

January 10, 2013

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2013-CB-011
FEDERAL-AID PROJECT NO. FAP Nos: BHO-0020(001)

DBP C11 Repairs to Wakefield Bridge No. 20

Wakefield Bridge No. 20 carrying Main Street over the Saugatucket River in South Kingstown, Rhode Island
CITY/TOWN OF South Kingstown
COUNTY OF WASHINGTON

NOTICE TO PROSPECTIVE BIDDERS

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

A. Specification Change/Addition

1. CS-Pages

a. Page CS-i

Remove page CS-i in its entirety and replace it with revised page CS-i (R-1) attached to this Addendum No. 1. Section 23, Special Requirements for Traffic Maintenance, has been deleted. Section 24, Document and Management Control, has been renumbered Section 23.

b. Page CS-12

Remove page CS-12 in its entirety and replace it with revised page CS-12 (R-1) attached to this Addendum No. 1. Section 23, Special Requirements for Traffic Maintenance, has been deleted. Section 24, Document and Management Control, has been renumbered Section 23.

c. Page CS-13

Remove page CS-13 in its entirety. This sheet has been deleted.

2. JS-Pages

a. Page JS-i

Remove page JS-i in its entirety and replace it with revised page JS-i (R-1) attached to this Addendum No. 1. Code M.02 "PORTLAND CEMENT CONCRETE" has been removed.

b. Page JS-7

Remove page JS-7 in its entirety and replace it with revised page JS-7 (R-1) attached to this Addendum No. 1. Code 201.9901 "REMOVE, HANDLE & HAUL PLASTIC TRAFFIC BARRIERS" has been revised.

- c. Pages JS-14 through JS-17
Remove pages JS-14 through JS-17 in their entirety and replace them with revised pages JS-14 (R-1) through JS-17 (R-1) attached to this Addendum No. 1. Code 803.9920 “REMOVE & DISPOSE PORTION OF EXISTING CONCRETE SUPERSTRUCTURE” has been revised.
- d. Page JS-24
Remove page JS-24 in its entirety and replace it with revised page JS-24 (R-1) attached to this Addendum No. 1. Code 807.9910 “POINTING AND GROUTING STONE MASONRY WALL” has been revised.
- e. Page JS-25
Remove page JS-25 in its entirety and replace it with revised page JS-25 (R-1) attached to this Addendum No. 1. Code 808 “CAST-IN-PLACE STRUCTURE CONCRETE MASONRY” has been revised.
- f. Pages JS-27 & JS-28
Remove pages JS-27 & JS-28 in their entirety and replace them with revised pages JS-27 (R-1) & JS-28 (R-1) attached to this Addendum No. 1. Code 808.9901 “CONCRETE SUPERSTRUCTURE HES HP CONCRETE BRIDGE BEAM, DECK & DIAPHRAGMS” has been revised.
- g. Page JS-38
Remove page JS-38 in its entirety. Code M.02 “PORTLAND CEMENT CONCRETE” has been deleted.

B. Drawings/Plans - Change/Addition

- 1. Sheet No. 8 – Deck Sections
Remove Sheet No. 8 in its entirety and replace it with revised Sheet No. 8 (R-1) attached to this Addendum No. 1.
- 2. Sheet No. 9 – Abutment Elevations & Sections
Remove Sheet No. 9 in its entirety and replace it with revised Sheet No. 9 (R-1) attached to this Addendum No. 1.
- 3. Sheet No. 10 – Concrete Beam Repairs & Joint Details
Remove Sheet No. 10 in its entirety and replace it with revised Sheet No. 10 (R-1) attached to this Addendum No. 1.

C. Distribution of Quantities

- 1. Index Page 1
Remove Index Page 1 in its entirety and replace it with revised Index Page 1 (R-1) attached to this Addendum No. 2. The Index has been revised.
- 2. Page 1
Remove Page 1 in its entirety and replace it with revised Page 1 (R-1) attached to this Addendum No. 1. The Method of Measurement for Item Code 201.9901 “REMOVE, HANDLE & HAUL EXISTING PLASTIC TRAFFIC BARRIERS” has been revised.

RI Department of Transportation
Chief Engineer

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Appendix A – Level 3 Transportation Management Plan

Appendix B – Stormwater Pollution Prevention Plan (SWPPP)

projects include RIDEM improvements to the Saugatucket River Dam Fishway (replacement of the fish ladder) and RIDOT 1R Improvements to High Street.

21. WINTER SHUTDOWN

The winter shutdown shall be as described in Section 12.101.80 of the Rhode Island Department of Administration Procurement Regulations at Section 12.

22. TRANSPORTATION MANAGEMENT PLAN

The Transportation Management Plan (TMP) for this project is included as an Appendix "A" 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 applicable sections of SECTION 12 of the RI Department of Administration Emergency Procurement Regulations, which describes the requirements for the Contractor's designation of a TMP Implementation Manager for the Contract, and also 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 are available under the "Training" section at: <http://www.dot.ri.gov/humanresources/index.asp>.

23. DOCUMENT MANAGEMENT AND CONTROL

The Department has a standard document management and control program for all contracts. The intent of the program is to provide a system that enables an orderly and timely response to all project correspondence. To support this system, the Contractor shall strictly follow these document control standards.

SPECIFICATIONS – JOB SPECIFIC

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CODE 201.9901

REMOVE, HANDLE & HAUL EXISTING PLASTIC TRAFFIC BARRIERS

DESCRIPTION:

The work under this item shall include removing, handling and hauling the existing plastic traffic barriers on Main Street at the Wakefield Bridge No. 20 and delivering them to the RIDOT Maintenance facility identified below.

CONSTRUCTION METHODS:

All existing plastic traffic barriers shall be removed from the job site, placed on transport vehicles and delivered to the RIDOT Highway & Bridge Maintenance facility at 360 Lincoln Avenue in Warwick, RI between the hours of 7:00 AM – 2:30 PM Monday through Friday. The contractor shall contact [Fran Chatelle \(Central Stockroom\)](#) at [Phone No. 734-4810](#) to make advanced arrangements for the delivery of the barriers. The barriers shall be carefully unloaded and stacked at the direction of the Engineer. Any damage to the existing plastic traffic barriers as a result of the Contractors handling, hauling & delivering of the barriers to the RIDOT Highway & Bridge Maintenance facility shall be the responsibility of the Contractor and any damaged barriers shall be replaced by the Contractor at no cost to the State.

METHOD OF MEASUREMENT:

This item will not be measured for payment.

BASIS OF PAYMENT

No separate payment will be made for this item. Costs for this item shall be included in the unit bid prices of the appropriate items as listed in the Proposal.

CODE 803.9920

REMOVE & DISPOSE PORTION OF EXISTING CONCRETE SUPERSTRUCTURE

DESCRIPTION:

The work under this item shall consist of the removal and disposal of existing reinforced concrete, associated structural steel embedded in the concrete and other related items, as described herein and to the limits as shown on the Contract Drawings.

The plans and details of the existing structures shown on the demolition plans are illustrative only, depicting the minimum limits of removal. It is the Contractor's responsibility to visit the site and to review all existing information to assess the existing conditions and the scope of the demolition work required to accommodate the proposed construction, prior to submitting bids. No additional compensation, other than the lump sum price bid for these items, shall be made for additional material, disposal or work required to accommodate the proposed construction whether or not it differs from that inferred or described herein or shown on the plans.

For the purposes of these Special Provisions, the existing superstructure and substructure to be removed and disposed (to the limits indicated on the Contract Drawings) are in general described as follows:

"REMOVE & DISPOSE PORTION OF EXISTING CONCRETE SUPERSTRUCTURE":
Saw cuts as required; the removal and disposal of designated portions of existing reinforced concrete bridge decks, beams, and diaphragms; the cutting, removal and disposal of associated reinforcing steel; and all other structural steel components and hardware cast within or attached to the concrete.

Certain reinforcing steel is to remain in place as indicated on the Contract Drawings. Any damage to reinforcing steel to remain shall be repaired by the Contractor at his own expense and to the satisfaction of the Engineer.

This work shall also include the cutting of reinforcing steel, where required, and the surface preparation of the reinforcing steel and concrete prior to placement of new concrete.

Care shall be taken to protect all utility designated to remain in place. Any damage to existing utilities shall be repaired by the Contractor at his own expense and to the satisfaction of the Engineer and the respective utility companies.

In addition all respective utility companies are to be given a minimum of forty eight (48) hours advanced notice of concrete removal to be performed adjacent to their lines. This notice will also apply to any deactivation required by the Contractor. The Contractor

shall confirm the location and status of each Utility line (with the respective utility companies) prior to any concrete removal.

CONSTRUCTION METHODS:

The Contractor shall phase and/or perform this work in accordance with the provisions of the Contract Drawings, the Maintenance and Protection of Traffic Plans found in the Contract Documents, and the restrictions noted in the TMP and CS pages. The Contractor shall segment the concrete removal portions of the superstructure and substructure so as to facilitate the removal with as few pieces as possible.

The Contractor shall ensure that the removal and disposal operations do not cause damage to the existing bridge to remain, nor to any existing structures or properties. Any resulting damages shall be repaired to the satisfaction of the Engineer and property owner(s) at the expense of the Contractor.

Prior to the commencement of any demolition activities, the Contractor shall prepare and submit to the Engineer for approval, detailed demolition plans signed and sealed by a Professional Engineer licensed in the State of Rhode Island. Said demolition plans shall include, but not be limited to, plans showing the location of all roadways, waterways, utilities, and other appurtenances in the area of demolition, all temporary traffic barriers, temporary deck underside protective shielding, anticipated pick weights, and rigging, crane and equipment types and locations (including operating radii), removal sequence and effects on remaining structural elements, temporary support design, and all else necessary to clearly describe the work to be performed. An approved demolition plan as described above is required prior to commencement of any demolition activities. Approval(s) of demolition plans, procedures, etc. shall in no way relieve the Contractor of sole liability for damages resulting from the removal and disposal operations.

The Contractor shall ensure that no debris or any other foreign material falls onto the waterway below the bridge. Should any debris inadvertently fall onto the waterway, the debris shall be removed immediately and all work shall stop until such time as a revised procedure of operation has been submitted and approved by the Engineer. Any delay caused as a result of cessation of work shall not relieve the Contractor of any responsibilities under this contract, including the timely completion of work.

All removed materials shall be taken from the site as the work progresses. No storing or burying of material or debris on site will be permitted.

The boundaries of the concrete areas to be removed where indicated on the Contract Drawings or as directed by the Engineer, shall be saw cut square to a minimum depth of 1 inch ($\frac{1}{2}$ inch for decks). Concrete removal shall be by means of suitable power and hand tools which will not cause over-breakage. Care shall be taken during the removal

of the designated portions of the structure to avoid damaging the portions that are to remain.

The pneumatic hammer used to remove concrete shall not be heavier than the nominal 30 pound class. Chipping hammers or mechanical chipping tools, to remove concrete within two inches beneath or around reinforcing steel to remain, shall not be heavier than nominal 15 pound class. These power-driven hand tools shall never be placed in direct contact with the reinforcing steel to remain.

Regardless of the method of removal, if in the opinion of the Engineer the removal operation causes excessive damage to portions of the concrete which are to remain, the Contractor shall cease his operations until such time that an alternate removal method has been proposed by the Contractor and has been approved by the Engineer. No resulting delays due to "cease of operations" will result in claims for additional payment by the Contractor to the State, or an extension of the project completion date.

All corroded reinforcing bars to remain within the concrete removal boundaries shall be thoroughly cleaned by sandblasting or by other suitable methods approved by the Engineer in order to remove all rust. If the corroded reinforcing has lost more than 25% of its original diameter, the reinforcing steel shall be supplemented with new reinforcing by placing the new bar parallel to the existing reinforcing. New bars considered main reinforcing shall be extended beyond the affected area in each direction by the required lap lengths (30 bar diameters). If necessary, additional chipping will be required to provide this lap. The size of the supplemental reinforcing shall match the existing reinforcing.

All newly exposed concrete surfaces shall be free of loose particles and other foreign material. They shall be cleaned and be left roughened by the use of sandblasting, compressed air, air and water blasting, steam, wire brushing, or by other suitable methods approved by the Engineer.

Before placing new concrete over existing concrete, the existing concrete surface shall be kept wet and allowed to dry to a saturated surface dry condition immediately prior to placing the new concrete.

The methods and equipment to be used for the removal and disposal, as described in this Special Provision, and the disclosure of the Contractor's proposed disposal area(s), shall be submitted by the Contractor to the Engineer for approval prior to the commencement of work. Said approval(s) shall in no way relieve the Contractor of sole liability for damages resulting from his operations.

The Contractor shall provide temporary deck underside shielding. This work shall be in accordance with the specification "TEMPORARY DECK UNDERSIDE & SIDE PROTECTIVE SHIELDING" (included in the Rhode Island Compilation of Approved Specifications) and as modified by the Contract Drawings. The costs for this work shall

be included for payment under Item 803.0500 "TEMPORARY DECK UNDERSIDE AND SIDE PROTECTIVE SHIELDING".

METHOD OF MEASUREMENT:

The quantity of "REMOVE & DISPOSE PORTION OF EXISTING CONCRETE SUPERSTRUCTURE" will be measured for payment by the "Cubic Yard" of concrete removed, in accordance with the contract drawings, this Special Provision, and/or as directed by the Engineer.

BASIS OF PAYMENT:

The accepted quantity of "REMOVE & DISPOSE PORTION OF EXISTING CONCRETE SUPERSTRUCTURE" will be paid for at the contract unit price per "Cubic Yard", as designated in the Proposal. The price so stated shall constitute full and complete compensation for all labor, tools, materials and 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.

the underwater work. Any special equipment required to perform the work under these specifications shall be considered incidental to this item. There will be no additional payment made or time extension allowed for these difficult work conditions.

Not less than thirty (30) days prior to the start of any masonry construction work, the Contractor shall submit evidence that the stone mason selected has demonstrated experience in at least three (3) successfully completed comparable underwater masonry construction projects and is experienced in the successful use of rapid setting repair mortar.

Joints to be pointed shall be cleaned of all loose or unsound mortar, dirt, vegetation or other foreign materials. All loose mortar shall be raked out to a minimum depth of two inches. After cleaning the joints to the satisfaction of the Engineer, fast setting grout material shall be thoroughly packed to completely fill the entire depths of the voids and extend to the outer adjacent stone face to form a slightly rounded edge. Excess grout shall be cleaned from adjacent stone work.

All masonry work shall be in strict conformance with the material manufacturer's recommendations'. Contractor shall prevent excess grout from falling into the water.

The requirements regarding weather limitations shall be adhered to as stipulated in Subsection 807.03.1 of the Rhode Island Standard Specifications, except that no work shall be constructed when temperatures are expected to fall below 40 °F within 36 hours of placement or repair, unless written permission is granted from the Engineer. The Contractor shall submit for approval cold weather construction materials and methods, and shall adhere to conditions set forth by the Engineer. The materials and work associated with weather limitations is considered incidental and shall be performed at no additional cost to the State.

METHOD OF MEASUREMENT:

The quantity of "POINTING AND GROUTING STONE MASONRY WALL" will be measured for payment by the number of "Linear Feet" of joints actually re-pointed, regardless of whether joints are above or below water, in accordance with the Contract Plans, this Special Provision and/or as directed by the Engineer.

BASIS OF PAYMENT:

The accepted quantity of "POINTING AND GROUTING STONE MASONRY WALL" will be paid for at the contract unit price per "Linear Foot" as designed in the Proposal. The price so- stated shall constitute full and complete compensation for all labor, materials, tools, equipment, and 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.

SECTION 808

CAST-IN-PLACE STRUCTURE CONCRETE MASONRY

Division 8, Section 808 of the Standard Specifications for Road and Bridge Construction is amended for this contract by the following paragraphs. In the event of conflicting form removal requirements stated elsewhere in the Contract Documents, the Engineer will determine the applicable form removal requirements for the situation. The Contractor shall notify the Engineer of the conflicting requirements and shall obtain written resolution from the Engineer in advance of form removal.

Delete the first sentence of 808.03.4 Forms, paragraph a. General, and replace with the following:

In addition to concrete component shop drawings identified elsewhere in the contract documents, the Contractor shall prepare detailed formwork shop drawings for concrete placements which conform to one or more of the following:

- Vertical form dimension is greater than 6 feet
- Location of concrete placement is over and/or adjacent to live traffic, public walkways, buildings, utilities
- All Mass Concrete placements

Delete section 808.03.10 in its entirety, and replace with the following:

808.03.10 Removal of Forms, Falsework and Centering. In general, determination of the time of form removal should be based on the resulting effect on the concrete. When forms are stripped there shall be no excessive deflection or distortion and no evidence of damage to the concrete due to either removal of support or to the stripping operation. When forms are removed before the specified curing is completed, measures shall be taken to continue the curing and provide adequate thermal protection for the concrete. Forms shall not be removed without the approval of the Engineer.

Forms for slabs, beams, pier caps, pier columns, pile caps and other support members shall not be removed until the concrete has reached the compressive strength specified on the plans. Where two compressive strengths are listed on the plans for a given concrete class, the 28 day value shall be used in reference to form removal.

When necessary for the facilitation of surface finishing, side forms used on ornamental work, railings, parapets and exposed vertical surfaces (except columns) may be removed after 12 hours. Other side forms may be removed prior to achieving the 28

CODE 808.9901

**CONCRETE SUPERSTRUCTURE HES HP CONCRETE BRIDGE BEAM,
DECK & DIAPHRAGMS**

DESCRIPTION: The work included under this code shall consist of forming, placing, curing and finishing High Early Strength (HES) High Performance (HP) concrete bridge beam, deck, and diaphragms at the locations and to the dimensions as detailed in the contract drawings. The work shall also include all required falsework necessary to support the formwork to construct the concrete beam, deck, and diaphragms as detailed in the contract drawings or as directed by the Engineer.

Cutting and matching roadway pavement, removal and disposal of roadway pavement, excavation, partial removal and disposal of existing concrete superstructure, placement of steel bar reinforcing, waterproofing membrane, backfill, and placement of new pavement make-up will be measured and paid for separately under Item Codes 932.0100, 201.0409, 203.0100, 808.9920, 810.0300, 813.0400, 301.0200, 401.9901, and 401.9902 respectively.

MATERIALS: The materials to be used under this item code shall include the following:

Concrete: All aggregate, cement, mineral admixtures, chemical admixtures, water and concrete shall conform to Part 600 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2010 Edition and all current revisions. Concrete for the bridge beam, deck and diaphragms shall be High Early Strength High Performance Portland Cement Concrete (HES HP) that conforms to the requirements of Class HP concrete from Section 601 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2010 Edition and all current revisions, and the additional requirements of this specification.

Mix Design Procedure:

Approval of the concrete mix shall be in accordance with Section 601 of the Rhode Island Standard Specifications for Road and Bridge Construction, 2010 Edition and all current revisions. The proportioning of ingredients for HES HP concrete shall be as approved by the Engineer and as specified herein. HES HP concrete may be modified by either chemical admixtures, mineral admixtures or both as required to obtain the concrete characteristics listed in Table 1, below.

TABLE 1

Minimum Compressive Strength 1 day (psi)	2,000
Minimum Compressive Strength 4 days (psi)	4000
Minimum Compressive Strength 28 days (psi)	5000

Compressive strength and flexural strength testing shall be done in accordance with AASHTO T23 and AASHTO T927 respectively.

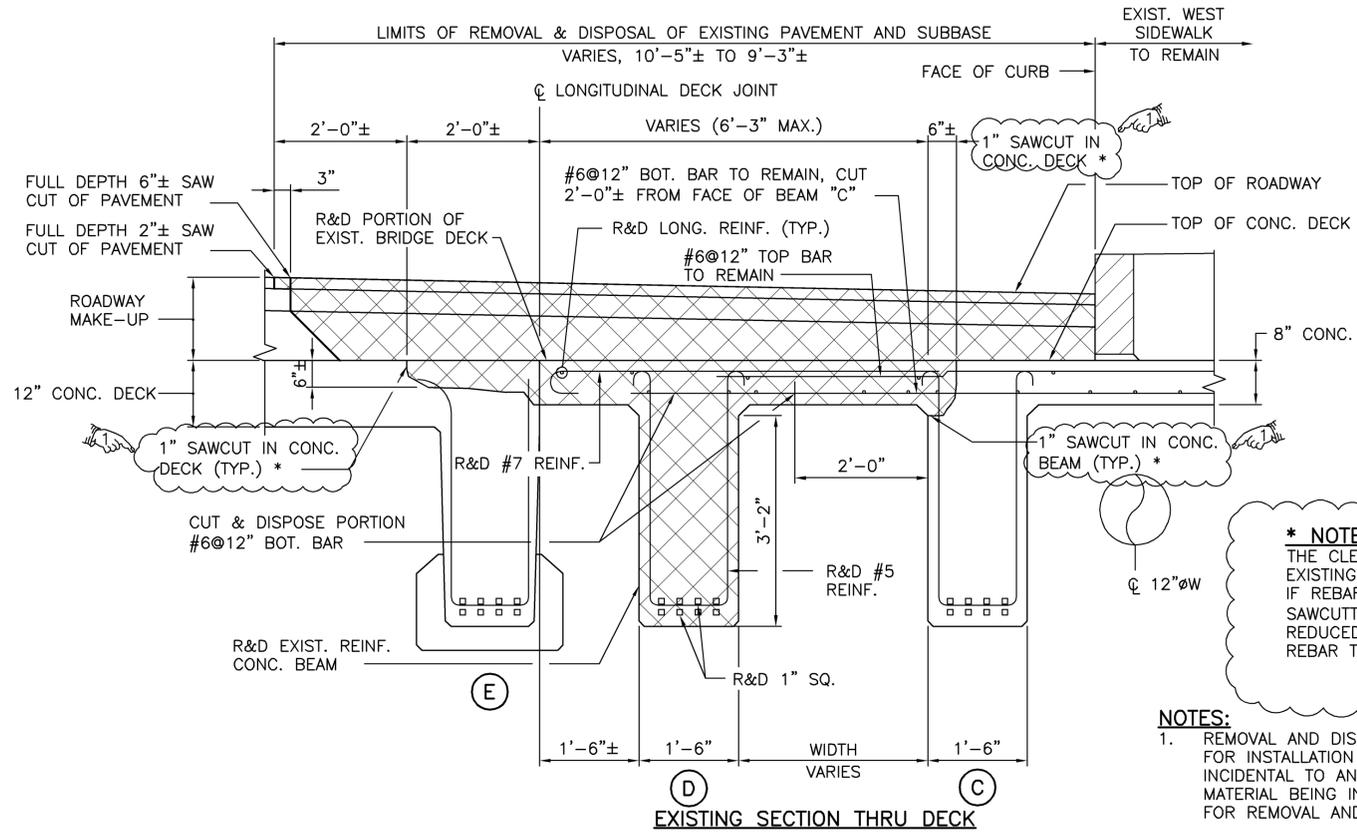
CONSTRUCTION METHODS: All equipment, tools and requirements pertaining to the production, placement, curing, and finishing of HES HP Portland Cement Concrete, shall be in accordance with Parts 601 and 808 of the Rhode Island Standard Specifications for Road and Bridge Construction except as modified herein.

Handling and Placement: The Contractor shall be advised that HES HP concrete may result in an accelerated initial concrete set. The Contractor shall take proper precautions to conduct all of the handling, testing, placement, finishing and curing of concrete before concrete initial set. Concrete that has attained initial set prior to placement will be discarded at no cost to the Department.

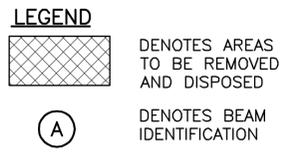
During concreting operations in hot weather, the Contractor shall take measures with the approval of the Engineer, to reduce hazards such as, increased rate of cement hydration, flash set, loss of water due to evaporation, high concrete ingredient temperatures, and the increased difficulty of concrete placing and finishing. Any concrete admixture modifications proposed by the Contractor must be submitted in writing to the Engineer for approval.

METHOD OF MEASUREMENT: The quantity of "Concrete Superstructure HES HP Concrete Bridge Beam, Deck & Diaphragms" will be measured for payment by the per "Cubic Yard" of concrete actually placed in accordance with the Contract Documents and/or as directed by the Engineer.

BASIS OF PAYMENT: The accepted quantity of "Concrete Superstructure HES HP Concrete Bridge Beam, Deck & Diaphragms" will be paid for at the contract unit price per "Cubic Yard" as designated in the Proposal. The price so stated shall constitute full and complete compensation for all labor, materials, tools and equipment, and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

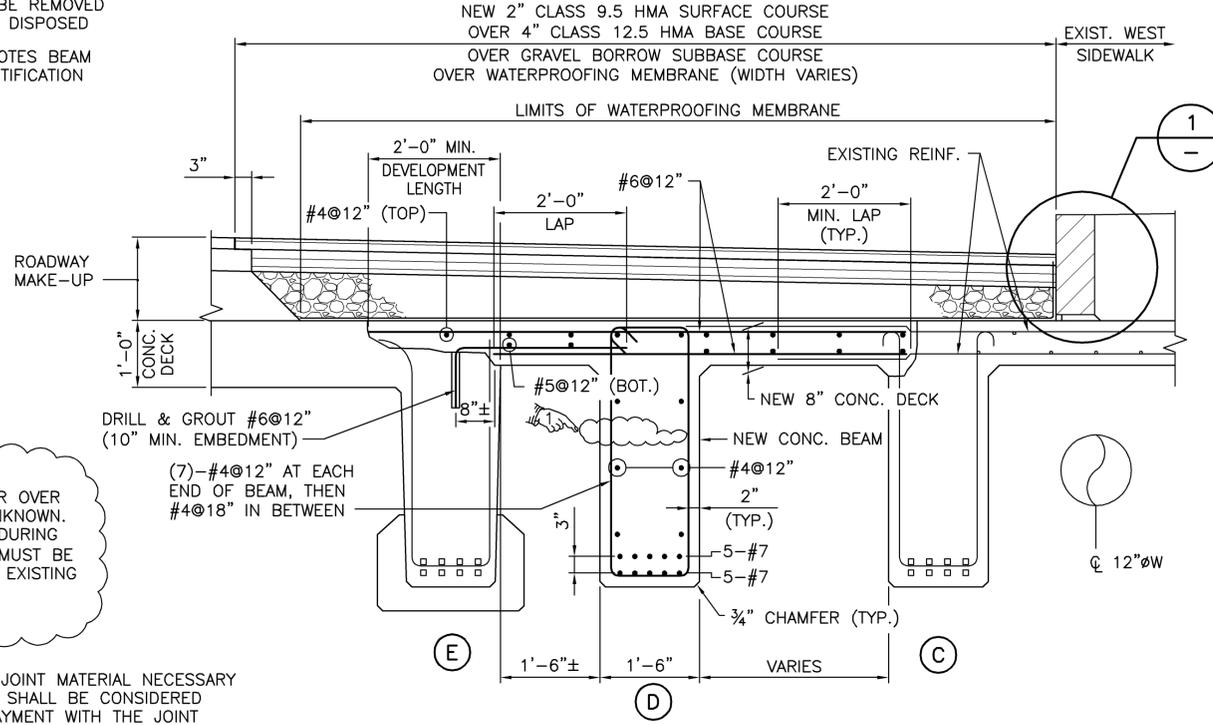


SECTION A
SCALE: 3/4"=1'-0"



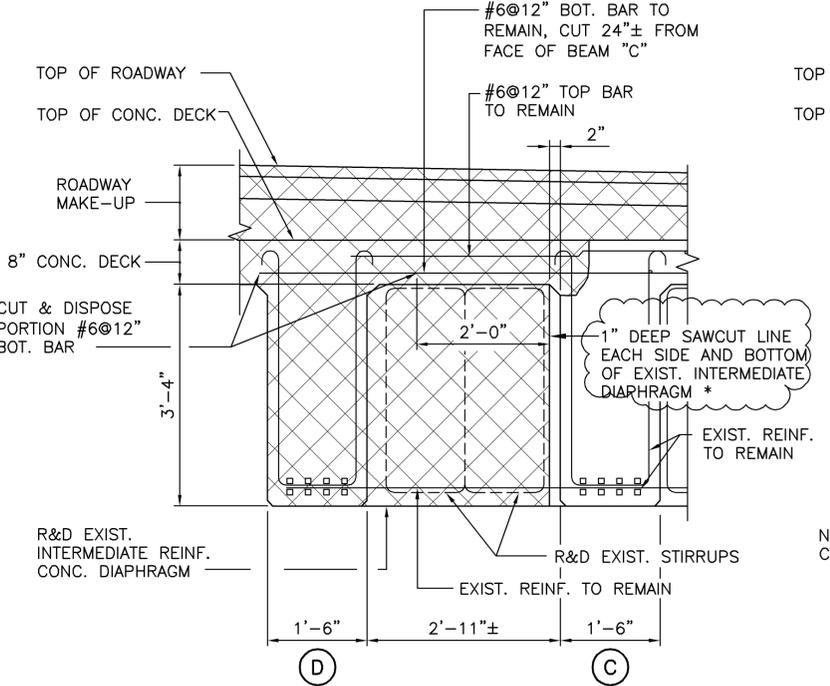
*** NOTE:**
THE CLEAR CONCRETE COVER OVER EXISTING REINFORCING IS UNKNOWN. IF REBAR IS ENCOUNTERED DURING SAWCUTTING THE 1" DEPTH MUST BE REDUCED TO AVOID CUTTING EXISTING REBAR TO REMAIN.

- NOTES:**
- REMOVAL AND DISPOSAL OF EXISTING JOINT MATERIAL NECESSARY FOR INSTALLATION OF THE NEW JOINT SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED FOR PAYMENT WITH THE JOINT MATERIAL BEING INSTALLED. THERE WILL BE NO SEPARATE PAYMENT FOR REMOVAL AND DISPOSAL OF EXISTING MATERIAL.
 - GROUTING OF UNDER CURB VOIDS AND REPLACEMENT OF MASTIC SEALANT SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED FOR PAYMENT WITH THE NEW WATERPROOFING MEMBRANE.

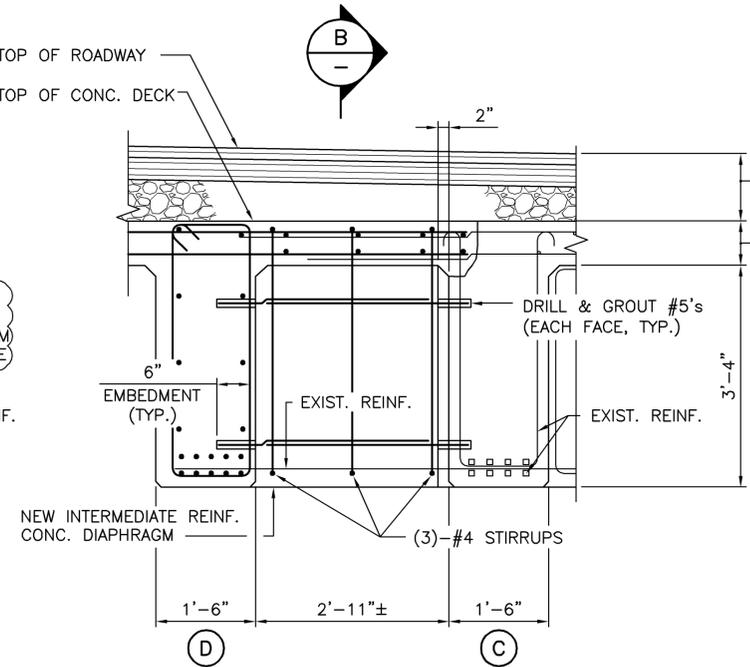


SECTION A
SCALE: 3/4"=1'-0"

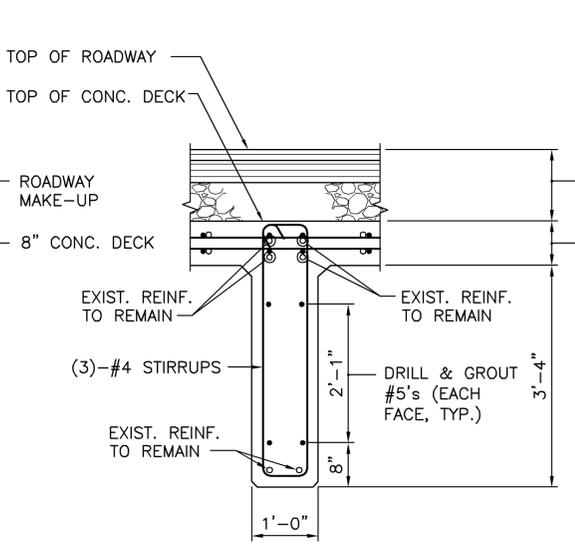
BEAM AND DECK REPLACEMENT DETAILS



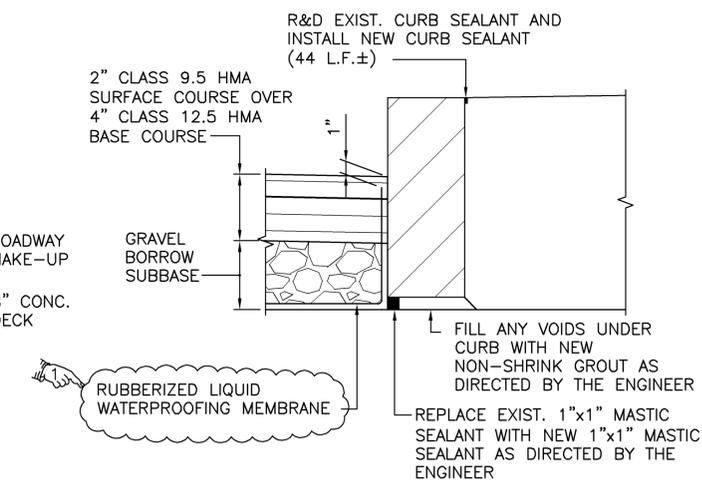
SECTION D
SCALE: 3/4"=1'-0"



SECTION D
SCALE: 3/4"=1'-0"



SECTION B
SCALE: 3/4"=1'-0"

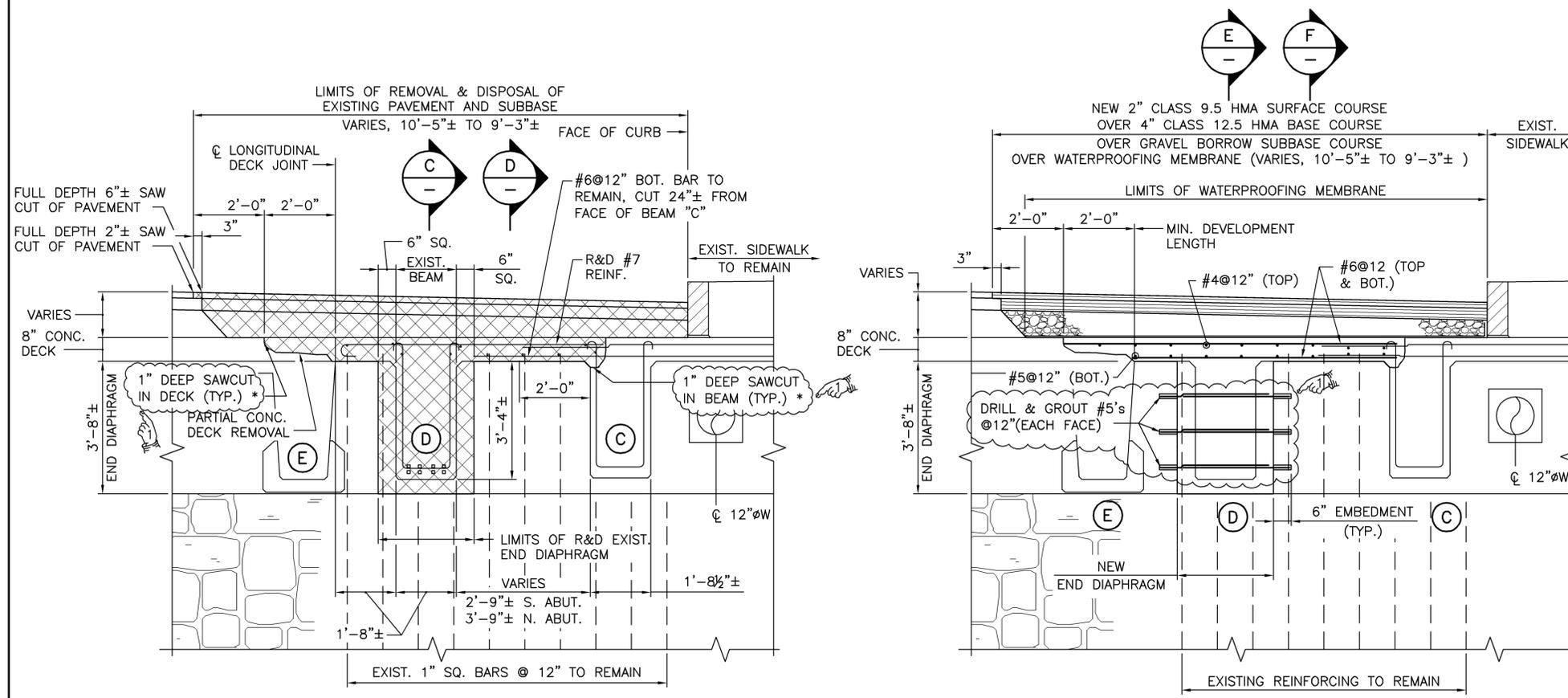


DETAIL 1
SCALE: 3/4"=1'-0"

NO.	DATE	BY
1	1/10/13	SMC

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
REPAIRS TO
WAKEFIELD BRIDGE No. 20
SOUTH KINGSTOWN, RHODE ISLAND
DECK SECTIONS
CHECKED BY _____ DATE _____ SCALE AS SHOWN



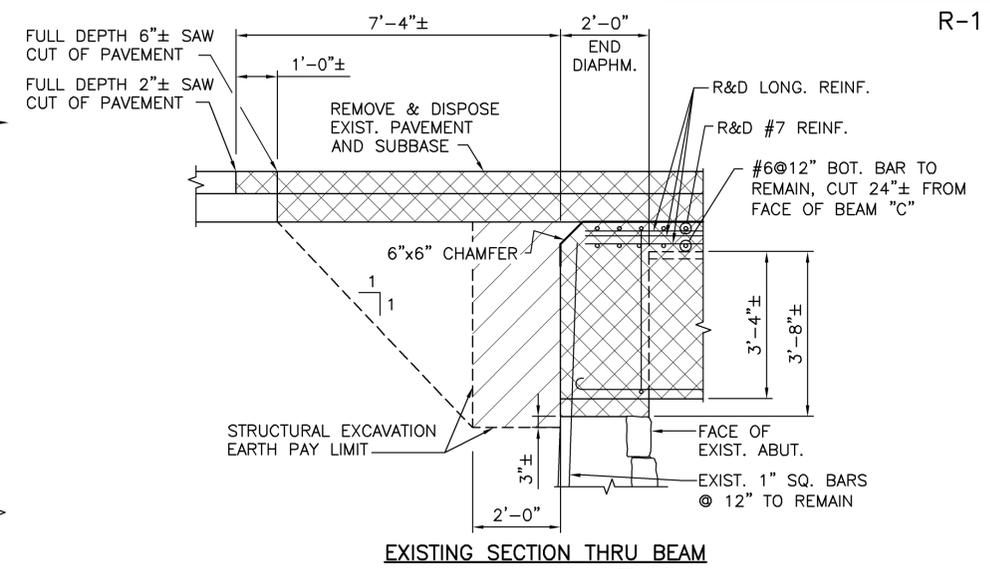


ELEVATION
SOUTH ABUTMENT - EXISTING (SHOWN)
 SCALE: 1/2"=1'-0" NORTH ABUTMENT - EXISTING (SIMILAR)

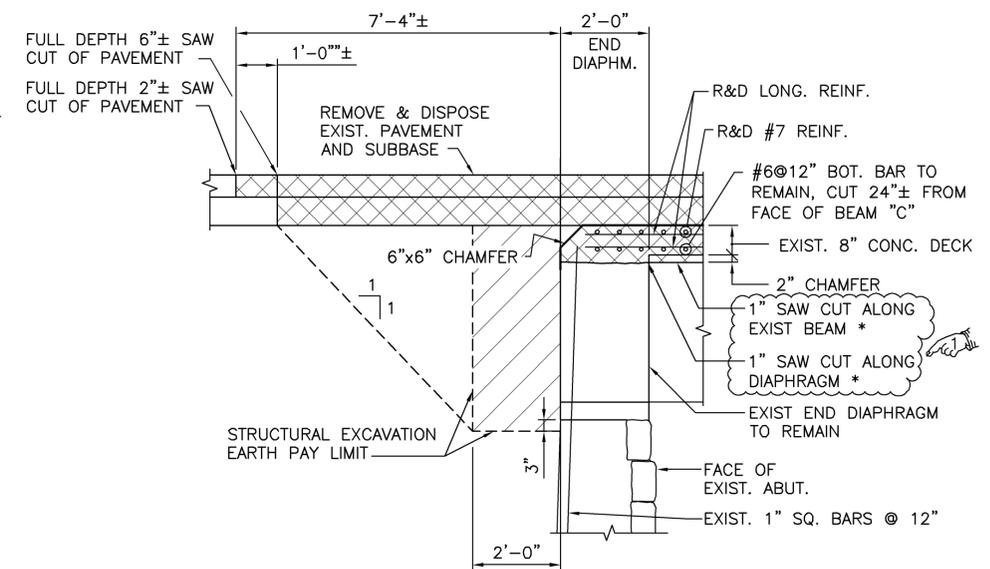
*** NOTE:**
 THE CLEAR CONCRETE COVER OVER EXISTING REINFORCING IS UNKNOWN. IF REBAR IS ENCOUNTERED DURING SAWCUTTING THE 1" DEPTH MUST BE REDUCED TO AVOID CUTTING EXISTING REBAR TO REMAIN.

ELEVATION
SOUTH ABUTMENT - PROPOSED (SHOWN)
 SCALE: 1/2"=1'-0" NORTH ABUTMENT - PROPOSED (SIMILAR)

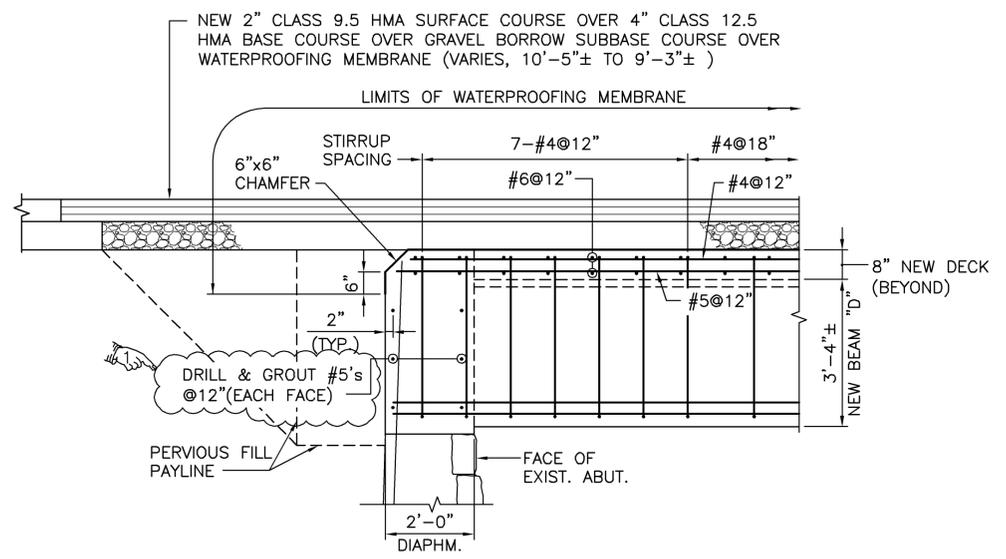
END DIAPHRAGMS REPLACEMENT DETAILS



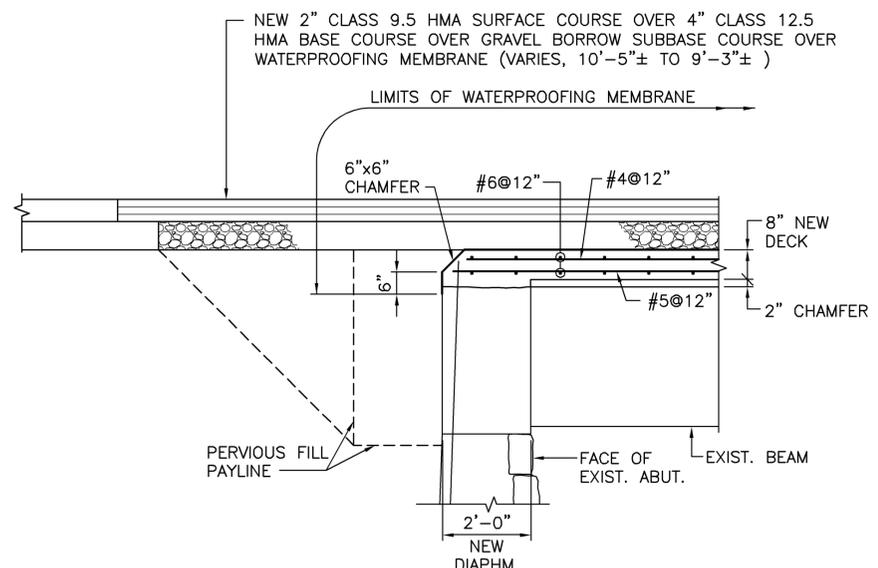
SECTION C
 SCALE: 3/4"=1'-0"



SECTION D
 SCALE: 3/4"=1'-0"



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



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

LEGEND

DENOTES AREAS TO BE REMOVED AND DISPOSED

DENOTES BEAM IDENTIFICATION

REVISIONS		
NO.	DATE	BY
1	1/10/13	SMC

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

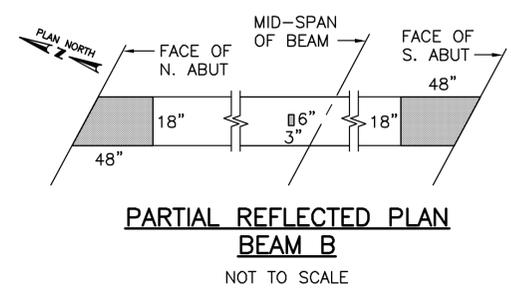
REPAIRS TO
WAKEFIELD BRIDGE No. 20

SOUTH KINGSTOWN, RHODE ISLAND

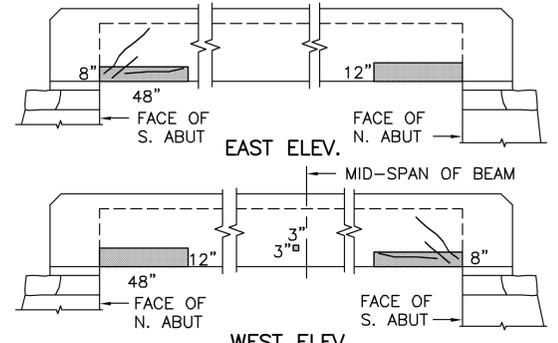
ABUTMENT ELEVATIONS & SECTIONS

CHECKED BY _____ DATE _____ SCALE AS SHOWN

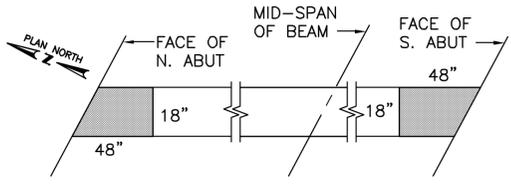




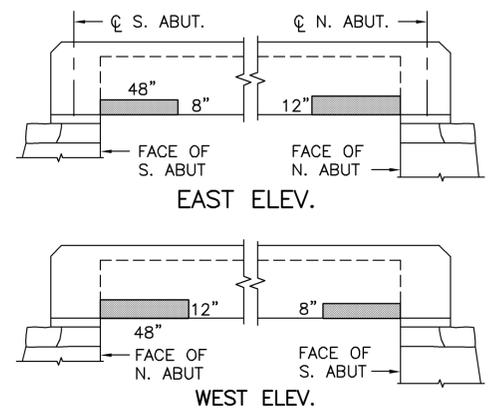
PARTIAL REFLECTED PLAN BEAM B
NOT TO SCALE



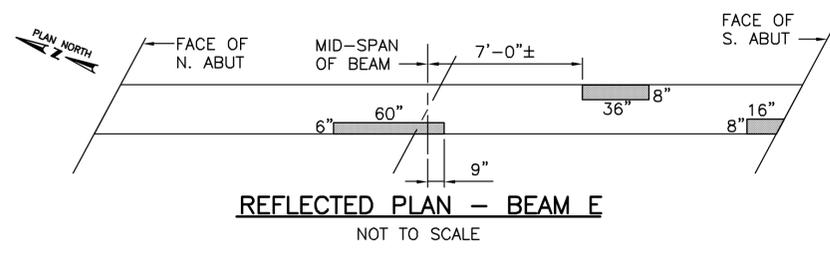
ELEVATION - BEAM B
NOT TO SCALE



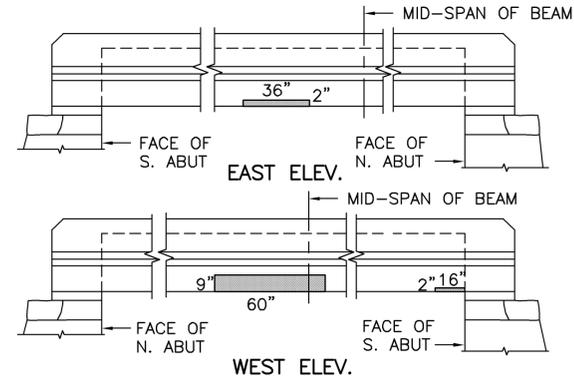
PARTIAL REFLECTED PLAN BEAM C
NOT TO SCALE



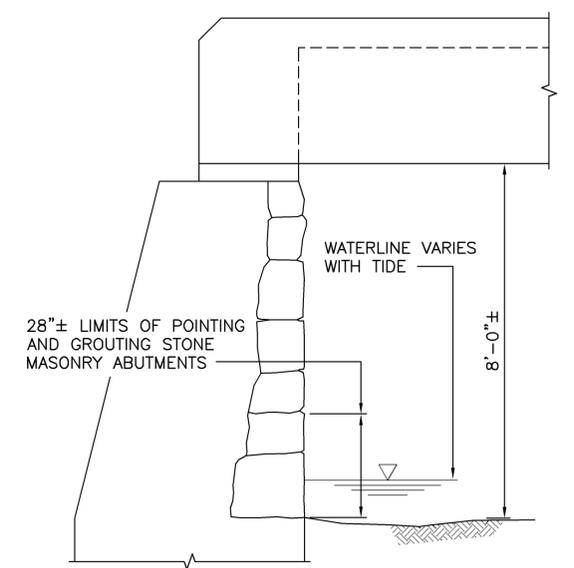
ELEVATION - BEAM C
NOT TO SCALE



REFLECTED PLAN - BEAM E
NOT TO SCALE



ELEVATION - BEAM E
NOT TO SCALE

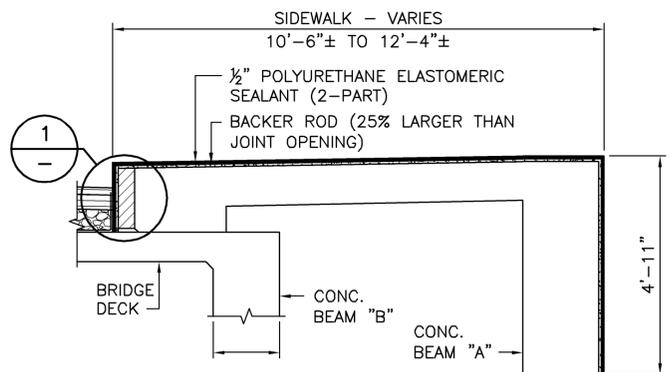


POINTING AND GROUTING LIMITS
NOT TO SCALE

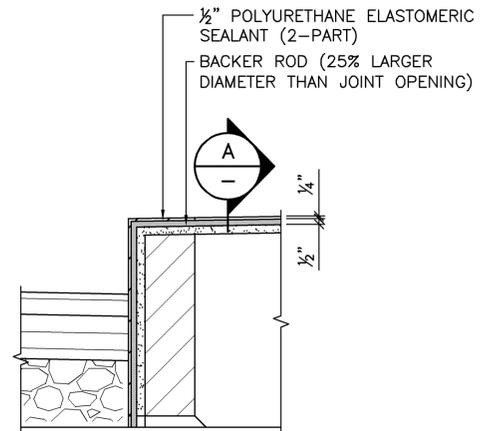
SPECIAL NOTE TO CONTRACTOR:
DURING SAWCUTTING AND REMOVAL OF CONCRETE FOR STRUCTURAL CONCRETE REPAIRS TO BEAM "E", CARE MUST BE TAKEN TO AVOID DAMAGING THE EXISTING 2 1/4"Ø POST-TENSIONING RODS WHICH ARE LOCATED WITHIN THE LOWER BULBED PORTION OF THE BEAM. REFER TO ORIGINAL CONSTRUCTION DRAWINGS.

*** NOTE:**
THE CLEAR CONCRETE COVER OVER EXISTING REINFORCING IS UNKNOWN. IF REBAR IS ENCOUNTERED DURING SAWCUTTING THE 1" DEPTH MUST BE REDUCED TO AVOID CUTTING EXISTING REBAR TO REMAIN.

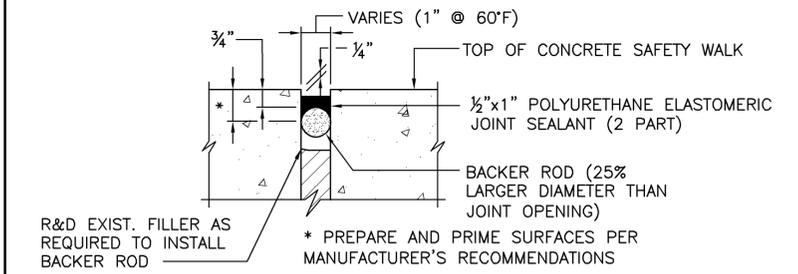
STRUCTURAL CONCRETE REPAIRS TO EXISTING REINFORCED CONCRETE TEE-BEAMS



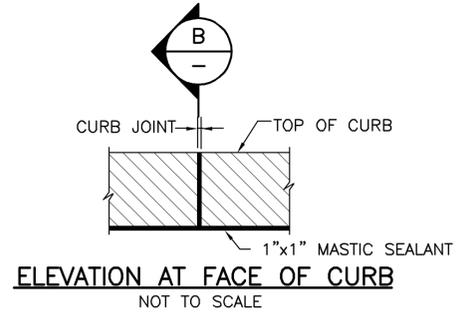
SECTION THRU SIDEWALK AT ABUTMENT
SCALE: 1/2"=1'-0"



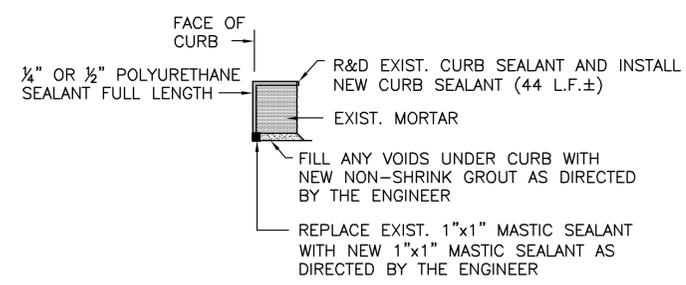
DETAIL 1
SCALE: 3"=1'-0"



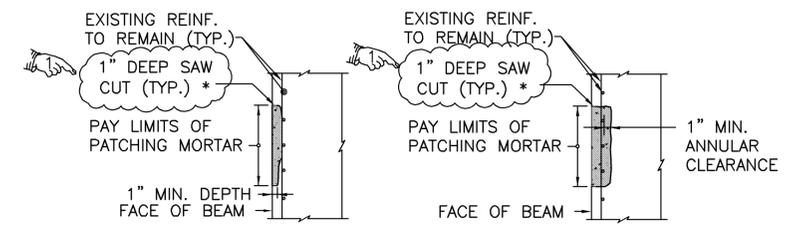
SECTION A
SCALE: 3"=1'-0"



ELEVATION AT FACE OF CURB
NOT TO SCALE



SECTION B
NOT TO SCALE



NOTE:
THIS REPAIR APPLIES TO AREAS WHERE NO MORE THAN ONE-HALF OF THE REBAR SURFACE IS EXPOSED, AND SURROUNDING CONCRETE IS SOUND. REFER TO CONCRETE REHABILITATION NOTES ON BRIDGE GENERAL NOTES SHEET.

NOTE:
THIS REPAIR APPLIES TO 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. REFER TO CONCRETE REHABILITATION NOTES ON BRIDGE GENERAL NOTES SHEET.

REPAIR DEPTH TO REINFORCEMENT

REPAIR DEPTH BEYOND REINFORCEMENT

STRUCTURAL CONCRETE REPAIRS

NOT TO SCALE (ITEM CODE 817.2110)

LEGEND



DENOTES AREA TO BE REPAIRED



REVISIONS		
NO.	DATE	BY
1	1/10/13	SMC

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPAIRS TO
WAKEFIELD BRIDGE No. 20

SOUTH KINGSTOWN, RHODE ISLAND

CONCRETE BEAM REPAIRS & JOINT DETAILS

CHECKED BY _____ DATE _____ SCALE AS SHOWN

Table of Contents - Distribution of Quantities

Project Name - DBP C11 Repairs to Wakefield Bridge No. 20
 Estimate Name - Repairs to Wakefield Bridge No. 20 Addendum 1
 R.I. Contract No. - 2013-CB-011
 FAP Nos: BHO-0020(001)

ItemCode	Description	Page
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	1
201.9901	REMOVE, HANDLE & HAUL EXISTING PLASTIC TRAFFIC BARRIERS	1
203.0100	STRUCTURAL EXCAVATION EARTH	1
301.0200	GRAVEL BORROW BASE COURSE	1
401.9901	CLASS 9.5 HOT MIX ASPHALT	1
401.9902	CLASS 12.5 HOT MIX ASPHALT	1
403.0300	ASPHALT EMULSION TACK COAT	1
803.0500	TEMPORARY DECK UNDERSIDE AND SIDE PROTECTIVE SHIELDING	2
803.9920	REMOVE & DISPOSE PORTION OF EXISTING CONCRETE SUPERSTRUCTURE	2
804.9930	PRE- AND POST-CONSTRUCTION CONDITION SURVEY	2
807.9910	POINTING AND GROUTING STONE MASONRY WALL	2
808.1670	POLYURETHANE JOINT SEALANT	2
808.1675	POLYURETHANE ELASTOMERIC JOINT SEALANT	3
808.9901	CONCRETE SUPERSTRUCTURE HES HP CONCRETE BRIDGE BEAM, DECK & DIAPHRAGMS	3
810.9901	GALVANIZED BAR REINFORCEMENT FOR STRUCTURES	3
813.0400	RUBBERIZED ASPHALT LIQUID MEMBRANE (WATERPROOFING MEMBRANE)	3
817.2110	REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)	3
819.0800	DRILL AND GROUT REINFORCING DOWELS	3
903.9901	TEMPORARY CHAIN LINK FENCE, 6 FT. HIGH	4
914.5010	FLAGPERSONS	4
914.5020	FLAGPERSONS - OVERTIME	4
916.0600	SHOCK ABSORBING BARRIER MODULES	4
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1	4
923.0105	DRUM BARRICADE STANDARD 26.2.0	5
923.0120	PLASTIC PIPE BARRICADE STANDARD 26.3.0	5
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	5
926.0130	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0	5
926.0140	REFLECTIVE DELINEATORS FOR TEMPORARY CONCRETE BARRIERS	6
929.0110	FIELD OFFICE	6
932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT	6
936.0110	MOBILIZATION	6
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	6
T20.0006	6 INCH WHITE FAST - DRYING WATERBORNE PAVEMENT MARKING PAINT	7
T20.0104	4 INCH YELLOW FAST - DRYING WATERBORNE PAVEMENT MARKING PAINT	7
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T20.2006	6 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	7
T20.2014	4 INCH EPOXY RESIN PAVEMENT MARKINGS YELLOW	7

Distribution of Quantities

Project Name - DBP C11 Repairs to Wakefield Bridge No. 20
 Estimate Name - Repairs to Wakefield Bridge No. 20 Addendum 1
 R.I. Contract No. - 2013-CB-011
 FAP Nos: BHO-0020(001)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
001	201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	SY			
		BR. NO. 20				
		BR. NO. 20		65.00	0014	01
Item 201.0409 Total:				65.00		
002	201.9901	REMOVE, HANDLE & HAUL EXISTING PLASTIC TRAFFIC BARRIERS	LS			
		MAIN ST.				
		BR. NO. 20		1.00	0014	01
Item 201.9901 Total:				1.00		
003	203.0100	STRUCTURAL EXCAVATION EARTH	CY			
		BR. NO. 20				
		BR. NO. 20		22.00	0014	01
Item 203.0100 Total:				22.00		
004	301.0200	GRAVEL BORROW BASE COURSE	CY			
		BR. NO. 20				
		BR. NO. 20		22.00	0014	01
Item 301.0200 Total:				22.00		
005	401.9901	CLASS 9.5 HOT MIX ASPHALT	TON			
		BR. NO. 20				
		BR. NO. 20		7.00	0014	01
Item 401.9901 Total:				7.00		
006	401.9902	CLASS 12.5 HOT MIX ASPHALT	TON			
		BR. NO. 20				
		BR. NO. 20		15.00	0014	01
Item 401.9902 Total:				15.00		
007	403.0300	ASPHALT EMULSION TACK COAT	SY			