

# STATE OF DELAWARE



This Copy is for information only.  
You must request a CD from  
DelDOT in order to bid.

## DEPARTMENT OF TRANSPORTATION

### BID PROPOSAL

for

CONTRACT T201807702.01

Structure Maintenance, North District, Open End, FY19-21

New Castle County

ADVERTISEMENT DATE: March 12, 2018

COMPLETION TIME: 1,095 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION  
DELAWARE DEPARTMENT OF TRANSPORTATION  
AUGUST 2016

Bids will be received in the Bidder's Room at the Delaware Department of Transportation's Administration Building, 800 Bay Road, Dover, Delaware prior to 2:00 P.M. local time April 10, 2018

**Contract No.T201807702.01**

**Structure Maintenance, North District, Open End, FY19-21**  
New Castle County

**GENERAL DESCRIPTION**

LOCATION

These improvements are located in New Castle County more specifically shown on the Location Map(s) of the enclosed Plans.

DESCRIPTION

The improvements consist of furnishing all labor and materials for this contract. This project involves repairs and preventative maintenance to bridges and culverts in the Departments North District and other incidental construction in accordance with the location, notes and details shown on the plans and as directed by the Engineer.

COMPLETION TIME

All work on this contract must be complete within 1,095 Calendar Days. It is the Department's intent to issue a Notice to Proceed such that work starts on or about July 6, 2018.

PROSPECTIVE BIDDERS NOTES:

1. BIDDERS MUST BE REGISTERED with DeIDOT and request a cd of the official plans and specifications in order to submit a bid. Contact DeIDOT at [dot-ask@state.de.us](mailto:dot-ask@state.de.us), or (302) 760-2031. Bids will be received in the Bidder's Room at the Delaware Department of Transportation's Administration Building, 800 Bay Road, Dover, Delaware prior to 2:00 P.M. local time April 10, 2018 unless changed via addendum.
2. QUESTIONS regarding this project are to be e-mailed to [dot-ask@state.de.us](mailto:dot-ask@state.de.us) no less than six business days prior to the bid opening date in order to receive a response. Please include T201807702.01 in the subject line. Responses to inquiries are posted on-line at <http://www.bids.delaware.gov>.
3. THE BID PROPOSAL incorporates a cd containing **Expedite, version 5.9a** and its installation file. Bidders are to use the cd provided to enter their bid amounts into the Expedite file. The Expedite bid file must be printed and submitted in paper form along with the cd and other required documents prior to the Bid due date and time.
4. SURETY BOND - Each proposal must be accompanied by a deposit of either surety bond or security for a sum equal to at least 10% of the bid.
5. DRUG TESTING - Regulation 4104; The state Office of Management and Budget has developed regulations that require Contractors and Subcontractors to implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds pursuant to 29 Del.C. §6908(a)(6). **Refer to the full requirements by following the below link:** <http://regulations.delaware.gov/register/september2015/final/19%20DE%20Reg%20207%2009-01-15.htm>  
**Regulation was revised for projects advertised beginning 01/01/18.** Please review the revised regulation for details. Note a few of the requirements;
  - \* At bid submission - Each Contractor must submit with the bid *a single signed affidavit certifying that the Contractor and Subcontractor(s) has in place or will implement during the entire term of the contract a Mandatory Drug Testing Program that complies with the regulation;*
  - \* At least Two business days prior to contract execution - The awarded Contractor shall provide to DeIDOT copies of the Employee Drug Testing Program for the Contractor, and any other listed Subcontractors;
  - \* ~~Testing Report Forms shall be submitted to DeIDOT monthly. No longer required.~~
  - \* Subcontractors - Contractors that employ Subcontractors on the job site may do so only after submitting a copy of the Subcontractor's Employee Drug Testing Program along with the standard required subcontractor information. A Subcontractor shall not commence work until DeIDOT has approved the subcontractor in writing;
  - \* Penalties for non-compliance are specified in the regulation.
6. NO RETAINAGE will be withheld on this contract.

7. EXTERNAL COMPLAINT PROCEDURE can be viewed on DelDOT's Website [here](#), or you may request a copy by calling (302) 760-2555.
8. REMINDER; A copy of your firm's Delaware Business License must be submitted with your bid.
9. AUGUST 2016 STANDARD SPECIFICATIONS apply to this contract. The Contractor shall make himself aware of any revisions and corrections (Supplemental Specifications, if any) and apply them to the applicable item(s) of this contract. The 2016 Standard Specifications can be [viewed here](#).
- 9a. FLATWORK CONCRETE TECHNICIAN CERTIFICATION TRAINING:  
Section 501.03, 503.03, 505.03, 610.03, 701.03 and 702.03 of the 2016 Standard Specifications require contractor's to provide an American Concrete Institute (ACI) or National Ready Mix Concrete Association (NRMCA) certified concrete flatwork technician to supervise all finishing of flatwork concrete. Concrete flatwork certification will be effective starting on June 1, 2018.
10. It is anticipated that all work will occur within DelDOT's right of way. Should the need occur to trespass onto railroad property, including the highway-rail crossing; it will be the responsibility of the Project Manager to contact the railroad Chief Engineer and obtain written authorization before entering.

**STATE OF DELAWARE  
CONSTRUCTION ITEMS UNITS OF MEASURE**

<b>English Code</b>	<b>English Description</b>	<b>Multiply By</b>	<b>Metric Code</b>	<b>Metric Description</b>	<b>Suggested CEC Metric Code</b>
ACRE	Acre	0.4047	ha	Hectare	HECTARE
BAG	Bag	N/A	Bag	Bag	BAG
C.F.	Cubic Foot	0.02832	m <sup>3</sup>	Cubic Meter	M3
C.Y.	Cubic Yard	0.7646	m <sup>3</sup>	Cubic Meter	M3
EA-DY	Each Day	N/A	EA-DY	Each Day	EA-DY
EA-MO	Each Month	N/A	EA-MO	Each Month	EA-MO
EA/NT	Each Night	N/A	EA-NT	Each Night	EA/NT
EACH	Each	N/A	EA	Each	EACH
GAL	Gallon	3.785	L	Liter	L
HOUR	Hour	N/A	h	Hour	HOUR
INCH	Inch	25.4	mm	Millimeter	MM
L.F.	Linear Foot	0.3048	m	Linear Meter	L.M.
L.S.	Lump Sum	N/A	L.S.	Lump Sum	L.S.
LA-MI	Lane Mile	1.609	LA-km	Lane-Kilometer	LA-KM
LB	Pound	0.4536	kg	Kilogram	KG
MFBM	Thousand Feet of Board Measure	2.3597	m <sup>3</sup>	Cubic Meter	M3
MGAL	Thousand Gallons	3.785	kL	Kiloliter	KL
MILE	Mile	1.609	km	Kilometer	KM
S.F.	Square Foot	0.0929	m <sup>2</sup>	Square Meter	M2
S.Y.	Square Yard	0.8361	m <sup>2</sup>	Square Meter	M2
SY-IN	Square Yard-Inch	0.8495	m <sup>2</sup> -25 mm	Square Meter-25 Millimeter	M2-25 MM
TON	Ton	.9072	t	Metric Ton (1000kg)	TON
N.A.*	Kip	4.448	kN	Kilonewton	N.A.*
N.A.*	Thousand Pounds per Square Inch	6.895	MPa	Megapascal	N.A.*

\*Not used for units of measurement for payment.

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**GENERAL NOTICES**

SPECIFICATIONS:

The specifications entitled "Standard Specifications for Road and Bridge Construction, August, 2016", hereinafter referred to as the Standard Specifications, and Supplemental Specifications, the Special Provisions, notes on the Plans, this Bid Proposal, and any addenda thereto shall govern the work to be performed under this contract. The Specifications and any Supplemental Specifications can be [viewed here](#).

CLARIFICATIONS:

Under any Section or Item included in the Contract, the Contractor shall be aware that when requirements, responsibilities, and furnishing of materials are outlined in the details and notes on the Plans and in the paragraphs preceding the "Basis of Payment" paragraph in the Standard Specifications or Special Provisions, no interpretation shall be made that such stipulations are excluded because reiteration is not made in the "Basis of Payment" paragraph.

ATTESTING TO NON-COLLUSION:

The Department requires as a condition precedent to acceptance of bids a sworn statement executed by, or on behalf of, the person, firm, association, or corporation to whom such contract is to be awarded, certifying that such person, firm, association, or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract. The form for this sworn statement is included in the proposal and must be properly executed in order to have the bid considered.

QUANTITIES:

The quantities shown are for comparison of bids only. The Department may increase or decrease any quantity or quantities without penalty or change in the bid price.

PREFERENCE FOR DELAWARE LABOR:

Delaware Code, Title 29, Chapter 69, Section 6962, Paragraph (d), Subsection (4)b:

"In the construction of all public works for the State or any political subdivision thereof, or by firms contracting with the State or any political subdivision thereof, preference in employment of laborers, workmen or mechanics shall be given to bona fide legal citizens of the State who have established citizenship by residence of at least 90 days in the State. Each public works contract for the construction of public works for the State or any political subdivision thereof shall contain a stipulation that any person, company or corporation who violates this section shall pay a penalty to the Secretary of Finance equal to the amount of compensation paid to any person in violation of this section."

EQUALITY OF EMPLOYMENT OPPORTUNITY ON PUBLIC WORKS:

Delaware Code, Title 29, Chapter 69, Section 6962, Paragraph (d), Subsection (7) states;

- a. As a condition of the awarding of any contract for public works financed in whole or in part by State appropriation, such contracts shall include the following provisions:

During the performance of this contract, the contractor agrees as follows:

1. The contractor will not discriminate against any employee or applicant for employment because of race, creed, color, sex, sexual orientation, gender identity or national origin. The contractor will take positive steps to ensure that applicants are employed and that employees are treated during employment without regard to their race, creed, color, sex, sexual orientation, gender identity or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting agency setting forth this nondiscrimination clause.

2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, sex, sexual orientation, gender identity or national origin.
3. The contractor will ensure employees receive equal pay for equal work, without regard to sex. Employee pay differential is acceptable if pursuant to a seniority system, a merit system, a system which measures earnings by quantity or quality of production, or if the differential is based on any other factor other than sex.

TAX CLEARANCE:

As payments to each vendor or contractor aggregate \$2,000, the Division of Accounting will report such vendor or contractor to the Division of Revenue, who will then check the vendor or contractor's compliance with tax requirements and take such further action as may be necessary to insure compliance.

LICENSE:

A person desiring to engage in business in this State as a contractor shall obtain a license upon making application to the Division of Revenue.

CONTRACTOR / SUBCONTRACTOR LICENSE: 29 DEL. C. §6967:

(b) No agency shall accept a proposal for a public works contract unless such contractor has provided a proper and current copy of its occupational and/or business license, as required by Title 30, to such agency.

(c) Any contractor that enters a public works contract must provide to the agency to which it is contracting, within 30 days of entering such public works contract, copies of all occupational and business licenses of subcontractors and/or independent contractors that will perform work for such public works contract. However, if a subcontractor or independent contractor is hired or contracted more than 20 days after the contractor entered the public works contract the occupational or business license of such subcontractor or independent contractor shall be provided to the agency within 10 days of being contracted or hired.

DIFFERING SITE CONDITIONS,

SUSPENSIONS OF WORK and SIGNIFICANT CHANGES IN THE CHARACTER OF WORK:

Differing site conditions: During the progress of the work, if subsurface or latent physical conditions are encountered at the site differing materially from those indicated in the contract or if unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract are encountered at the site, the party discovering such conditions shall promptly notify the other party in writing of the specific differing conditions before they are disturbed and before the affected work is performed.

Upon written notification, the engineer will investigate the conditions, and if he/she determines that the conditions materially differ and cause an increase or decrease in the cost or time required for the performance of any work under the contract, an adjustment, excluding loss of anticipated profits, will be made and the contract modified in writing accordingly. The engineer will notify the contractor of his/her determination whether or not an adjustment of the contract is warranted.

No contract adjustment which results in a benefit to the contractor will be allowed unless the contractor has provided the required written notice.

No contract adjustment will be allowed under their clause for any effects caused on unchanged work.

Suspensions of work ordered by the engineer: If the performance of all or any portion of the work is suspended or delayed by the engineer in writing for an unreasonable period of time (not originally anticipated, customary or inherent to the construction industry) and the contractor believes that additional compensation and/or contract time is due as a result of such suspension or delay, the contractor shall submit to the engineer in writing a request for adjustment within 7 calendar days of receipt of the notice to resume work. The request shall set forth the reasons and support for such adjustment.

Upon receipt, the engineer will evaluate the contractor's request. If the engineer agrees that the cost and/or time required for the performance of the contract has increased as a result of such suspension and the suspension was caused by conditions beyond the control of and not the fault of the contractor, its suppliers, or subcontractors at any approved tier, and not caused by weather, the engineer will make an adjustment (excluding profit) and modify the contract in writing accordingly. The engineer will notify the contractor of his/her determination whether or not an adjustment of the contract is warranted.

No contract adjustment will be allowed unless the contractor has submitted the request for adjustment within the time prescribed. No contract adjustment will be allowed under this clause to the extent that performance would have been suspended or delayed by any other cause, or for which an adjustment is provided for or excluded under any other term or condition of this contract.

Significant changes in the character of work: The engineer reserves the right to make, in writing, at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete the project. Such changes in quantities and alterations shall not invalidate the contract nor release the surety, and the contractor agrees to perform the work as altered.

If the alterations or changes in quantities significantly change the character of the work under the contract, whether or not changed by any such different quantities or alterations, an adjustment, excluding loss of anticipated profits, will be made to the contract. The basis for the adjustment shall be agreed upon prior to the performance of the work. If a basis cannot be agreed upon, then an adjustment will be made either for or against the contractor in such amount as the engineer may determine to be fair and equitable.

The term "significant change" shall be construed to apply only to the following circumstances:

- (A) When the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction or
- (B) When a major item of work, as defined elsewhere in the contract, is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity. Any allowance for an increase in quantity shall apply only to that portion in excess of 125 percent of original contract item quantity, or in case of a decrease below 75 percent, to the actual amount of work performed.

#### RIGHT TO AUDIT

The Department shall have the right to audit the books and records of the contractor or any subcontractor under this contract or subcontract to the extent that the books and records relate to the performance of the contract or subcontract. The books and records shall be maintained by the contractor for a period of 3 years from the date of final payment under the prime contract and by the subcontractor for a period of 3 years from the date of final payment under the subcontract (29 Del.C. §6930).

#### **PREVAILING WAGES**

Included in this proposal are the minimum wages to be paid various classes of laborers and mechanics as determined by the Department of Labor of the State of Delaware in accordance with Title 29 Del.C. §6960, relating to wages and the regulations implementing that Section.

#### **REQUIREMENT BY DEPARTMENT OF LABOR FOR SWORN PAYROLL INFORMATION**

Title 29 Del.C. §6960 stipulates;

(b) Every contract based upon these specifications shall contain a stipulation that the employer shall pay all mechanics and laborers employed directly upon the site of the work, unconditionally and not less often than once a week and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment, computed at wage rates not less than those stated in the specifications, regardless of any contractual relationship which may be alleged to exist between the employer and such laborers and mechanics. The specifications shall further stipulate that the scale of wages to be paid shall be posted by the employer in a prominent and easily accessible place at the site of the work, and that there may be withheld from the employer so much of accrued payments as may be considered necessary by the Department of Labor to pay to laborers and mechanics employed by the employer the difference between the rates of wages required by the contract to be paid laborers and mechanics on the work and rates of wages received by such laborers and mechanics to be remitted to the Department of Labor for distribution upon resolution of any claims.

(c) Every contract based upon these specifications shall contain a stipulation that sworn payroll information, as required by the Department of Labor, be furnished weekly. The Department of Labor shall keep and maintain the sworn payroll information for a period of 6 months from the last day of the work week covered by the payroll.

Bidders are specifically directed to note the Department of Labor's prevailing wage regulations implementing §6960 relating to the effective date of the wage rates, at Section 6.3, which in relevant part states:

"Public agencies (covered by the provisions of 29 Del.C. §6960) are required to use the rates which are in effect on the date of the publication of specifications for a given project. In the event that a contract is not executed within one hundred twenty (120) days from the date the specifications were published, the rates in effect at the time of the execution of the contract shall be the applicable rates for the project."

Contractor may contact:

Department of Labor, Division of Industrial Affairs, 4425 N. Market Street, Wilmington, DE 19802  
Telephone (302) 761-8200.

STATE OF DELAWARE  
DEPARTMENT OF LABOR  
DIVISION OF INDUSTRIAL AFFAIRS  
OFFICE OF LABOR LAW ENFORCEMENT  
PHONE: (302) 451-3423

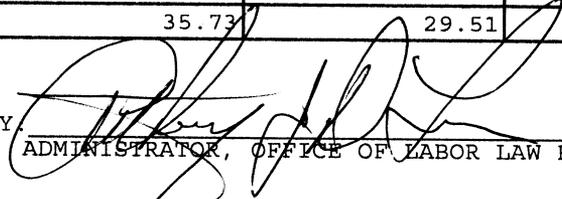
Mailing Address:  
225 CORPORATE BOULEVARD  
SUITE 104  
NEWARK, DE 19702

Located at:  
225 CORPORATE BOULEVARD  
SUITE 104  
NEWARK, DE 19702

PREVAILING WAGES FOR HIGHWAY CONSTRUCTION EFFECTIVE MARCH 15, 2017

CLASSIFICATION	NEW CASTLE	KENT	SUSSEX
BRICKLAYERS	51.99	51.99	15.17
CARPENTERS	53.48	53.81	42.77
CEMENT FINISHERS	33.91	34.12	27.13
ELECTRICAL LINE WORKERS	23.52	45.39	22.22
ELECTRICIANS	66.85	66.85	66.85
IRON WORKERS	62.35	24.95	26.50
LABORERS	43.30	39.85	39.12
MILLWRIGHTS	16.84	16.34	14.11
PAINTERS	67.07	67.07	67.07
PILEDRIVERS	69.44	24.83	28.17
POWER EQUIPMENT OPERATORS	42.91	41.41	37.92
SHEET METAL WORKERS	23.79	21.23	19.23
TRUCK DRIVERS	35.73	29.51	35.95

CERTIFIED: 3/5/18

BY:   
ADMINISTRATOR, OFFICE OF LABOR LAW ENFORCEMENT

**NOTE:** THESE RATES ARE PROMULGATED AND ENFORCED PURSUANT TO THE PREVAILING WAGE REGULATIONS ADOPTED BY THE DEPARTMENT OF LABOR ON APRIL 3, 1992.

CLASSIFICATIONS OF WORKERS ARE DETERMINED BY THE DEPARTMENT OF LABOR. FOR ASSISTANCE IN CLASSIFYING WORKERS, OR FOR A COPY OF THE REGULATIONS OR CLASSIFICATIONS, PHONE (302) 451-3423.

NON-REGISTERED APPRENTICES MUST BE PAID THE MECHANIC'S RATE.

PROJECT: T201807702.01 T201807702.01 Structure Maintenance, North District, Open End FY19-21, New Castle County

# **SPECIAL PROVISIONS**

### **401502 - ASPHALT CEMENT COST ADJUSTMENT**

For Sections 401, 402 and 403, payments to the Contractor shall be adjusted to reflect increases or decreases in the Delaware Posted Asphalt Cement Price when compared to the Project Asphalt Cement Base Price, as defined in these Special Provisions.

The Delaware Posted Asphalt Cement Price will be issued monthly by the Department and will be the industry posted price for Asphalt Cement, F.O.B. Philadelphia, Pennsylvania. The link for the [posting is here](#).

The Project Asphalt Cement Base Price will be the Delaware Posted Asphalt Cement Price in effect on the date of advertisement.

All deviations of the Delaware Posted Asphalt Cement Price from the Project Asphalt Cement Base Price are eligible for cost adjustment. No minimum increases or decreases or corresponding percentages are required to qualify for cost adjustment.

Actual quantity of asphalt cement qualifying for any Asphalt Cement Cost Adjustment will be computed using the weight of eligible asphalt that is shown on the QA/QC pay sheets as a percentage for the delivered material.

If the mix was not inspected and no QA/QC pay sheet was generated, then the asphalt percentage will be obtained from the job mix formula for that mix ID.

The asphalt percentage eligible for cost adjustment shall only be the virgin asphalt cement added to the mix.

There shall be no separate payment per ton cost of asphalt cement. That cost shall be included in the various unit prices bid per ton for those bid items that contain asphalt cement (mentioned above).

The Asphalt cement cost adjustment will be calculated on grade PG 64-22 asphalt regardless of the actual grade of asphalt used. The Project Asphalt Cement Base Price per ton for the project will be the Delaware Posted Asphalt Cement Price in effect on the date of project advertisement.

If the Contractor exceeds the authorized allotted completion time, the price of asphalt cement on the last authorized allotted work day, shall be the prices used for cost adjustment during the time liquidated damages are assessed. However, if the industry posted price for asphalt cement goes down, the asphalt-cement cost shall be adjusted downward accordingly.

**NOTE:**

Application of Asphalt Cement Cost Adjustment requirements as indicated above shall apply only to those contracts involving items related to bituminous base and pavements, and with bitumen, having a total of 1,000 tons or more of hot-mix bid quantity in case of Sections 401, 402 and 403.

5/05/15

**211500 - TREE REMOVAL, 6" TO 15" DIAMETER**  
**211501 - TREE REMOVAL, GREATER THAN 15" TO 25" DIAMETER**  
**211502 - TREE REMOVAL, GREATER THAN 25" TO 37" DIAMETER**  
**211503 - TREE REMOVAL, GREATER THAN 37" TO 49" DIAMETER**  
**211504 - TREE REMOVAL, GREATER THAN 49" DIAMETER**

**Description:**

This work consists of removing and disposing of trees with a diameter over 6".

**Construction Methods:**

The appropriate construction methods of Section 201 shall apply to this work. Final determination for removal of trees will be made by the Engineer during the construction operation.

Tree removal shall consist of cutting, bucking, and topping trees, the removal of stumps below the surrounding ground line, and the removal of all portions or remnants of the tree and stump from highway right-of-way and abutting properties. Trees shall be completely removed, including stumps and all roots or as directed by the engineer.

All portions or remnants of the tree shall become the property of the Contractor and shall be removed from the right-of-way and abutting properties at the close of each working day. All stumps, which cannot be removed the same day as cutting, shall be cut flush with the ground prior to the end of work that day. All right-of-way removal sites shall be restored to preconstruction condition, satisfactory to the Engineer, if ground disturbance, such as ruts or sod damage, occurs during removal in areas not to be disturbed by grading operations.

**Method of Measurement**

The quantity of trees for removal will be measured as the actual number of trees acceptably removed. The trunk diameter of the tree will be measured at a point 4' - 6" above the ground, and, in the case of multi-trunk trees, the diameter will be measured at the point immediately below the branching split or juncture regardless of the branching height above the ground. The diameter of the tree will be determined from the circumference of the tree as measured above.

**Basis of Payment:**

The quantity of trees designated for tree removal will be paid for at the Contract unit price per each tree by category, as follows:

- 6" to 15" Diameter
- Greater than 15" to 25" Diameter
- Greater than 25" to 37" Diameter
- Greater than 37" to 49" Diameter
- Greater than 49" Diameter

Trees with a diameter of 6" and under will be removed under Section 201. Price and payment will constitute full compensation for removal of designated trees; for restoration of ground disturbance in right-of-way removal sites; and for all labor, equipment, tools, and incidentals required to complete the work.

5/1/17

**601503 - CLEANING BRIDGE SCUPPERS**

**Description:**

This work consists of furnishing proper equipment and cleaning the existing bridge scuppers and downspouts in accordance with the notes and locations on the Plans as directed by the Engineer.

**Construction Methods:**

The Contractor shall remove sediment, debris, etc., from the box of the scupper and pipe outfalls. Once this blockage has been removed, the Contractor shall rout, if required, and flush downspouts with water under pressure to remove any obstructions and cleanse the system. Routing and flushing equipment shall be industry accepted equipment for this type of cleaning and flushing operation.

**Method of Measurement:**

The quantity scuppers cleaned will be measured as the actual number of each scupper cleaned and accepted.

**Basis of Payment:**

The quantity of scuppers cleaned will be paid for at the Contract unit price per each. Price and payment shall constitute full compensation for cleaning, routing and flushing in pipe from scupper to pipe discharge, disposal of removed materials, for all labor, tools, equipment and necessary incidentals to complete the work.

8/15/17

**616500 - MOISTURE CURED URETHANE PAINT SYSTEM (RECOATING)**  
**616501 - MOISTURE CURED URETHANE PAINT SYSTEM (RECOATING, S.F.)**

**Description:**

The items shall consist of recoating a portion or the entire existing steel structure as specifically indicated on the Plans.

**Material:**

All paint used on any one structure shall be produced by a single manufacturer; and the coating system shall conform to the minimum requirements as noted below.

**Primer**

Generic Type:	Zinc - rich, single-component, moisture-cured urethane
Vehicle Type:	Moisture-cured urethane
Volume of Solids:	60% Minimum
Pigment Type:	3.5 lbs/gal. Zinc dust
Pigment Content:	75% min. (ASTM D2371)
Zinc Iron Oxide Content in Dry Film by Wt (ASTM D521):	83% Minimum
Zinc Dust Particle Size (Ave.):	3-5 microns
Coverage:	3 mils DFT minimum
Isocyanate Content:	8.7% min. to 10.3% max.
VOC:	Not to exceed 2.8 lbs/gal
Weight Per Gallon:	Minimum 22 lbs/gal

**Intermediate Coat**

Generic Type:	Micaceous Iron Oxide-filled, single-component, moisture cured polyurethane
Vehicle Type:	Moisture-cured polyurethane
Volume Solids:	60% minimum
Solids by Wt.:	79% ± 2.0 min.
Pigment Type:	4.0 lbs/gal. Micaceous Iron Oxide Tinted to distinguish from primer and topcoat
Color:	Tinted to distinguish from primer and topcoat
Coverage:	3 mils DFT minimum
VOC:	Not to exceed 2.8 lbs/gal
Weight Per Gallon:	Minimum 12 lbs/gal

**Topcoat:**

Generic Type:	Micaceous Iron Oxide - filled, single-component, moisture-cured, aliphatic polyurethane
Vehicle Type:	Moisture-cured polyurethane
Vehicle Solids:	Minimum not > 50% of weight of solids
Volume Solids:	60% minimum
Solids by Weight:	Minimum 73% ± 5% Depending on color
Pigment Type:	4.0 lbs/gal Micaceous Iron Oxide
Finish:	Flat (low gloss)
Color:	To be specified in the Plans
Coverage:	3 mils DFT minimum
VOC:	Not to exceed 3.0 lbs/gal
Weight Per Gallon:	Minimum 12 lbs.

All M.I.O. (Micaceous Iron Oxide) filled products must conform to ASTM D5532-94 standard, Type I and have a certification of its conformance from the Raw Materials Manufacturer. Each single coat of paint shall be a color different from the others. The color of the primer and intermediate paint shall be at the Contractor's option, and shall provide contrast with the underlying substrate or previously applied paint. The color of the finish paint shall be as specified in the Contract Plans.

Successive time interval for coating in between prime coat, intermediate coat and finish coat shall be a minimum of four (4) and a maximum of 14 days. If the Contractor fails to complete the painting during the established period, the surface area shall be cleaned at the Contractor's expense if necessary as determined by the Engineer.

The Contractor may use one of the following approved paint systems:

1. Wasser High-Tech Coatings, Kent, WA 98032
  - Primer: Wasser MC Zinc (spot)(3 Mil, DFT)
  - Intermediate: Wasser MC-FERROX B (3 Mil, DFT)
  - Finish: Wasser FERROX A (3 Mil, DFT)
2. Sherwin Williams
  - Primer: Corothane I - Zinc Primer @ 3 mils DFT
  - Intermediate: Corothane I - IRONOX B @ 3 mils DFT
  - Finish: Corothane I - IRONOX A @ 3 mils DFT
3. - or an approved equal

Basis of Acceptance - All components of the system (primer, intermediate and finish coats) will be accepted on the basis of the manufacturer's written certification that the batch(s) produced meets their product specification. In addition, the Contractor shall submit a one quart sample of each component of the system (primer, intermediate and finish coats) to the DelDOT Materials and Research Section 30 days prior to the start of painting. The samples submitted shall be from the paint to be used on the bridge(s) with the same batch numbers and shall be labeled with the manufacturer's name, product name, compartment part, batch number, date of manufacturer, and the bridge on which it is to be used.

Only paint arriving at the work site in new, unopened containers shall be used.

Containers of paint shall be labeled with the manufacturer's name, product name, compartment part, batch number, date of manufacturer and shelf life date. Paint in containers having expired shelf life dates shall be immediately removed from the work site.

### **Construction Methods:**

All structural steel members, unless otherwise noted on the Plans railings, fascia, downspouts, and other miscellaneous steel items that have been previously painted shall be cleaned and primed, and painted two full coats of paint, the intermediate coat and the finish coat.

**Surface Preparation** - Surfaces to be cleaned shall be identified in the following manner:

Surfaces specified to be recoated shall be cleaned to bare metal in accordance with SSPC-SP11, Power Tool Cleaning to Bare Metal.

The perimeter or edge of intact paint adjoining the cleaned surface shall be feathered back and the adjoining paint shall be tightly adhered. Ragged edges on intact paint will not be allowed. Adherence will only be considered satisfactory if the adjoining remaining paint is smoothly feathered back and cannot be removed by lifting with a dull putty knife. After power tool cleaning operations are completed, all residue generated by the cleaning work shall be removed by vacuuming using HEPA filtered vacuums.

Surfaces shall be accepted by visual comparison to a project prepared standard. The Contractor shall prepare the project standard by power tool cleaning a representative area on the structure that is being prepared for painting. The prepared standard shall generally conform to SSPC-Vis 3, "Visual Standard for Power and Hand Tool Cleaned Steel", Pictorial Standard E SP11, F SP11, and G SP11, as applicable, and shall be approved by the Engineer before the start of general cleaning work. At least one standard shall be prepared for each structure that is being specified for cleaning. More than one standard may be necessary if the cleaned steel differs significantly from the photographic standards due to surface conditions or other factors. Each standard shall be at least 1' X 1' in size, and shall be located in an area of the structure that is accessible to, and approved by the Engineer.

The Contractor shall protect the projects standard from corrosion and contamination throughout the duration of work. Protection shall be by applying a clear coat of polyurethane, or other means. At the completion of cleaning work, the project standard shall be recleaned and painted in accordance with this specification. If in the opinion of the Engineer the project standard becomes deteriorated, or otherwise ineffective, it shall be re-established in accordance with this specification, at no additional cost to the Department.

The surface areas designated to be overcoated shall be solvent cleaned after water blasting.

**Painting -**

Manufacturer's Instructions - At least 5 working days prior to the start of work, the Contractor shall provide the Engineer with one copy of the paint manufacturer's current Technical Data and Material Safety Data Sheets for the paint materials being furnished. Instructions, suggestions, and precautions contained in the data sheets shall be followed to the extent that they do not contradict the provisions of this specification.

Specifications and Inspection Equipment - Prior to the start of and throughout the duration of work, the Contractor shall be required to supply the Engineer with the following:

One bound copy each of the Steel Structures Painting Council surface preparation specifications, SSPC-SP1, Solvent Cleaning and SSPC-SP11, Power Tool Cleaning to Bare Metal;

One bound copy of the Steel Structures Painting Council pictorial standard, SSPC-Vis 3, Visual Standard for Power and Hand Tool Cleaned Steel;

One bound copy of the Steel Structures Painting Council method SSPC-PA2, Paint Application Specification No. 2 - Measurement of Dry Film Thickness with Magnetic Gages;

One Air Thermometer, pocket type, 1-200°F;

One Surface Thermometer, 0-300°F; and

One Magnetic Dry Film Thickness Gage, Type 2 (fixed probe);

Atmospheric Conditions - Painting shall not be performed unless all the following conditions are met:

The receiving surface is clean and free of "rustback" and free of condensation and visible moisture; and

The receiving surface and ambient air temperature shall be as recommended by the paint manufacturer, except that in no case shall painting work to be performed when the surface and ambient temperatures are less than 35°F or greater than 100°F.

Mixing Paint - All paints shall be thoroughly mixed with mechanical mixers in accordance with the manufacturer's recommendations.

Solvent Restrictions - Thin only with approved manufacturer's thinner. Thinning is allowed only in strict accordance with manufacturer's recommendations and state VOC regulations. Unauthorized use of solvents shall result in recleaning and repainting of the surface in accordance with this specification, at the Contractor's expense.

Paint Application - Paint coatings may be applied using brush, roller, or spray methods, unless prohibited by the contract documents. When spray painting is prohibited, paint shall be applied using brushes or rollers only.

Stripe painting with primer will be required on the following surfaces cleaned to bare metal. All welds, rivets, bolts, nuts, and edges of plates, angles, lattice, pieces or other shapes, and corners and crevices shall be "striped" with primer before the general prime coat is applied. All stripe painting will be performed using a brush only. No other method of paint application will be allowed for stripe painting.

Complete protection against paint spatter, spillage, overspray, wind blown paint, or similar releases of paint shall be provided. Covers, tarps, mesh, and similar materials shall be placed around the work area to protect public and private property, pedestrian, vehicular, marine or other traffic, all portions of the bridge, highway appurtenances, waterways, and similar surrounding areas and property, upon, beneath, or adjacent to the structure.

Number of Coats - Areas cleaned to bare metal and specified the item Recoating shall be painted with one coat of primer. After the primer has dried, all surfaces shall be painted with two full coats of paint, the intermediate and the finish coat.

The bridge bearings that have received a coating of anti-corrosive grease shall receive a coat of finish paint from the 3rd coat of paint from the 3 coat system. The purpose is to blend the grease color with the structural steel being painted. Care shall be taken not to apply too much paint onto the bridge bearings and bottom flanges of the girders when painting the grease in order to avoid "mudcracking" of the paint system of the structural steel.

Film Thickness - Paint shall be applied in sufficient quantity to produce the minimum dry film thickness specified under Material, Paint.

Painting Schedule - Primer shall be applied on the same day of the cleaning operation and before rusting occurs to the cleaned surface. Failure to apply primer to a cleaned surface within 8 hours shall result in recleaning the surface in accordance with this specification at no additional cost to the Department.

The intermediate paint shall be applied to the receiving surface within 14 days of the application of the previous coating (primer), or within the manufacturer's recommended schedule for recoating, whichever is less.

The finish paint shall be applied to the receiving surface within 14 days of the application of the previous coating (intermediate), or within the manufacturer's recommended schedule for recoating, whichever is less.

Areas failing to meet the specified minimum dry film thickness shall be recoated with the same type of paint to produce at least the total dry film thickness required. Paint applied containing thinners, paint applied to contaminated surfaces, and paint applied contrary to this specification shall result in recleaning and repainting the surface. The work of recleaning and repainting, if required, shall be done by the Contractor to the satisfaction of the Engineer at no additional cost to the Department.

If a coat of anti-corrosive grease (NLGI Grade 2, either Mobile Centaur Moly Grease, Shell Rhodina SDX 2 Grease or approved equal) is applied to an area on the bridge (such as the bearings) then the grease shall be sprayed with the finish coat of the bridge paint being used providing that the bearing for other areas that are designated to receive the grease have already been cleaned and painted.

Material Storage - Paint in storage shall be protected from damage and maintained between 40°F and 85°F. Paint not used before the expiration shall be immediately removed from the project site.

#### **Painting of Galvanized Steel -**

All galvanized surfaces (downspouts, etc.) shall be painted with a moisture cure aluminum paint that is designed to adhere to galvanized steel surfaces. The moisture cure aluminum paint must follow the following requirements:

##### 1 coat system

Generic type:	Aluminum filled aromatic moisture cure urethane
Vehicle type:	Moisture cured aromatic polyurethane
Pigment type:	Minimum 2 lbs/gal non-leaching aluminum
Coverage:	2 mils D.F.T. minimum
VOC:	Not to exceed 3.5 lbs/gal
Weight per gallon:	9.2 lbs/gal
Solids by volume:	52.0 ± 1.0%
Shelf life:	6 months from date of shipment, in unopen original containers stored at temperatures below 86°F.

**Stenciling Requirement** - At the completion of the painting work, the completion date (month and year) and the bridge number, shall be stenciled on the structure in 3-inch numbers. The paint used for this marking shall be the same as the topcoat except the color shall be black. The numbers shall be stenciled on the outside of each fascia beam at the approaching traffic end of the structure, on a location designated by the Engineer. The Contractor shall paint the month and year of the existing stenciling after the existing stenciling area is cleaned and painted if so required in case of partial painting of the structure.

**Method of Measurement:**

Payment shall be made at the lump sum price bid and/or square foot basis as applicable to the Contract item(s).

**Basis of Payment:**

The payment for the item(s) shall be made at the contract unit price bid per Lump Sum for items 616500 and per Square Foot for item 616501, which constitutes full compensation for furnishing all materials, equipment necessary to complete the work, cost of providing protection against damage during paint application, for all labor, tools and necessary incidentals to complete the job.

Progress payments will be made based on the percentage of the structure primed and painted two full coats of paint in accordance with the specification. The percentage shall be computed as the ratio of the length of structure primed to the total length of structure. The percentage of payments to be paid to the Contractor shall be 25%, 50%, 75%, and 100% after the completion of the job.

6/29/17

**619500 - CONCRETE BLOCK SLOPE PAVING REPAIR, 4"**

**Description:**

This work consists of removing and disposing of the existing deteriorated material, furnishing concrete block of the size specified on the Plans, and installing in mortar in accordance with the locations, notes and details on the Plans and as directed by the Engineer.

**Materials and Construction Methods:**

Concrete for block shall be Class B, and shall conform to the requirements of Section 1022 of the Standard Specifications.

Mortar for installing the concrete block shall conform to the requirements of Section 619 of the Standard Specifications.

The foundation to which the concrete block is to be placed shall be shaped to an even surface and to the required grade. Immediately prior to placing the blocks, the surface shall be thoroughly compacted and dampened. All joints shall be completely filled with mortar and shall be finished properly as work progresses. Joint thickness should match the existing slope paving, unless otherwise noted on the Plans.

No slope paving work shall be performed in freezing weather.

**Method of Measurement:**

The quantity of concrete block slope paving repair will be measured as the number of square yards (meters) measured at surface of the slope paving repaired and accepted.

**Basis of Payment:**

The quantity of concrete block slope paving repair will be paid for at the Contract unit price per square yard (meter). Price and payment shall constitute full compensation for removal and disposal, furnishing and placing all materials, furnishing and placing foundation material, foundation preparation, vegetation and debris removal, for all labor, equipment, tools, and necessary incidentals to complete the work.

7/12/17

**619501 - CONCRETE BLOCK SLOPE PAVING REPAIR, 6"**

**Description:**

This work consists of removing and disposing of the existing deteriorated material, furnishing concrete block of the size specified on the Plans, and installing in mortar in accordance with the locations, notes and details on the Plans and as directed by the Engineer.

**Materials and Construction Methods:**

Concrete for block shall be Class B, and shall conform to the requirements of Section 1022 of the Standard Specifications.

Mortar for installing the concrete block shall conform to the requirements of Section 619 of the Standard Specifications.

The foundation to which the concrete block is to be placed shall be shaped to an even surface and to the required grade. Immediately prior to placing the blocks, the surface shall be thoroughly compacted and dampened. All joints shall be completely filled with mortar and shall be finished properly as work progresses. Joint thickness should match the existing slope paving, unless otherwise noted on the Plans.

No slope paving work shall be performed in freezing weather.

**Method of Measurement:**

The quantity of concrete block slope paving repair will be measured as the number of square yards measured at surface of the slope paving repaired and accepted.

**Basis of Payment:**

The quantity of concrete block slope paving repair will be paid for at the Contract unit price per square yard. Price and payment shall constitute full compensation for removal and disposal, furnishing and placing all materials, furnishing and placing foundation material, foundation preparation, vegetation and debris removal, for all labor, equipment, tools, and necessary incidentals to complete the work.

2/28/2018

**624500 - JOINT REPAIR WITH ELASTOMERIC CONCRETE, 2"****Description:**

This work consists of furnishing of all materials and necessary labor to remove a portion of the existing elastomeric concrete joint system, repair the existing deck spalls in the vicinity of the joint, clean the existing joint armor, anchorage and extrusions, reset the joint armor and anchorage using elastomeric concrete, paint the exposed joint armor surfaces and install a new neoprene strip as specified in the details, in accordance with these Special Provisions and as directed by the Engineer.

**Materials:**

Steel members of the types, size and configurations shown on the plans shall conform to AASHTO M 270M Grade 36 or 50W (AASHTO M 270M Grade 250 or 345W), unless specified otherwise on the details. All steel of the joint system shall have fusion bonded epoxy coating with thickness of  $12\pm 2''$  ( $300\pm 50$  mm), and all screws shall be stainless steel ASTM F-738 Type 304.

The elastomeric material shall be 100% virgin Polychloroprene (Neoprene). The strip seal shall be an extruded neoprene material meeting the requirements of ASTM D2628 modified to omit the recovery test. The elastomeric material shall have the following physical properties as determined by applicable ASTM tests:

<u>ASTM Standard</u>	<u>Physical Properties</u>	<u>Performance Requirements</u>
D2240 (Modified)	Hardness Durometer (Type A)	$60\pm 7$ points
D412	Tensile Strength Ultimate Elongation	2000 psi (13.8 MPa), min. 250%, min.
D395 (Method B)	Compressive Set 70 hr. @ 212°F (100°C)	40%, max.
D573	Heat Resistance (oven aging) [70 hrs. @ 212°F (100°C)] Change in durometer max. hardness Change in tensile strength Change in ultimate elongation	0 to +10 points, -20%, max. -20%, max.
D1630	Abrasion Resistance	Index of 200 or greater Permissible
D1149	Ozone Resistance 20 percent strain, 300 pphm in air, 70h @ 140°F (60°C) (wiped with toluene to remove surface contamination)	No cracks
D471	Oil Swell, ASTM Oil #3 70 h @ 212°F (100°C), Weight Change	45%, max.

<u>ASTM Standard</u>	<u>Physical Properties</u>	<u>Performance Requirements</u>
D2240	Low Temperature Stiffening Durometer max. 7 days @ 14°F (-10°C)	+15 points  (Type A)

Use elastomeric concrete that shows over five (5) years and over 2000 linear feet of successful field application in comparable traffic situations. Elastomeric concrete shall be WABOCRETE II as manufactured by Watson-Bowman & Acme Corporation, 95 Pineview Drive, Amherst, NY 14120, telephone 1-716-691-7566, or DELCRETE as manufactured by D. S. Brown, 300 East Cherry Street, North Baltimore, Ohio 45872, telephone 1-419-257-3561, or an approved equal.

Use a Department approved bonding agent between the existing deck concrete and the elastomeric concrete.

**Construction Methods:**

The existing joint shall be removed as shown in the provided details. Removal and disposal of all elastomeric concrete material shall be in accordance with Section 211 of the Standard Specifications. Removal and disposal of any steel material shall be in accordance with Section 615 of the Standard Specifications. The existing joint armor, anchorage and extrusion shall be removed by torch cutting.

The steel joint armor shall be blast cleaned to remove all rust, dirt, oil and debris. If the existing joint armor, anchorage or extrusion is damaged during the removal process, a new joint armor assembly shall be provided at no additional cost to the Department.

Deck spall repair required prior to joint reconstruction shall be performed in accordance with the Contract General Notes.

All welding and steel cutting work shall conform to the applicable requirements of Subsection 615.03 of the Standard Specifications. All exposed steel shall be painted per Subsection 616 of the Standard Specifications.

All concrete surfaces to receive elastomeric concrete shall be free from dirt, oil, rust and any other loose foreign debris which may be detrimental to effective bonding. Apply a bonding agent to all existing concrete surfaces that will receive elastomeric concrete. Spalls and cracks shall be repaired with Acme Elastomeric Concrete, Ceva-Crete patch mortar or approved equal to form clean joint opening with sharp edges.

Installation of the joint system including armor, strip seal, steel extrusion and application of adhesives and elastomeric concrete, shall be in accordance with the manufacturer's written recommendations and instructions and as specified herein. Special tools for insertion of seals shall be provided by the manufacturer as may be required. The Contractor shall verify the joint opening and anticipated movement prior to ordering the strip seal. The Contractor shall make arrangements for a technical representative of the manufacturer to be at the project site for advice and inspection during construction of strip seals to ensure satisfactory installation.

Welding shall conform to all applicable requirements of ANSI/AASHTO/AWS D1.5-2002. including qualification of welders. For new joint armor, welds at mitered joints in steel extrusions, between steel extrusions and plates and between studs and plates shall be tested by magnetic particle test methods by a testing laboratory approved by the State. The Contractor shall submit the laboratory's inspection to the Engineer. All field welds will be visually inspected by the Engineer. Where, in the opinion of the Engineer, welds are defective, they shall be rewelded or repaired in a manner acceptable to the Engineer.

The installation procedure as described herein shall be adhered to unless modified by the Engineer.

The opening of the joint shall be set at the width required for the seal at a temperature of 68°F (20°C).

The existing joint assembly or new prefabricated joint assembly shall be positioned and attached to the structure by anchorages. Width adjustments shall be made at the discretion of the Engineer and manufacturer's representative.

The prefabricated joint shall be reset normal to the grade of the existing deck.

**Method of Measurement:**

The quantity of joints repaired with elastomeric concrete will be measured in linear feet along the centerline of the joint.

**Basis of Payment:**

The quantity of joints repaired with elastomeric concrete will be paid for at the Contract price per linear foot. Price and payment will constitute full compensation for, furnishing, and installing all materials, labor, equipment and all else necessary therefore and incidental thereto.

4/4/17

**628500 - EMBEDDED GALVANIC ANODES**

**Description:**

This item consists of furnishing and installing sacrificial metal anodes within concrete masonry in accordance with these specifications, notes and details on the Plans and directions from the Engineer.

**Material:**

The galvanic anodes shall be encapsulated sacrificial metal with wire ties. When attached to the steel reinforcement and embedded in the repair mortar or concrete the galvanic anodes shall prevent corrosion of the reinforcement. The galvanic anodes shall be CORR-STOPS as supplied by Vector Corrosion Technologies (phone 330-723-1177), GALVASHIELD XP as supplied by Norcure Chloride Removal System (phone 204-489-9633), or an approved equal.

**Construction Methods:**

Construction methods shall conform to the installation instructions of the manufacturer, notes and details on the Plans and directions from the Engineer.

**Method of Measurement:**

The quantity of embedded galvanic anodes will be measured as the actual number of galvanic anodes installed and accepted.

**Basis of Payment:**

The quantity of embedded galvanic anodes will be paid for at the Contract unit price per each. Price and payment will constitute full compensation for furnishing and installing the galvanic anodes including any materials and preparation required by the manufacturer and all labor, equipment, tools and incidentals required to complete the work.

6/28/17

**824503 - JOINT REPAIR WITH ELASTOMERIC CONCRETE, 3"**

**Description:**

This work consists of furnishing of all materials and necessary labor to remove a portion of the existing elastomeric concrete joint system, repair the existing deck spalls in the vicinity of the joint, clean the existing joint armor, anchorage and extrusions, reset the joint armor and anchorage using elastomeric concrete, paint the exposed joint armor surfaces and install a new neoprene strip as specified in the details, in accordance with these Special Provisions and as directed by the Engineer.

**Materials:**

Steel members of the types, size and configurations shown on the plans shall conform to AASHTO M 270M Grade 36 or 50W (AASHTO M 270M Grade 250 or 345W), unless specified otherwise on the details. All steel of the joint system shall have fusion bonded epoxy coating with thickness of 12±2" (300±50 mm), and all screws shall be stainless steel ASTM F-738 Type 304.

The elastomeric material shall be 100% virgin Polychloroprene (Neoprene). The strip seal shall be an extruded neoprene material meeting the requirements of ASTM D2628 modified to omit the recovery test. The elastomeric material shall have the following physical properties as determined by applicable ASTM tests:

<u>ASTM Standard</u>	<u>Physical Properties</u>	<u>Performance Requirements</u>
D2240 (Modified)	Hardness Durometer (Type A)	60± 7 points
D412	Tensile Strength Ultimate Elongation	2000 psi (13.8 MPa), min. 250%, min.
D395 (Method B)	Compressive Set 70 hr. @ 212°F (100°C)	40%, max.
D573	Heat Resistance (oven aging) [70 hrs. @ 212°F (100°C)] Change in durometer max. hardness Change in tensile strength Change in ultimate elongation	0 to +10 points, -20%, max. -20%, max.
D1630	Abrasion Resistance	Index of 200 or greater Permissible
D1149	Ozone Resistance 20 percent strain, 300 pphm in air, 70h @ 140°F (60°C) (wiped with toluene to remove surface contamination)	No cracks
D471	Oil Swell, ASTM Oil #3 70 h @ 212°F (100°C), Weight Change	45%, max.

<u>ASTM Standard</u>	<u>Physical Properties</u>	<u>Performance Requirements</u>
D2240	Low Temperature Stiffening Durometer max. 7 days @ 14°F (-10°C)	+15 points  (Type A)

Use elastomeric concrete that shows over five (5) years and over 2000 linear feet of successful field application in comparable traffic situations. Elastomeric concrete shall be WABOCRETE II as manufactured by Watson-Bowman & Acme Corporation, 95 Pineview Drive, Amherst, NY 14120, telephone 1-716-691-7566, or DELCRETE as manufactured by D. S. Brown, 300 East Cherry Street, North Baltimore, Ohio 45872, telephone 1-419-257-3561, or an approved equal.

Use a Department approved bonding agent between the existing deck concrete and the elastomeric concrete.

**Construction Methods:**

The existing joint shall be removed as shown in the provided details. Removal and disposal of all elastomeric concrete material shall be in accordance with Section 607 of the Standard Specifications. Removal and disposal of any steel material shall be in accordance with Section 605 of the Standard Specifications. The existing joint armor, anchorage and extrusion shall be removed by torch cutting.

The steel joint armor shall be blast cleaned to remove all rust, dirt, oil and debris. If the existing joint armor, anchorage or extrusion is damaged during the removal process, a new joint armor assembly shall be provided at no additional cost to the Department.

Deck spall repair required prior to joint reconstruction shall be performed in accordance with the Contract General Notes.

All welding and steel cutting work shall conform to the applicable requirements of Subsection 605.17 of the Standard Specifications. All exposed steel shall be painted per Subsection 605.35 of the Standard Specifications.

All concrete surfaces to receive elastomeric concrete shall be free from dirt, oil, rust and any other loose foreign debris which may be detrimental to effective bonding. Apply a bonding agent to all existing concrete surfaces that will receive elastomeric concrete. Spalls and cracks shall be repaired with Acme Elastomeric Concrete, Ceva-Crete patch mortar or approved equal to form clean joint opening with sharp edges.

Installation of the joint system including armor, strip seal, steel extrusion and application of adhesives and elastomeric concrete, shall be in accordance with the manufacturer's written recommendations and instructions and as specified herein. Special tools for insertion of seals shall be provided by the manufacturer as may be required. The Contractor shall verify the joint opening and anticipated movement prior to ordering the strip seal. The Contractor shall make arrangements for a technical representative of the manufacturer to be at the project site for advice and inspection during construction of strip seals to ensure satisfactory installation.

Welding shall conform to all applicable requirements of ANSI/AASHTO/AWS D1.5-2002. including qualification of welders. For new joint armor, welds at mitered joints in steel extrusions, between steel extrusions and plates and between studs and plates shall be tested by magnetic particle test methods by a testing laboratory approved by the State. The Contractor shall submit the laboratory's inspection to the Engineer. All field welds will be visually inspected by the Engineer. Where, in the opinion of the Engineer, welds are defective, they shall be rewelded or repaired in a manner acceptable to the Engineer.

The installation procedure as described herein shall be adhered to unless modified by the Engineer.

The opening of the joint shall be set at the width required for the seal at a temperature of 68°F (20°C).

The existing joint assembly or new prefabricated joint assembly shall be positioned and attached to the structure by anchorages. Width adjustments shall be made at the discretion of the Engineer and manufacturer's representative.

The prefabricated joint shall be reset normal to the grade of the existing deck.

**Method of Measurement:**

The quantity of joints repaired with elastomeric concrete will be measured in linear feet along the centerline of the joint.

**Basis of Payment:**

The quantity of joints repaired with elastomeric concrete will be paid for at the Contract price per linear foot. Price and payment will constitute full compensation for, furnishing, and installing all materials, labor, equipment and all else necessary therefore and incidental thereto.

6/4/09

# **BID PROPOSAL FORMS**

**CONTRACT T201807702.01**

UNLESS OTHERWISE DIRECTED, SUBMIT ALL FOLLOWING PAGES TO:

DEPARTMENT OF TRANSPORTATION  
BIDDERS ROOM (B1.11.01)  
800 BAY ROAD  
DOVER, DELAWARE 19901

Identify the following on the outside of the sealed envelope:

- Contract Number T201807702.01
- Name of Contractor

CONTRACT ID: T201807702.01

PROJECT(S): T201807702

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 STRUCTURE ITEMS

0010	202000 EXCAVATION AND EMBANKMENT	CY	200.000			
0020	209001 BORROW, TYPE A	CY	50.000			
0030	209006 BORROW, TYPE F	CY	50.000			
0040	211001 REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	25.000			
0050	211500 TREE REMOVAL, 6" TO 15" DIAMETER	EACH	4.000			
0060	211501 TREE REMOVAL, GREATER THAN 15" TO 25" DIAMETER	EACH	2.000			
0070	211502 TREE REMOVAL, GREATER THAN 25" TO 37" DIAMETER	EACH	2.000			
0080	211503 TREE REMOVAL, GREATER THAN 37" TO 49" DIAMETER	EACH	2.000			
0090	211504 TREE REMOVAL, GREATER THAN 49" DIAMETER	EACH	1.000			

CONTRACT ID: T201807702.01

PROJECT(S): T201807702

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0100	301002 GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	25.000 CY				
0110	302002 DELAWARE NO. 3 STONE	25.000 TON				
0120	401029 SUPERPAVE TYPE C, PG 64-22, PATCHING	25.000 TON				
0130	401030 SUPERPAVE TYPE B, PG 64-22, PATCHING	25.000 TON				
0140	402000 BITUMINOUS CONCRETE PATCHING	250.000 SYIN				
0150	403000 BITUMINOUS CONCRETE AND/OR COLD-LAID BITUMINOUS (TRM) CONCRETE	50.000 TON				
0160	504001 CRACK AND JOINT SEALING LESS THAN 3/4 INCH WIDE	100.000 LF				
0170	504002 CRACK AND JOINT SEALING, 3/4 INCH TO 1 3/4 INCH WIDE	100.000 LF				
0180	601503 CLEANING BRIDGE SCUPPERS	5.000 EACH				
0190	610000 PORTLAND CEMENT CONCRETE MASONRY, CLASS A	10.000 CY				

CANNOT BE USED FOR BIDDING

CONTRACT ID: T201807702.01

PROJECT(S): T201807702

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0200	611004 BAR REINFORCEMENT, ZINC AND EPOXY DUAL-COATED	7500.000 LB				
0210	613001 SILICONE-BASED ACRYLIC CONCRETE SEALER	8000.000 SF				
0220	613002 SILANE-BASED CONCRETE DECK SEALER	5000.000 SF				
0230	616501 MOISTURE CURED URETHANE PAINT SYSTEM (RECOATING, S.F.)	300.000 SF				
0240	619000 STONE MASONRY	400.000 SF				
0250	619002 POINTING EXISTING MASONRY	100.000 LF				
0260	619500 CONCRETE BLOCK SLOPE PAVING REPAIR, 4"	100.000 SY				
0270	619501 CONCRETE BLOCK SLOPE PAVING REPAIR, 6"	100.000 SY				
0280	623004 CLEAN AND GREASE BRIDGE BEARINGS	30.000 EACH				
0290	624000 PREFABRICATED EXPANSION JOINT SYSTEM, 3"	200.000 LF				

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0300	624005 STRIP SEAL GLAND, 3"	200.000 LF				
0310	624009 ASPHALTIC PLUG JOINT	500.000 LF				
0320	624010 SILICONE JOINT SEAL, 1"	500.000 LF				
0330	624011 SILICONE JOINT SEAL, 2"	400.000 LF				
0340	624012 SILICONE JOINT SEAL, 3"	100.000 LF				
0350	624500 JOINT REPAIR WITH ELASTOMERIC CONCRETE 2"	400.000 LF				
0360	625001 FURNISHING LATEX-MODIFIED CONCRETE OVERLAY	10.000 CY				
0370	628001 REPAIR OF CONCRETE STRUCTURE BY EPOXY INJECTION	400.000 LF				
0380	628011 CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALKS, ETC	2500.000 LF				
0390	628020 ROUT AND SEAL CRACKS	300.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0400	628040 SHALLOW SPALL REPAIR	300.000 CF				
0410	628041 DEEP SPALL REPAIR	650.000 CF				
0420	628042 REHABILITATION OF PORTLAND CEMENT CONCRETE MASONRY	25.000 CY				
0430	628051 DECK REPAIR, 1" TO 3" DEPTH	1800.000 SF				
0440	628052 DECK REPAIR, 3" TO < FULL DEPTH	1800.000 SF				
0450	628053 DECK REPAIR, FULL DEPTH	400.000 SF				
0460	628070 DRILLING HOLES AND INSTALLING DOWELS	150.000 EACH				
0470	628500 EMBEDDED GALVANIC ANODES	25.000 EACH				
0480	701013 PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	25.000 LF				
0490	701014 PORTLAND CEMENT CONCRETE CURB, TYPE 2	25.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0500	705001 PORTLAND CEMENT CONCRETE SIDEWALK, 4"	50.000 SF				
0510	705002 PORTLAND CEMENT CONCRETE SIDEWALK, 6"	150.000 SF				
0520	705007 SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	50.000 SF				
0530	705008 CURB RAMP, TYPE 1	50.000 SF				
0540	705009 CURB RAMP, TYPE 2, 3, AND/OR 4	50.000 SF				
0550	707001 RIPRAP, R-4	50.000 SY				
0560	707002 RIPRAP, R-5	150.000 SY				
0570	707012 RIPRAP, R-6	150.000 CY				
0580	708003 GEOTEXTILES, RIPRAP	50.000 SY				
0590	760010 PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	1500.000 SYIN				

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0600	760013 PAVEMENT MILLING, PORTLAND CEMENT CONCRETE PAVEMENT	1000.000 SYIN				
0610	762000 SAW CUTTING, BITUMINOUS CONCRETE	100.000 LF				
0620	762001 SAW CUTTING, CONCRETE, FULL DEPTH	1000.000 LF				
0630	763000 INITIAL EXPENSE/DE-MOBILIZATION	LUMP	LUMP			
0640	801000 MAINTENANCE OF TRAFFIC	LUMP	LUMP			
0650	802003 ARROW PANELS TYPE C	400.000 EADY				
0660	803001 FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	400.000 EADY				
0670	804001 FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	75.000 EADY				
0680	805001 PLASTIC DRUMS	25000.000 EADY				
0690	806001 TRAFFIC OFFICERS	250.000 HOUR	75.00000		18750.00	

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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0700	807001 FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.000 LF				
0710	807003 FURNISH AND INSTALL TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN CONCRETE	150.000 LF				
0720	807004 RELOCATE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.000 LF				
0730	807006 RELOCATE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN CONCRETE	150.000 LF				
0740	807007 REFLECTOR PANELS	25.000 EACH				
0750	807009 REMOVE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, UNPINNED	500.000 LF				
0760	807010 REMOVE TEMPORARY PORTLAND CEMENT CONCRETE SAFETY BARRIER, PINNED IN BITUMINOUS PAVEMENT	150.000 LF				
0770	808002 FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	400.000 EADY				

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0780	809001 INSTALL TEMPORARY IMPACT ATTENUATOR	3.000 EACH				
0790	809005 FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	3.000 EACH				
0800	809006 RELOCATE TEMPORARY IMPACT ATTENUATOR	3.000 EACH				
0810	810001 TEMPORARY WARNING SIGNS AND PLAQUES	7000.000 EADY				
0820	811001 FLAGGER, NEW CASTLE COUNTY STATE	400.000 HOUR				
0830	811013 FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	10.000 HOUR				
0840	813001 TEMPORARY BARRICADES, TYPE III	5000.000 LFDY				
0850	817003 TEMPORARY MARKINGS, PAINT, 4"	5000.000 LF				
0860	817009 TEMPORARY MARKINGS, TAPE, 4"	500.000 SF				
0870	817013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	5000.000 LF				

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PROJECT(S): T201807702

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0880	817014 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	500.000 LF				
0890	817018 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	500.000 LF				
0900	817031 REMOVAL OF PAVEMENT STRIPING	5000.000 SF				
0910	817034 RETROREFLECTIVE PERFORMED PATTERNED MARKINGS, 9"	150.000 LF				
0920	824503 JOINT REPAIR WITH ELASTOMERIC CONCRETE, 3"	50.000 LF				
0930	905001 SILT FENCE	100.000 LF				
0940	908004 TOPSOIL, 6" DEPTH	50.000 SY				
0950	908014 PERMANENT GRASS SEEDING, DRY GROUND	50.000 SY				
	SECTION 0001 TOTAL					
	TOTAL BID					

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**AFFIDAVIT  
OF  
EMPLOYEE DRUG TESTING PROGRAM**

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite, including subcontractors that complies with this regulation:

**Contractor Name:** \_\_\_\_\_

**Contractor Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Authorized Representative (typed or printed):** \_\_\_\_\_

**Authorized Representative (signature):** \_\_\_\_\_

**Title:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_ . NOTARY PUBLIC \_\_\_\_\_ .

**THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.**

**CERTIFICATION**  
Contract No. T201807702.01

The undersigned bidder, \_\_\_\_\_  
whose address is \_\_\_\_\_  
and telephone number is \_\_\_\_\_ hereby certifies the following:

I/We have carefully examined the location of the proposed work, the proposed plans and specifications, and will be bound, upon award of this contract by the Department of Transportation, to execute in accordance with such award, a contract with necessary surety bond, of which contract this proposal and said plans and specifications shall be a part, to provide all necessary machinery, tools, labor and other means of construction, and to do all the work and to furnish all the materials necessary to perform and complete the said contract within the time and as required in accordance with the requirements of the Department of Transportation, and at the unit prices for the various items as listed on the preceding pages.

The foregoing quantities are considered to be approximate only and are given as the basis for comparison of bids. The Department of Transportation may increase or decrease the amount of any item or portion of the work as may be deemed necessary or expedient. Any such increase or decrease in the quantity for any item will not be regarded as a sufficient ground for an increase or decrease in the unit prices, nor in the time allowed for the completion of the work, except as provided in the contract.

Accompanying this proposal is a surety bond or a security of the bidder assigned to the Department of Transportation, for at least ten (10) percentum of total amount of the proposal, which deposit is to be forfeited as liquidated damages in case this proposal is accepted, and the undersigned shall fail to execute a contract with necessary bond, when required, for the performance of said contract with the Department of Transportation, under the conditions of this proposal, within twenty (20) days after date of official notice of the award of the contract as provided in the requirement and specifications hereto attached; otherwise said deposit is to be returned to the undersigned.

I/We are licensed, or have initiated the license application as required by Section 2502, Chapter 25, Title 30, of the Delaware Code.

By submission of this proposal, each bidder and each person signing on behalf of any bidder, certifies as to its own organization, under penalty of perjury, that to the best of each signer's knowledge and belief:

1. The prices in this proposal have been arrived at independently without collusion, consultation, communication, or Agreement with any other bidder or with any competitor for the purpose of restricting competition.
2. Unless required by law, the prices which have been quoted in this proposal have not been knowingly disclosed and will not knowingly be disclosed by the bidder, directly or indirectly, to any other bidder or competitor prior to the opening of proposals.
3. No attempt has been made or will be made by the bidder to induce any other person, partnership, or corporation to submit or not to submit a proposal for the purpose of restricting competition.

=====  
I/We acknowledge receipt and incorporation of addenda to this proposal as follows:

No.	Date								
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

**BIDDERS MUST ACKNOWLEDGE RECEIPT OF ALL ADDENDA**

**MUST INSERT DATE OF FINAL QUESTIONS AND ANSWERS ON WEBSITE:** \_\_\_\_\_



**AFFIRMATION:**

Within the past five (5) years, has your firm, any affiliate, any predecessor company or entity, owner, Director, officer, partner or proprietor been the subject of a Federal, State, Local government suspension or debarment?

YES \_\_\_\_\_ NO \_\_\_\_\_ if yes, please explain \_\_\_\_\_

Sealed and dated this \_\_\_\_\_ day of \_\_\_\_\_ in the year of our Lord two thousand \_\_\_\_\_ (20\_\_\_\_).

\_\_\_\_\_  
Name of Bidder (Organization)

Corporate  
Seal

By:

\_\_\_\_\_  
Authorized Signature

Attest \_\_\_\_\_

\_\_\_\_\_  
Title

SWORN TO AND SUBSCRIBED BEFORE ME this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Notary  
Seal

\_\_\_\_\_  
Notary

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**BID BOND**

TO ACCOMPANY PROPOSAL  
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: \_\_\_\_\_

of \_\_\_\_\_ in the County of \_\_\_\_\_ and State of \_\_\_\_\_  
as **Principal**, and \_\_\_\_\_ of \_\_\_\_\_ in the County of \_\_\_\_\_  
and State of \_\_\_\_\_ as **Surety**, legally authorized to do business in the  
State of Delaware ("**State**"), are held and firmly bound unto the **State** in the sum of \_\_\_\_\_  
Dollars (\$ \_\_\_\_\_), or \_\_\_\_\_ percent not to exceed \_\_\_\_\_

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_) of amount of bid on  
Contract No. T201807702.01, to be paid to the **State** for the use and benefit of its Department of  
Transportation ("**DelDOT**") for which payment well and truly to be made, we do bind ourselves, our and  
each of our heirs, executors, administrators, and successors, jointly and severally for and in the whole  
firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bounden **Principal**  
who has submitted to the **DelDOT** a certain proposal to enter into this contract for the furnishing of  
certain materiel and/or services within the **State**, shall be awarded this Contract, and if said **Principal**  
shall well and truly enter into and execute this Contract as may be required by the terms of this Contract  
and approved by the **DelDOT**, this Contract to be entered into within twenty days after the date of official  
notice of the award thereof in accordance with the terms of said proposal, then this obligation shall be  
void or else to be and remain in full force and virtue.

Sealed with \_\_\_\_\_ seal and dated this \_\_\_\_\_ day of \_\_\_\_\_ in the year of our Lord  
two thousand and \_\_\_\_\_ ( 20\_\_\_\_ ).

SEALED, AND DELIVERED IN THE  
presence of

\_\_\_\_\_  
Name of Bidder (Organization)

Corporate  
Seal

By: \_\_\_\_\_  
Authorized Signature

Attest \_\_\_\_\_

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name of Surety

Witness: \_\_\_\_\_

By: \_\_\_\_\_  
\_\_\_\_\_  
Title