



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
10600197

PAGE
1

ADDRESS: CORRESPONDENCE TO ATTENTION OF:
JOHN JOHNSTON
304-558-2402

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/14/2006				

BID OPENING DATE: **06/07/2006** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		315-25		
<p>EPOXY-URETHANE COPOLYMER OVERLAY ON BRIDGE DECKS</p> <p>TO FURNISH ALL LABOR, EQUIPMENT, SPECIALIZED EQUIPMENT AND MATERIALS TO PRODUCE A TREATMENT OF CRACKS AND APPLY A THIN EPOXY-URETHANE COPOLYMER OVERLAY ON THE FOLLOWING BRIDGE DECKS: PARAPET TO PARAPET FOR LIEUTENANT JAMES L. SMITH MEMORIAL BRIDGE NO. 55-16-11.51. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS.</p> <p>EXHIBIT 5</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 120 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED. UNLESS OTHERWISE SPECIFIED, THE FULLY EXECUTED PURCHASE ORDER WILL BE CONSIDERED NOTICE TO PROCEED.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR WYOMING COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required registration fee. (Effective June 8, 2006, the fee will change from \$45.00 to \$125.00 pursuant to House Bill 4031.)
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **DUPLICATE BIDS:** All quotations must be delivered by the bidder to the respective offices listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

ORIGINAL SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

DUPLICATE BID TO:

State Auditor's Office
Bid Observer
Building 1 Room W114
1900 Kanawha Boulevard, East
Charleston, WV 25305-0230

NOTICE: Beginning June 8, 2006, there is no need to submit a duplicate bid to the State Auditor's Office pursuant to House Bill 4031.



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				<p>INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.</p> <p>() BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT.</p> <p>(XX) BONDS: FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL BE SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK, IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A PERFORMANCE AND LABOR & MATERIAL BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCEPABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.</p>		

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				<p>() MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BOND COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR.</p> <p>REV. 11/00</p> <p>EXHIBIT 9</p> <p>NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA</p> <p>THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:</p> <p>(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED.</p> <p>(2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE.</p> <p>(3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION AND THE STATE AUDITOR'S OFFICE. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR</p>		

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PAGE
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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
	DATE.					
	REV. 11/96					
	EXHIBIT 10					
	ADDENDUM ACKNOWLEDGEMENT					
	I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.					
	ADDENDUM NOS.:					
	NO. 1					
	NO. 2					
	NO. 3					
	NO. 4					
	NO. 5					
	I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.					
SIGNATURE					
COMPANY					
DATE					
	REV. 11/96					

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PAGE
5

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LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
CONTRACTORS LICENSE						
WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.						
WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.						
BIDDER TO COMPLETE:						
CONTRACTORS NAME:						
CONTRACTORS LICENSE NO.:						
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT						
APPLICABLE LAW						
THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULE AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.						
ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR						

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PAGE
6

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<p>ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 1/2005</p> <p style="text-align: center;">NOTICE</p> <p>AN ORIGINAL, SIGNED BID MUST BE SUBMITTED TO:</p> <p style="padding-left: 40px;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>AN EXACT DUPLICATE MUST BE SUBMITTED TO:</p> <p style="padding-left: 40px;">STATE AUDITOR'S OFFICE BID OBSERVER BUILDING 1, ROOM W114 1900 KANAWHA BOULEVARD, EAST CHARLESTON, WV 25305-0230</p> <p>BOTH BIDS MUST CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPES OR THE BIDS MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p>						

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LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
BUYER:			33			
REQ. NO.:			10600197			
BID OPENING DATE AND TIME						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						

PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:						

***** THIS IS THE END OF RFQ 10600197 ***** TOTAL: _____						

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SPECIFICATION

1/4" Thick Overlay

CRACK TREATMENT AND EPOXY-URETHANE WATERPROOFING OVERLAY FOR BRIDGE DECKS

1. SCOPE

- 1.1 This specification describes the Pre-treatment and Overlay consisting of multiple layers of hybrid polymer systems and a special blend of extremely hard aggregate designed to provide a minimum of a 1/4-inch thick application for the purpose of complete waterproofing as well as providing a non-skid surface to withstand continuous heavy traffic and extreme changes in weather conditions.

2. MATERIALS

Pre-treatment:

2.1 Hairline cracks and encapsulating steel grid

This two-part hybrid polymer shall be free of any fillers, volatile solvents and shall be formulated to provide a simple volumetric ratio of two components such as one to one or two to one by volume.

This hybrid polymer system shall be formulated to provide a unique combination of **extremely low viscosity and low surface tension** coupled with a built in **affinity for concrete and steel**.

Overlay:

- 2.2 The two-part epoxy-urethane co-polymer system shall be free of any fillers volatile solvents and shall be formulated to provide simple volumetric mixing ratio of two components such as one to one or two to one by volume.

The epoxy-urethane co-polymer system shall be formulated to provide flexibility in the system without any sacrifice of the hardness, chemical resistance or strength of the epoxy-urethane co-polymer system. Use of external/conventional flexibilizers are not acceptable. Flexibility shall be introduced by interaction of elastomers to chemically link in the process of curing so that the flexibility of the molecule is least affected during the low temperature conditions that are confronted in actual use.

2.3 Material Requirements

- 2.3.1 **Physical Requirements of Cured *Pretreatment for Cracks* System.** When Components A and B are mixed in the appropriate ratio, the cured resin shall conform to the requirements of Table 1. (Test methods are discussed in detail in Item 3 of this specification.)

TABLE 1	
PHYSICAL PROPERTIES OF THE CURED SYSTEM	
Property	Value
Compressive Strength, min. psi	5,500-6,000
Tensile Strength, min. psi	3,100-3,400
<i>Tensile Elongation, percent min.</i>	<i>35 ± 5</i>
Water Absorption, percent by wt. max.	<0.10
Shore D Hardness, 25°C (77°F), min	70 ± 5
Gel Time, minutes	48-52 (200 grams)
Adhesion to Concrete	100% Failure in Concrete
<i>Surface Tension</i>	<i>Less than 32 Dynes/cc</i>
Percent Solids	100%

- 2.3.2 **Physical requirements of Epoxy-Urethane Co-polymer Overlay System.** When Components A and B are mixed in the appropriate ratio, the cured resin shall conform to the requirements of Table 2. (Test methods are discussed in detail in Item 3 of this specification.)

TABLE 2	
PHYSICAL PROPERTIES OF THE CURED SYSTEM	
Property	Value
Compressive Strength, min. psi	7,000
Tensile Strength, min. psi	2,500
Tensile Elongation, percent min.	35 ± 5
Water Absorption, percent by wt. max.	<0.20
Shore D Hardness, 25°C (77°F), min	65 ± 5
Gel Time, minutes	22-31 (200 grams)
Abrasion Resistance, mg. max.	85
Adhesion to Concrete	100% Failure in Concrete
<i>Flexural Creep: Total Movement in 7 Days</i>	<i>.0065 inches</i>
Flexural Yield Strength, min. psi	5,000
Percent Solids	100%

2.3.2.1 **Visco-Elastic Properties of Epoxy-Urethane Co-polymer system**

The modulus of the cured epoxy-urethane system determined by variable temperature Dynamic Mechanical Analysis (DMA) using DMA instruments such as Paar Physica UDS-200, shall conform to the following minimum values as given in Table 3.

TABLE 3
VISCO-ELASTIC PROPERTIES OF THE CURED SYSTEM

TEMPERATURE	STORAGE MODULUS DYNES/SQ. CM.	LOSS MODULUS DYNES/SQ. CM.
-10°C	1×10^{10}	6×10^8
20°C	7×10^9	9×10^8
50°C	4×10^8	3×10^8
60°C	1×10^8	7×10^7
70°C	6×10^7	2×10^7

The tests shall be conducted at a frequency of 1 Hz with a 0.3% strain in accordance with the guidelines described in the testing equipment manual.

2.3.2.2 Load Bearing Capabilities

The cured epoxy-urethane system must exhibit the following load bearing capacity. At approximately 20% strain, the polymer shall retain at least 85% of its original load bearing strength (tensile stress) as per ASTM D-638.

2.3.3 The following are acceptable materials for application as a bridge deck restoration system:

Pretreatment :MARK-135

Overlay: MARK-163 FLEXOGRID

as manufactured by **POLY-CARB, INC.**

33095 Bainbridge Road, Solon, Ohio 44139

(440) 248-1223

2.4 Aggregate

2.4.1 Aggregate used for all layers shall be non-friable, non-polishing, clean and free from surface moisture. It shall be durable and sound and have a proven record of performance in applications of this type. The aggregate shall be 100 percent fractured, thoroughly washed and kiln dried to a maximum moisture content of 0.2 percent by weight, measured in accordance with ASTM C566. The fracture requirements shall be at least one mechanically fractured face and will apply to materials retained on U.S. No. 10 sieve. The recommended aggregate is **Washington Stone** and its properties are as follows:

Glacial Gravel

Basalt Quartzite Granite (% by Weight)

SiO ₂	75.03
Al ₂ O ₃	11.49
Fe ₂ O ₃	3.57
CaO	2.84
MgO	1.59
SO ₃	0.08
Na ₂ O	2.58
K ₂ O	0.99
Combined alkali	3.20
Ignition loss	1.72

Alternate aggregates may be allowed upon written approval by the manufacturer of the hybrid polymer systems.

2.4.2 Aggregate for all layers shall have a minimum Mohs scale hardness of 6.5.

2.4.3 The grading of the aggregate shall conform to the requirements of Table 4.

TABLE 4 AGGREGATE GRADATION	
Sieve Size (6x10)	Percent Passing
No. 6	80-100
No. 10	10-35
No. 20	0-10

3. METHOD OF TESTING

3.1 Tests shall be conducted in accordance with the following methods:

- 3.1.1 **Compressive Strength:** ASTM C109, *Compressive Strength of Hydraulic Cement Mortars*. The two components of the resin are to be thoroughly mixed in their appropriate ratios. Two volumes of graded silica sand in accordance with ASTM C778 shall be added to one volume of mixed resin. The samples shall then be prepared according to the requirements of ASTM C109 and allowed to cure for 7 days at $23 \pm 2^\circ\text{C}$.
- 3.1.2 **Tensile Strength and Elongation:** ASTM D638, *Tensile Properties of Plastics*, Specimen Type I or Type II. Samples shall be cured at $23 \pm 2^\circ\text{C}$ ($73.4 \pm 3.6^\circ\text{F}$) and $50 \pm 5\%$ relative humidity. Speed of testing shall be at 0.5 in./min.
- 3.1.3 **Water Absorption:** ASTM D570, *Water Absorption of Plastics*. Sample specimens shall be prepared according to section 4.1 and allowed to cure at $23 \pm 2^\circ\text{C}$ ($73.4 \pm 3.6^\circ\text{F}$) and $50 \pm 5\%$ relative humidity. Tests are then to be carried out as per section 6.1.
- 3.1.4 **Shore D Hardness:** ASTM D2240, *Rubber Property - Durometer Hardness*. Specimen shall be prepared as per ASTM D570 section 4.1 and allowed to cure at $23 \pm 2^\circ\text{C}$ ($73.4 \pm 3.6^\circ\text{F}$).
- 3.1.5 **Gel Time:** The following procedure shall be used to determine gel time. Measure 4 oz. of Part A and 2 oz. of Part B each at 25°C (77°F), into an unwaxed paper cup and record the time and mix immediately. 100 gms of this mixture shall be poured into a 6 oz. unwaxed paper cup and placed on a wooden bench top. Starting twenty minutes from the time recorded above, the mixture shall be probed every two minutes with a small stick until a small ball forms in the center of the container. The total time, including mixing, required for the ball to form shall be regarded as the gel time. The test shall be performed in a room or enclosed area maintained at $25 \pm 2^\circ\text{C}$ ($77 \pm 3.6^\circ\text{F}$) and $50 \pm 5\%$ relative humidity.
- 3.1.6 **Abrasion Resistance:** ASTM C501, *Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abrader*. Tests shall be done using a CS-17 wheel and a 1,000 gram load for 1,000 cycles.

3.1.7 **Adhesion to Concrete:** ACI-503-R; Pull Out Test.

3.1.8 **Flexural Creep:** California Test Method 419.

3.1.9 **Flexural Yield Strength:** ASTM D-790.

3.1.10 **Surface Tension:** ASTM D-971

4. CONSTRUCTION PRACTICE

4.1 Repair of Spalled Areas

4.1.1 Deck patching shall be performed as outlined in Proposal Note utilizing Type I patching material. All patching materials shall be free of **Magnesium Phosphate**.

4.1.2 Patching shall be scheduled so that the bridge can be open to traffic during all non-working hours.

4.1.3 Traffic shall be allowed to use the bridge during the curing period.

4.2 Surface Preparation

4.2.1 The entire **concrete deck** shall be cleaned by **shotblasting** to remove any oil, dirt, rubber or any other potentially detrimental material such as curing compound and laitances which, in the manufacturer and engineer's opinion, would prevent proper bonding to and curing of the material. The shotblasting shall be provided by or approved by the manufacturer to ensure the highest quality preparation and longest life of the system.

4.2.2 In areas that the shotblasting equipment cannot reach (i.e., along curbs and median walls), sandblasting is permitted to an extent satisfactory to the manufacturer and engineer. This should be performed prior to the shotblasting whenever applicable and practical.

4.2.3 For **asphalt surfaces**, the asphalt deck shall be thoroughly power washed to remove any oil, dirt, rubber or any other potentially detrimental material which, in the manufacturer and engineer's opinion, would prevent proper bonding to and curing of the material. This should be done not more than 24 hours prior to application unless otherwise approved by the manufacturer.

- 4.2.4 **Steel surfaces** such as expansion joints, sidewalks, steel grids and steel plate to be treated with the restoration system, shall be shot or sand blasted clean to SSPC-SP-6 standards.
Note: For steel plate decks please consult POLY-CARB for appropriate specification.
- 4.2.5 Traffic shall not be allowed on any portion of the deck which has been shotblast or on which part of the overlay has already been placed. The overlay application equipment, however, will be allowed to drive on the deck surface during application provided precautions have been taken to insure that the deck surface will not become contaminated.
- 4.2.6 All surfaces to be treated shall be dry at the time of application. Immediately before the application of any liquids, all prepared surfaces shall be cleaned with compressed air (or vacuumed) to remove dust and debris.
- 4.2.7 The application of the system shall not be made when it has rained 24 hours before application and rain is forecast within eight hours after application or as determined by the manufacturer (fog and high humidity will not impede the application of or affect the performance of the overlay). If waiting for 24 hours is impractical, the moisture content in concrete substrate shall not exceed 4.5% when measured by an electronic moisture meter. Any exception shall be determined by the moisture content present in the deck which shall not exceed 75% of air entrainment in the mix design.
- 4.2.8 The minimum recommended temperature in which the system shall be applied is 50°F and rising. All applications at temperatures below 50°F shall require prior written approval from manufacturer.

4.3 Application of Overlay

- 4.3.1 The manufacturer shall have a representative on the jobsite at all times who, upon consultation with the engineer, may suspend any item of work that is suspect and does not meet the requirements of this specification. Resumption of work will occur only after the manufacturer's representative and the engineer are satisfied that appropriate remedial action has been taken by the contractor.
- 4.3.2 The overlay shall be applied on all deck areas using metering, mixing and distribution machinery *owned and operated* by the manufacturer. The application machine shall feature positive displacement volumetric metering pumps controlled by a hydraulic power unit. Components A and B shall be stored in temperature controlled reservoirs capable of maintaining $100^{\circ}\text{F} \pm 10^{\circ}\text{F}$ to insure optimum mixing. Ratio check verification at the pump outlets as well as cycle counting capabilities to monitor output will be standard features. In line mixing shall be motionless so as to not overly shear the material or entrap air in the mix. The machine shall also make maximum use of the working time of the material to insure proper "wetting" of the system by mixing it immediately prior to dispensing onto the deck.
- 4.3.3 The number of layers (**a minimum of three**) and the application rates of the liquid in the various layers shall be as recommended by the manufacturer in order to achieve a minimum overlay thickness of 1/4".

4.3.4 Application of Pre-treatment

Crack Filling (First Layer)

Application of the Liquid: After manually or mechanically measuring and mixing of the components, the liquid shall be evenly distributed on the clean, dry deck surface at the rate as recommended by the manufacturer. After the entire deck surface is wet, allow 1-2 hours for the liquid to achieve full depth penetration into cracks as well as adequately encapsulate the steel grid if any.

After the liquid is allowed to penetrate, medium size coarse silica sand may be broadcast evenly if the subsequent application is going to be applied after 8-12 hours.

4.3.5 Overlay (Second and Third Layers)

Application of Liquid: Prior to the application, if there exists any excess or loose aggregate from the previous coat, such excess aggregate shall be completely removed by vacuum or with compressed air. After mixing of the components via the mechanical application equipment, the liquid shall be evenly distributed on the clean, dry deck surface at the rate as recommended by the manufacturer.

4.3.6 After the application of the liquid in the second and third coats, the maximum time allowed before broadcasting of the aggregate is as follows:

Above 90°F	10 minutes
80°F to 90°F	15 minutes
70°F to 80°F	20 minutes
60°F to 70°F	25 minutes
50°F to 60°F	35 minutes

4.3.7 Broadcasting on decks shall be by truck-mounted equipment capable of dispensing the aggregate onto the deck in a uniform manner as directed or otherwise approved by the manufacturer.

4.3.8 The aggregate shall be broadcast as described below to cover the surface so that no wet spots appear, before the co-polymer begins to gel (see section 4.3.6). The aggregate must be dropped vertically in such a manner that the level of the liquid is not disturbed.

4.3.8.1 In the first and second layers of the **FLEXOGRID** liquid, aggregate conforming to Table 4 shall be broadcast to saturation, until no wet spots remain.

4.3.9 Removal of Excess Aggregate: After the overlay has hardened, removal of all loose and excess aggregate with a power vacuum or other method shall be made prior to the application of subsequent coats.

4.3.10 Joints in the Overlay (i.e., between two adjacent lanes) shall be staggered and overlapped between successive coats so that no ridges will appear.

4.3.11 **Traffic may be allowed on the final layer or in between layers after the resin has cured (as determined by the manufacturer) and after removal of all excess, loose aggregate.**

5. STORAGE AND HANDLING

- 5.1 **Liquid Material:** All material shall be transported and stored in their original containers inside a dry, temperature controlled facility and maintained at a minimum temperature of 60°F and not to exceed 120°F.
- 5.2 **Job Site Storage:** The materials shall be stored on the jobsite in a dry, weather protected facility away from moisture and within the temperature range of 60°F to 90°F. When the materials are transported or stored on the job in the application machine tanks, the material must also be maintained at a temperature of 60°F to 90°F.
- 5.3 **Handling of Liquid Materials on the Job:** Protective gloves, clothing, boots and goggles shall be provided to workers and inspectors directly exposed to the material. Product safety data sheets shall be provided to all workers and inspectors as obtained from the manufacturer.
- 5.4 **Packing Requirement:** All materials must be packaged in strong, substantial containers. The containers shall be identified as Part A and Part B and shall be plainly marked with the name and address of the manufacturer, name of the product, mixing proportions and instructions, lot and batch numbers, date of manufacture, and quantity contained therein.
- 5.5 **Aggregate:** All aggregate shall be stored in a dry, moisture-free atmosphere. The aggregate shall be fully protected from any contaminants on the jobsite and shall be stored so as not to be exposed to rain or other moisture sources.

6. SAMPLING AND ACCEPTANCE

- 6.1 **Product Acceptance:** The manufacturer of the system shall provide evidence of field performance and lab performance with infrared spectra in order to obtain state approval of the overlay system for use on the project.

6.1.1 Independent Lab Performance

A nationally recognized independent lab must verify that the material:

1. has the capability of preventing the ingress of essentially all chloride ions into the concrete at 1" depth when tested according to NCHRP-244 method.
2. has the capability to de-activate the existing chloride ions present in the concrete specimen so that the corrosion of steel rebar embedded in the concrete stop corroding.
3. when tested as per Tables 1, 2 and 3, fully comply with the test results specified for cured system.

- 6.1.2 **Infrared Spectrograph:** In addition to the initial certification process each manufacturer shall furnish the state an infrared spectra of each component of system for its permanent record and for individual installation verification.
- 6.1.3 **Field Performance:** The selected material must have verifiable satisfactory performance of at least 8 (*eight*) years in the state and/or 8 (*eight*) years of satisfactory performance in the United States or Canada.
- 6.2 **Certification for Compliance:** At the pre-construction conference, the contractor shall notify the state project engineer of the source of material.
- 6.2.1 **Independent Test Lab Report:** Test results certified and verified by a nationally recognized independent testing laboratory verifying properties of the cured system as per Table 1, 2 & 3 shall be submitted to the engineer for approval prior to the bid opening. This certification shall be provided on each lot number to be used on the project.
- 6.2.2 **Infrared Spectra:** Infrared spectra of each component from each lot number (to be used on the project) shall be submitted with the independent lab certification.
- 6.2.3 **Test Sample for DOT Laboratory:** The manufacturer shall furnish at least a one-quart sample of each component from each lot to the DOT laboratory to verify material supplied by the manufacturer.
- 6.3 **Performance Acceptance**
- 6.3.1 **Thickness Verification:** The state shall be notified of the number of gallons used on the project with two notarized statements - one from the contractor and one from the manufacturer. In addition, the contractor shall verify to the State that the overlay is at least 1/4" thick at three random locations selected by the engineer for every 1,000 square yards of deck surface. Thin areas shall be re-coated as described above by the contractor and re-verified at no additional cost to the State. This verification may consist of cores, holes, etc., but in all cases, any destructively tested areas shall be repaired by the contractor before final acceptance by the engineer.
- 6.3.2 **Performance Guarantee:** The epoxy-urethane co-polymer manufacturer and the contractor, by acceptance of the work described in this specification, jointly agree to guarantee the wearing surface against all defects incurred during normal traffic use for a period of (to be determined by engineer). The guarantee period shall commence on the date of acceptance of the work, usually the date traffic is allowed on the second half of the deck. The guarantee covers all labor and materials required satisfactorily repairing or replacing the wearing surface.

7. **BASIS OF PAYMENT**

Payment for completed and accepted quantities as measured above will be made at the contract price bid for:

<u>ITEM</u>	<u>UNIT</u>	<u>DESCRIPTION</u>
Special	Square Yards	Crack Treatment and Epoxy-Urethane Waterproofing Overlay for Bridge Decks

END OF SPECIFICATION

TRAFFIC CONTROL SCHEME

LIEUTENANT JAMES L. SMITH MEMORIAL BRIDGE 55-16-11.51

At least one lane traffic will be maintained at all times. Signs, devices and flaggers will be used in accordance with Case A-11 of the 1995 Traffic Control Manual for Street/Highways Construction and Maintenance Operations. Public notification of the one lane closure will be made one (1) week in advance by newspaper, radio and television.

Any modifications or alternatives to this traffic control scheme must be approved by the Engineer prior to the start of work. No additional payment shall be made for any traffic control revisions.

Form DS-27

STRUCTURES DIVISION

1-1-90

GENERAL SKETCH SHEET

By: JEFF

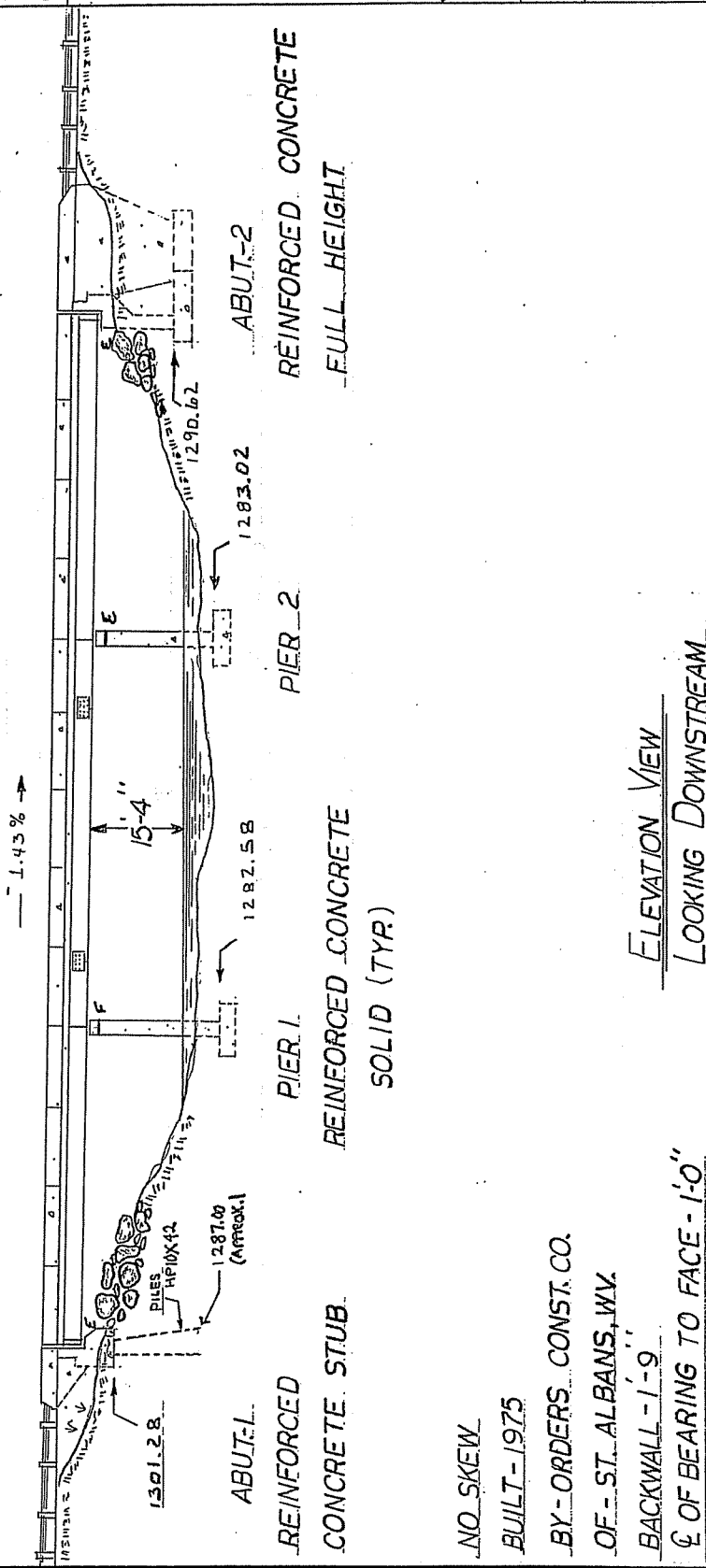
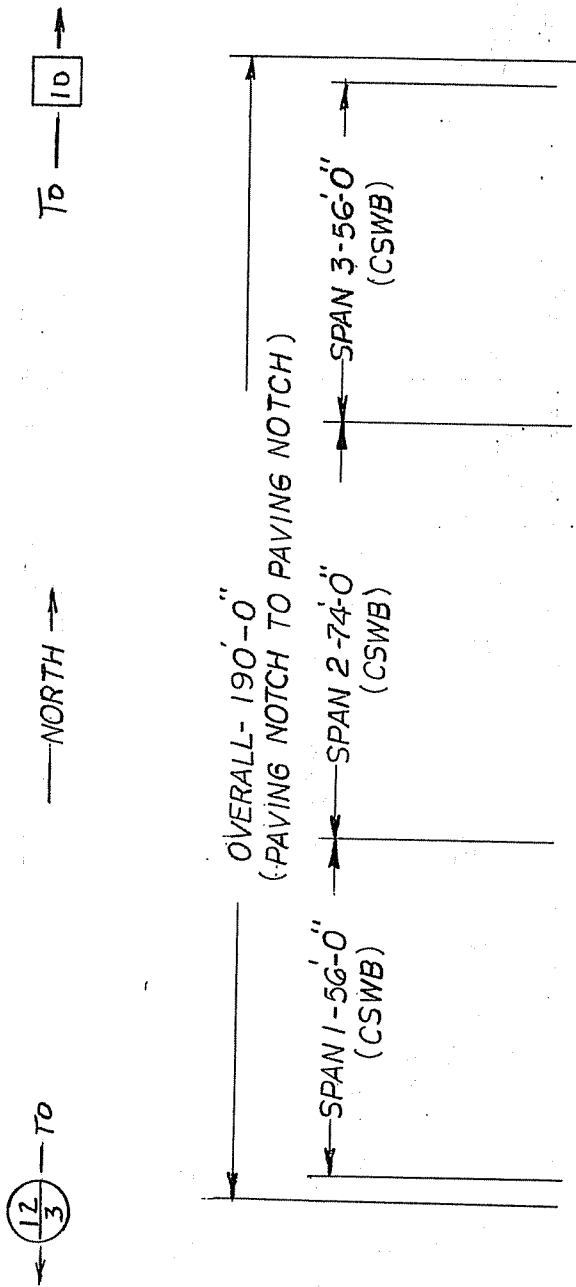
Date: 3-21-95

Ckd By: lw

Date: 3-21-95

Bridge No.: 55-16-1151(2978)

Sheet 2 of 15



ELEVATION VIEW
LOOKING DOWNSTREAM

NO SKEW
BUILT - 1975
BY - ORDERS CONST. CO.
OF - ST. ALBANS, WV.
BACKWALL - 1'-9"
C OF BEARING TO FACE - 1'-0"

Rev Date: 3-3-97
By: G.H.

Rev Date: 3-18-99
By: Martin

Rev Date: 3/19/01
By: JW

Rev Date: 3-17-03
By: ADAM

Rev Date: 4-4-05
By: ADAM

Rev Date:

Form DS-27

STRUCTURES DIVISION

1-1-90

GENERAL SKETCH SHEET

By: G.H.

Date: 3-21-95

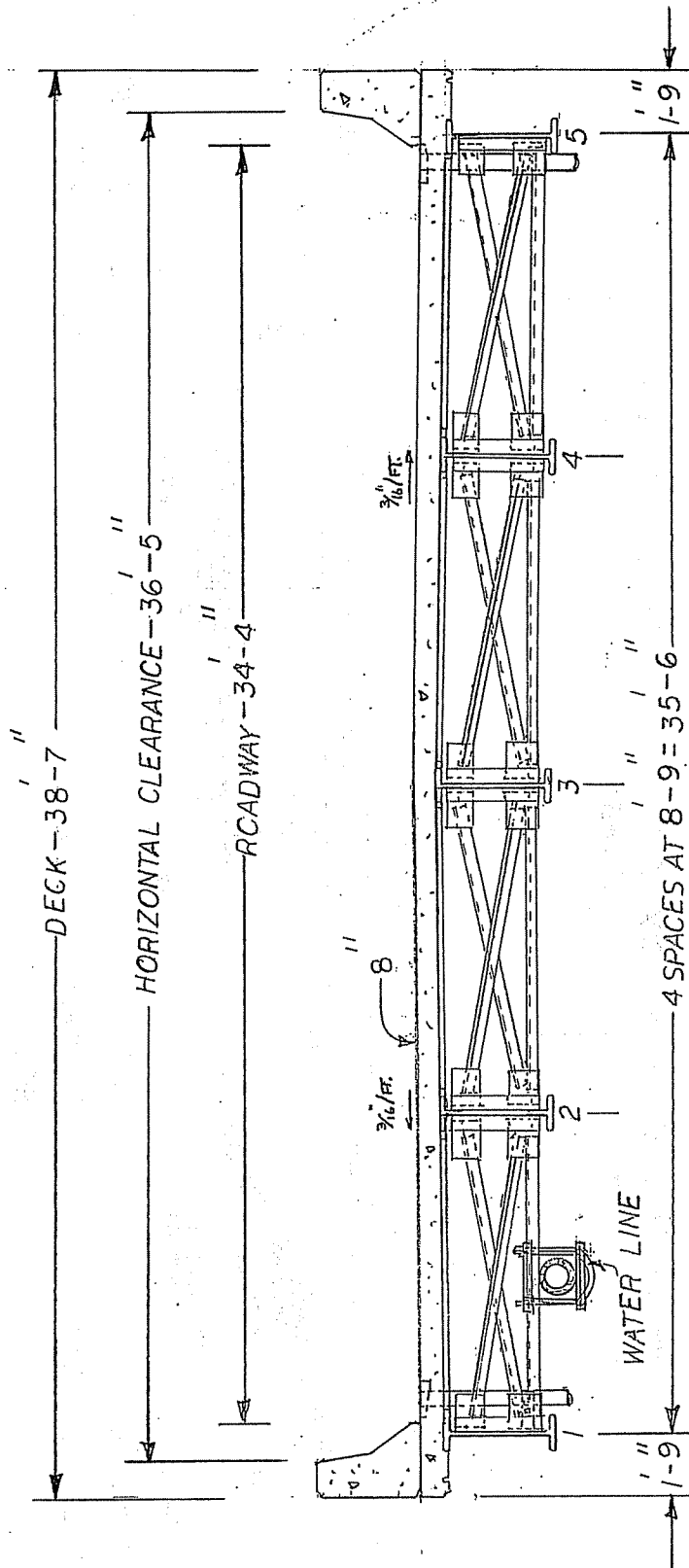
Ckd By: BW

Date: 3-21-95

Bridge No.: 55-16-11.51 (2978)

Sheet 4 of 15

STREAM FLOW



DECK CROSS-SECTION

LOOKING TOWARD ABUTMENT NO.2

FOR MORE INFORMATION
SEE PLANS

Rev Date: 3-3-97

Rev Date: 3-18-99

Rev Date: 3/19/01

Rev Date: 3-17-03

Rev Date: 4-4-05

Rev Date:

By: G.H.

By: JJM

By: JW

By: ADAM

By: ADAM

By:

**STATE OF WEST VIRGINIA
PURCHASING CONTINUATION SHEET**

Buyer:		Req. or P.O. No:
JJ-33		10-6-00197
Spending Unit:		
Division of Highways		

Item No:	Quantity	Description	Unit Price	Amount
1.	725	SY, Surface Preparation (Care shall be taken around expansion joints to prevent any damages) Includes: a. Shot blasting b. Sandblasting (where shot blasting is impractical) c. Blowing deck with compressed air.		
2.	725	SY, Pre-Treatment of cracks and sealing bridge decks. To install MARK-135 SAFETSEAL as manufactured by POLY-CARB, INC. 33095 Bainbridge Road Solon, Ohio, 44139 or equal as per specifications inserted herein, and must be compatible with items 3 and 4 as certified by the manufacturer.		
3.	10	SF, Epoxy Grout Patching After deck blasting, any areas of spalling greater than 3/4" in depth shall be patched using an epoxy grout compatible with the total overlay system and approved by the engineer.		
4.	725	SY, Epoxy-Urethane Copolyment Overlay To install 1/4" thick overlay for the purpose of waterproofing and skidproofing of bridge decks as per specifications included herein on each bridge.		
5.	LUMP SUM	To provide all signs, traffic control devices, flaggers, etc. for traffic control per WV Division of Highways Standard Specifications, Roads and Bridges, dated 2000 and the attached Traffic control Scheme.		
6.	LUMP SUM	Mobilization		
TOTAL				

AFFIDAVIT

West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions.

"Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

The vendor must be licensed in accordance with any and all state requirements to do business with the state of West Virginia.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: _____

Authorized Signature: _____ Date: _____

BID BOND PREPARATION INSTRUCTIONS

AGENCY (A)
RFQ/RFP# (B)

Bid Bond

- (A) WV State Agency (Stated on Page 1 "Spending Unit") Request for Quotation Number (upper right corner of page #1)
(C) Your Company Name
(D) City, Location of your Company
(E) State, Location of your Company
(F) Surety Corporate Name
(G) City, Location of Surety
(H) State, Location of Surety
(I) State of Surety Incorporation
(J) City of Surety Incorporation
(K) Minimum amount of acceptable bid bond is 5% of total bid. You may state "5% of bid" or a specific amount on this line in words.
(L) Amount of bond in figures
(M) Brief Description of scope of work
(N) Day of the month
(O) Month
(P) Year
(Q) Name of Corporation
(R) Raised Corporate Seal of Principal
(S) Signature of President or Vice President
(T) Title of person signing
(U) Raised Corporate Seal of Surety
(V) Corporate Name of Surety
(W) Signature of Attorney in Fact of the Surety

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, (C) of (D), (E) as Principal, and (F) of (G), (H), a corporation organized and existing under the laws of the State of (I) with its principal office in the City of (J), as Surety, are held and firmly bound unto The State of West Virginia, as Obligee, in the penal sum of (K) (\$ (L)) for the payment of which, well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof to enter into a contract in writing for (M)

NOW THEREFORE.

(a) If said bid shall be rejected, or
(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the Obligee may accept such bid: and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be affixed hereto and these presents to be signed by their proper officers, this (N) day of (O), 20 (P).

NOTE: Dated, Power of Attorney with Raised Surety Seal must accompany this bid bond.

Principal Corporate Seal (R) (Q) (Name of Principal)
By (S) (Must be President or Vice President)
(T) Title
(U) Surety Corporate Seal (V) (Name of Surety)
(W) Attorney-in-Fact

IMPORTANT - Surety executing bonds must be licensed in West Virginia to transact surety insurance. Corporate seals must be affixed, and a power of attorney must be attached.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____
_____ of _____, _____, as Principal, and _____
_____ of _____, _____, a corporation organized and existing under the laws of the State of _____
_____ with its principal office in the City of _____, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of _____ (\$ _____) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this
_____ day of _____, 20_____.

Principal Corporate Seal

(Name of Principal)

By _____
(Must be President or
Vice President)

(Title)

Surety Corporate Seal

(Name of Surety)

Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Corporate seals must be affixed,
and a power of attorney must be attached.