818.2010)

FULL DEPTH CONCRETE
(ITEM CODE 818)

NOT TO SCALE



PARTIAL DEPTH CONCRETE
(ITEM CODE 818)

NOT TO SCALE

BRIDGE DECK REPAIR NOTES:

1. LIMITS OF BRIDGE DECK REPAIRS SHALL BE AS DESIGNATED BY THE ENGINEER. THE CONTRACTOR SHALL PERFORM CHAIN DRAGGING, HAMMER SOUNDING, OR OTHER METHODS OF DETECTION AS APPROVED BY THE ENGINEER. THE DECK EVALUATION SHALL BE PERFORMED AFTER SCARIFICATION OPERATIONS.
2. THE COST OF THE DECK EVALUATION OPERATIONS SHALL BE INCLUDED IN THE COST OF THE DECK REPAIRS.
3. PRIOR TO THE REMOVAL OF ANY DETERIORATED DECK CONCRETE, THE CONTRACTOR SHALL INSTALL TEMPORARY DECK UNDERSIDE PROTECTIVE SHIELDING BENEATH THE DESIGNATED REPAIR LOCATIONS IN ACCORDANCE WITH ITEM CODE 803.0500. HORIZONTAL LIMITS SHALL EXTEND A MINIMUM OF 2'-0" BEYOND THE LIMITS OF THE REPAIR; VERTICAL LIMITS SHALL BE SUFFICIENT TO CONTAIN ANY POSSIBLE DEBRIS. ALL COSTS ASSOCIATED WITH THIS SHIELDING SHALL BE INCLUDED IN THE COST OF THE REPAIR.
4. AFTER REMOVAL OF DETERIORATED DECK CONCRETE, THE REINFORCING MAY BE FOUND TO BE DETERIORATED PAST THE POINT THAT IT IS UNACCEPTABLE FOR REUSE. THE EXISTING REINFORCING SHALL BE REPLACED WHEN:
 - EXISTING REINFORCING HAS 25% OR MORE OF SECTION LOSS.
 - EXISTING REINFORCING IS SEVERED.
 - AS DIRECTED BY THE ENGINEER.
5. ALL EXPOSED REINFORCING STEEL TO REMAIN SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SECTION 818 OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. GALVANIC ANODES SHALL BE INSTALLED AS INDICATED IN THE DETAILS AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
7. REMOVE CONCRETE AS FAR AS REQUIRED TO EXPOSE SOUND REINFORCING TO LAP THE NEW BARS. THE CONCRETE SHALL BE REMOVED TO A MINIMUM DEPTH OF 1" BELOW THE NEW BARS. REMOVAL IS TO STOP ONCE CONCRETE BEING REMOVED HAS FRACTURE LINES THAT PASS THROUGH AGGREGATE.
8. A CH ALLO
9. NEW TRAN
10. REINF
11. IN DE REMO SHALL REMO OPER
12. AS D HONE THE CONF PLAC
13. THE FURN THE THE
14. APPR PERM USE
15. ALL EXER OF S PLAN

1

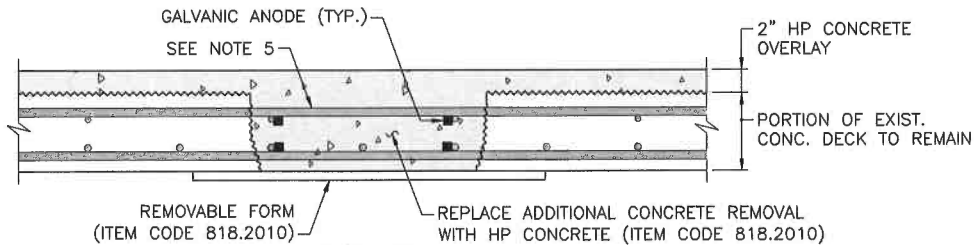
Gordon R. Archibald, Inc.
Civil and Environmental Engineers

<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295</p> <p>DOUGLAS PIKE NORTH RAMP BRIDGE NO. 079701 DOUGLAS PIKE SOUTH RAMP BRIDGE NO. 079801</p> <p>BRIDGE DECK REPAIR DETAILS</p>
<p>ADDENDUM NUMBER 3</p>

<p>RI CONTRACT NO.</p> <p>2020-CB-015</p>
<p>SKETCH NO.</p> <p>28</p>
<p>REVISION TO</p> <p>SHEET NO. 68</p>

REV.	DATE	BY
1		

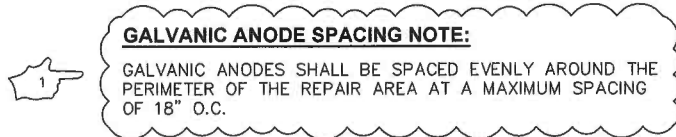
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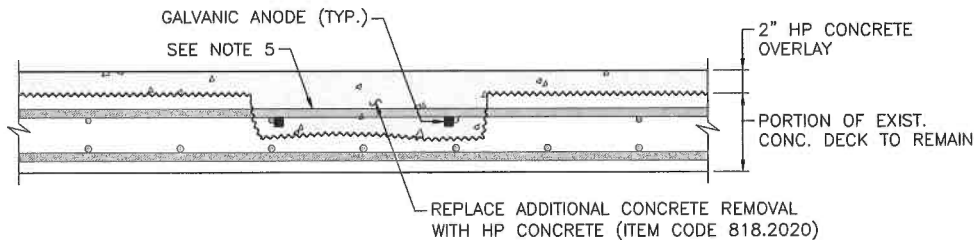
PROPOSED

**BRIDGE DECK REPAIR
(ITEM CODE 818.2010)**

SCALE



OF WEARING
K BY
9901)



PROPOSED

**BRIDGE DECK REPAIR
(ITEM CODE 818.2020)**

SCALE

A CHISEL BIT SHALL BE USED FOR THE PNEUMATIC HAMMER; A POINTED BIT SHALL NOT BE ALLOWED.


REINFORCEMENT BARS SHALL MATCH EXISTING BAR SIZES AND SPACING FOR BOTH LONGITUDINAL AND TRANSVERSE BARS.

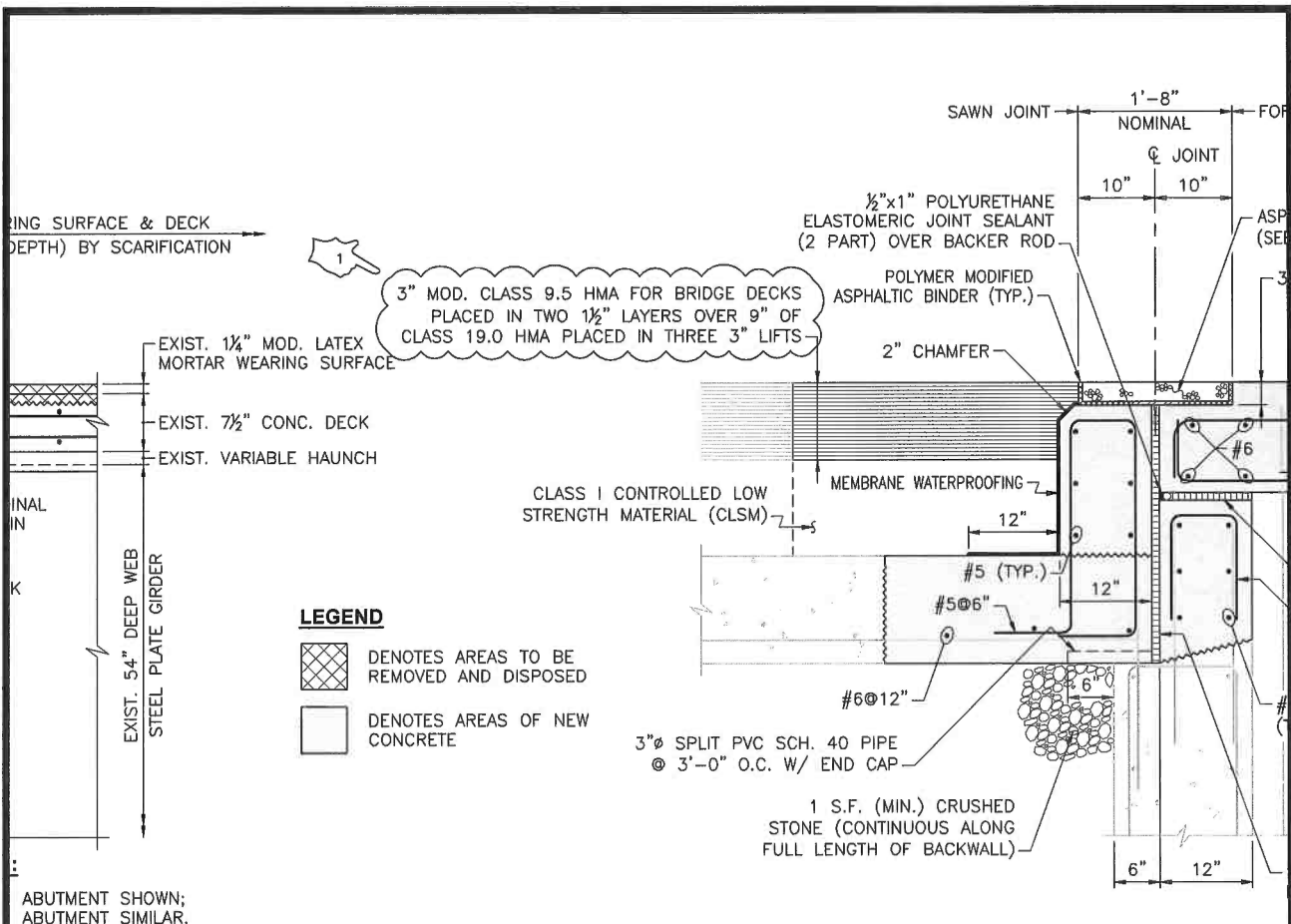
REINFORCEMENT SHALL BE GALVANIZED AND CONFORM TO ASTM A615, GRADE 60.

IN DETERIORATED AREAS OF CONCRETE, WHERE AREAS OF POP-OUTS ARE CAUSED BY THE REMOVAL OF DETERIORATED CONCRETE, THE FULL DEPTH OF SLAB SHALL BE REPAIRED AND SHALL BE PAID FOR UNDER THE ITEM CODE 818.2010, "BRIDGE DECK REPAIR (FULL DEPTH REMOVAL)". WHERE POP-OUTS ARE CREATED IN SOUND CONCRETE DUE TO REMOVAL OPERATIONS, THEY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



AS DIRECTED BY THE ENGINEER, UPON REMOVAL OF THE FORM WORK, ALL VOIDS AND HONEYCOMB ON THE SURFACE SHALL BE FILLED WITH THE SAME MATERIAL AS USED FOR THE ITEM CODE 818.2010 "BRIDGE DECK REPAIR (FULL DEPTH REMOVAL)" AND FINISHED TO CONFORM TO THE SURROUNDING CONCRETE SURFACE. NO FORM WORK SHALL BE LEFT IN PLACE.

THE COST OF REMOVAL OF THE DETERIORATED CONCRETE INCLUDING THE SAWCUT AND

 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH BRIDGE GROUP 10 - I-295 DOUGLAS PIKE NORTH RAMP BRIDGE NO. 079701 DOUGLAS PIKE SOUTH RAMP BRIDGE NO. 079801 BRIDGE DECK REPAIR DETAILS</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>SKETCH NO. 29</p>	
<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>	<p>REVISION TO SHEET NO. 68</p>

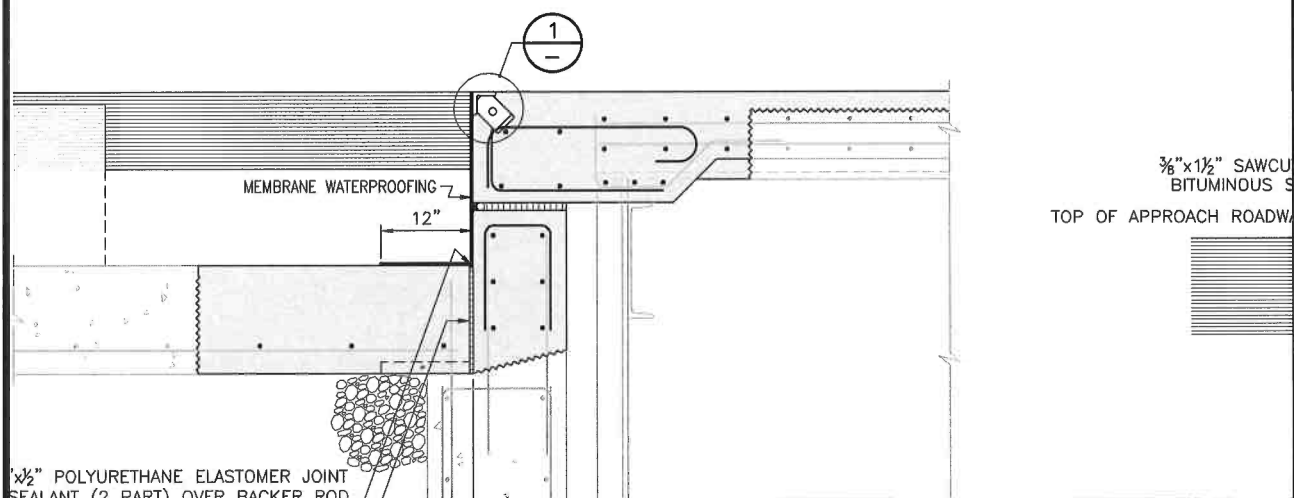



LEGEND

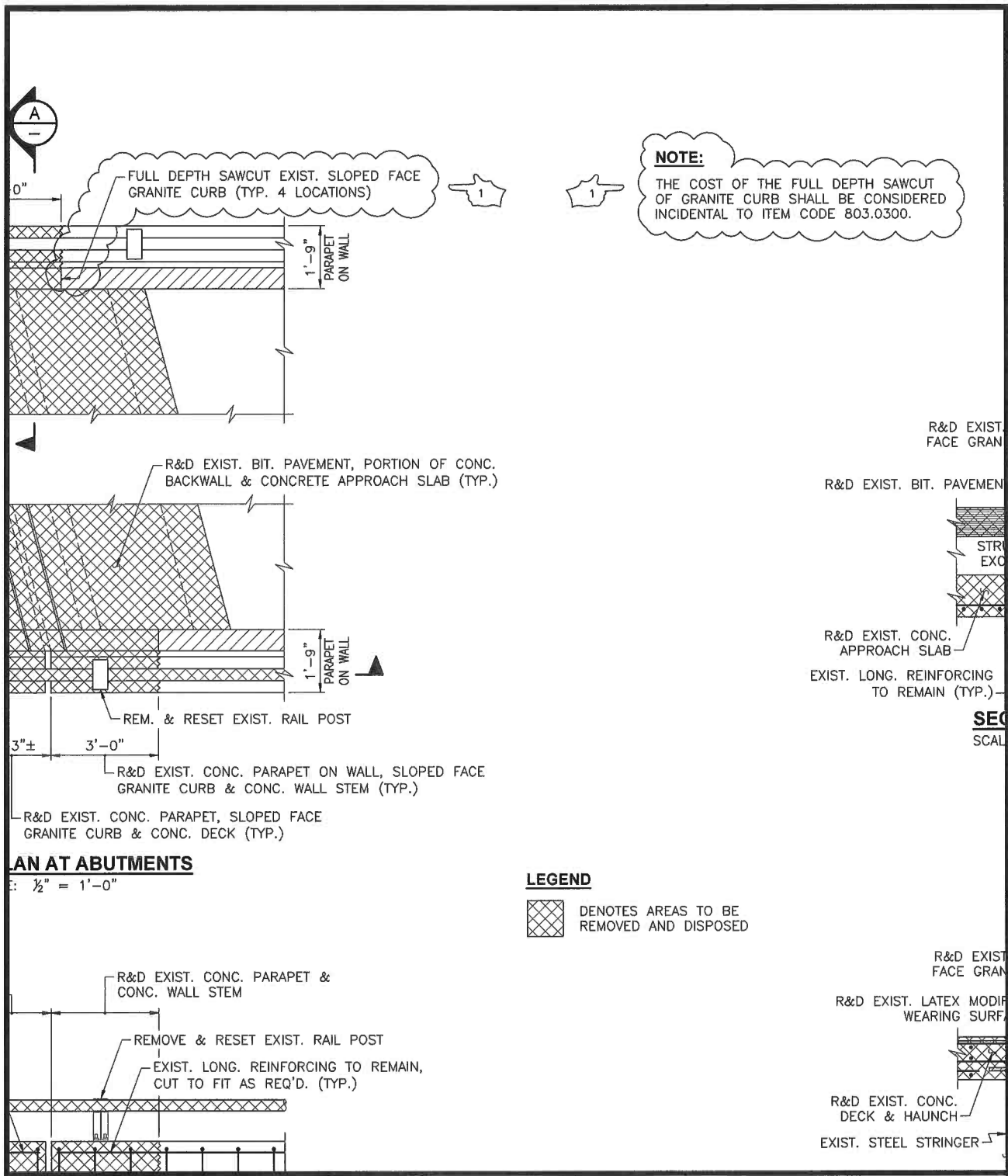
-  DENOTES AREAS TO BE REMOVED AND DISPOSED
-  DENOTES AREAS OF NEW CONCRETE

PROPOSED ROADWAY SECTION

SCALE: 1"

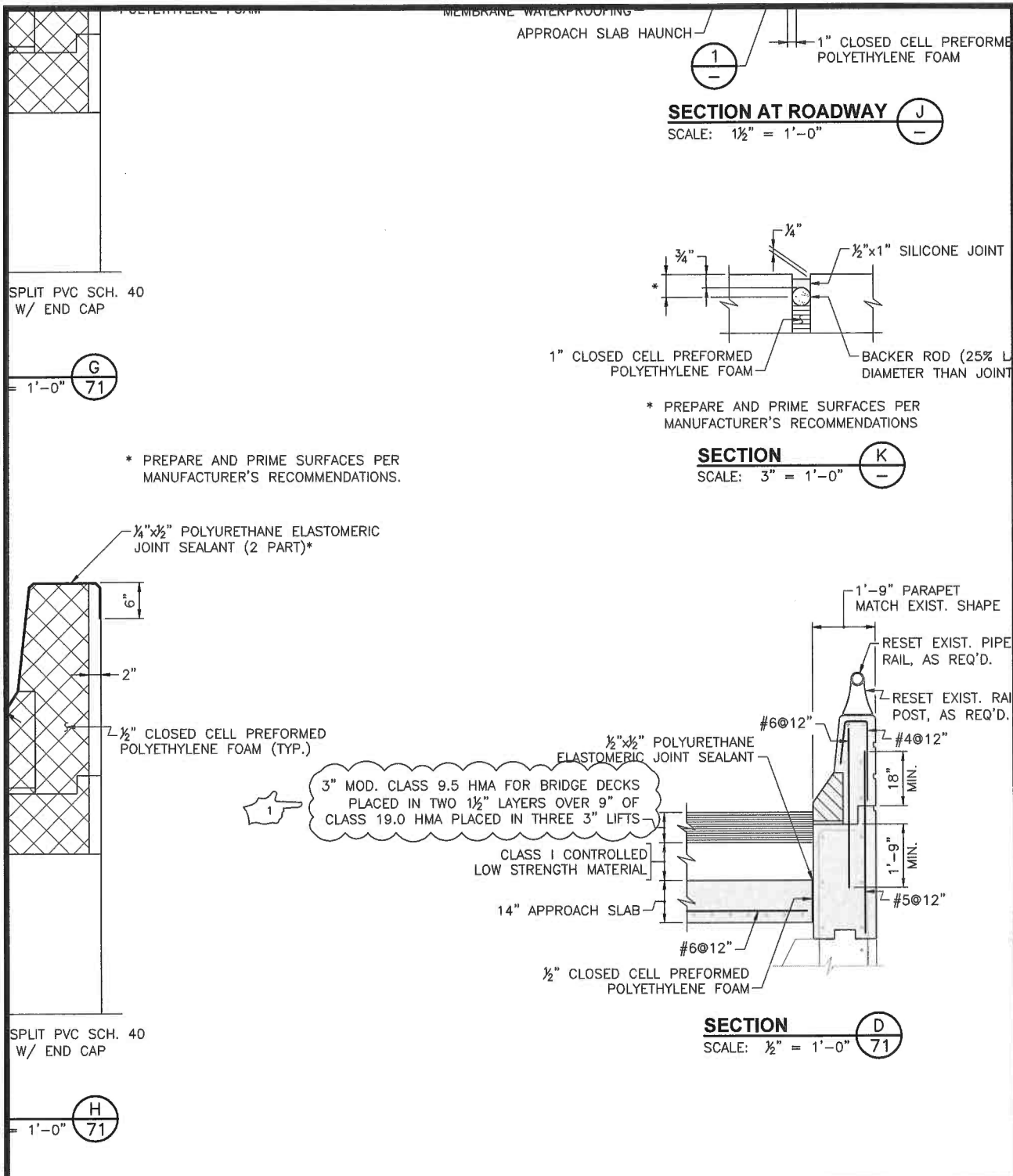



 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295</p> <p>DOUGLAS PIKE NORTH RAMP BRIDGE NO. 079701 DOUGLAS PIKE SOUTH RAMP BRIDGE NO. 079801</p> <p>JOINT DETAILS - 1</p>	<p>RI CONTRACT NO.</p> <p>2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
		<p>REVISION TO SHEET NO. 69</p>



AN AT ABUTMENTS
 1/2" = 1'-0"

<p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH BRIDGE GROUP 10 - I-295 DOUGLAS PIKE NORTH RAMP BRIDGE NO. 079701 DOUGLAS PIKE SOUTH RAMP BRIDGE NO. 079801 JOINT DETAILS - 2</p>	<p>RI CONTRACT NO. 2020-CB-015</p>
	<p>ADDENDUM NUMBER 3</p>	<p>SKETCH NO. 31</p>
<p>DATE: 5/1/2020</p>	<p>REVISION TO SHEET NO. 70</p>	



 <p>Gordon R. Archibald, Inc. Civil and Environmental Engineers</p>	<p>TITLE OF SKETCH</p> <p>BRIDGE GROUP 10 - I-295</p> <p>DOUGLAS PIKE NORTH RAMP BRIDGE NO. 079701 DOUGLAS PIKE SOUTH RAMP BRIDGE NO. 079801</p> <p>JOINT DETAILS - 4</p>	<p>RI CONTRACT NO.</p> <p>2020-CB-015</p>
	<p>DATE: 5/1/2020</p>	<p>ADDENDUM NUMBER 3</p>
		<p>REVISION TO SHEET NO. 72</p>