AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

1. Contract Number	Page of Pages
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2. Amendment/Modification Number	3. Effective Date	4. Requisition/Purchase Request No.	5. Caption
Amendment 5	See Box 16C		**Rehabilitation of Francis Scott Key Bridge**

6. Issued by: Code

District Department of Transportation
Office of Contracting and Procurement
55 M Street, SE, 7th Floor
Washington, DC 20003

7. Administered by (If other than line 6)

8. Name and Address of Contractor (No. street, city, county, state and zip code)

Code Facility

9A. Amendment of Solicitation No.
DCKA-2014-B-0074

9B. Dated (See Item 11)
10/6/2015

10A. Modification of Contract/Order No.

10B. Dated (See Item 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended. ☒ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) BY separate letter or fax which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such may be made by letter or fax, provided each letter or telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting and Appropriation Data (If Required):

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTORS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14

X	A. This change order is issued pursuant to (Specify Authority): The changes set forth in Item 14 are made in the contract/order no. in item 10A. 27 DCMR 3601
	B. The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data etc.) set forth in item 14, pursuant to the authority of 27 DCMR, Chapter 36, Section 3601.2.
	C. This supplemental agreement is entered into pursuant to authority of:
	D. Other (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not ☒ is required to sign this document and return _1_ copies to the issuing office.

14. Description of Amendment/Modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.)

This amendment is issued to:

1. Respond to questions from prospective bidders (13 pages)

2. Specifications – Delete page 40 and Replace with page 40 R1 (1 page attached)
Insert New SP No 92 Insurance new pages 68-69 (2 pages attached)

3. Appendices – Update Wage Decision DELETE DC150001 Modification No. 5 dated 6/05/2015 and replace with DC15001 Modification No 15. dated 10/9/2015 (13 pages attached)

Except as provided herein, all terms and conditions of the document is referenced in Item 9A or 10A remain unchanged and in full force and effect.

15A. Name and Title of Signer (Type or print)		16A. Name of Contracting Officer Courtney B. Lattimore Contracting Officer	
15B. Name of Contractor (Signature)	15C. Date Signed	16B. District of Columbia (Signature of Contracting Officer)	16C. Date Signed 12/11/15

4. Appendices- Plans
Delete page 3 and Replace with 3R
Delete page 119 and Replace with 119R
Delete page 132 and Replace with 132R
Delete page 158 and Replace with 158R
(4 pages attached)

5. Bid Forms and Proposal:

Delete pages 1 thru 7 and Replace with
pages 1R thru 7R (7 pages attached)

DCKA-2014-B-0074

Response to Questions from Prospective Bidders

#	Question	Response
1	Bid Item 616.023 Traffic Sign Panels – This item has a quantity of 7 EA. Special provisions indicate that Standard Specification 616.03 requirements apply. 616.03 indicates payment by the square foot. We can find no reference to this item on the plans. Please clarify what these signs are, what size and where located.	The quantity and payment should read "7 SF". Revisions will be made throughout the contract documents. The sign is shown on Sheets 162 & 163.
2	Regarding replacement of expansion joint seals on Ramp E-what is the requirement/detail at the barriers?	Repair Details 1 and 2 should be followed.
3	Are the two Utility Gallery Detail 7 repairs for Span F, Sheet 95, soffit repairs or top of slab or one of each? Unlike the other Utility Gallery Detail 7 repairs, these are not labeled as either.	Top of slab.
4	Is the Bay 6 Utility Gallery Detail 7 (1 sf) repair for Span G, Sheet 105, a soffit repair or top of slab repair? It isn't labeled.	Top of slab.
5	Maintenance of Traffic notes on Sheet 5 indicate that DDOT Figures 9-1 & 9-15 are to be used for lane closures on Ramp E. These figures show Arrow Boards are to be used. There is no bid item for Arrow Boards in the proposal. Please advise.	Refer to SP-52 which states that Arrow Boards are incidental to Item 612006-"Construction Lane Closing".
6	Would the department consider allowing job mixed concrete repair materials for this project? It will be extremely impractical to try to handle Red-Mix trucks in a timely manner for these repairs.	Job site mixers for concrete repair materials will be allowed.
7	Item 614808 – F & I Fixture, any Type. Please provide a manufacturer and part number for the 66 fixtures to be provided.	A catalog cut of the required fixture is included in the DDOT Standard Drawings section of the appendices.
8	Temporary Support for Deck Pedestals 5 of 7 Dwg. 158 is a detail for temporary deck support at pedestal C45 in span B and the pedestal is labeled as being removed. On plan sheet 55, pedestal C45 shading indicates a pedestal repair detail 8 or 9 vs. removal and replacement. Sheet 56 Deck pedestal schedule 1 or 2 indicates it is a detail 8 repair.	Pedestal C45 is currently scheduled for repair; however, the repairs are significant and the temporary support detail is provided in the event that replacement is required due to unforeseen conditions.

	Please clarify.	
9	We are looking at different scenarios for Scaffolding the bridge for access purposes, will the Contractor be permitted to temporarily place anchors along the top of the existing 12' wide sidewalks located on both sides of the bridge to support the scaffolding erected underneath the bridge deck? NOTE: The anchoring system may have the dimensions of 1'x1'x2' in height and would be in place for several weeks at a time for the entire length of the bridge.	Before this could be approved, several issues would need to be worked out as stated below: How would pedestrians on the sidewalk be protected from this trip hazard? Can the cantilevered sidewalk support the applied loadings from the scaffolding system? What measures will be employed to ensure that existing post-tensioning and normal reinforcing steel is not cut during drilling for anchors.
10	Does DDOT have a specification for the netting material used for containment purposes below each work area to prevent concrete debris from falling to the ground or into the water?	No.
11	How is the Contractor to get paid for the use off a cofferdam placed around each of the piers located in the river so that access to each pier base is permissible for the purpose of applying FRP materials?	Cofferdams are not anticipated for this work. The FRP (Fiberglass) jackets are prefabricated and will be installed in the water.
12	If the cofferdam is to be utilized, how many days in the existing project duration (600 calendar days) have been allotted to the set up and take down of these items? If none, will the Department consider adding additional time to project duration to cover the time needed to set up and dis-assemble same?	Cofferdams are not anticipated for this work. The FRP (Fiberglass) jackets are prefabricated and will be installed in the water.
13	Is there a dock or wharf located near the Key Bridge that would enable the Contractor to load and off-load materials every work day?	See S.P. 14 Work and Storage Spaces.
14	We see no Pay Item for the use of Turbidity Curtains, should a Pay Item exist for this item?	Refer to S.P. 91 which states that the Turbidity Curtain is incidental to the Item 716015 Fiber Reinforced Encapsulation for Pier

		Footings.
15	Can shotcrete material be placed on both faces of each of the piers located in the river?	Refer to Note 7 on Sheet 132 which allows shotcrete on non-visible areas of the structure only. The Contractor has the option of submitting a VE change proposal to use on the piers if it can be demonstrated during construction that an equally acceptable finish can be obtained using shotcrete.
16	How many days have been allotted to conduct a Survey of the bridge in order to locate and verify the quantity of repairs?	DDOT will provide a sufficient number of inspection staff to perform this work without affecting the Contractor's schedule. The areas cannot be marked until the Contractor provides access to the areas.
17	Issue of marking the repair areas by owner without compromising the contract duration.	DDOT will provide a sufficient number of inspection staff to perform this work without affecting the Contractor's schedule. The areas cannot be marked until the Contractor provides access to the areas.
18	Access Ladder Detail # 27 is not given on contract drawings. Does owner have approved suppliers for ladder?	The basic configuration and location of the two ladders (one at north abutment and one at south abutment) are shown on Sheets 17/18 and 32/33. No approved manufacturers are specified. Ladders will likely require a special fabrication for the overall height. See S.P. 73 Steel Access Ladders at North and South Abutments.
19	Can we have a site visit prior to bid?	A site visit was conducted on November 3, 2015.
20	SP. 37 Mobilization states that mobilization includes float-in construction platforms and barges for the Potomac	The DDOT maximum for mobilization will remain. If the

	River to access beneath the bridge. DDOT standard specifications allot for a maximum dollar amount for mobilization. These costs could exceed the cap allotted for mobilization as stated in the standard specifications. Please advise if DDOT intends to waive these parameters for mobilization and if not, than a LS pay item should be established for barges/access platforms.	actual cost exceeds the stipulated maximum, then the residual amount should be added to other items in the contract.
21	Item 707 011 states to paint the existing floor beam ends. Without visual inspection there is no way to determine the amount of surface area to be painted as the floor beams are encapsulated in concrete. Please modify this item to reflect a SF measure and payment or provide the quantities to be painted.	Anticipate approximately 2,000 SF of exposed steel to be cleaned and painted.
22	We are looking at different scenarios for Scaffolding the bridge for access purposes, will the Contractor be permitted to temporarily place anchors along the top of the existing 12' wide sidewalks located on both sides of the bridge to support the scaffolding erected underneath the bridge deck? o NOTE: The anchoring system may have the dimensions of 1'x1'x2' in height and would be in place for several weeks at a time for the entire length of the bridge.	Please see the response to Question #9.
23	Does DDOT have a specification for the netting material used for containment purposes below each work area to prevent concrete debris from falling to the ground or into the water?	Please see the response to Question #10.
24	How is the Contractor to get paid for the use off a cofferdam placed around each of the piers located in the river so that access to each pier base is permissible for the purpose of applying FRP materials?	Please see the response to Question #11.
25	If the cofferdam is to be utilized, how many days in the existing project duration (600 calendar days) have been allotted to the set up and take down of these items? If none, will the Department consider adding additional time to project duration to cover the time needed to set up and dis-assemble same?	Please see the response to Question #12.
26	Is there a dock or wharf located near the Key Bridge that would enable the Contractor to load and off-load materials every work day?	Please see the response to Question #13.

27	We see no Pay Item for the use of Turbidity Curtains, should a Pay Item exist for this item?	Please see the response to Question #14.
28	Can shotcrete material be placed on both faces of each of the piers located in the river?	Please see the response to Question #15.
29	How many days have been allotted to conduct a Survey of the bridge in order to locate and verify the quantity of repairs?	Please see the response to Question #16.
30	With regards to the Type 1 Repairs with depths greater than 4", we understand the depth is determined when sound concrete is reached. However at what depth, if sound concrete is not reached, shall the Contractor stop and wait for direction from the engineer.	For Type 1 Repairs, the intent is that sound concrete will be present at a depth of 2 inches behind the existing reinforcing steel. If unsound concrete is found after reaching this depth, the Engineer shall be notified for resolution.
31	What is the maximum depth of repair the Contractor can expect to encounter? Will DDOT consider changing the bid item measurement to CF?	For Type 1 Repairs, the minimum depth will be 2 inches behind the existing reinforcing steel. The maximum depth will be dependent on the Contractor's operations and how uniformly he can remove concrete to attain the 2 inch minimum requirement. The SF measurement is consistent with DDOT's 2013 Standard Specifications for Highways and Structures and will remain.
32	Concrete Repair Note 3 on Sheet 132 identifies a petrographic analysis report is available for review. Can you please provide this document for review?	This document has been made available.
33	DDOT Specification 612.20(D) Measurement and Payment for Repair of Damaged Major Traffic Control Devices states the following: "The District will insert an estimate cost for this work in the Bid Forms and Proposal. No action is required by the bidder." The above-mentioned estimated cost was not included in the Bid Forms and Proposal, please provide.	A value of $50,000 will be inserted into the bid form for this item. See Schedule of Items revised bid item 616023 units.

34	Bid item 390 Traffic Sign Panels is measured by the "EA", however Standard Specification 616.03 states that it is paid for by the square foot. Please confirm how this item will be paid.	The measurement should be by "SF". The measurement will be revised throughout the contract documents.
35	Are there as-built drawings of the existing bridge(s) that can be provided?	The as-built plans have been made available.
36	Can you provide a copy of the special use permit as discussed during the pre-bid meeting?	See S.P. 18. A draft National Park Service Special Use Permit is included.
37	When will the engineer identify the locations to be repaired? This should be done months in advance of construction in order for the Contractor to be productive and meet the aggressive schedule needs of the project.	This operation will begin as soon as the Contractor has mobilized and provided access to the repair areas.
38	Can you identify on a map the area the Contractor will be allowed to use as identified on Sheet 5, note 1 third bullet point.	This area is at the base of the north abutment and was pointed out during the site visit held on November 3.
39	Can you identify the other temporary staging areas as discussed during the pre-bid meeting? It was mentioned that access points will be allowed from the Rosslyn side of the bridge.	A temporary staging area has not been identified on the Rosslyn side.
40	There are some DDOT fenced areas below the bridge on the south side of Pier 5 along K Street. Is the Contractor allowed to utilize this space?	Yes.
41	There is an empty fenced lot to the east of the north abutment. Is this DDOT property? Is this available for Contractor Laydown?	This area is National Park Service property. Portions of the area will be available to the contractor.
42	There is a floating dock currently underneath Span C. Will this be there during construction?	These docks underneath Span C will be relocated.
43	The C&O Trail is very narrow and installing a pedestrian shield for pedestrians will only make the access narrower. Can the Contractor close the north side of the trail to allow for safe access for both workers and pedestrians?	The north side of the trail may be closed, but will require coordination with the NPS.
44	Can DDOT setup a site visit? This would be extremely beneficial to the Contractor?	A site visit was held on November 3.

45	Can you please provide photos of the materials and debris as mentioned in note 4 on sheet 143? a. Can you provide access to this location during the site visit? b. What bid items will the concrete repairs mentioned in this note be paid under? c. What is the anticipated quantity of concrete repairs mentioned in this note?	 a. Access was provided during the site visit. b. Concrete Repair Detail 8, Type 1 or Type 2, paid under items 716004 and 716006, respectively. c. 500 SF.
46	Can the deadline for questions be extended 1 week since there is potential for a site visit?	The deadline for questions has been extended by Amendment #3 and Amendment #4.
47	Can you provide a copy of the sign-in sheet from the pre-bid meeting?	This was provided with Amendment 3.
48	Sheet 113 shows areas shaded as floor beam repairs that are not on the floor beam repair schedule on Sheet 114. Is this repair detail for these shaded areas the one on Sheet 136 "Span H Longitudinal Section"? If not, what is the repair detail for these areas?	The detail on Sheet 136 reflects that the transverse floor beams in Span H are reinforced concrete instead of concrete encased steel beams found in Spans A through G. These repairs will follow either a Type 1 or Type 2 repair based on the depth.
49	On Sheet 119, some repairs specified appear to be on beams (4, 7, 15). Is repair Detail 4 to be used in these areas as specified or should it be repair Detail 8?	Repair detail 8 is the correct detail. A plan revision will be issued to correct this.
50	Please provide basis of reinforcing steel quantity of 10,000 LB. There are replacement quantities for Gallery Slab Soffits and Pedestal Replacements. Where are the additional quantities anticipated?	Refer to Note 10 on Sheet 132.
51	Typical of Sheet 83. Is there any difference between "Deck Soffit Repairs" and "Row C Deck Soffit Repairs" or are they the same as shown in Repair Detail 4? Is there a reason why they are called out differently?	The repair detail is the same although the location and access to the areas will be different due to the overhead clearance.
52	Do all repairs require a typical 1 inch saw cut around the perimeter?	Yes.
53	Sheet 138; reference "Concrete Deck Repair (Type 2	The Concrete Repair 8, Type 2 deck repair is located and

	Repair)", where is this detail required?	quantified in a table on sheet 9.
54	Sheet 138; "Type 2 Concrete Repair" shows sandblasting to be required. Sandblasting is not noted for "Type 1 Repairs", is it required?	Sandblasting is required per Section 716 of the Standard Specifications.
55	Sheet 138,"Type 2 Concrete Repairs – Plan" – shows concrete chipping to be 1 inch minimum past encountered reinforcing. If the repair which is shown to be 4-inch maximum to 1-inch minimum does not expose the reinforcing (due to being shallow), does the 1-inch minimum past the reinforcing still apply?	If 4 inches of concrete has been removed to sound concrete and no reinforcing steel is found, the assumption is that no reinforcing steel is present and the Type 2 Repair shall be followed as shown in Section 3, sheet 138.
56	Sheet 138, "Typical Deck Pedestal Repairs". Can the pedestals be repaired on all four sides simultaneously provided the floor beams are supported as detailed for the full pedestal replacements?	Yes.
57	Sheet 133, Note 3 states that the demolition shield typically should be capable of carrying a load of 150 psf. Is this a steadfast requirement or will actual loading requirements be allowed to be addressed in design submittal that stated to be required?	Actual loadings may be used in the shop drawing submittal if the loadings used can be substantiated.
58	Sheet 134, Repair Detail 3"Grouted Hold Down Bolt". Is the cost of this repair of the bolt recess incidental to 714991 HMWM deck Overlay bid item or is the cost to be included in bid item 716006 Repair Type 2?	The hold down bolt location repairs are paid for under Bid Item 716006, Repair Type 2.
59	107.13 of the Standard Specifications states that "The Contractor shall require all Subcontractors to carry the insurance required herein, or the Contractor may, at its option, provide the coverage for any or all Subcontractors". This implies that all Subcontractors must carry Umbrella/Excess Liability Insurance with a minimum limit of $5,000,000 per occurrence. It may be cost prohibitive or commercially unavailable for some Subcontractors, especially DBE's, to procure Umbrella/Excess Liability insurance with these limits. a. The contractor requests to amend the requirement to allow the Contractor to determine the kinds and amounts of insurance Subcontractors must provide per their normal and responsible business practices.	See new S.P. 92 Insurance which modifies section 107.13 of the Standard Specifications for Highways and Structures, 2013.
60	107.13 of the Standard Specifications states that "All insurance provided by the Contractor as required by this section, except comprehensive automobile liability	See new S.P. 92 Insurance which modifies section 107.13 of the Standard Specifications for

	insurance, shall set for the District as an additional named insured". This implies that the District is to be an additional named insured on the Workers Compensation policy and Architects and Engineers Errors and Omission Liability Insurance, which is commercially unavailable. a. The contractor requests to amend the requirement to state "All insurance provided by the Contractor as required by this section, except comprehensive automobile liability insurance, Workers Compensation policy and Architects and Engineers Errors and Omission Liability insurance, shall set for the District as an additional named insured"	Highways and Structures, 2013.
61	With respect to pre-existing hazardous materials/hazardous waste or hazardous materials/hazardous waste not brought onto the site by the Contractor, please confirm that DDOT will be considered the "generator" of such hazardous materials/hazardous waste and sign any necessary generator manifests.	The District is the generator and will sign generator manifests.
62	On Sheet 132, Note 6 "Type 2 Repairs" lists Floorbeams as a Type 2 repair. On sheet 136, Detail-A shows a Floorbeam Repair Detail and the note states " …Follow repair detail 8 type 1 concrete repair". Is a floorbeam to be paid as a Type 1 repair or a Type 2 repair?	The floorbeam repairs will be paid as Type 1 concrete repairs. Disregard the notation on sheet 132 which will be revised.
63	Sheet 11 indicates the limits of bridge cleaning to be the exterior face and underside of the overhang only. What permits are required to perform this work? Is it a requirement all water used for pressure washing to be captured or can the water from pressure washing be discharged into the Potomac River?	The District Water Quality Certification requires all debris and water will be contained and disposed of properly. A copy of WQC #DC-14-018 is included in the Appendices of the Invitation Book.
64	Contract documents say clean existing concrete using 2000+ psi pressure wash, does this mean that no pneumatic or hydraulic tool cleaning will be neede to sufficiently clean the concrete for the FRP encapsulations.	The requirement is to remove all loose materials such as deteriorated concrete and marine growth without damaging the existing structure. SP-85 allows power washing or other approved methods. Other methods that will properly remove the material without causing damage to the existing structure will be approved.

65	Will contractors be allowed to attach anchor bolts to the pier to support temporary bracing systems for the fiberglass encasements?	Yes.
66	Contract documents do not mention cold joints in the epoxy used for FRP encapsulation. Will this be permitted? And if so what is the maximum spacing allowed.	The volume of grout within the fiberglass jacket is small such that it should be able to be filled in one pour. Joints, however, will be allowed but should be minimized and shown on the shop drawings for approval.
67	Contract Documents do not mention the use of a turbidity curtain, will it be required? If so please provide specific requirements.	Refer to S.P. 91 which requires a turbidity curtain during the pier encapsulation work.
68	Contract Documents do not mention DC Water Quality Requirements. Will there be any? And if so please provide full details of requirements.	The District Water Quality Certification authorizes the repair of the Francis Scott Key Bridge and stipulates specific conditions that must be met. A copy of WQC #DC-14-018 is included in the Appendices of the Invitation Book.
69	Please confirm there is no pedestal replacement in Row E as none is shown on plans, despite the fact that a temporary support detail for pedestal replacement on Rows A & E is shown on Sheet No. 154.	Yes.
70	Please confirm that for Pedestal Repairs no temporary support will be necessary, provided only two faces of pedestal are repaired at a time.	Yes; however, if the depth of removal to sound concrete is more than anticipated due to unforeseen field conditions, temporary support may be required.
71	Will contractor be allowed to drill into concrete arches and other structural features to install anchors for supporting work platform and protection shield?	Anchorage to the concrete arches will be permitted; however, the Contractor's attention is brought to Note 3 on Sheet 133 regarding submittal and approval of the proposed platform and shielding systems. "Other structural features" is not specific thus no response can

		be provided.
72	Please clarify whether all concrete repairs shown on bid documents such as main arches, spandrel columns, pedestals, floor beams, deck soffit, etc. will be paid under repairs Type 1 and Type 2.	Yes.
73	Sheet 158 shows temporary support detail for Deck Pedestal C45 in Span B. Span B repair drawings Sheets 55 & 56 do not identify this pedestal for repair. The pedestal replacement charts on Sheets 144 & 145 exclude Pedestal C45 in Span B. Please clarify.	Pedestal C45 is currently scheduled for repair; however, the repairs are significant and the temporary support detail is provided in the event that replacement is required due to unforeseen conditions.
74	The quantity of concrete for pedestal replacement, Item 420 of the Schedule of Items, seems to be far greater than the quantities obtained from drawings. Please check and confirm.	The quantity includes a reasonable contingency to account for potential unforeseen conditions that may require additional pedestals to be replaced.
75	There are areas of floor slab replacement in East Utility Gallery. Sheet 11 shows utilities and water line running through this gallery. Removing or repairing these areas will require installing temporary supports for these utilities and in particular the water line. Please provide details of existing supports for these utilities so that a temporary support can be designed and priced as part of floor slab repair.	Existing plans were made available by Amendment #3.
76	On Sheets 17 & 33 for details of access ladders on South and North Abutments it is referred to Detail 27. We could not find this detail in the drawings. Could you please provide the details for access ladders.	The basic configuration and location of the two ladders are shown. No approved details are specified. See S.P. 73 Steel Access Ladders at North and South Abutments.
77	Please provide the spacing or number of supports for 30" waterline (Washington Aqueduct) to be able to quantify the required repairs/replacement.	Anticipate approximately 65 support assemblies.
78	Will the contractor be allowed to spud barges during fish spawning season?	Any activities proposed to occur in the District waters during this period must be approved by the U.S. Army Corps of Engineers accompanied by concurrence form

		commenting Federal agencies. See condition #11 of the Water Quality Certification #DC-14-018 in the Appendices of the Invitation Book.
79	Sheet 8 demonstrates Maintenance of Traffic for repairing existing concrete barriers. It allows for closure of one lane adjacent to the existing barriers with a clear space of 9 FT wide for stationing lifting equipment to remove the barriers. This space is not sufficient for lifting equipment such as boom truck, forklift, etc., a two lane closure will be necessary to carry out this work. Please advise if two lane closure will be allowed for non-rush hour or night work for this item.	No, a double right lane closure on the bridge is not permitted. Refer to Note 1 on Sheet 5.
80	Considering the complexity of work and time required to secure necessary permits, design and approval of access system and protection shield, and quantity of repairs to be done, we believe the specified contract time of 690 days will not be sufficient to complete the work. We request DDOT to re-visit this issue and adjust the contract time.	The contract requirement for construction completion time will remain.
81	On Sheet 132 of 164, first column, point #6, it is written that floorbeams repair are included in repair type 2, but on the sheet 136 or 164, it is written that it is type 1 reparation. Can you clarify?	The floorbeam repairs will be paid as Type 1 concrete repairs. Disregard the notation on Sheet 132 which will be revised.
82	On Sheet 158 of 164 presents the temporary support of the Deck Pedestal C45 of span B. But on Sheet 55 of 164, this deck pedestal is not presented as to be repaired. Can you clarify?	Pedestal C45 is currently scheduled for repair; however, the repairs are significant and the temporary support detail is provided in the event that replacement is required due to unforeseen conditions.
83	The payment for the items: 420 – replace concrete pedestals and 430 – PCC end post (north approach) is based on CY. The amount of concrete measured on the plans for these two items is much smaller than the amount in the "schedule of items". We propose that the payment of such items would be change for "unit".	Comment is understood, but the bid items will remain as specified since they match the DDOT Standard Specifications.
84	Item 80 – Security Fence must include the removal and disposal of existing fencing. It doesn't seem to have fencing at every arch, can you specify how many fences has to be removed?	Existing fencing may not be present at every location, however, new fencing shall be provided at all corners of arch locations as

		specified.
85	Item 470 – Support for 30 inch water main on bridge (Washington Aqueduct) is a lump sum price. Can you specify how many supports there are on the bridge? This information is not shown on the plans.	Anticipate approximately 65 support assemblies.
86	The payment of the item 480 – Paint existing floorbeam ends is based on a lump sum price. We can't find the quantity to paint on the plans.	Anticipate approximately 2,000 SF of exposed steel to be cleaned and painted.
87	The payment of Item 290 – Repair of damaged major traffic control devices is based on a lump sum price. According to DDOT standard specifications article 612.20, DDOT should have inserted an estimated cost for this item. Please clarify?	A value of $50,000 will be inserted into the bid form for this item.
88	The payment for Item 100 – Mobilization has a cap, according to DDOT standard specifications. Due to the nature of this work, we suggest that DDOT revise the cap at a higher value for this specific project.	The DDOT maximum for mobilization will remain. If the actual cost exceeds the stipulated maximum, then the residual amount should be added to other items in the contract.
89	The payment for Item 390 – Traffic sign panels is based on unit price. According to the DDOT standard specifications article 616.03, the measurement and payment should have been SF. Please clarify.	The measurement and payment should read "SF" throughout the contract documents. Revisions will be made.
90	For Item 30 – Glass fiber wrap material, an expert in fiberglass told us that any product on the market can't meet the specification of 3775 pounds/layer. Can we replace the fiberglass with carbon fiber?	Carbon fiber wrap material will be an acceptable alternative to glass fiber wrap.

A. GENERAL

Work under this item consists of replacing the existing #16 Street Light poles on the main span of the Key Bridge. ~~The existing luminaires and globes are to be re-used on the new light poles.~~ Color of new light poles shall conform to Federal Standard No. 34272.

Work includes the replacement of a portion of the damaged steel conduit for the bridge lighting system which is located in the West Utility Gallery of Span G.

The Contractor shall remove the existing damaged 2-inch ± diameter metal conduit and install new conduit as indicated on the plans and specified herein. New conduit for the repairs shall be galvanized in accordance with 820.12 of the Standard Specifications. The limit of conduit replacement shall extend from the damaged area to the nearest conduit coupling in both directions. Existing conduit support brackets shall be removed and replaced in-kind. The Contractor is responsible for coordinating the work with the utility agency/owner.

B. MEASURE AND PAYMENT

The unit of measure for Furnish and Install #16 Cast Iron Street Light Pole will be per each.

The repair of the damaged steel conduit in the West Utility Gallery of Span G will not be measured but considered incidental to the Furnish and Install #16 Cast Iron Street Light Pole item.

Payment for Furnish and Install #16 Cast Iron Street Light Pole will be made at the contract price per each which includes all materials, labor, tools, equipment and incidentals to accomplish the work as shown and specified herein.

65. REMOVE #16 CAST IRON STREET LIGHT POLE, Item: 614 494

This Special Provision supplements 614.13 of the Standard Specifications.

B. MEASURE AND PAYMENT

The unit of measure for Remove #16 Cast Iron Street Light Pole will be per each.

Payment will be made at the Contract unit price per each. The payment will include all labor, tools, materials, equipment, disassembly of pole parts, inventory of parts removed and reusable, delivery of parts, stacking in the warehouse and/or pole yard, disposal of broken parts, debris, and all incidentals necessary to complete the Work specified herein. Removal of the existing fixture shall be considered incidental to the Work.

66. FURNISH AND INSTALL FIXTURE, ANY TYPE, Item: 614 808

Requirements of the Standard Specification 614.37 apply.

92. INSURANCE (Added by Revision 1)

This Special Provision modifies Section 107.13 of the Standard Specifications for Highways and Structures, 2013

A. GENERAL REQUIREMENTS. The Contractor shall procure and maintain, during the entire period of performance under this contract, the types of insurance specified below. The Contractor shall have its insurance broker or insurance company submit a Certificate of Insurance to the Contracting Officer giving evidence of the required coverage prior to commencing performance under this contract. In no event shall any work be performed until the required Certificates of Insurance signed by an authorized representative of the insurer(s) have been provided to, and accepted by, the Contracting Officer. All insurance shall be written with financially responsible companies authorized to do business in the District of Columbia or in the jurisdiction where the work is to be performed and have an A.M. Best Company rating of A-VIII or higher. The Contractor shall require all of its subcontractors to carry the same insurance required herein. The Contractor shall ensure that all policies provide that the Contracting Officer shall be given thirty (30) days prior written notice in the event the stated limit in the declarations page of the policy is reduced via endorsement or the policy is canceled prior to the expiration date shown on the certificate. The Contractor/Insurance Company shall provide the Contracting Officer with ten (10) days prior written notice in the event of non-payment of premium.

1. Commercial General Liability Insurance. The Contractor shall provide evidence satisfactory to the Contracting Officer with respect to the services performed that it carries $1,000,000 per occurrence limits; $2,000,000 aggregate; Bodily Injury and Property Damage including, but not limited to: premises-operations; broad form property damage; Products and Completed Operations; Personal and Advertising Injury; contractual liability and independent contractors. The policy coverage shall include the District of Columbia as an additional insured, shall be primary and non-contributory with any other insurance maintained by the District of Columbia, and shall contain a waiver of subrogation. The Contractor shall maintain Completed Operations coverage for five (5) years following final acceptance of the work performed under this contract.

1. Automobile Liability Insurance. The Contractor shall provide automobile liability insurance to cover all owned, hired or non-owned motor vehicles used in conjunction with the performance of this contract. The policy shall provide a $1,000,000 per occurrence combined single limit for bodily injury and property damage.

2. Workers' Compensation Insurance. The Contractor shall provide Workers' Compensation insurance in accordance with the statutory mandates of the District of Columbia or the jurisdiction in which the contract is performed.

3. Employers' Liability Insurance. The Contractor shall provide employers' liability insurance as follows: $500,000 per accident for injury; $500,000 per employee for disease; and $500,000 for policy disease limit. If projects hereunder include water operations, the U.S. Longshoremen and Harbor Workers' Compensation Act and Maritime endorsements must be purchased and attached to employers' liability insurance policy.

4. Installation-Floater Insurance. For projects not involving structures, the

contractor shall provide an installation floater policy with a limit equal to the full contract value. The policy shall cover property while located at the project site, at temporary locations, or in transit; deductibles will be the sole responsibility of the contractor; and name the District of Columbia as the loss payee on the policy, as its interests may appear. A waiver of subrogation in favor of the District of Columbia shall be included.

5. Umbrella or Excess Liability Insurance. The Contractor shall provide umbrella or excess liability (which is excess over employer's liability, general liability, and automobile liability) insurance as follows: $10,000,000 per occurrence, including the District of Columbia as additional insured.

6. Environmental Liability Insurance. The Contractor shall provide a policy to cover costs associated with bodily injury, property damage and remediation expenses associated with pollution incidents including, but not limited to, mold, asbestos or lead removal. The policy shall provide a minimum of $1,000,000 in coverage per incident and $2,000,000 aggregate.

2. DURATION. The Contractor shall carry all required insurance until all contract work is accepted by the District, and shall carry the required General Liability; and any required Professional Liability for five (5) years following final acceptance of the work performed under this contract.

3. LIABILITY. These are the required minimum insurance requirements established by the District of Columbia. HOWEVER, THE REQUIRED MINIMUM INSURANCE REQUIREMENTS PROVIDED ABOVE, WILL NOT IN ANY WAY LIMIT THE CONTRACTOR'S LIABILITY UNDER THIS CONTRACT.

4. CONTRACTOR'S PROPERTY. Contractor and subcontractors are solely responsible for any loss or damage to their personal property, including but not limited to tools and equipment, scaffolding and temporary structures, rented machinery, or owned and leased equipment. A waiver of subrogation shall apply in favor of the District of Columbia.

5. MEASURE OF PAYMENT. The District shall not make any separate measure or payment for the cost of insurance and bonds. The Contractor shall include all of the costs of insurance and bonds in the contract price.

NOTIFICATION. The Contractor shall immediately provide the Contracting Officer with written notice in the event that its insurance coverage has or will be substantially changed, canceled or not renewed, and provide an updated certificate of insurance to the Contracting Officer

6. CERTIFICATES OF INSURANCE. The Contractor shall submit certificates of insurance giving evidence of the required coverage as specified in this Insurance Section prior to commencing work. Evidence of insurance shall be submitted to Executive office of Mayor, Office of Risk management.
Certificate of Insurance contact person:

Courtney B. Lattimore
Deputy Contracting Officer
55 M Street SE 7th Floor
Washington, DC 20003

General Decision Number: DC150001 10/09/2015 DC1

Superseded General Decision Number: DC20140001

State: District of Columbia

Construction Types: Heavy (Heavy and Sewer and Water Line) and Highway

County: District of Columbia Statewide.

HEAVY CONSTRUCTION PROJECTS (Including Sewer and Water Lines); HIGHWAY CONSTRUCTION PROJECTS

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of $10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/02/2015
1	01/09/2015
2	03/06/2015
3	05/01/2015
4	05/08/2015
5	06/05/2015
6	06/12/2015
7	06/26/2015
8	07/03/2015
9	07/17/2015
10	08/07/2015
11	08/14/2015
12	09/11/2015
13	09/18/2015
14	10/02/2015
15	10/09/2015

ASBE0024-001 10/01/2013

	Rates	Fringes
Asbestos Worker/Heat and Frost Insulator Includes the application of all insulating		

materials, protective coverings, coatings and finishes to all types of mechanical systems.....$ 33.13 13.76

ASBE0024-002 10/09/2013

	Rates	Fringes
HAZARDOUS MATERIAL HANDLER		
Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems	$ 20.86	5.46

ASBE0024-005 10/01/2013

	Rates	Fringes
Fire Stop Technician	$ 26.06	5.90

Includes the application of materials or devices within or around penetrations and openings in all rated wall or floor assemblies, in order to prevent the pasage of fire, smoke of other gases. The application includes all components involved in creating the rated barrier at perimeter slab edges and exterior cavities, the head of gypsum board or concrete walls, joints between rated wall or floor components, sealing of penetrating items and blank openings.

BOIL0193-001 01/01/2014

	Rates	Fringes
Boilermakers:	$ 38.07	22.58

BRDC0001-001 05/03/2015

	Rates	Fringes
Bricklayer	$ 30.36	9.69

BRMD0001-004 05/03/2015

	Rates	Fringes
BRICKLAYER		
Refractory (Firebrick)	$ 36.62	9.85

CARP0132-001 05/01/2015

	Rates	Fringes
Carpenter/Lather	$ 27.56	9.08
Piledriver	$ 26.79	8.85

CARP1831-001 04/01/2013

	Rates	Fringes
MILLWRIGHT	$ 31.59	8.58

CARP2311-002 05/01/2013

	Rates	Fringes
DIVER TENDER	$ 29.00	8.15
DIVER	$ 37.74	8.15

ELEC0026-001 06/01/2015

	Rates	Fringes
Electricians	$ 42.80	15.33

ELEC0070-001 05/04/2015

	Rates	Fringes
Line Construction:		
Cable Splicers	$ 35.35	19%+5.00
Equipment Operators	$ 35.35	19%+5.00
Groundmen	$ 16.44	19%+5.00
Linemen	$ 35.35	19%+5.00
Truck Driver	$ 18.69	19%+5.00

ENGI0077-001 05/01/2015

	Rates	Fringes
Power equipment operators: (HEAVY AND HIGHWAY CONSTRUCTION)		
GROUP 1	$ 35.91	8.65+a
GROUP 2	$ 34.36	8.65+a
GROUP 3	$ 32.71	8.65+a
GROUP 4	$ 29.30	8.65+a
GROUP 5	$ 25.28	8.65+a
GROUP 6	$ 23.23	8.65+a
GROUP 7	$ 36.75	8.65+a

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Tower Cranes and Cranes 100 ton and over.

GROUP 2: 35 ton cranes & above, derricks, concrete boom pump, drill rigs (+50,000 lbs torque), mole.

GROUP 3: Cranes, hoists, drill rigs (under 50,000 lbs torque), tie back machines, paving mixers, tunnel shovels, batch plants, shields, tunnel mining machines, draglines, mucking machines, graders in tunnels, pile driving engines, welder, horizontal directional drill operator, Tug boats.

GROUP 4: Front end loaders, boom trucks, backhoes, excavators, gradalls, power driven wheel scoops & scrapers, blade graders, motor graders, bulldozers, trenching machines, ballast regulator,hoe ram, locomotive (standard, narrow gauge, tuggers).

GROUP 5: Boilers (skelton), asphalt spreaders, bullfloat finishing machines, concrete finishing machines, concrete spreaders,concrete mixer, concrete pump, well points, hydraulic pumps, elevators, freeze uniits, tunnel motorman or dinky operator, conveyors, grout pump, fireman, ultra high pressure water jet cutting tool system operator/mechanic, horizontal directional drill locator, skid steers (fine grading), High lifts (lull type lifts).

GROUP 6: Fork lifts, ditch witch, bobcat, skid steer, space heaters, sweepers, assistant engineers, oilers, service unit equipment, roller.

GROUP 7: Master mechanic.

a. PAID HOLIDAYS: New Years Day, Inaugural Day, Decoration Day, Independence Day, Labor Day, Martin Luther King's Birthday, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving and Christmas Day.

ENGI0077-002 06/01/2015

	Rates	Fringes
Power equipment operators: (PAVING AND INCIDENTAL GRADING)		
GROUP 1	$ 28.99	7.35
GROUP 2	$ 25.85	7.35
GROUP 3	$ 22.24	7.35
GROUP 4	$ 20.00	7.35
GROUP 5	$ 29.70	7.15

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Gradall operator, Crane.
GROUP 2: Boom Truck, Milling Machine, Excavator, Rubber Tire Backhoe, Asphalt Paver, Asphalt Plant Engineer, Motor Grader, Track Loader, Rubber Tire Loader, Track Dozer, Concrete Paver.
GROUP 3: Broom Truck, Asphalt Roller.
GROUP 4: Air Compressor, Grade Rollers.
GROUP 5: Mechanic.

ENGI0077-003 07/01/2015

	Rates	Fringes
Power equipment operators: (SEWER, GAS AND WATER LINE CONSTRUCTION)		
GROUP 1	$ 25.60	7.35+a
GROUP 2	$ 25.20	7.35+a
GROUP 3	$ 24.69	7.35+a
GROUP 4	$ 24.37	7.35+a
GROUP 5	$ 23.55	7.35+a

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Excavators, Cranes, Gradalls.

GROUP 2: Backhoes, Front-end Loaders, Fork alift/Lull, Bulldozers, Motor Graders. Qualified Mechanics, Hydraulic Tamper and Hoe Pack, Paving Mixers, Pile Driving Engines, Batch Plant, Concrete Pumps, Low-Boy Driver, Lube Truck.

GROUP 3: Trenching Machine, Well Drilling Machines, Concrete Mixers, Motor Graders, Truck Driver.

GROUP 4. Roller, Air Compressors, Pumps, Welding Machines, Well Points, Firemen.

GROUP 5: Oiler

a.PAID HOLIDAYS: New Year's Day, Inaugural Day, Washington's Birthday, Decoration Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day and Martin Luther King's Birthday.

IRON0005-001 06/01/2015

	Rates	Fringes
Ironworkers:		
Structural, Ornamental and Chain Link Fence	$ 30.65	18.135

IRON0201-001 05/01/2015

	Rates	Fringes
Ironworkers:		
Reinforcing	$ 27.50	18.58

LABO0657-003 06/01/2015

	Rates	Fringes
Laborers: (HEAVY AND HIGHWAY AND SEWER & WATER LINES CONSTRUCTION)		
GROUP 1	$ 23.67	7.31
GROUP 2	$ 24.06	7.31
GROUP 3	$ 24.27	7.31
GROUP 4	$ 24.46	7.31
GROUP 5	$ 24.98	7.31
GROUP 6	$ 25.65	7.31
GROUP 7	$ 26.30	7.31
GROUP 8	$ 27.16	7.31

LABORERS CLASSIFICATIONS:

GROUP 1: Carloaders, choker setter, concrete crewman, crushed feeder, demolition laborers, including salvaging all material, loading, cleaning up, wrecking, dumpmen, flagmen, fence erector and installer (other than chain link), including installation and erection of fence, guard rails, medial rails, reference posts, guide posts and right-of-way markers, form strippers, general laborers, railroad track laborers, riprap man, scale man, stake jumper, structure mover, includes foundation, separation, preparation, cribbing, shoring, jacking and unloading of structures, water nozzleman, timber bucker and faller, truck loader, water boys, tool room men.

GROUP 2: Combined air and water nozzleman, cement handler, dope pot fireman (nonmechanical), form cleaning machine, mechanical railroad equipment (includes spiker, puller, tile cleaner, tamper, pipe wrapper, power driven wheelbarrows, operators of hand derricks, towmasters, scootcretes, buggymobiles and similar equipment), tamper or rammer operator, trestle scaffold builders over one tier high, power tool operator (gas, electric or pneumatic), sandblast or gunnite tailhose man, scaffold erector, (steel or wood), vibrator operator (up to 4 feet), asphalt cutter, mortar men, shorer and lagger, creosote material handler, corrosive enamel or equl, paver breaker and jackhammer operators.

GROUP 3: Multi-section pipe layer, non-metallic clay and concrete pipe layer (including caulker, collarman, jointer, rigger and jacker, thermal welder and corrugated metal culvert pipe layer.

GROUP 4: Asphalt block pneumatic cutter, asphalt roller, walker, chainsaw operator with attachment, concrete saw (walking), high scalers, jackhammer operator (using over 6 feet of steel), vibrator operator (4 feet and over), well point installer, air trac operator.

GROUP 5: Asphalt screeder, big drills, cut of the hole drills (1 1/2 " piston or larger), down the hole drills (3 1/2" piston or larger) gunnite or sandblaster nozzleman, asphalt raker, asphalt tamper, form setter, demolition torch operator, shotcrete nozzlemen and potman.

GROUP 6: Powderman, master form setters.

GROUP 7: Brick paver (asphalt block paver, asphalt block sawman, asphalt block grinder, hastings block or similar type)

GROUP 8: Licensed powdermen.

LABO0657-004 06/01/2015

	Rates	Fringes
Laborers: (HAZARDOUS WASTE REMOVAL, EXCEPT ON MECHANICAL SYSTEMS: Preparation for, removing and encapsulation of hazardous materials from non-mechanical systems)		
Skilled Asbestos Abatement Laborers	$ 20.26	7.31
Skilled Toxic and Hazardous Waste Removal Laborers	$ 22.93	7.31

LABO0657-005 06/01/2015

	Rates	Fringes
Laborers: (TUNNEL, RAISE & SHAFT (FREE AIR) FOR HEAVY AND SEWER & WATER LINES CONSTRUCTION)		
GROUP 1	$ 24.54	7.31
GROUP 2	$ 25.32	7.31
GROUP 3	$ 27.30	7.31
GROUP 4	$ 28.14	7.31

LABORERS CLASSIFICATIONS:

GROUP 1: Brakeman, Bull Gang, Dumper, Trackmen, Concrete Man.

GROUP 2: Chuck Tender, Powdermen in Prime House, Form Setters and Movers, Nippers, Cableman, Houseman, Groutman, Bell or

Signalman, Top or Bottom Vibrator Operator.

GROUP 3: Miners, Re-Bar Underground, Concrete or Gunnite Nozzlemen, Powdermen, Timbermen and Re-Timbermen, Wood Steel Including Liner plate or Other Support, Material Motorman, Caulkers, Diamond Drill Operators, Riggers, Cement Finishers-Underground, Welders and Burners, Shield Driver, Air Trac Operator, Shotcrete Nozzlemen and Potman.

GROUP 4: Mucking Machine Operator (Air).

LABO0657-006 06/01/2015

	Rates	Fringes
Laborers: (TUNNEL, RAISE AND SHAFT (COMPRESSED AIR) FOR HEAVY CONSTRUCTION ONLY		
Gauge Pressure Work Period (Pounds) (Hours)		
1-14 7	$ 32.45	7.31
14-18 6	$ 38.19	7.31

FOOTNOTE: On any requirement for air pressure in excess of 18 PSI, work periods and rates should be negotiated at a pre-bid conference.

LABO0657-007 08/01/2014

	Rates	Fringes
Laborers: (PAVING AND INCIDENTAL GRADING)		
Asphalt Raker & Concrete Saw Operator	$ 19.80	6.60
Asphalt Shoveler	$ 19.17	6.60
Asphalt Tammer & Concrete Shoveler	$ 19.44	6.60
Jack Hammer	$ 19.67	6.60
Laborer	$ 19.00	6.60
Sand Setter & Form Setter	$ 20.48	6.60

LABO0657-008 06/01/2015

	Rates	Fringes
LABORERS (BRICK MASONRY WORK)		
Mason Tenders	$ 16.54	7.31
Scaffold Builders, Mortarmen	$ 17.53	7.31

MARB0002-003 05/03/2015

	Rates	Fringes
Marble & Stone Mason		
Includes Pointing,		
Caulking and Cleaning of		
All Types of Masonry,		
Brick, Stone and Cement		
Structures	$ 35.19	15.72

MARB0003-001 05/03/2015

	Rates	Fringes
Mosaic & Terrazzo Worker,		
Tile Layer	$ 26.75	10.28

MARB0003-004 05/03/2015

	Rates	Fringes
Marble, Tile & Terrazzo		
Finisher	$ 21.96	9.35

PAIN0051-001 06/01/2014

	Rates	Fringes
Painters:		
All Industrial Work	$ 29.60	9.05
Bridges, Heavy Highway,		
Lead Abatement and		
Flame/Thermal Spray	$ 33.23	9.05
Commercial and Mold		
Remediation, Painters,		
Wallcovers and Drywall		
Finishers	$ 24.89	9.05
Metal Polishing and		
Refinishing	$ 25.89	9.05

PLAS0891-001 02/01/2014

	Rates	Fringes
Cement Masons:		
HEAVY CONSTRUCTION ONLY	$ 27.15	9.61

PLAS0891-002 06/01/2014

	Rates	Fringes
Cement Masons: (PAVING &		
INCIDENTAL GRADING)		
Cement Masons	$ 19.50	6.91

Concrete Saw Operators.....$ 19.50 6.91
Form Setters.....$ 19.50 6.91

PLUM0005-001 08/01/2015

	Rates	Fringes
Plumbers	$ 39.67	16.60+a

a. PAID HOLIDAYS: Labor Day, Veterans' Day, Thanksgiving Day and the day after Thanksgiving, Christmas Day, New Year's Day, Martin Luther King's Birthday, Memorial Day and the Fourth of July.

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* PLUM0602-005 08/01/2015

	Rates	Fringes
Steamfitter, Refrigeration & Air Conditioning Mechanic	$ 38.89	19.97+a

a. PAID HOLIDAYS: New Year's Day, Martin Luther King's Birthday, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and the day after Thanksgiving and Christmas Day.

SHEE0100-001 07/01/2015

	Rates	Fringes
Sheet Metal Worker	$ 39.79	16.77+a

a. PAID HOLIDAYS: New Year's Day, Martin Luther King's Birthday, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and Christmas Day

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TEAM0639-001 06/01/2015

	Rates	Fringes
Truck drivers: (HEAVY & HIGHWAY CONSTRUCTION)		
Tractor trailer, Low Boy	$ 23.15	2.30+a
Truck Drivers	$ 21.15	2.30+a

a. VACATION: Employees will receive one (1) week's paid vacation after one (1) year of service.

TEAM0639-005 06/01/2015

Rates Fringes

Truck drivers: (PAVING &
INCIDENTAL GRADING)
All paving projects where
the grading is incidental
to the paving.....$ 21.15 2.30

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted

because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	SPECIFICATION REFERENCE	QUANTITY
000003	EMPLOYEE TRAINING	HR	SP 36	6,900
108002	MOBILIZATION	LS	SP 37	1
108004	PROGRESS PHOTOGRAPHS	LS	SP 38	1
108006	RECORD DRAWINGS AND AS-BUILT DRAWINGS	LS	SP 39	1
108012	ENGINEER'S FIELD FACILITIES	LS	SP 40	1
108015	ENGINEER'S BOAT	DAYS	SP 41	200
604061	TEMPORARY FENCE	LF	SP 42	455
604063	SECURITY FENCE (BRIDGE ACCESS DETERRENT)	SF	SP 43	3,400
608114	TREE TRIMMING	HR	SP 44	80
610012	PORTABLE PRECAST PCC BARRIER	LF	SP 45	455
610013	MOVE PORTABLE PRECAST PCC BARRIER	LF	SP 46	3,641
612006	CONSTRUCTION LANE CLOSING	LS	SP 47	1
612010	TEMPORARY CONSTRUCTION SIGN SUPPORTS	EA	SP 48	46
612014	CONSTRUCTION WARNING AND DETOUR SIGNS	SF	SP 49	225
612016	REFLECTORIZED TRAFFIC CONES	EA	SP 50	175
612018	FLASHING AMBER WARNING LIGHTS, TYPE B	EA	SP 51	50
612020	STEADY BURNING AMBER WARNING LIGHTS, TYPE C	EA	SP 51	50
612026	CONSTRUCTION SIGN WARNING FLAGS	EA	SP 53	8
612028	TYPE III PVC BARRICADE	EA	SP 54	2
612034	TRAFFIC DRUMS	EA	SP 55	175
612098	SAND-FILLED IMPACT ATTENUATOR MODULE	EA	SP 57	10
612104	STEEL PROTECTION PLATE	EA	SP 58	10
612106	REPAIR OF DAMAGED MAJOR TRAFFIC CONTROL DEVICES	LS	SP 60	1
612110	PREFORMED PAVEMENT MARKINGS, LINES	LF	SP 61	10,750
612112	PREFORMED PAVEMENT MARKINGS, SYMBOLS AND LETTERS	EA	SP 62	15
613098	F & I 7 CONDUCTOR 14 AWG STRANDED ELECTRICAL TRAFFIC SIGNAL CABLE	LF	SP 63	480
613156	FURNISH YELLOW BALL LED MODULE (12 INCH)	EA	SP 63	2
613415	FURNISH AND INSTALL PEDESTRIAN/BICYCLE DETECTION AND WARNING FLASHERS	EA	SP 63	2
614488	F & I #16 CAST IRON POLE	EA	SP 64	66
614494	REMOVE #16 CAST IRON STREET LIGHT POLE	EA	SP 65	66
614808	F & I FIXTURE, ANY TYPE	EA	SP 66	66
614999	PAYMENT TO POWER COMPANY FOR CONNECTION, DISCONNECTION AND INSPECTION	LS	SP 67	1
616023	TRAFFIC SIGN PANELS	SQ FT	SP 68	3
616042	FEDERAL AID PROJECT SIGN	EA	SP 69	2
619002	ANTI-GRAFFITI COATING	SF	SP 70	25,000
703003	UNDERPIN ROSSLYN APPROACH STRUCTURE END DIAPHRAGM	CY	SP 71	12
703025	REPLACE CONCRETE DECK PEDESTALS	CY	SP 71	15
703027	PCC END POST (NORTH APPROACH)	CY	SP 71	1
703029	REPLACE PORTIONS OF CONCRETE UTILITY GALLERY FLOOR SLAB	CY	SP 71	15
704002	REINFORCING STEEL	LBS	SP 72	10,000
706023	STEEL ACCESS LADDERS AT NORTH AND SOUTH ABUTMENTS	LS	SP 73	1
706025	REHABILITATE SUPPORTS FOR 30 INCH WATER MAIN ON BRIDGE (WASHINGTON AQUEDUCT)	LS	SP 74	1
707011	PAINT EXISTING FLOOR BEAM ENDS	LS	SP 75	1
707013	PAINT EXISTING PEDESTRIAN RAILING	LS	SP 76	1
710003	BRIDGE DECK DRAINAGE SYSTEM	LS	SP 77	1
714004	LATEX-MODIFIED CONCRETE OVERLAY (APPROACH SLABS)	SY	SP 78	90
714007	HIGH MOLECULAR WEIGHT METHACRYLATE OVERLAY (RIGHT LANES ONLY)	SY	SP 79	4,400
716004	REPAIR-REPLACE PCC STRUCTURE - REPAIR TYPE 1, CONCRETE REPAIR	SF	SP 80	23,850
716006	REPAIR-REPLACE PCC STRUCTURE - REPAIR TYPE 2, CONCRETE PATCH	SF	SP 81	16,701
716008	REPAIR-REPLACE PCC STRUCTURE - REPAIR TYPE 3, CRACK REPAIR	LF	SP 82	2,150
716011	DECK OVERHANG STRENGTHENING (CARBON FIBER REINFORCED POLYMER) REPAIR	LF	SP 83	260
716013	GLASS FIBER WRAP MATERIALS	SF	SP 84	10,000
716015	FIBER REINFORCED POLYMER ENCAPSULATION FOR PIER FOOTINGS	SY	SP 85	800
716017	REMOVE AND RESET PERMANENT PRECAST CONCRETE TRAFFIC BARRIER	LF	SP 86	3,000
716019	CLEAN PORTIONS OF THE CONCRETE BRIDGE	SY	SP 87	15,000
717003	REPLACE ARMORED BRIDGE DECK EXPANSION JOINT SEALS	LF	SP 88	1,613
718003	REPLACE NON-ARMORED BRIDGE DECK EXPANSION JOINT SEALS	LF	SP 89	2,357
720002	PROTECTION SHIELD	LS	SP 90	1

SCHEDULE OF WORK

REPAIR DETAIL	SCHEDULE OF WORK	SHEET REFERENCE
(1)	REPLACE NON-ARMORED BRIDGE DECK EXPANSION JOINT SEALS (B-0007 AND EAST RAMP)	134
(2)	REPLACE ARMORED BRIDGE DECK EXPANSION JOINT SEALS (B-0007 AND EAST RAMP)	134
(3)	REPAIR POST-TENSIONED DECK HOLD-DOWN RECESSES AND OVERLAY RIGHT LANE (IN BOTH DIRECTIONS) WITH HIGH MOLECULAR WEIGHT METHACRYLATE OVERLAY	134
(4)	PATCH SPALLING IN DECK SOFFITT AND APPLY GLASS FIBER WRAP	134
(5)	CLEAN AND PAINT EXISTING STEEL PEDESTRIAN RAILING	135
(6)	REPAIR CONCRETE ENCASED STEEL FLOOR BEAMS AND REINFORCED CONCRETE FLOOR BEAMS	136
(7)	REPLACE PORTIONS OF THE GALLERY FLOOR SLAB (FULL DEPTH)	137
(8)	PCC TYPE 1 AND TYPE 2 CONCRETE REPAIRS	138
(9)	PCC CONCRETE CRACK REPAIRS	138
(10)	REMOVE AND INSTALL NEW STREETLIGHT POLES AND FIXTURES	139
(11)	REMOVE AND RESET THE PRECAST CONCRETE TRAFFIC BARRIER	140 - 141
(12)	STRENGTHEN DECK OVERHANG WITH CARBON FIBER REINFORCED POLYMER BARS	142
(13)	CLEAN DEBRIS FROM ALL DRAINAGE SCUPPERS, PIER CHAMBERS AND REPLACE BRIDGE DOWNSPOUTS (B-0007 AND EAST RAMP)	143
(14)	CLEAN AND PAINT EXPOSED ENDS OF STEEL FLOOR BEAMS	136
(15)	REPLACE CONCRETE DECK PEDESTALS	144 - 145
(16)	SPANDREL ARCH AND COLUMN REPAIRS	146
(17)	REHABILITATE 30 INCH WATER MAIN SUPPORTS	148
(18)	ENCAPSULATE PIER FOOTINGS WITH FIBER REINFORCED POLYMER	149 - 150
(19)	MILL AND OVERLAY ROSSLYN APPROACH SLAB WITH LMC-VE	152
(20)	UNDERPIN ROSSLYN APPROACH STRUCTURE END DIAPHRAGM	151
(21)	REMOVE CONCRETE BOLLARDS FROM EAST SIDEWALK	139
(22)	APPLY ANTI-GRAFFITI TREATMENT	153
(23)	REPLACE ALL PAVEMENT MARKINGS (B-0007 AND EAST RAMP)	161
(24)	INSTALL PEDESTRIAN/BICYCLE DETECTION AND WARNING FLASHERS AT THE EAST RAMP EXIT	162 - 164
(25)	REPAIR THE NORTHWEST CONCRETE END POST	10 & 148
(26)	REPLACE PORTION OF BROKEN (2") METAL CONDUIT IN THE WEST GALLERY	93
(27)	INSTALL NEW ACCESS LADDERS AT THE NORTH AND SOUTH ABUTMENTS	17-19 & 32-34
(28)	CLEAN PORTIONS OF THE BRIDGE WITH HIGH PRESSURE WATER	11
(29)	REPLACE SECURITY FENCE	147

ABBREVIATIONS

ADA - AMERICANS WITH DISABILITIES ACT
CFRP - CARBON FIBER REINFORCED POLYMER
FHWA - FEDERAL HIGHWAY ADMINISTRATION
FRP - FIBER REINFORCED POLYMER
GWMP - GEORGE WASHINGTON MEMORIAL PARKWAY
HMWM - HIGH MOLECULAR WEIGHT METHACRYLATE
LMC-VE - VERY EARLY STRENGTH LATEX MODIFIED CONCRETE
MUTCD - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NPS - NATIONAL PARK SERVICE
NRO/TIC - NORTHERN REGIONAL OPERATIONS / SMART TRAFFIC CENTER
N.B.R. - NORTHBOUND ROADWAY
PCC - PORTLAND CEMENT CONCRETE
PEPCO - POTOMAC ELECTRIC AND POWER COMPANY
PVT - POST TENSIONING
TCP - TRAFFIC CONTROL PLAN
TTC - TEMPORARY TRAFFIC CONTROL
TTCM - TEMPORARY TRAFFIC CONTROL MANUAL
TTCP - TEMPORARY TRAFFIC CONTROL PLAN
ROW - RIGHT OF WAY
S.B.R. - SOUTHBOUND ROADWAY
SP - SPECIAL PROVISION
VMS - VARIABLE MESSAGE SIGN

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®
72 Loveton Circle Sparks, Maryland 21152-0949

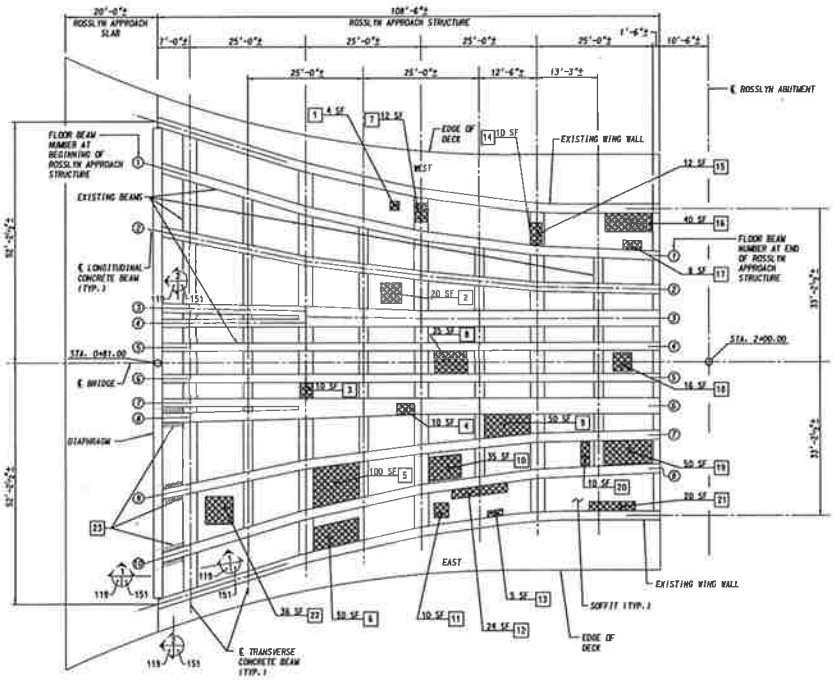
NO	DESCRIPTION	NAME	DATE
	REVISIONS		

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION

REHABILITATION OF
FRANCIS SCOTT KEY BRIDGE
OVER THE POTOMAC RIVER

SUMMARY OF QUANTITIES

DESIGNED BY: JMT
DRAWN BY: JMT
CHECKED BY: JMT
PROJECT MGR: JMT
DIVISION CHIEF
DATE
FILE
SHEET 2 OF 164



ROSSLYN APPROACH FRAMING PLAN
SCALE: 1" = 10'-0"

15 119

ROSSLYN APPROACH STRUCTURE SCHEDULE			
DEFECT ID	TOTAL QUANTITY	DEFECT DESCRIPTION	REPAIR DETAIL
1	4	SPALLING W/ EXP. REBAR	4
2	20	SPALLING W/ EXP. REBAR	4
3	10	SPALLING W/ EXP. REBAR	8
4	10	SPALLING W/ EXP. REBAR	8
5	100	SPALLING W/ EXP. REBAR	4
6	50	SPALLING W/ EXP. REBAR	4
7	12	DELAMINATED CONCRETE & SPALLING	8
8	35	SPALLING W/ EXP. REBAR	4
9	50	SPALLING W/ EXP. REBAR	4
10	35	SPALLING W/ EXP. REBAR	4
11	10	SPALLING W/ EXP. REBAR	4
12	24	SPALLING W/ EXP. REBAR	4
13	5	SPALLING W/ EXP. REBAR	4
14	10	SPALLING	8
15	12	SPALLING	8
16	40	DELAMINATED CONCRETE & SPALLING	4
17	8	SPALLING	4
18	16	SPALLING W/ EXP. REBAR	4
19	50	SPALLING W/ EXP. REBAR	4
20	10	SPALLING W/ EXP. REBAR	4
21	20	DELAMINATED CONCRETE & SPALLING	4
22	36	SPALLING W/ EXP. REBAR	4
23	12 CY	UNDERPIN CONCRETE DIAPHRAGM	20

REPAIR AREA LEGEND:

- DECK SOFFIT REPAIRS (SQUARE FOOT AREA SHOWN). REPAIR DETAIL 4
- ROSSLYN APPROACH REPAIRS. REPAIR DETAIL 20

JMT
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NO.	DESCRIPTION	NAME	DATE
5	REVISED REPAIR DETAIL TYPE FOR DEFECTS 3, 4, 7, 14 & 15	FFB	12/9/15

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION

REHABILITATION OF FRANCIS SCOTT KEY BRIDGE OVER THE POTOMAC RIVER

ROSSLYN APPROACH STRUCTURE

CONCRETE REPAIR NOTES

1. THESE NOTES APPLY TO REPAIRS WHICH FOLLOW:
   - REPAIR DETAIL (E) ON SHEET 136
   - REPAIR DETAIL (B) ON SHEET 138
   - REPAIR DETAIL (S) ON SHEETS 144 AND 145

2. THE REPAIR AREAS SHOWN ON THE PLANS ARE APPROXIMATE AND BASED ON FIELD INVESTIGATION PERFORMED IN JUNE AND JULY 2010. ADDITIONAL AREA AND NEW AREAS OF REPAIR ARE TO BE ANTICIPATED. NO ADDITIONAL REPAIRS BEYOND THE LIMITS SHOWN ON THE PLANS ARE TO BE MADE WITHOUT APPROVAL OF THE FIELD ENGINEER. TO ACCOUNT FOR POTENTIAL UNKNOWNS IN THE CONDITION STATUS OF PARTICULAR BRIDGE ELEMENTS, TWO POTENTIAL REPAIR TYPES ARE SOMETIMES GIVEN. IN THESE INSTANCES, THE CONTRACTOR AND ENGINEER WILL RE-EVALUATE THE CONDITION IN THE FIELD AND MAKE A DETERMINATION REGARDING THE APPROPRIATE REPAIR TYPE.

3. THE CONTRACTOR SHALL EXERCISE CAUTION AND CARE DURING CONCRETE REMOVAL TO LOCATE SOUND CONCRETE. CHIPPING HAMMERS AND REMOVAL EQUIPMENT SHALL BE CONTINUOUSLY MONITORED AND RESTRICTED SO AS TO NOT DAMAGE THE EXISTING STRUCTURE. THE STRUCTURAL CONCRETE ON THE BRIDGE IS AS MUCH AS 90 YEARS OLD WITH VARYING COMPRESSIVE STRENGTHS RANGING FROM 2310 PSI MIN TO 7338 PSI MAX. THE AGGREGATE MATERIALS PRESENT ARE VARIABLE IN TYPE, SIZE AND GRADATION. A PETROGRAPHIC ANALYSIS REPORT OF FIVE CONCRETE CORE SAMPLES DATED SEPTEMBER 3, 2010 IS AVAILABLE FOR REVIEW UPON REQUEST BY THE CONTRACTOR.

4. CONCRETE STRUCTURAL REPAIRS SHALL FOLLOW SECTION 716 OF THE STANDARD SPECIFICATIONS. THESE WILL BE DIFFERENTIATED AS TYPE 1 CONCRETE REPAIRS – GREATER THAN 4 INCHES IN DEPTH AND TYPE 2 CONCRETE REPAIRS – 4 INCHES OR LESS IN DEPTH.

5. FOR TYPE 1 REPAIRS, THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF CONCRETE REMOVAL TO ATTAIN THE MINIMUM DEPTH REQUIRED BEHIND EXISTING REINFORCING STEEL AND ALLOW ANCHORS AND NEW WWF REINFORCING STEEL TO BE INSTALLED.

6. IN GENERAL, STRUCTURAL ELEMENTS WILL RECEIVE EITHER A TYPE 1 OR TYPE 2 REPAIR AS STATED BELOW. THE REPAIR TYPE MAY BE ADJUSTED BY THE FIELD ENGINEER BASED ON THE ACTUAL CONDITION OF THE CONCRETE ALTHOUGH STRUCTURAL ANCHORS AND NEW WWF ARE REQUIRED FOR ALL AREAS REQUIRING A TYPE 1 REPAIR.

   TYPE 1 REPAIRS

   - LARGE VERTICAL SURFACES ON PIER AND ABUTMENT FACES.
   - PIER AND ABUTMENT PILASTERS WHICH SUPPORT THE SPANDREL COLUMNS.
   - SPANDREL ARCH COLUMNS AND HORIZONTAL FACES OF ARCHES.
   - FLOORBEAMS. ⚠

   TYPE 2 REPAIRS

   - DECK SOFFITS AND UNDERSIDE OF SLABS IN THE PIER/ABUTMENT CHAMBERS.
   - DECK PEDESTALS.
   - UNDERSIDE OF THE SPANDREL ARCHES.
   - ~~FLOORBEAMS~~ ⚠
   - CONCRETE TRAFFIC BARRIER.
   - SMALL VERTICAL AREAS LESS THAN 4 SQUARE FEET IN TOTAL AREA OR THOSE WITH A LESSER DIMENSION OF NO MORE THAN 6 FOOT WHICH OTHERWISE WOULD BE CONSIDERED A TYPE 1 REPAIR (NO ANCHORS OR WWF REQUIRED).

7. THE USE OF PNEUMATICALLY APPLIED MORTAR MUST BE BY WET PROCESS ONLY AS REQUIRED IN SECTION 716 OF THE STANDARD SPECIFICATIONS. PNEUMATICALLY APPLIED MORTAR IS LIMITED TO NON-VISIBLE AREAS OF THE BRIDGE ONLY (I.E. DECK SOFFITS, DECK PEDESTALS, FLOOR BEAMS, INTERIOR SPANDREL ARCHES AND COLUMNS AND AREAS INSIDE THE PIER AND ABUTMENT CHAMBERS).

8. THE COST OF CLEANING, CUTTING, BENDING AND STRAIGHTENING OF EXISTING REINFORCING STEEL TO BE INCORPORATED INTO THE NEW WORK WILL NOT BE MEASURED BUT THE COST TO BE CONSIDERED INCIDENTAL TO THE PERTINENT CONCRETE REPAIR TYPE.

9. REINFORCING STEEL THAT IS DAMAGED DUE TO THE CONTRACTOR'S REMOVAL OPERATIONS SHALL BE REPLACED AND SPLICED TO EXISTING STEEL WITH NEW BARS OF AN EQUIVALENT AREA AT NO ADDITIONAL COST.

10. FOR REINFORCING STEEL THAT IS DETERIORATED DUE TO CORROSION AND REQUIRES REPLACEMENT, A REINFORCING STEEL PAY ITEM IS INCLUDED IN THE CONTRACT. ALL REPLACEMENT REINFORCING STEEL IS TO BE UNCOATED.

11. WHEN SPLICING TO EXISTING REINFORCING STEEL, MECHANICAL SPLICES SHALL BE USED AND SHALL MEET MINIMUM REQUIREMENTS OF SP 72.

CAUTIONARY NOTES DURING CONCRETE REMOVAL FOR CERTAIN ELEMENTS

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION AND CARE DURING REMOVAL OF DETERIORATED CONCRETE FOR PARTICULAR STRUCTURAL MEMBERS. THESE INCLUDE THE DECK PEDESTALS, SPANDREL ARCHES AND COLUMNS, AND ABUTMENT/PIER PILASTERS WHICH SUPPORT THE ENDS OF THE SPANDREL ACHES. FOR THESE MEMBERS, THE CONTRACTOR IS RESTRICTED TO THE AMOUNT OF CONCRETE WHICH CAN BE REMOVED. THE BELOW REQUIREMENTS SHALL BE FOLLOWED:

DECK PEDESTALS (REFER TO SHEETS 144 AND 145 FOR REPAIR DETAILS)

1. ONLY ONE (1) DECK PEDESTAL, SUPPORTING A PARTICULAR FLOOR BEAM, MAY BE WORKED ON AT A TIME. DECK PEDESTALS WHICH SUPPORT DIFFERENT FLOOR BEAMS MAY BE WORKED ON SIMULTANEOUSLY.

2. FLOOR BEAMS ABOVE THE DECK PEDESTALS WHICH ARE TO BE REPLACED SHALL BE TEMPORARILY SUPPORTED PRIOR TO REMOVAL OF THE EXISTING PEDESTAL. DETAILS FOR TEMPORARY SUPPORT DURING REMOVAL ARE SHOWN ON SHEETS 154 TO 160. ADJACENT DOUBLE PEDESTALS WHICH ARE SEPARATED BY A JOINT CANNOT BE REPLACED SIMULTANEOUSLY.

3. CONCRETE REMOVAL FOR THE REPAIR OF DECK PEDESTALS MAY BE PERFORMED TO ONLY 2 SIDES AT A TIME AS SHOWN AND DIMENSIONED IN THE DETAILS. THE SIDES MUST BE ADJACENT, CONSISTING OF ONE LONG AND ONE SHORT SIDE. PORTLAND CEMENT REPAIR MATERIALS SHALL BE FULLY CURED PRIOR TO STARTING REMOVAL ON ANY ADDITIONAL SIDES. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE NEWLY CURED CONCRETE WHILE WORKING ON ADJACENT FACE(S). IF THE CONTRACTOR DESIRES TO WORK ON 3 OR 4 SIDES SIMULTANEOUSLY, THEN TEMPORARY SUPPORT OF THE FLOOR BEAM MUST BE PROVIDED IN ACCORDANCE WITH THE DETAILS SHOWN ON SHEET 154 TO 160.

4. THE CONTRACTOR IS ALERTED TO THE FACT THAT POTENTIAL REPAIRS MAY BE REQUIRED ON SIDES OF PEDESTALS ADJACENT TO AN EXPANSION JOINT. THESE LOCATIONS HAVE BEEN NOTED IN THE REPAIR TABLES. THE FULL EXTENT OF WHICH CANNOT BE DETERMINED UNTIL DEMOLITION IS PERFORMED TO AN ADJACENT SIDE CORNER TO REVEAL THE EXTENT OF DETERIORATION WITHIN THE EXPANSION JOINT AREA. THESE AREAS ARE ALSO SUBJECT TO THE LIMITATIONS FOR DEMOLITION ON TWO ADJACENT SIDES.

SPANDREL COLUMNS (REFER TO SHEETS 146 FOR REPAIR DETAILS)

1. ONLY ONE (1) FACE OF A COLUMN MAY BE WORKED ON AT A TIME. IF MULTIPLE FACES REQUIRE REPAIRS, WORK SHALL BE STAGED AS FOLLOWS. BEGIN AT THE FACE ADJACENT TO THE EXPANSION JOINT. AFTER REPAIR HAS BEEN MADE AND MATERIALS HAVE FULLY CURED, WORK MAY PROCEED TO EACH SHORT SIDE BEFORE PROCEEDING TO THE OUTER LONG SIDE OF THE COLUMN.

2. IF REPAIRS ARE REQUIRED TO THE ABUTMENT OR PIER FACE WITHIN THE EXPANSION JOINT GAP AREA, THESE REPAIRS SHALL BE PERFORMED CONCURRENTLY WITH THE ADJACENT FACE OF SPANDREL COLUMN BEING REPAIRED.

ABUTMENT/PIER PILASTERS (REFER TO SHEETS 148 FOR REPAIR DETAILS)

1. ONLY ONE (1) FACE OF A PILASTER SUPPORT MAY BE WORKED ON AT A TIME. IF MULTIPLE FACES OF THE PILASTER REQUIRE REPAIRS, WORK SHALL BE STAGED AS FOLLOWS. PERFORM WORK TO ONE (1) OF THE SHORTER SIDES FIRST. AFTER REPAIRS HAVE BEEN MADE AND MATERIALS HAVE FULLY CURED, WORK MAY PROCEED TO THE OTHER SHORT SIDE. THE LONGER SIDE OF THE PILASTER SHALL BE WORKED ON LAST AND MATERIALS ON THE PREVIOUS FACE(S) HAVE FULLY CURED.

EXISTING BAR SIZE	EQUIVALENT NEW BAR SIZE
½" SQ.	#5 *
¾" SQ.	#7
1" SQ.	#8
1¼" SQ.	#11

* EXCEPT STIRRUPS AND TIES WHICH SHALL BE #4

BAR LAP DIMENSIONS

BAR SIZE	LOCATION CATEGORY ##		
	A	B	C
#4	3'-2"	2'-4"	1'-10"
#5	4'-0"	2'-10"	2'-4"
#6	4'-9"	3'-5"	2'-9"
#7	5'-8"	4'-1"	3'-3"
#8	7'-6"	5'-4"	4'-4"
#9	9'-6"	6'-9"	5'-5"
#10	12'-0"	8'-7"	6'-11"
#11	14'-9"	10'-7"	8'-5"

LOCATION CATEGORY

A – BARS IN HORIZONTAL LAYERS IN TOP OF POUR WITH 12" OR MORE OF CONCRETE BELOW THEM SUCH AS IN FOOTINGS, PIER CAPS, ETC.

B – ALL BARS NOT IN CATEGORY A SPACED LESS THAN 6" APART.

C – ALL BARS NOT IN CATEGORY A SPACED 6" OR MORE APART.

	D.C.	BH-1104(013)	

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION

REHABILITATION OF
FRANCIS SCOTT KEY BRIDGE
OVER THE POTOMAC RIVER

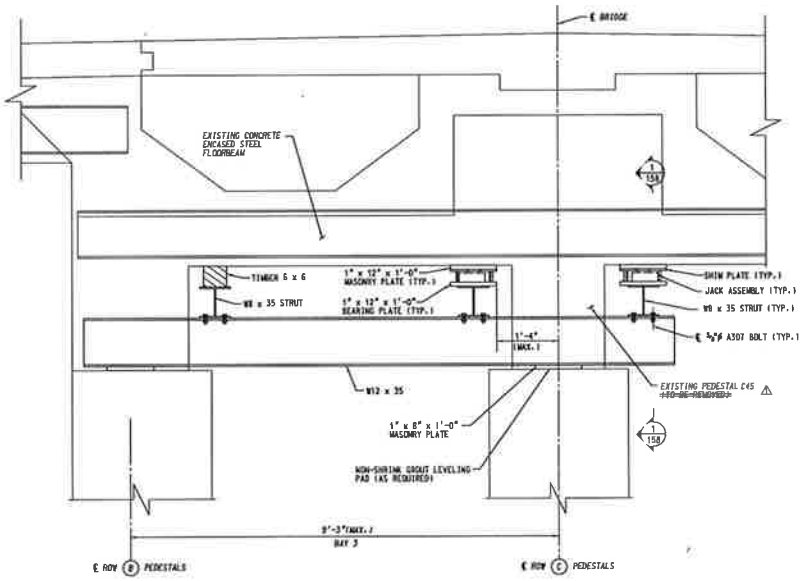
CONCRETE REPAIR NOTES

DESIGN CHIEF

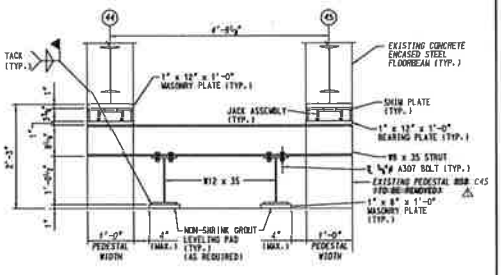
JMT
JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future

NO	DESCRIPTION	BY	DATE
1	CORRECTED NOTE 6 TEXT	FFB	12/8/15

REVISIONS



TEMPORARY SUPPORT FOR DECK PEDESTAL C45 – SPAN B
SCALE: 1" = 1'-0"



TEMPORARY SUPPORT SECTION
SCALE: 1" = 1'-0"
1/156

PEDESTAL TEMPORARY SUPPORT NOTES

1. ALL MATERIAL TO BE ASTM A36M GRADE 50 (OR BETTER). THE MATERIALS DO NOT HAVE TO BE NEW, BUT SHALL BE IN GOOD CONDITION.
2. THE SURFACE UNDER THE TEMPORARY SUPPORT BEAM SHALL BE FLAT, CLEAN AND SOUND. NON-SHRINK GROUT SHALL BE USED AS NECESSARY TO PROVIDE A LEVEL SURFACE FOR THE BEAMS AND TO REPAIR DETERIORATED CONCRETE SURFACES UNDER THE BEAM.
3. THE TEMPORARY SUPPORT SHALL BE WITHIN THE MAXIMUM DIMENSIONS SHOWN IN TEMPORARY SUPPORT DETAILS.
4. THE CONTRACTOR HAS THE OPTION TO APPLY A JACKING FORCE NOT TO EXCEED 2,000 LBS. TO ASSIST IN PROVIDING A TIGHT SUPPORT BENEATH THE FLOORBEAM. THE MINIMUM SAFE CAPACITY OF THE JACK IS TO BE 50 TONS.
5. THE JACK HYDRAULICS SHALL NOT BE USED TO SUPPORT THE LOAD DURING PEDESTAL REPAIR. SHIM PLATES SHALL BE INSERTED BETWEEN THE EXISTING FLOORBEAM AND TEMPORARY SUPPORT SYSTEM AND FIT SNUG BEFORE THE JACK CAN BE RELIEVED.
6. ONLY ONE PEDESTAL MAY BE REPAIRED AT ANY ONE TIME. THESE INCLUDE PEDESTALS ADJACENT TO EXPANSION JOINTS.
7. REFER TO THE CONCRETE REPAIR NOTES ON SHEET 132 FOR RESTRICTIONS DURING CONCRETE REMOVAL AND THE NEED FOR TEMPORARY SUPPORT.
8. THE CONTRACTOR MAY SUBMIT ANOTHER METHOD OF TEMPORARY SUPPORT TO THE ENGINEER FOR APPROVAL. THE DEFLECTION OF THE FLOORBEAM DURING PEDESTAL REPAIR SHALL NOT EXCEED $\frac{1}{8}$ INCH.
9. THE CONTRACTOR SHALL APPLY JACKING FORCES TO THE TWO JACKS IN A SEQUENCE THAT AVOIDS UPLIFT AT ROW (B) PEDESTALS.
10. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING FLOOR BEAM CONCRETE ENCASEMENT DURING JACKING AND IS RESPONSIBLE FOR REPAIRING ANY DAMAGE THAT OCCURS DURING JACKING OPERATIONS.

JMT
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NO.	DESCRIPTION	NAME	DATE
2	CORRECTED PEDESTAL NUMBER	FFB	12/8/15

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT MANAGEMENT ADMINISTRATION

REHABILITATION OF
FRANCIS SCOTT KEY BRIDGE
OVER THE POTOMAC RIVER

TEMPORARY SUPPORT FOR
DECK PEDESTALS
5 OF 7

CONTRACT ID: KA2014B0074 PROJECT(S): BH-1104(013)

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	SECTION 0001 REHABILITATION WORK					
0010	000003 Employee Training	6900.000 HR		.		.
0020	000106 Materials Special Item - LF - ITEM 716011 DECK OVERHANG STRENGTHENING (CARBON FIBER REINFORCED POLYMER REPAIR)	260.000 LF		.		.
0030	000110 Materials Special Item - SF - ITEM 716013 GLASS FIBER WRAP MATERIALS	10000.000 SF		.		.
0040	000111 Materials Special Item - SY - ITEM 716015 FIBER REINFORCED POLYMER ENCAPSULATION FOR PIER FOOTINGS	600.000 SY		.		.
0050	000505 Unassigned Special Item -DAYS - ITEM 108015 ENGINEER'S BOAT	200.000 DAYS		.		.
0060	000506 Unassigned Special Item -EACH - ITEM 613415 FURNISH & INSTALL PED/BICYCL E DETECTION LOOPS AND WARNING FLASHERS	2.000 EACH		.		.
0070	000509 Unassigned Special Item -LF - ITEM 716017 REMOVE AND RESET PERMANENT PRECAST CONCRETE TRAFFIC BARRIER	3000.000 LF		.		.

CONTRACT ID: KA2014B0074 PROJECT(S): BH-1104(013)

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0080	000514 Unassigned Special Item -SF - ITEM 604063 SECURITY FENCE (BRIDGE ACCESS DETERRENT)	3100.000 SF		.		.
0090	000515 Unassigned Special Item -SY - ITEM 716019 CLEAN PORTIONS OF THE CONCRETE BRIDGE	15000.000 SY		.		.
0100	108002 Mobilization	LUMP	LUMP			.
0110	108004 Progress Photographs	LUMP	LUMP			.
0120	108006 Record Drawings and As-Built Drawings	LUMP	LUMP			.
0130	108012 Engineer's Field Facilities	LUMP	LUMP			.
0140	604991 Miscellaneous Fencing Special Item - LF - ITEM 604061 TEMPORARY FENCE	455.000 LF		.		.
0150	608114 Tree Trimming	80.000 HR		.		.
0160	610012 Portable Precast PCC Barrier	455.000 LF		.		.

CONTRACT ID: KA2014B0074 PROJECT(S): BH-1104(013)

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0170	610993 PCC Traffic Barriers Special Item - LF - ITEM 610013 MOVE PORTABLE PRECAST PCC BARRIER	3641.000 LF		.		.
0180	612006 Construction Lane Closing	LUMP	LUMP			.
0190	612010 Temporary Construction Sign Supports	46.000 EACH		.		.
0200	612014 Construction Warning and Detour Signs	725.000 SF		.		.
0210	612016 Reflectorized Traffic Cones	175.000 EACH		.		.
0220	612018 Flashing Amber Warning Lights, Type "B"	50.000 EACH		.		.
0230	612020 Steady Burning Amber Warning Lights, Type "C"	50.000 EACH		.		.
0240	612026 Construction Sign Warning Flags	8.000 EACH		.		.
0250	612028 Type III PVC Barricade	2.000 EACH		.		.
0260	612034 Traffic Drums	175.000 EACH		.		.

CONTRACT ID: KA2014B0074 PROJECT(S): BH-1104(013)

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0270	612098 Sand-Filled Impact Attenuator Module	10.000 EACH		.		.
0280	612104 Steel Protection Plate	10.000 EACH		.		.
0290	612106 Repair of Damaged Major Traffic Control Devices	LUMP	LUMP		50000.00	
0300	612110 Preformed Pavement Markings, Lines	10750.000 LF		.		.
0310	612993 Traffic Control Special Item - EACH - 612112 PREFORMED PAVEMENT MARKINGS, SYMBOLS AND LETTERS	15.000 EACH		.		.
0320	613098 F&I 7 Conductor 14 Awg Stranded Electrical Traffic Sig Cable	480.000 LF		.		.
0330	613156 Furnish Yellow Ball Led Module (12 inch)	2.000 EACH		.		.
0340	614488 F&I #16 Cast Iron Pole	66.000 EACH		.		.
0350	614494 Remove #16 Cast Iron Street Light Pole	66.000 EACH		.		.
0360	614808 F&I Fixture, Any Type	66.000 EACH		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0370	614999 Payment to PEPCO for Connection, Disconnection, Inspection PAYMENT TO POWER COMPANY	LUMP	LUMP		85000.00	
0380	616042 Federal Aid Project Sign	2.000 EACH	.		.	
0390	616993 Traffic Signing Special Item - SF - ITEM 616023 TRAFFIC SIGN PANELS	7.000 SF	.		.	
0400	619002 Anti-Graffiti Coating	25000.000 SF	.		.	
0410	703991 Concrete for Structures Special Item - CY - ITEM 703023 UNDERPIN ROSSYLN APPROACH STRUCTURE END DIAPHRAGM	12.000 CY	.		.	
0420	703991 Concrete for Structures Special Item - CY - ITEM 703025 REPLACE CONCRETE DECK PEDESTALS	15.000 CY	.		.	
0430	703991 Concrete for Structures Special Item - CY - ITEM 703027 PCC END POST (NORTH APPROACH	1.000 CY	.		.	
0440	703991 Concrete for Structures Special Item - CY - ITEM 703029 REPLACE PORTIONS OF CONCRETE UTILITY GALLERY FLOOR SLAB	15.000 CY	.		.	

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0450	704002 Reinforcing Steel	10000.000 LBS		.		.
0460	706995 Structural Steel Special Item - LS - ITEM 706023 STEEL ACCESS LADDERS AT NORTH AND SOUTH ABUTMENTS	LUMP	LUMP			.
0470	706995 Structural Steel Special Item - LS - ITEM 706025 REHAB. SUPPORTS FOR 30 INCH WATER MAIN ON BRIDGE (WASH. AQUEDUCT)	LUMP	LUMP			.
0480	707991 Painting Special Item - LS - ITEM 707011 PAINT EXISTING FLOOR BEAM ENDS	LUMP	LUMP			.
0490	707991 Painting Special Item - LS - ITEM 707013 PAINT EXISTING PEDESTRIAN RAILING	LUMP	LUMP			.
0500	710991 Bridge Deck Drain System Special Item - LS - ITEM 710003 BRIDGE DECK DRAINAGE SYSTEM	LUMP	LUMP			.
0510	714004 Latex-Modified Concrete Overlay APPROACH SLAB	90.000 SY		.		.
0520	714991 Bridge Deck Concrete Overlays Special Item - SY - ITEM 714007 HIGH MOLECULAR WEIGHT METHACRYLATE OVERLAY (RIGHT LANES ONLY)	4400.000 SY		.		.

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0530	716004 Repair Type 1 -Concrete Repair REPAIR-REPLACE PCC STRUCTURE	23850.000 SF		.		.
0540	716006 Repair Type 2 - Concrete Patch REPAIR-REPLACE PCC STRUCTURE	16701.000 SF		.		.
0550	716008 Repair Type 3 - Crack Repair REPAIR-REPLACE PCC STRUCTURE	2150.000 LF		.		.
0560	717991 Armored Joint with Neoprene Strip Seal Special Item - LF - ITEM 717003 REPLACE ARMORED BRIDGE DECK EXPANSION JOINT SEALS	1673.000 LF		.		.
0570	718991 Neoprene Compression Seal Special Item - LF - ITEM 718003 REPLACE NON-ARMORED BRIDGE DECK EXPANSION JOINT SEALS	2397.000 LF		.		.
0580	720002 Protection Shield	LUMP	LUMP			.
	SECTION 0001 TOTAL					.
	TOTAL BID					.