

CONTRACT DESCRIPTION

1. The purpose of this contract is to apply a deep penetrating clear water repellent sealant to the concrete bridge deck, approach slabs and inside vertical surface and top surface of the parapets of Bridge 1-813. Work shall include crack sealing decks, and concrete repairs.
2. Bridge 1-813 carries Interstate I-495 over Christina River and Norfolk Southern Railroad, in Wilmington.

GENERAL NOTES

1. This project is to be constructed in accordance with Delaware Department of Transportation “Standard Specifications”, dated August 2001 and the Delaware Department of Transportation “Standard Construction Details”, dated 2001, including all revisions up to the date of advertisement.
2. Whenever the word “Contractor” is used in this contract, it shall refer to the person or persons, company or corporation furnishing the services required.
3. Whenever the word "Department" or "Engineer" is used, it shall refer to the person or persons, representing the Delaware Department of Transportation (DelDOT).
4. The contractor shall give two (2) weeks notice to the property owner when any fixture, shrub, or other object must be removed from the right of way or easement area. If the owner has not attempted to salvage this property, the contractor shall remove it without obligation. Compensation shall be incidental to the contract.
5. It is anticipated that all work will occur within DelDOT's existing right of way or easement areas. Should the need occur to trespass onto private property; it will be the responsibility of the DelDOT Project Manager to secure such trespass needs.
6. Site reviewer. An erosion control site reviewer shall be a person from the contractor’s staff assigned to Erosion and Sediment Control Implementation and Maintenance and shall be required on specific projects. The name and DNREC certification number of each site reviewer so required shall be submitted to the Department prior to the execution of the contract. The name of the Delaware registered professional engineer providing direction and supervision of the site reviewer, as required in Section 12.3 of the Delaware Sediment and Stormwater Regulations, shall also be submitted to the Department prior to execution of the contract. The site reviewer requirements in effect on this project shall be as marked with an (x) below:

Erosion potential for this project	Site reviewer requirement
(X) Insignificant	None
() Minor	Contractor certification course training only. See 1 below.
() Medium	Superintendent or a separate individual from the contractor’s staff shall be a certified construction reviewer (CCR). See 2 below.
() Major	Superintendent and an individual from the contractor’s staff shall be CCR. See 3 below.

1. As defined in section 13 of the Delaware Sediment and Stormwater Regulations.
2. As defined in section 12 of the Delaware Sediment and Stormwater Regulations.
3. One individual from the contractor’s staff must be a CCR prior to the execution of the contract. The superintendent must become a CCR within one year after the award of contract.

7. The disturbed area for the project is 0.00 Acres.

8. The additional impervious area for this project is 0.00 Sq. Ft.
9. The contractor shall be responsible for adhering to the construction site pollution prevention Specifications as detailed in Section 3.6 of the "Delaware Erosion and Sediment Control Handbook". All costs associated with adhering to the standards shall be incidental to the overall contract.
10. Electronic project files that will be made available to the contractor include: None.

PROJECT NOTES

1. The sealant used for the deck, approach slabs, and parapets shall be applied at a rate recommended by the Manufacturer. It will be applied uniformly and completely cover the surfaces as specified in item 602546 – Waterproofing P.C.C. Masonry. **Remove all excess sealant not needed for redistribution. All grooves or indentations need to also have excess sealant removed.**
2. Trash, rubbish, debris, or brush, which hampers contract operations (determined by the Engineer), shall be removed within the project limits and shall be incidental to Item no. 602546 – Waterproofing P.C.C. Masonry.
3. During the cleaning operation, the Contractor shall report to the Engineer any defects in the deck. These defects include, but are not limited to, loss of section, cracking, spalling, potholes, and bridge joint defects.
4. Prior to sealant application, the Contractor shall repair cracks where the width measures greater than 1/8 inch. Engineer must approve of the selected cracks prior to beginning sealing activity. Payment for sealing cracks greater than 1/8" will be under Item No. 602629 – Crack Sealing Bridge Decks, Approach Slabs, Sidewalks, Etc.
5. Prior to sealant application, the Contractor shall repair all spalls in the deck riding surface where the depth measures 1/4 inch to 1 inch. Engineer must approve of the selected spalls prior to beginning repair activity. Payment for spall repairs where the depth measures 1/4 inch to 1 inch will be under Item No. 602574 – Deck Repair, 1/4" to 1" Depth.
6. Prior to sealant application, the Contractor shall repair all spalls in the deck riding surface where the depth measures 1 inch to 3 inches. Engineer must approve of the selected spalls prior to beginning repair activity. Payment for spall repairs where the depth measures 1 inch to 3 inches will be under Item No. 602575 – Deck Repair, 1" to 3" Depth.
7. Prior to sealant application, the Contractor shall repair all spalls in the deck riding surface where the depth measures 3 inches to less than full depth. Engineer must approve of the selected spalls prior to beginning repair activity. Payment for spall repairs where the depth measures 3 inches to less than full depth will be under Item No. 602576 – Deck Repair, 3" to < Full Depth.
8. Prior to sealant application, the Contractor shall repair all spalls in the concrete parapets. Engineer must approve of the selected spalls prior to beginning repair activity. Payment for spall repairs in the concrete parapet will be under Items No. 602017 – Portland Cement Concrete Masonry, Class A, Parapet and 602580 – Partial Removal of P.C.C. Masonry.
9. Prior to sealant application, the Contractor shall replace the Silicone Joint Seal above both abutments. Engineer must approve of the selected joints prior to beginning repair activity. Payment for replacing the silicone joint seal will be under Item No. 605692 – Silicone Joint Seal.
10. Portable Light Assemblies will be required for all night time operations and as directed by the Engineer. Payment for portable lighting shall be under pay item 743005.
11. Containment systems are required for all abrasive blasting. The design of the containment system must be submitted and approved by the Department prior to any work being performed.
12. All work shall be performed in a manner that will reasonably provide the least practicable obstruction to all road users, including vehicular, pedestrian, and bicycle traffic, and shall conform to the requirements of the most recent, at time of bid including all revisions, Delaware Manual on Uniform Traffic Control Devices, Part 6, herein referred to as the Traffic Control Manual.
13. Only lane and/or shoulder closures of I-495 shall be permitted using Typical Application 5B, 33, 37, 42, and 44 of the DE-MUTCD or as directed by the Engineer. The contractor must maintain at least one through lane in each direction at all times.

14. Lane closures on I-495 shall only occur during the periods shown in the tables below. The Contractor shall strictly adhere to these time restrictions for lane closures. Any lane closures outside of the allowable hours shall require approval from DelDOT's Traffic Safety Section.

NB	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

SB	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

	No lane closures permitted
	1 lane closed, 2 lanes open
	2 lanes closed, 1 lane open

15. No lane closures will be permitted on holidays, holiday weekends or during special events as outlined in Section 743 of the Standard Specifications and/or the Transportation Management Plan, unless approved by the Engineer with consultation with the Safety Section.
16. The use of flaggers on this project is prohibited.
17. The Department reserves the right to stop the Contractor's operations, if in the opinion of the Engineer the Contractor's operations are not in compliance with the Delaware MUTCD, the specifications, or the Contract Documents. The Department also reserves the right to stop the Contractor's operations if the Engineer deems the operation unsafe.
18. American Traffic Safety Association (ATSSA) Certified Traffic Control Supervisor Requirement for the project:

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 743000 MAINTENANCE OF TRAFFIC.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR.

19. All traffic control devices shall be in new or refurbished condition, shall be in compliance with the Traffic Control Manual and with the NCHRP Report 350 and/or MASH as defined in Section 'A' of the Traffic Control Manual, and shall be approved by the Engineer before installation. Traffic control devices shall be maintained in good condition for duration of use.
20. All equipment shall be removed from the job sites on a daily basis, except when allowed by the Engineer.
21. All work shall be performed within the existing right-of-way unless otherwise noted. Right-of-way information and existing plans shall be available upon request at the DelDOT Administration Office.
22. No equipment is allowed in any waterway or wetland.
23. There are no environmental permits (including but not limited to COE, DNREC Subaqueous Lands and Wetlands, Coast Guard, New Castle, Kent, and Sussex County Floodplain), or environmental construction restrictions. As such, no Environmental Compliance sheet was prepared.
24. The Contractor may store the equipment needed for this project at a pre-approved area or in the nearest State of Delaware maintenance yard. The Contractor must remove equipment from the jobsite if and when the district deems it necessary. The contractor is to stay within the confines of the state right-of-way. Right-of-way information and existing plans shall be available upon request at the DelDOT Administration Office. Areas within the state right-of-way limits in which the soil and vegetation have been damaged from equipment during this contract, shall be repaired with topsoil, seed and mulch in accordance with the standard specifications at the Contractor's own expense.
25. Two Portable Changeable Message Signs shall be placed at each bridge location, for each roadway affected, ten days prior to the start of construction until five days after the start of construction to notify drivers of the lane/shoulder closure and impending construction activity. The message shall include the dates and times of the lane closures and how long the closures will be necessary, message shall be approved by the Safety Officer. For locations that have parallel structures, a total of two variable message boards shall be used for both bridges. Payment under Item No. 743004.
26. Unless otherwise noted on the plans, the Contractor shall, as part of his Project Schedule, submit to the Engineer an estimate of the monthly payments expected to be received on the contract. This will be referenced as the "Monthly Payment Chart".

A chart in Microsoft Excel, Microsoft Word, or hand written format will be acceptable for this purpose. The chart should include, as a minimum, columns for the month, year, and estimated monthly payments. The total of all estimated monthly payments should equal the awarded contract total bid price.

The Engineer may request an updated "Monthly Payment Chart" at his discretion, depending on the accuracy of the initial estimates and according to the overall needs of the Department.

The "Monthly Payment Chart" will not be considered a binding document by either the Contractor or the Department and is considered solely informational.

On projects requiring CPM Schedules, the Contractor may, but is not required to, "Cost Load" the CPM Schedule in order to generate the monthly payment estimates.

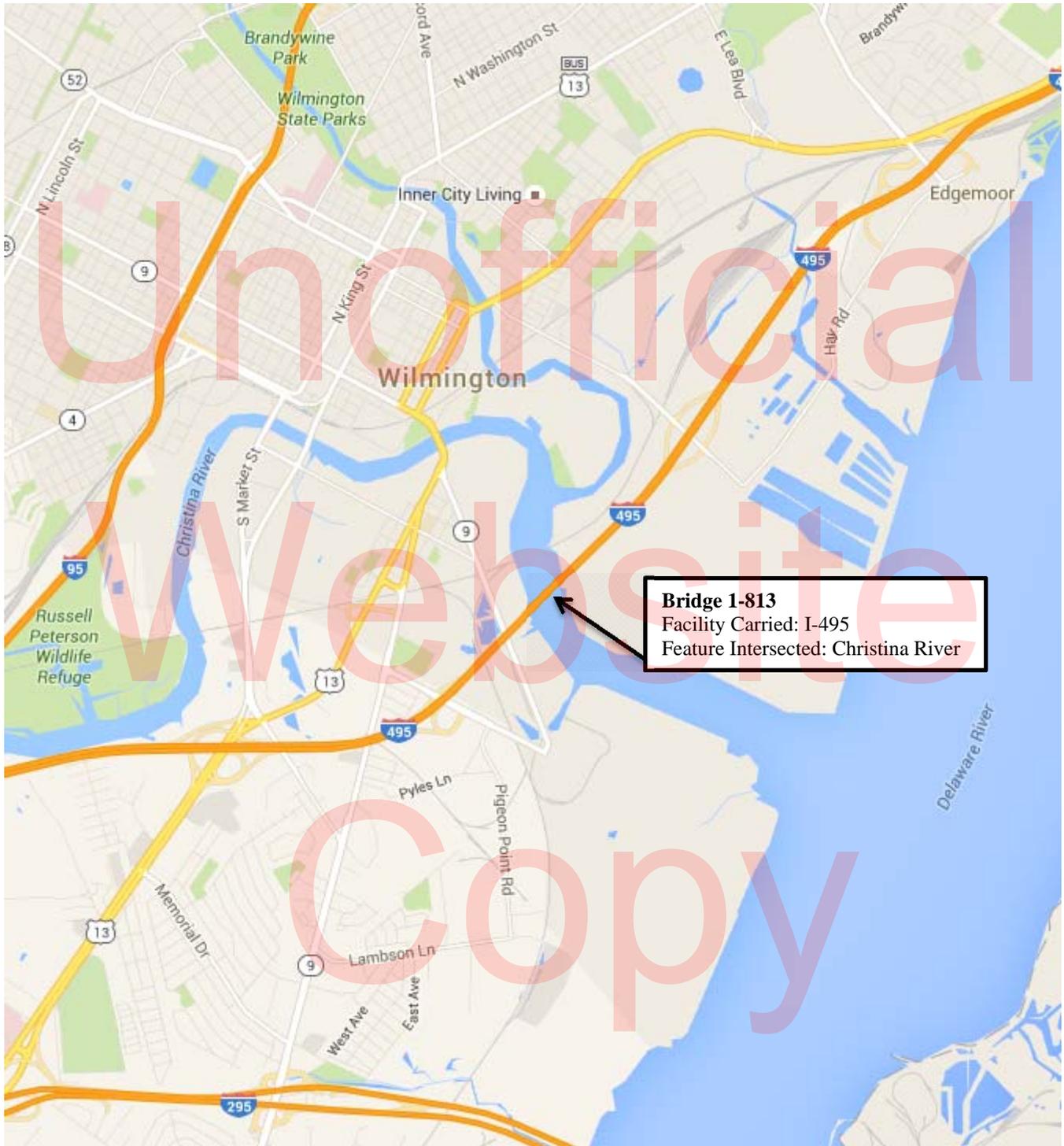
Costs to prepare and/or update the "Monthly Payment Chart" are addressed as follows:

- a. On Contracts requiring CPM Schedules and Updates, preparation of the initial chart shall be incidental to Item 763508. Updates shall be incidental to Item 763509.
- b. On contracts not requiring CPM Schedules, the cost to prepare and update the "Monthly Payment Chart" shall be included in Item 763000, Initial Expense.

QUANTITY SHEET

Item No.	DESCRIPTION	UNIT	QUANTITY
602017	PORTLAND CEMENT CONCRETE MASONRY, CLASS A, PARAPET	C.Y.	3
602546	WATERPROOFING P.C.C. MASONRY	S.F.	500000
602574	DECK REPAIR, 1/4" TO 1" DEPTH	S.F.	50
602575	DECK REPAIR, 1" TO 3" DEPTH	S.F.	100
602576	DECK REPAIR, 3" TO < FULL DEPTH	S.F.	50
602580	PARTIAL REMOVAL OF P.C.C. MASONRY	C.Y.	3
602629	CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALK, ETC.	L.F.	1000
605692	SILICONE JOINT SEAL	L.F.	194
743000	MAINTENANCE OF TRAFFIC	L.S.	1
743003	ARROWPANELS, TYPE C	EA-DY	80
743004	FURNISH AND MAINTAIN PORTABLE MESSAGE SIGN	EA-DY	54
743005	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	EA-DY	160
743006	PLASTIC DRUMS	EA-DY	6400
743007	TRAFFIC OFFICERS	HOURLY	320
743010	FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	EA-DY	80
743024	TEMPORARY WARNING SIGNS AND PLAQUES	EA-DY	320
763000	INITIAL EXPENSE	LS	1

Location Map



Bridge 1-813