

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. Contract Number	Page of Pages 1 36	
2. Amendment/Modification Number 3		3. Effective Date See Block 16c	4. Requisition/Purchase Request No.	5. Solicitation Caption: Rehab. Of Three Bridges over the C&O Canal	
6. Issued By: District Department of Transportation Construction Contract Branch 2000 14th Street, NW, 6th Floor Washington, DC 20009		Code	7. Administered By (If other than line 6) Procurement Support Branch 2000 14th Street, NW, 3rd Floor, Bid Room Washington, DC 20009		
8. Name and Address of Contractor (No. Street, city, country, state and ZIP Code)			(X)	9A. Amendment of Solicitation No. DCKA-2008-B-0022	
				9B. Dated (See Item 11) 9/9/2008	
				10A. Modification of Contract/Order No.	
				10B. Dated (See Item 13)	
Code		Facility			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
X	The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input checked="" type="checkbox"/> 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 ACKNOWLEDGEMENT 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 change 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 CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14					
	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.				
	B. The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, 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 <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. Description of amendment/modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.) The current bid opening date of October 22, 2008 is not extended The purpose of this Amendment is to address the following: 1. Respond to questions from prospective bidders (5 pages) 2. Revise Appendix E (12 pages) 3. Delete pages 9 and 10 of the Pay Item Schedule and Replace with pages 9R and 10R attached 4. Bid Forms and Proposal -Delete page 22 (Tax Certification Affidavit) and Replace with pages 22R and 22A (Revised Tax Certification Affidavit) attached 5. Update the Wage Decision (11 pages attached) 6. Revise Sheet Plan 5 with 5R (1 page attached) 7. Delete Specification page 82 and Replace with specification page 82R attached (1 page attached) This amendment No. 3 consists of this page and 35 pages attached hereto NO ADDITIONAL QUESTIONS WILL BE ACCEPTED PER ISSUANCE OF THIS AMENDMENT.					
Except as provided herein, all terms and conditions of the document 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 Jerry M. Carter		
15B. Name of Contractor		15C. Date Signed	16B. District of Columbia		16C. Date Signed 10/14/2008
(Signature of person authorized to sign)			(Signature of Contracting Officer)		

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2008B0022

PROJECT(S): STP-8888 (285)

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0780	616994 Traffic Control Special Item - LF - REMOVABLE PREFORMED PAVEMENT MARKING TAP E, 4 INCH 616075	LF 3120.000	.		.	
0790	616994 Traffic Control Special Item - LF - REMOVABLE PREFORMED PAVEMENT MARKING TAP E, 6 INCH 616077	LF 420.000	.		.	
0800	617068 Furnish Red Ball Led Module	EACH 3.000	.		.	
0810	617070 Furnish Yellow Ball Led Module	EACH 3.000	.		.	
0820	617072 Furnish Green Ball Led Module	EACH 3.000	.		.	
0830	617090 Furnish And Install 3 Section Conventional Traffic Signal He ad On A Pole (All Lenses 12?)	EACH 3.000	.		.	
0840	618502 Furnish and Install #18 Cast Iron pole	EACH 6.000	.		.	
0850	618508 Remove #18 Cast Iron Street Light Pole	EACH 6.000	.		.	
0860	618802 Furnish and Install 250 Watt HPS Conversion Kit	EACH 6.000	.		.	

SCHEDULE OF ITEMS

DATE:
REVISED:

CONTRACT ID: KA2008B0022

PROJECT(S): STP-8888 (285)

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0870	618842 Furnish and Install Glare Shield for Conversion Kit	6.000 EACH	.		.	
0880	618860 Furnish and Install 118 Plastic Globe	6.000 EACH	.		.	
0890	618999 Payment to PEPCO for Connection, Disconnection, Inspection SERVICES	LUMP	LUMP		6000.00	
0900	620014 Traffic Sign Panels	137.000 SF	.		.	
0910	620022 METAL SIGN POST	216.000 LF	.		.	
0920	620032 Remove Existing Ground Mounted Sign	62.000 SF	.		.	
0930	620040 Federal Aid Project Sign	2.000 EACH	.		.	
0940	620993 Traffic Signing Special Item - EACH - REMOVE, STORE AND REINSTALL EXISTING SIGNS AND POSTS 620037	23.000 EACH	.		.	
0950	624002 Engineer's Field Facilities	LUMP	LUMP		.	
0960	625002 Field Layout	LUMP	LUMP		.	

DCKA-2008-B-0022
Rehabilitation of Three Bridges over the C&O Canal
Thomas Jefferson Street Bridge (Br. No. 4)
30th Street Bridge (Br. No. 5)
29th Street Bridge (Br. No. 6)

Questions and Responses

QUESTION: (Item 0030 / 617-131) (Remove) 3-Sect Convent Traffic Sig Hd (3 Each)
The only traffic signal work contract drawing (sht 99) does not indicate removal of any existing traffic signal heads. Where is this work shown on the contract drawing?

RESPONSE: Item No. 617 131 is for removal of the three temporary conventional traffic signal heads at the M Street/30th Street intersection. These signal heads are temporary installations to account for the change in directional traffic required through this intersection while the 30th Street Bridge is under construction. Refer to Page 25 of the Specifications booklet for Item H (Temporary Traffic Signal Installations and Modifications) under Special Provision Number 34 (Maintenance of Traffic) for more information on this item. The Contractor should also refer to Installation Note 3 on Plan Sheet 99, which addresses this issue.

QUESTION: (Item 0840 / 618-502) Furnish & Install #18 Cast Iron Street Light Pole (3 Each)

(Spec Sect 53.A, pg 50) Suggests that the foundations for these poles may be modified to match the new grade, and if so the anchor bolts will be extended. There are no contract drawing details showing these foundation modifications. Could these details be provided?

RESPONSE: The Special Provision for 618.28 addresses any potential grade changes on the plans during construction. It states that incidental work may include extension of anchor bolts, additional concrete, etc. We suggest that the final grading be established before any changes to existing anchor bolts, additional concrete, etc. are considered. The Special Provision merely covers the need to make slight modifications to the existing light pole foundations in the event that they are not flush with the grade of the surface they are on. No detail beyond the standard detail is being provided.

QUESTION: (Item 0840 / 618-502) Furnish & Install #18 Cast Iron Street Light Pole (3 Each)

The contract drawings (shts 17, 36, & 55) show that two light poles are to be replaced at each bridge for a total of six. Should this bid item be changed to that quantity?

RESPONSE: Yes, a total of six (6) light poles should be accounted for in the estimate; two at each bridge. As a result of this quantity change, the quantity for Item 618 508 (Remove #18 Cast Iron Street Light Pole) should also be revised to six (6).

QUESTION: (Item 0860 / 618-754) Furnish & Install 250Watt HPS Cutoff Luminaire (3 Each)

If these luminaires are intended for installation on the #18 Cast Iron Street Light Pole, it would seem that this is the wrong fixture for those poles. Could you confirm that the intended use is for the #18 Poles?

RESPONSE: The intent of the lighting design on this project is to attempt to replace the existing luminaries, poles, fixtures, etc. in-kind. Item 618 754 will be replaced with Item 618 802 (Furnish and Install 250 Watt HPS Conversion Kit). The quantity will be six (6). In addition, Item 618 834 will be replaced with Item 618 842 (Furnish and Install Glare Shield for Conversion Kit). The quantity will be six (6).

QUESTION: (Item 0870 / 618-820) Furnish & Install Fixture, Any Type (3 Each)
There is no information in the contract documents identifying specifications for the different models of fixtures being considered for this project. Could the designer identify what they have in mind for this bid item?

RESPONSE: Item 618 820 will be replaced with Item 618 860 (Furnish and Install 118 Plastic Globe). The quantity will be six (6).

QUESTIONS: Thomas Jefferson Bridge; Pile Plan-Micro-pile Details

- a) Bottom of Jet-grouted column shows el. 15 ft. This elevation level according to boring information provided will be in rock. Will that be el. 24.5 ft at North Abutment and 27.0 ft at South Abutment? Please confirm.

RESPONSE: The bottom of grout column construction is intended to terminate at least 5 feet below bottom of Canal bed if possible. If rock is encountered above this elevation that precludes the installation of grout columns to the as planned bottom elevation, it will be considered satisfactory. Therefore, at the Thomas Jefferson St. Bridge, you may encounter rock at elevations 24.0 and 27.0 as indicated on the borings.

- b) If the above is true, the estimated 'A' for steel casing length will have to be revised accordingly.

RESPONSE: That is true. The quality of rock stratum is uncertain. The length of steel casing may be consistent with the above elevations or you may need to core slightly into the rock layer to ensure you have a good bearing surface for the casing.

QUESTIONS: 30th St. Bridge

- a) The Ground surface el. for boring B-1 and B-2 were missing. We assumed el. 31.5' and 32.5' for B-1 and B-2 respectively, please confirm.

RESPONSE: Your assumed elevations are adequate.

- b) For micro-pile details, please confirm the bottom of jet-grouted column at el. 7.5'. It appears that this elevation is in the Fill layer as shown in borings.

RESPONSE: The bottom of grout column construction is intended to terminate at least 5 feet below bottom of Canal bed if possible. At this bridge location the grout column termination point will most likely be in a soil layer.

- c) Rock surfaces were not encountered in either of the borings such that we do not know exactly where the rock surface will be. However, the med. dense and very

dense Sand layer underneath the Fill material can be used as bearing stratum to support the piles. Please confirm.

RESPONSE: True, the rock layer was not identified in the borings however it is expected that at the boring termination level a very hard stratum was encountered. You must achieve or exceed the minimum depths indicated for the micropiles. You are cautioned that the micropiles must satisfy the tensile and compressive load tests for acceptance.

QUESTIONS: 29th St. Bridge

- a) The drawing shows bottom of jet-grouted columns to be at el. 0'; this can be true for North Abutment but not for South Abutment according to boring B-1 on this bridge. Please confirm.

RESPONSE: The bottom of grout column construction is intended to terminate at least 5 feet below bottom of Canal bed if possible. If rock is encountered above this elevation that precludes the installation of grout columns to the as planned bottom elevation, it will be considered satisfactory. Therefore, at the 29th St. Bridge, you may encounter rock at a higher elevation at the South Abutment as indicated on the borings.

- b) According to the borings; top of rock is at el. 12.8' at South Abutment and el. 1.0' at North Abutment. Please confirm this information.

RESPONSE: Your stated elevations for the expected top of rock layer are correct.

- c) Please confirm the est. 'A', steel casing lengths.

RESPONSE: The estimated lengths of steel casing are correct.

QUESTION: Any strength requirements for the jet-grouted columns?

RESPONSE: Page 80 of the Special Provisions, Paragraph 4 indicates the minimum grout column 28-day unconfined compressive strength is 1,000 psi.

QUESTION: On Typical Wall Details drawing, sheet #82- there are jet-grouted columns behind the stone masonry walls for the three bridges. Are these jet-grouted columns in addition to the above jet-grouted column/micro-piles set up or they referred to the same items? If they are an additional quantity, then what are the jet-grouted column lengths?

RESPONSE: No these are not additional jet grout columns. These are the same foundation jet grout columns under the proposed abutment foundations.

QUESTION: For item 626 007, Temporary Dry Dock, is it permissible that the contractor utilize the lock gates west of the Thomas Jefferson Bridge (in the same method as the canal tour) to raise the water level for accessing this area for the temporary dry dock installation. If this is not allowed may the contractor assume that crane access to the canal will be allowed from the 31st St. Bridge?

RESPONSE: Between November 11 and March 15 the canal boat does not run. At this time NPS lower the water level approximately 25%. NPS have the ability to completely de-water or completely fill given there is no ice and have at least two weeks notice. Typically NPS refrain from completely de-watering until after the holiday season at the request of the Georgetown community. NPS deliberately de-water the canal in early March for a canal clean up. The existing historic canal lock gates can be utilized to control the water level during construction. However, this is the property of the National Park Service and all work in, on, or around their property or facilities must be coordinated with them and obtain their approval prior to this work commencing.

QUESTION: What is in the chemical grout material Item 703 017?

RESPONSE: The specification utilized for the Chemical Grout Item (703 017) is performance specification. The contractor is to develop the grout formulation to develop a mixture to achieve a 50 psi strength. The chemical material used in the grout must be a sodium silicate. Polyurethane based grout is not allowed. This is indicated on page 81 of the special provisions. Therefore, the contractor is to develop the mix utilizing a sodium silicate based grout to achieve the desired strength. The NPS requires a “weak” bond grout in case future maintenance of the historic canal walls requires stone removal. A weak bonding grout will allow easier stone removal.

QUESTION: At the location of the new temporary dry dock what are the sub grade or bottom of the canal conditions?

RESPONSE: The canal bottom in the location of the dry dock is more than likely bedrock covered by silt. However we do not have geotechnical information for that exact area.

QUESTION: The existing dry dock for the canal boat is located on a concrete slab. Is a concrete foundation being required for the temporary dry dock?

RESPONSE: The dry dock design and support is up to the contractor to provide all as indicated on Pages 52 & 53 of the Specifications Booklet.

QUESTION: Will a detail be issued for the temporary dry dock?

RESPONSE: No, this is a contractor designed temporary element.

QUESTION: How will the area of the new temporary dry dock be dewatered?

RESPONSE: NPS permission and authorization is required if there lock facilities are proposed for this purpose. See the response at the top of this page.

QUESTION: Bid Item 0080 Contaminated Water Disposal is a lump sum item. Our environmental subcontractor will not price without a quantity, can a quantity be established?

RESPONSE: This item, along with other Contaminated Material Management Requirements, were placed in the project based on the soil boring logs material description at the 30th Street Bridge location as having a “hydrocarbon odor”. A quantity cannot be established for this item. The amount of potential contaminated water disposal

from contractor operations and existing ground water are unknown. This item may not be necessary and won't be determined until on site water tests are performed as part of your Subsurface Exploration as indicated on page 33 of the Specifications Booklet.

QUESTION: Bid Item 1000 Temporary Pedestrian Bridge. Are there additional detail available?

RESPONSE: No, the design criteria are indicated in the Specifications Booklet page 52. The temporary pedestrian bridge design and support is up to the contractor to provide.

QUESTION:The plans call for 4 ft. diameter jet grout columns to be installed to rock. This is not possible in weathered rock or rock. The diameter of the jet grout columns will decrease in the weathered rock and rock. Will smaller diameter jet grout columns be allowed?

RESPONSE: Yes smaller grout column diameters may be allowed. However the total plan area of grout columns as shown on the foundation plans must be achieved for support of the new abutment pedestals.

QUESTION: The sequence of operations is unclear. The specifications state that the jet grouting follows the chemical grouting while the plans state the opposite. Which is correct or does it matter?

RESPONSE: The correct order of operations is for the grout columns to be constructed first then the chemical grout as indicated on the plans, Sheet 82. The Special Provision is revised accordingly.

QUESTION::Struts need to be installed in the C&O canal prior to bridge removal. Details are needed as to the struts design. Will design be issued?

RESPONSE: No, this is a contractor designed temporary element.

C. Considering the chemistry of the gel and the conditions known at the site, the chemical system used shall produce a stable gel. The chemical system used shall stabilize soil, stones, and the wall to permit partial open-cut excavation for abutment construction.

D. The chemicals used shall be so proportioned and mixed as to produce a chemical grout that contains no solids in suspension, may be pumped without difficulty, will penetrate and fill the voids in the soil mass, and will form a gel of the required strength and stability.

E. Chemicals mixed into primary solutions before final batching may be held only in accordance with the manufacturer's recommendations and must not be injected if limiting factors imposed by the manufacturer are exceeded. Any solutions not to be used for injection shall be immediately disposed of to the satisfaction of the Engineer. The chemical grouting system shall not be detrimental to the environment. The injected solution and its components shall be nontoxic.

CONSTRUCTION REQUIREMENTS

Submittals

The following shall be submitted to the Engineer for approval. Approval must be received by the Contractor prior to chemical grout operations commencing.

1. Complete information (catalog data) of the chemical grout substantiating its suitability for the type of soil to which it shall be applied.
2. Detailed sketches of intended injection techniques and patterns, including necessary data to prove that the chemicals proposed will meet in all respects the requirements as to properties and qualities required by these Specifications.
3. Test data substantiating the adequacy of the grout from a certified testing laboratory.
4. Documentation substantiating that the company to perform the soil stabilization and its personnel has the appropriate qualifications. Submit evidence of at least three similar projects recently completed with the owners contact information.

Mixing.

A. All materials shall be accurately measured by weight or volume for mixing in compliance with the manufacturer's recommendations. If a variable proportioning pump system is used, positive controls shall be incorporated to ensure accurate proportioning. Care shall be taken not to contaminate mixing vessels with reactive chemicals by spillage, splash, etc.

B. Quality of the grout mix shall be checked by means of taking a test sample from every injection batch and checking its viscosity, setting (gelation) time and decantation. The Contractor shall keep records of test results. These data shall be submitted to the Engineer on a daily basis.

C. If any sample fails to show the proper gelation, the potential area of failure shall be reinjected to achieve the indicated stabilization. The Contractor shall notify the Engineer of such instances of failure including the methods used for correction.

Government of the District of Columbia
Department of Transportation
Office of Contracting and Procurement
2000-14th Street, N.W. 6th Floor
Washington, D.C. 20009

AMENDMENT No. 3 ISSUED October 14, 2008 35 pages

Invitation No. DCKA-2008-B-0022

Federal Aid Project No.: STP-8888(285)

Title: Rehabilitation of Three Bridges over the C&O Canal Thomas Jefferson Street Bridge (Br. No. 4), 30th Street Bridge (Br. No. 5) and 29th Street Bridge (Br. No. 6)

BIDDERS shall acknowledge receipt of this **amendment** on official Bid Form. Failure to do so may result in rejection of your bid.

CURRENT BID OPENING DATE: October 22, 2008

BIDDERS are informed that the above named project is modified as follows:

QUESTIONS AND RESPONSES

Attached are the responses to questions raised by prospective bidders. (5 pages attached as part of this amendment)

SPECIFICATIONS

DELETE page 82 in its entirety and **REPLACE** with page 82R (1 page attached as part of this amendment)

SPECIFICATIONS-APPENDICES (Appendix E)

Appendix E, **DELETE** Appendix E in its entirety and **REPLACE** with new attached Appendix E – Installation Guide for FRP Deck Panels on Vehicle Bridges, 29th Street Bridge, Washington DC dated September 2008 Sheets 1 - 12. (12 pages attached as part of this amendment)

SPECIFICATIONS-APPENDICES (General Wage Decision)

DELETE General Wage Decision DC080001 Modification Number 8 dated 7/25/2008 and **REPLACE** with General Wage Decision DC080001 Modification Number 12 dated 9/19/2008 (11 pages attached as part of this amendment)

BID FORMS AND PROPOSALS

DELETE Pay Item pages 9 and 10 in their entirety and **REPLACE** with Pay Item pages 9R and 10 (2 pages attached as part of this amendment)

DELETE page 22 Tax Certification Affidavit in its entirety and **REPLACE** with pages 22R and 22A (2 pages attached as part of this amendment)

PLANS

REPLACE, Sheet No. 5 with page Sheet No. 5R

GENERAL DECISION: DC20080001 09/19/2008 DC1

Date: September 19, 2008

General Decision Number: DC20080001 09/19/2008

Superseded General Decision Number: DC20070001

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

Modification Number	Publication Date
0	02/08/2008
1	04/18/2008
2	05/02/2008
3	05/09/2008
4	05/30/2008
5	06/06/2008
6	07/04/2008
7	07/18/2008
8	07/25/2008
9	08/15/2008
10	09/05/2008
11	09/12/2008
12	09/19/2008

ASBE0024-001 10/01/2007

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.....

\$ 27.88 13.88

ASBE0024-002 10/01/2007

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.....

\$ 17.95 6.50

ASBE0024-005 10/01/2007

Rates Fringes

Fire Stop Technician.....\$ 22.95

6.39

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 passage 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 10/01/2007

	Rates	Fringes
Boilermakers:.....	\$ 32.06	16.46

BRDC0001-001 05/04/2008

	Rates	Fringes
Bricklayer.....	\$ 26.20	6.77

CARP0132-001 05/01/2008

	Rates	Fringes
Carpenter/Lather.....	\$ 25.37	6.55
Piledriver.....	\$ 23.87	7.10

CARP0132-003 05/01/2008

	Rates	Fringes
Diver Tender.....	\$ 25.87	7.10
Diver.....	\$ 38.73	6.55

CARP1831-001 04/01/2008

	Rates	Fringes
Carpenters: Millwrights.....	\$ 28.70	5.59

ELEC0026-001 06/02/2008

	Rates	Fringes
Electricians.....	\$ 35.55	11.42+a

a. PAID HOLIDAYS: New Year's Day, Martin Luther King Jr.'s Birthday, Inauguration Day, Memorial Day, Fourth of July, Labor Day, Veterans Day, Thanksgiving Day, the day after Thanksgiving and Christmas Day or days designated as legal holidays by the Federal Government.

ELEC0026-008 07/01/2003

	Rates	Fringes
Motor Repairmen Removal and reinstallation of electrical motors.....	\$ 23.69	7.73+3%+a

a. PAID HOLIDAYS:
New Year's Day, Martin Luther King Jr.'s Birthday, Inauguration Day, Memorial Day, Fourth of July, Labor Day,

Veterans Day, Thanksgiving Day, the day after Thanksgiving and Christmas Day or days designated as legal holidays by the Federal Government.

 ELEC0070-001 09/02/2007

	Rates	Fringes
Line Construction:		
Cable Splicers.....	\$ 30.29	19.75%+4.81
Equipment Mechanic.....	\$ 21.82	19.75%+4.81
Equipment Operators.....	\$ 25.78	19.75%+4.81
Groundman/Truck Driver.....	\$ 15.34	19.75%+4.81
Line Truck with Auger.....	\$ 20.09	19.75%+4.81
Linemen.....	\$ 28.86	19.75%+4.81

 ENGI0077-001 05/01/2008

	Rates	Fringes
Power equipment operators: (HEAVY AND HIGHWAY CONSTRUCTION)		
GROUP 1.....	\$ 29.74	7.17+a
GROUP 2.....	\$ 28.74	7.17+a
GROUP 3.....	\$ 28.28	7.17+a
GROUP 4.....	\$ 27.57	7.17+a
GROUP 5.....	\$ 25.54	7.17+a
GROUP 6.....	\$ 21.00	7.17+a
GROUP 7.....	\$ 30.11	7.17+a

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

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

GROUP 2: 35 ton cranes & above, tower & climbing cranes, derricks, concrete boom pump, drill rigs (equivalent to L & Double L), mole.

GROUP 3: Backhoes, cableways, cranes, cherry pickers, elevating graders, hoists, paving mixers, power shovels, tunnel shovels. batch plants, shields, tunnel mining machines, gradalls, front end loaders, 3 1/2 cu. yds. and above, power driven wheel scoops and scrapers (50 cu. yds. struck capacity or above), rail tamper, draglines, boomcat, mucking machines, graders in tunnels, pile driving engines.

GROUP 4: Front end loaders below 3 1/2 cu. yds, boom trucks, hydraulic backhoes 1/2 yds. capacity or below rubber or track mounted, tug boats, power driven wheel scoops & scrapers, blade graders, motor graders, bulldozers, trenching machines, concrete mixer, speed swing pettibone, ballast regulator, concrete pump, mechanic, welder, mechanic welder, shotcrete machines, Hoeram, locomotive (standard, narrow gauge), tuggers.

GROUP 5: High lifts above 10 feet, boilers (skelton), asphalt spreaders, bullfloat finishing machines, concrete finishing machines, concrete spreaders, fine graders, air compressors, welding machines, pumps, generators, well points, deep wells, hydraulic pumps, elevators, freeze uniits, tunnel motorman or dinky operator, roller, conveyors, well drilling machines, grout pump, fireman.

GROUP 6: Fork lifts, ditch witch, bobcat 1/3 cu. yd. and

below, space heaters, sweepers, assistant engineers, oilers.

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 06/01/2008

	Rates	Fringes
Power equipment operators: (PAVING AND INCIDENTAL GRADING)		
GROUP 1.....	\$ 23.75	5.75
GROUP 2.....	\$ 20.80	5.75
GROUP 3.....	\$ 17.84	5.75
GROUP 4.....	\$ 16.35	5.75
GROUP 5.....	\$ 24.26	5.55

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 07/01/2008

	Rates	Fringes
Power equipment operators: (SEWER, GAS AND WATER LINE CONSTRUCTION)		
GROUP 1.....	\$ 21.58	5.62+a
GROUP 2.....	\$ 21.18	5.62+a
GROUP 3.....	\$ 20.67	5.62+a
GROUP 4.....	\$ 20.35	5.62+a
GROUP 5.....	\$ 19.53	5.62+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 06/01/2008

Rates Fringes

Ironworkers:

Structural, Ornamental and Chain Link Fence.....\$ 27.83 12.595

IRON0201-001 05/01/2008

Rates Fringes

Ironworkers:

Reinforcing.....\$ 26.15 12.08

LABO0657-003 06/01/2008

Rates Fringes

Laborers: (HEAVY AND HIGHWAY AND SEWER & WATER LINES CONSTRUCTION)

GROUP 1.....\$ 20.42 4.68
GROUP 2.....\$ 20.72 4.68
GROUP 3.....\$ 20.88 4.68
GROUP 4.....\$ 21.04 4.68
GROUP 5.....\$ 21.47 4.68
GROUP 6.....\$ 22.01 4.68
GROUP 7.....\$ 22.53 4.68
GROUP 8.....\$ 23.23 4.68

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 buckler 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 equ, 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 nozzlelemen 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 06/01/2008

	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.....	\$ 16.93	4.68
Skilled Toxic and Hazardous Waste Removal Laborers.....	\$ 19.80	4.68

LABO0657-005 06/01/2008

	Rates	Fringes
Laborers: (TUNNEL, RAISE & SHAFT (FREE AIR) FOR HEAVY AND SEWER & WATER LINES CONSTRUCTION)		
GROUP 1.....	\$ 21.11	4.68
GROUP 2.....	\$ 21.74	4.68
GROUP 3.....	\$ 23.34	4.68
GROUP 4.....	\$ 24.02	4.68

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 06/01/2008

Rates Fringes

Laborers: (TUNNEL, RAISE AND
SHAFT (COMPRESSED AIR) FOR
HEAVY CONSTRUCTION ONLY

Gauge Pressure Work Period
(Pounds) (Hours)

1-14	7.....	\$ 26.39	4.68
14-18	6.....	\$ 31.05	4.68

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 06/01/2007

Rates Fringes

Laborers: (PAVING AND
INCIDENTAL GRADING)

Asphalt Raker & Concrete			
Saw Operator.....	\$ 17.14		4.30
Asphalt Shoveler.....	\$ 16.59		4.30
Asphalt Tammer & Concrete			
Shoveler.....	\$ 16.84		4.30
Jack Hammer.....	\$ 17.03		4.30
Laborer.....	\$ 16.48		4.30
Sand Setter & Form Setter...	\$ 17.76		4.30

LABO0657-008 06/01/2008

Rates Fringes

LABORERS (BRICK MASONRY WORK)

Mason Tenders.....	\$ 14.65		4.68
Scaffold Builders, Mortarmen and Small Equipment Operators.....	\$ 15.45		4.68

MARB0002-003 05/01/2008

Rates Fringes

Marble & Stone Mason
Includes Pointing,
Caulking and Cleaning of
All Types of Masonry,
Brick, Stone and Cement
Structures.....

	\$ 32.00		12.07
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MARB0003-001 05/01/2008

Rates Fringes

Mosaic & Terrazzo Worker,
Tile Layer

Marble Mason and Tile Layer..	\$ 25.01		8.82
Terrazzo Worker.....	\$ 25.76		8.82

MARB0003-004 05/01/2008

Rates Fringes

Marble, Tile & Terrazzo
Finisher.....

	\$ 20.15		7.97
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PAIN0051-001 06/01/2008

	Rates	Fringes
Painters:		
All Industrial Work.....	\$ 25.73	7.56
Bridges, Heavy Highway, Lead Abatement and Flame/Thermal Spray.....	\$ 29.12	7.56
Commercial and Mold Remediation, Painters, Wallcovers and Drywall Finishers.....	\$ 24.31	7.56
Metal Polishing and Refinishing.....	\$ 25.31	7.56

* PLAS0891-001 05/01/2008

	Rates	Fringes
Cement Masons:		
HEAVY CONSTRUCTION ONLY.....	\$ 27.15	6.47

PLAS0891-002 06/01/2007

	Rates	Fringes
Cement Masons: (PAVING & INCIDENTAL GRADING)		
Cement Masons.....	\$ 17.35	4.35
Concrete Saw Operators.....	\$ 17.35	4.35
Form Setters.....	\$ 17.35	4.35

PLUM0005-001 08/01/2008

	Rates	Fringes
Plumbers.....	\$ 36.24	13.37+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.

PLUM0602-005 08/01/2008

	Rates	Fringes
Steamfitter, Refrigeration & Air Conditioning Mechanic.....	\$ 35.12	14.47+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 07/01/2008

	Rates	Fringes
Sheet Metal Worker.....	\$ 33.04	12.12

TEAM0639-001 03/07/2004

	Rates	Fringes
--	-------	---------

Truck drivers: (HEAVY & HIGHWAY CONSTRUCTION)

Tandem & Triaxle (3 or more axles, including steering axle).....	\$ 16.00	5.82+a
Tractor-trailer, Low Boy....	\$ 20.00	5.82+a

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

TEAM0639-002 06/01/2005

Rates Fringes

Truck drivers: (HEAVY & HIGHWAY CONSTRUCTION)

Concrete Mixer Drivers.....	\$ 17.40	5.82+a+b
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a. PAID HOLIDAYS: New Year's Day, Martin Luther King, Jr. Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day, or any day celebrated publicly in the District of Columbia as one of the above holidays.

b. PAID VACATIONS: Employees with one (1) year of service shall be entitled to a vacation of one (1) week; five (3) years of service are entitled to two (2) weeks; fifteen(10) years of service are entitled to three 3 weeks; twenty (20) years of service are entitled to four (4) weeks.

TEAM0639-005 09/01/2006

Rates Fringes

Truck drivers: (PAVING & INCIDENTAL GRADING)

All paving projects where the grading is incidental to the paving.....	\$ 14.05	3.69
--	----------	------

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

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)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

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.

=====

END OF GENERAL DECISION



Installation Guide for FRP Deck Panels on Vehicle Bridges 29th Street Bridge, Washington, DC



Composite Advantage
401 Kiser Street
Dayton, Ohio 45404
937-723-9031

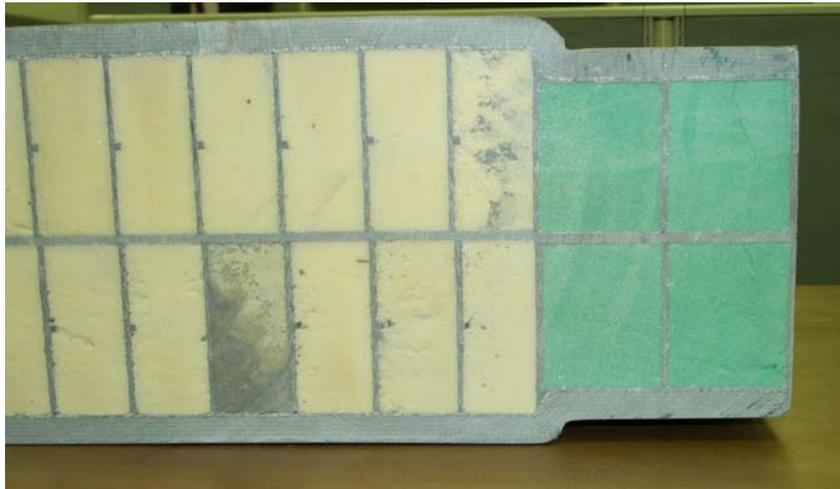
September 2008

Introduction

This document is a guide illustrating the major tasks for installation of the FRP (Fiber Reinforced Polymer) bridge deck from Composite Advantage (CA). This is meant to be used as a tool to familiarize the reader with the product. There are specific project requirements in the contract plans and specifications that may alter the installation approach and methods. CA will work with the contractor as much as possible to customize the installation procedure to accommodate the desired work plan/sequence.

1. Deck Panel Configuration

The deck panel is a sandwich construction consisting of thick top and bottom skins with an internal grid work of shear webs. The foam is not a structural part of the deck; it provides shape during the molding process. The deck is pigmented gray. The long edges of the deck panel have a step-down on the top and bottom skins to accommodate the splice plate that is bonded to adjoining panels. The panels will be delivered with the lower splice plates already bonded in place.



There are holes in the deck panels to connect the deck to beams. The holes are five inch deep down to the bottom skin. There is a three inch hole through the bottom skin.



2. Unload panels

The panels will arrive on flatbed truck. Site handling and erections shall be performed with acceptable equipment and methods and by qualified personnel. The panels shall be lifted and supported during stockpiling and erection operations only at the lifting or supporting points and with adequate lifting devices. For unloading the panels, straps can be put through the core holes. Typically two conventional 3” wide flat nylon slings (one each side of the centerline) are fed into a central hook. The contractor is responsible for supplying the slings. (For the 29th Street bridge, the core holes cannot be used for placing the panels on the bridge.)

The panels shall be kept flat and true to prevent warping or twisting of the panels during lifting and storing. The panels shall not be turned or placed on their sides or with the top surface down. Lifting of the panels from one edge is not permitted. All panels shall be stored off of the ground and protected with covers that are preferably impervious to weather. The main purpose of the cover is to keep the attachment areas (core holes, long edges) of the panels clean and dry prior to installation. Stacked panels shall be supported on unyielding supports and shall be separated by battens (use the ones on the truck with the panels) across the full width of each panel. Panels should be stacked as close to the beginning of the bridge as possible and shall have a minimum four foot clearance (level ground) on each side of the stack in order to clean the bonded edges and rig the panels.



3. Beam Preparation

Due to the tight depth restrictions on the 29th Street bridge, a minimum thickness interface is required. To ensure that the deck panels are evenly supported by all beams, the beam top flanges must all be level. A neoprene pad will be placed on the beams to provide the interface between the deck and the beams. Neoprene pads will be placed on all beam caps and on the two abutment edges where the deck panels will sit. At each of the shear stud connection locations, an eight (8”) cutout must be cut in the neoprene.

4. Rigging Panels for Placement

For placing the panels on the beams, the panels shall be lifted using lifting bolts/plates. Straps cannot be used in the core holes since there is not enough gap between the deck

and the beam for removing the straps. Four eyebolts and four threaded back plates will be provided. Straps or cables can be threaded through the eyebolts.



5. Erecting Panels

5.1 Type 1 –No Crane

For thru-truss or longer span structures where cranes do not have sufficient reach to install the panels or if a crane is not available, the deck panels may be lifted and placed with the lightest weight equipment (such as excavator or small front-end loaders) possible. For this type of installation, the specific piece of equipment shall be reviewed by CA. In order to help spread the tire load while the adhesive bondlines are curing and protect the deck surface from equipment treads, timber/steel planking running the full length of the tire contact area will be required as shown in the following pictures. A steel plate (or other acceptable means) shall also be placed at the beginning of the bridge to protect the unsupported edge of the deck during installation.



5.2 Type 2 – Crane

For short to medium span structures, a crane with sufficient reach to place all panels without sitting on the bridge is the preferred option to be used. This method not only protects the integrity of the bondline while it cures. In addition, it allows for faster installation since the panels do not have to be walked out onto the bridge.

6. Align/secure first panel

Proper placement of the first panel is very important. The panel needs to be placed with the proper alignment and secured so there is no movement when other panels are placed against it. Typically restraint in the longitudinal direction of the bridge is all that is needed. Surveying is suggested to make sure the first panel is aligned properly as well establishing a control line for the structure and panels. At various times during installation, the alignment of the panels should be checked with the control line. There are various methods of securing the first panel. One is to tack weld an angle to the top flange of the beam, (if the DOT/owner would allow welding to the top flange in this area). After the panels are installed, the weld is ground off flush with the top flange. A second method is clamping the deck to the top flange of the beam. Another is bracing the panel from the abutment.

7. Installing the Remaining Panels

7.1 Clean the bonding surfaces.

On the previously installed panel, this is the top of bottom splice plate and the adjacent vertical surface of the deck. On the next panel to be installed, this is bottom edge of the panel step down and the vertical edge of the panel. To clean, clear off any dirt and wipe with a rag soaked in acetone.

7.2 Locate the panel for dry fit

Install the eyebolts and lifting straps. Lift and place the panel to dry fit the panels. After verifying that panels are fitting correctly, move the panel away from the previous panel.

7.3. Apply Adhesive

A two-part high strength adhesive is used to bond the panels together in the field. The standard adhesive is Magnabond 56A/B. CA will supply the adhesive and assist the contractor to mix and apply it. The adhesive will typically be delivered in pre-measured kits. Combine Part A and Part B together and mix thoroughly with large mixing blade. The working time of the mixed adhesive is dependent on a number of variables, the most critical being temperature and the mass (volume of adhesive in the container). Dry conditions are required when applying the adhesive. Temperature should be above 50°F to ensure that the viscosity is low enough to achieve consistent mixing. In general, this results in a 30-minute working time for the adhesive.

Apply adhesive to the vertical edge of the previous panel and to top of the bottom splice plate.



7.4. Placing the panels

Relocate the panel against the previous panel. Minimize scraping adhesive off the mating surfaces. The panels shall be lowered vertically as close to the adjacent panel without scraping the adhesive off the vertical surface and butted up against the previous panel.



If there are any unfilled gaps between the vertical edges of the panel, fill with adhesive.



8. Top splice plates on panel joints

After all the panels are in place, the top splice plates are installed over the bondlines. These strips will be 8 5/8" wide and will be delivered to the site with the deck.

Steps for the installation of these strips are as follows:

1. Clean the panel joint area to remove dirt, contaminants and excess adhesive from the top surface of the step down area.
2. Wipe the area with acetone. Allow acetone to completely dry.
3. Apply the two-part epoxy adhesive to the step-down areas at the panel joint.
4. After the entire splice surface is coated with adhesive, lay the splice plate on the joint and press in place.
5. If there is excess adhesive on the top or sides, scrape off the excess adhesive.



9. Laminations for Joints

After all the panels are in place, the joints will be laminated with glass mat and adhesive. The glass strips will be provided by CA along with the adhesive.

Steps for the installation of these strips are as follows:

1. Clean the panel joint area to remove dirt, contaminants and excess adhesive from the top surface of the step down area.
2. Wipe the area with acetone. Allow acetone to completely dry.

3. Apply a layer of adhesive over seam.
4. Roll out the glass mat and press mat into the adhesive until no more white from the glass mat can be seen. Apply additional adhesive if need to fully wet out the glass mat.

The glass mat will not be laminate in the areas that will be under the sidewalk or the granite curbs.

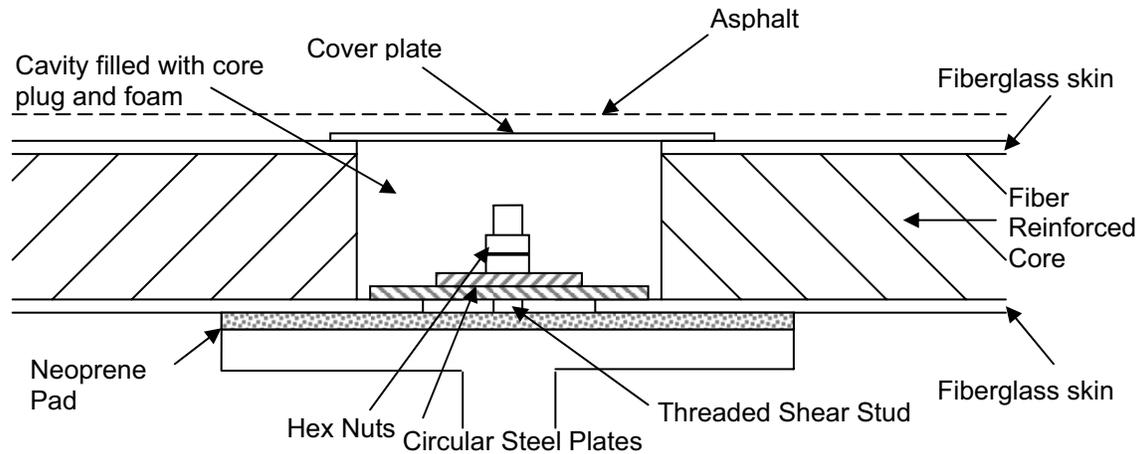


10. Shear stud welding

The shear studs are welded to the beams at the core holes in the deck panels.

11. Connecting the deck to the beams

The deck will be mechanically connected to the beams by bolting to the threaded stud. A circular steel plate is placed in the connection hole to rest on the top of the bottom skin. A second, smaller plate is placed on the first plate to account for tolerance gaps between the stud and the ID of the skin hole and the first plate. Two hex nuts will be tightened down to prevent loosening of the nuts.



12. Seal the connection holes

To seal the connection holes, expanding foam and a core plug will be used to fill the cavity. A cover plate will be used to complete the seal of holes that in the asphalt overlay area. Cover plates are not used under the sidewalk or granite curb.

Steps for sealing the connection holes are as follows:

1. Fill the volume around the shear stud with expanding foam.
2. Insert partial core plug back into panel so that it is level with the surface.
3. Fill any remaining gaps around plug with expanding foam to ensure no empty space.



3. Once foam has stopped expanding, apply a layer of adhesive over the plug.
4. Center a cover plate over each plug and spread the extra adhesive around the edge of the cover plate to seal edges of plate to the panel surface.



13. Installing the Sidewalk

13.1 Surface Preparation

The sidewalk panel will be bonded across the all five deck panels. The surface of the deck panels needs to level. High points in the top surface of the deck panels or the splice plates can be ground flat. Low points can be filled with glass mat laminate with resin or adhesive. Dry fit the sidewalk. Repeat leveling preparation if required. When ready to bond, clean any dirt from the surface.

13.2 Placing the sidewalk

Create location guides for the curb to ensure that the roadway width will be correct. Apply generous amounts of adhesive over the entire mating surface. Place the sidewalk on the adhesive bed. Check for alignment. Clean away excessive adhesive especially on the mating surfaces for the granite curb.

14. Granite Curbs

14.1 Surface Preparation

The curbs will be bonded across the all five deck panels. The surface of the deck panels needs to level. High points in the top surface of the deck panels or the splice plates can be ground flat. Low points can be filled with glass mat laminate with resin or adhesive. Dry fit the sidewalk. Repeat leveling preparation if required. When ready to bond, clean any dirt from the surface.

14.2 Placing the curbs

Create a location guide for the curb opposite from the sidewalk to ensure that the roadway width will be correct. Apply adhesive over the mating surfaces. Place the curb and check for alignment. Clean away excessive adhesive.

15. Installation of Wear Surface

15.1 Attach Retainer Angle

A retainer angle will be bonded to each end of the deck to contain the asphalt wear surface. The upstanding leg of the angle will need to be shaped to follow the slope of the wear surface. Bond the angle to the end of the deck using adhesive.

15.2 Wear Surface

The deck will be shipped to the site with a rough peel ply surface to facilitate adherence of the wear surface. It is recommended that the installed deck surface be cleaned with a wire brush or a high-pressure water blast (preferably using a degreaser) prior to the application of the wearing surface to remove any contaminants. The FRP bridge material can withstand the temperature of asphalt application as long as the applicator is moving. Do not stop the applicator and allow the burners to be in the same location for extended time; this will overheat the FRP material.

SCOPE OF WORK

Material and Equipment Responsibility

Furnished by CA

- FRP bridge deck panels delivered to the site with cored connection holes and bonded bottom splice plates
- FRP sidewalk panel
- FRP top splice plates
- Cover plates for connection holes
- Core plugs for connection holes
- Epoxy adhesive
- Fiberglass mat
- Acetone, latex gloves, trowels, mixing buckets, etc. for adhesive
- Metal connection hardware: circular steel plates and hex nuts
- Eyebolts and lifting plates
- On-site technical support during installation (2 to 5 days)
- Shipping of panels

Furnished by Contractor

- All materials and labor necessary for installation except as noted above
- Forklift/crane and rigging equipment for unloading and erecting panels
- Neoprene pads
- Shear studs
- Expanding foam
- Wear surface retainer angle
- Clamps, angles, timbers, etc.
- Power source and extension cords for hand tools
- Air compressor
- Trash removal
- Storage of CA materials in clean, dry space with minimum temperature of 50°F

GOVERNMENT OF THE DISTRICT OF COLUMBIA
OFFICE OF THE CHIEF FINANCIAL OFFICER
OFFICE OF TAX AND REVENUE



TAX CERTIFICATION AFFIDAVIT

THIS AFFIDAVIT IS TO BE COMPLETED ONLY BY THOSE WHO ARE REGISTERED TO CONDUCT BUSINESS IN THE DISTRICT OF COLUMBIA.

Date: _____

Name of Organization/Entity: _____

Address: _____

Business Telephone No.: _____

Principal Officer: _____

Name: _____ Title: _____

Soc. Sec. No.: _____

Federal Identification No.: _____

Contract No.: POKA-2008-B-0022

Unemployment Insurance Account No.: _____

I hereby certify that:

1. I have complied with the applicable tax filing and licensing requirements of the District of Columbia.
2. The following information is true and correct concerning tax compliance for the following taxes for the past five (5) years:

	<u>Current</u>	<u>Not Current</u>	<u>Not Applicable</u>
District: Sales and Use	()	()	()
Employer Withholding	()	()	()
Ball Park Fee	()	()	()
Corporation Franchise	()	()	()
Unincorporated Franchise	()	()	()
Personal Property	()	()	()
Real Property	()	()	()
Individual Income	()	()	()

The Office of Tax and Revenue is hereby authorized to verify the above information with the appropriate government authorities. The penalty for making false statements is a fine not to exceed \$5,000.00, imprisonment for not more than 180 days, or both, as prescribed by D.C. Official Code § 47-4106.

This affidavit must be notarized and becomes void if not submitted within 90 days of the date notarized.

Signature of Authorizing Agent

Title

Print Name

Notary: DISTRICT OF COLUMBIA, ss:

Subscribed and sworn before me this _____ day of _____ Month
and Year

Notary Public: _____

My Commission
Expires: _____