



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

# Request for Quotation

BFO NUMBER  
**08110181**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 BUYER 33  
 304-558-2402

RFQ COPY

TYPE NAME/ADDRESS HERE

LOGAN CORPORATION  
 RT. 2, BOX 924  
 CLARKSBURG, WV 26301

SHIP TO

DIVISION OF HIGHWAYS  
 DISTRICT EIGHT  
 P.O. BOX 1516  
 US 219, NORTH PARSONS ROAD  
 ELKINS, WV  
 26241-1516 304-557-0215

DATE PRINTED <b>03/23/2011</b>	TERMS OF SALE <b>Net 30</b>	SHIP VIA <b>Motor Freight</b>	F.O.B. <b>Elkins, WV</b>	FREIGHT TERMS <b>Pre Paid</b>
BID OPENING DATE: <b>04/26/2011</b>		BID OPENING TIME <b>01:30PM</b>		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		570-66	<i>See pg 10.</i>	
	REINFORCING	STEEL BARS,		AASHTO M31, GRADE 60		
<p>REQUEST FOR QUOTATION (RFQ)</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS FOR A CONTRACT TO PROVIDE REINFORCING STEEL BARS, AASHTO M31, GRADE 60 PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO SHERI SLONE IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT SHERI.D.SLONE@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 04/06/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>EXHIBIT 10.</p> <p>ADDENDUM ACKNOWLEDGEMENT</p>						

RECEIVED

REQUISITION NO.: ..... 2011 APR 26 A 10:31

PURCHASING DIVISION  
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>Joseph M. Wald</i>	TELEPHONE <b>304-641-2011</b>	DATE <b>4/25/11</b>	
TITLE <b>Territory Mgr.</b>	FEIN <b>55-0219530</b>	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**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. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, 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.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.htm](http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **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. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. 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. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office 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: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
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# Request for Quotation

BFO NUMBER  
**08110181**

PAGE  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**BUYER 33**  
**304-558-2402**

VENDOR

RFQ COPY  
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**LOGAN CORPORATION**  
**RT. 2, BOX 924**  
**CLARKSBURG, WV 26301**

SHIP TO

**DIVISION OF HIGHWAYS**  
**DISTRICT EIGHT**  
**P.O. BOX 1516**  
**US 219, NORTH PARSONS ROAD**  
**ELKINS, WV**  
**26241-1516 304-557-0215**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
03/23/2011				

BID OPENING DATE: **04/26/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 .....</p> <p>NO. 2 .....</p> <p>NO. 3 .....</p> <p>NO. 4 .....</p> <p>NO. 5 .....</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;"> <i>Joseph M. ...</i>            SIGNATURE  <i>Logan Corporation</i>            COMPANY  <i>4/25/11</i>            DATE         </p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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<b>03/23/2011</b>				

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**NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.**

**REV. 09/21/2009**

**PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS**

**1. EXCEPT WHEN AUTHORIZED BY THE DIRECTOR OF THE PURCHASING DIVISION PURSUANT TO SUBSECTION 2 BELOW, NO CONTRACTOR MAY USE OR SUPPLY STEEL PRODUCTS FOR A STATE CONTRACT PROJECT OTHER THAN THOSE STEEL PRODUCTS MADE IN THE UNITED STATES. AS USED USED IN THIS CONTRACT,**

**A. "STATE CONTRACT PROJECT" MEANS ANY ERECTION OR CONSTRUCTION OF, OR ANY ADDITION TO, ALTERATIO OF OR OTHER IMPROVEMENT TO ANY BUILDING OR STRUCTURE, INCLUDING, BUT NOT LIMITED TO, ROADS OR HIGHWAYS, OR THE INSTALLATION OF ANY HEATING OR COOLING OR VENTILATING PLANTS OR OTHER EQUIPMENT, OR THE SUPPLY OF AND MATERIALS FOR SUCH PROJECTS, PURSUANT TO A CONTRACT WITH THE STATE OF WEST VIRGINIA FOR WHICH BIDS WERE SOLICITED ON OR AFTER JUNE 6, 2001.**

**B. "STEEL PRODUCTS" MEANS PRODUCTS ROLLED, FORMED, SHAPED, DRAWN, EXTRUDED, FORGED, CAST, FABRICATED OR OTHERWISE SIMILARLY PROCESSED, O PROCESSED BY A COMBINATION OF TWO OR MORE OF SUCH OPERATIONS, FROM STEEL MADE BY THE OPEN HEARTH, BASIC OXYGEN, ELECTRIC FURNACE, BESSEMER OR OTHER STEEL MAKING PROCESS.**

**C. "UNITED STATES" MEANS THE UNITED STATES OF**

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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 US 219, NORTH PARSONS ROAD  
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 26241-1516      304-557-0215**

DATE PRINTED <b>03/23/2011</b>	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
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BID OPENING DATE: **04/26/2011**      BID OPENING TIME **01:30PM**

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AMERICA AND INCLUDES ALL TERRITORY, CONTINENTAL OR INSULAR, SUBJECT TO THE JURISDICTION OF THE UNITED STATES.

2. THE DIRECTOR OF THE PURCHASING DIVISION MAY, IN WRITING, AUTHORIZE THE USE OF FOREIGN STEEL PRODUCTS IF:

A. THE COST FOR EACH CONTRACT ITEM USED DOES NOT EXCEED ONE TENTH OF ONE PERCENT (.1%) OF THE TOTAL CONTRACT COST OR TWO THOUSAND FIVE HUNDRED DOLLARS (2,500.00), WHICHEVER IS GREATER. FOR THE PURPOSES OF THIS SECTION, THE COST IS THE VALUE OF THE STEEL PRODUCT AS DELIVERED TO THE PROJECT OR,

B. THE DIRECTOR OF THE PURCHASING DIVISION DETERMINES THAT SPECIFIED STEEL MATERIALS ARE NOT PRODUCED IN THE UNITED STATES IN SUFFICIENT QUANTITY OR OTHERWISE ARE NOT REASONABLY AVAILABLE TO MEET CONTRACT REQUIREMENTS.

3. A CONTRACTOR WHO USES STEEL PRODUCTS IN VIOLATION OF THIS SECTION MAY BE SUBJECT TO CIVIL PENALTIES PURSUANT TO WV CODE SECTION 5A-3-56.

REV. 10/01/01

**BANKRUPTCY:** IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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 26241-1516 304-557-0215

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
03/23/2011				

BID OPENING DATE: 04/26/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p><b>NOTICE</b></p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: SHERI SLONE - FILE 33</p> <p>RFQ. NO.: 08110181</p> <p>BID OPENING DATE: 04/26/2011</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:            ----- 304-623-5678 -----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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State of West Virginia  
 Department of Administration  
 Purchasing Division  
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# Request for Quotation

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DIVISION OF HIGHWAYS  
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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/23/2011				

BID OPENING DATE: **04/26/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<i>Joe Dinaldo</i>						
***** THIS IS THE END OF RFQ 08110181 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE		TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ. INSERT NAME AND ADDRESS IN SPACE ABOVE I AM FILLING IN AS 'VENDOR'

## Specifications

Purpose: To establish a purchase order to provide the West Virginia Division of Highways with reinforcing steel bars for construction of the following bridges: 2<sup>nd</sup> Smith Creek Bridge, Czar Helvetia Bridge and Thompson Bridge.

### 1.0 DEFINITIONS

- A. The "Agency" shall be defined as the West Virginia Division of Highways
- B. The "Vendor" shall be defined as the successful bidder.
- C. The "Purchase Order" shall be defined as the binding agreement that is entered into between the State of West Virginia and the Vendor to provide the services as herein specified.
- D. "Mandatory Requirements: The terms "must", "will", "shall", "minimum", "maximum", or "is/are required" identify a mandatory item or factor. Decisions regarding compliance with any mandatory requirements shall be at the sole discretion of the State.

### 2.0 SCOPE OF WORK

The successful Vendor shall provide Reinforcing Steel Bars, AASHTO M31, Grade 60

#### 2.1 Technical Requirements:

All reinforcing steel bars provided shall be in accordance with West Virginia Division of Highways Standard Specifications Roads and Bridges, adopted 2010 and the current Supplemental Specifications, section 602.

[www.transportation.wv.gov/highways/engineering/Pages/publications.aspx](http://www.transportation.wv.gov/highways/engineering/Pages/publications.aspx)

All galvanized bars shall be hot-dipped per AASHTO M111

#### 2.2 Freight

2.2.1 All shipments are to be FOB Destination.



2.2.2 The Vendor shall be responsible for all freight charges incurred as a result of the purchases under this Purchase Order.

★ 2.3 Delivery

2.3.1 Deliveries shall be made to : WVDOH District Eight  
1101 North Randolph Ave  
Elkins WV 26241

★ 2.3.2 Delivery shall be made within 30 days of award notification.  
**Any changes from the indicated delivery schedule without prior approval of the WVDOT may be cause for cancellation.**

2.3.3 Reinforcing Bars shall be labeled and tied in bundles. Bundles shall have a maximum of 100 bars to a bundle, sizes or types of bars may not be mixed in the same bundle. Labels shall state the bars size and quantity of bars in the bundle.

2.3.4 The Vendor shall notify the District Storekeeper @ 304-637-0226, 48 hours in advance of delivery to provide necessary personnel and equipment for unloading.

2.3.5 Delivery will only be accepted during normal working hours 7:30 am to 4:00 pm, Monday - Friday.

2.3.6 Delivery is an integral part of this purchase order and failure to comply will be cause to initiate a WV-82, Vendor Performance Form. This form will officially notify the West Virginia Division of Purchasing and the Vendor of unsatisfactory performance in the execution of this purchase order and the requirements herein.

### **3.0 INVOICING**

#### **3.1 Payment**

3.1.1 The Vendor must send a invoice to:  
West Virginia Division of Highways, District Eight  
P.O. Box 1516  
Elkins, WV 26241  
Attention: Henry Currence

### **4.0 AWARD**

Purchase order will be awarded complete and not split.

LOGAN CORPORATION  
 RT. 2, BOX 924  
 CLARKSBURG, WV 26301

**Cost Sheet**  
**RFQ #: 0811-0181**

Per lb.

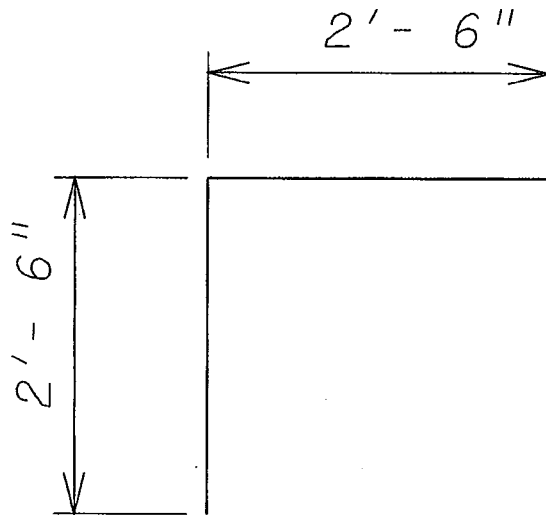
Item Number	Quantity	Description	Unit Price	Amount
1	33,376 lbs	# 5 Reinforcing Steel Bars, AASHTO M31, Grade 60. Ship 1600 pieces @ 20'-0"	\$.4745	\$15,838. <sup>92</sup>
2	15,020 lbs	# 6 Reinforcing Steel Bars, AASHTO M31, Grade 60. Ship 500 pieces @ 20' - 0"	\$.4745	\$7,126. <sup>99</sup>
3	26,700 lbs	# 8 Reinforcing Steel Bars, AASHTO M31, Grade 60. Ship 500 pieces @ 20' - 0"	\$.4745	\$12,669. <sup>15</sup>
4	6,258 lbs	# 5 Galvanized Reinforcing Steel Bars, AASHTO M31, Grade 60. Ship 300 pieces @ 20' - 0"	\$.9897	\$6,193. <sup>55</sup>
5	2,670 lbs	# 8 Galvanized Reinforcing Steel Bars, AASHTO M31, Grade 60. Ship 50 pieces @ 20' - 0"	\$.9897	\$2,642. <sup>50</sup>
6	4,506 lbs	# 6 Galvanized Reinforcing Steel Bars, AASHTO M31, Grade 60. Fabricated in accordance with Sketch #1. Ship 400 pieces @ 7' - 6"	\$1.05	\$4,731. <sup>30</sup>
7	4,635 lbs	# 6 Galvanized Reinforcing Steel Bars, AASHTO M31, Grade 60. Fabricated in accordance with Sketch #2. Ship 300 pieces @ 10'-3 7/16"	\$1.05	\$4,866. <sup>75</sup>
			Total	\$54,067. <sup>16</sup>

Items for the following projects:  
 S336-11-0.58 Thompson Bridge  
 S336-18-3.77 2nd Smith Creek Bridge  
 S342-46-1.54 Czar Helvetia Bridge

W.VA. DEPARTMENT OF TRANSPORTATION- DIVISION OF HIGHWAYS  
 DISTRICT 8, PO BOX 1516, ELKINS W.VA. 26241

CONTRACT NO. 0811-0181

*Sketch # 1*



*MARK A601*

*Galvanized*

*# 6 Steel Reinforcing Bar*

*AASHTO M31 ( Grade 60 )*

*400 Required @ 7' - 6"*

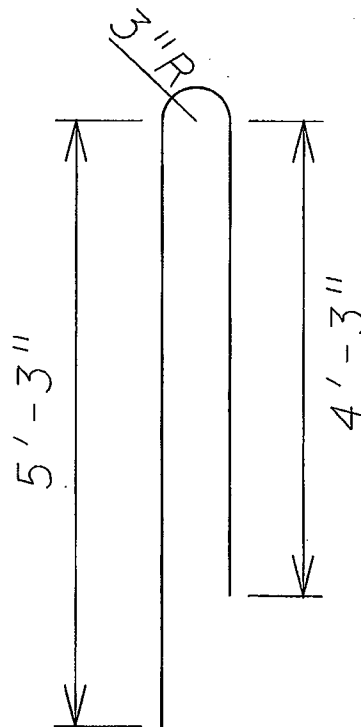
*3000 X 1.502 lbs/ft*

*= 4506 lbs*

W.Va. Department of Transportation- Division of Highways  
 District 8, PO Box 1516, Elkins W.Va. 26241

Contract No. 0811-0181

Sketch # 2



MARK A602

Galvanized

# 6 Steel Reinforcing Bar

AASHTO M31 (Grade 60 )

300 Required @ 10' -  $3\frac{7}{16}$ "

3085.9' X 1.502 lbs/ft

= 4635 lbs

Galvanized in accordance with AASHTO M111

tables and figures) shall not be considered as requirements of this specification.

- 1.2. Bars are of three minimum yield strength levels: namely, 280 MPa [40000 psi], 420 MPa [60000 psi], and 520 MPa [75000 psi], designated as Grade 280 [40], Grade 420 [60], and Grade 520 [75], respectively.
- 1.3. Hot-rolled plain rounds, in sizes up to and including 63.5 mm [2 1/2 in.] in diameter in coils or cut lengths, when specified for dowels, spirals, and structural ties or supports shall be furnished under this specification in Grade 280 [40], Grade 420 [60], and Grade 520 [75] (Note 2). For ductility properties (elongation and bending), test provisions of the nearest smaller nominal diameter deformed bar size shall apply. Requirements providing for deformations and marking shall not be applicable.
- 1.4. Welding of the material in this specification should be approached with caution since no specific provisions have been included to enhance its weldability. When the steel is to be welded, a welding procedure suitable for the chemical composition and intended use or service should be used. (Note 1).  
**Note 1**—The use of the latest edition of ANSI/AWS D1.4 is recommended for the welding of reinforcing bars. This document describes the proper selection of the filler metals, preheat/interpass temperatures, as well as, performance and procedure qualification requirements.
- 1.5. This specification is applicable for orders in either SI units (M 31M) or in inch-pound units (M 31). SI units and inch-pound units are not necessarily equivalent. Inch-pound units are shown in brackets in the text for clarity, but they are the applicable values when the material is ordered to M 31.

TS-4g

M 31M/M 31-1

AASHTO

## Deformation Requirements

Bar Designation No. <sup>6</sup>	Nominal Dimensions <sup>a</sup>				Deformation Requirements, in.			
	Nominal Weight, lb/ft	Diameter, in.	Sectional Area, in. <sup>2</sup>	Perimeter, in.	Maximum Average Spacing	Minimum Average Height	Maximum Gap (Chord of 12.5% of Nominal Perimeter)	
3	0.376	0.375	0.11	1.178	0.262	0.015	0.143	
4	0.568	0.500	0.20	1.571	0.350	0.020	0.191	
5	1.043	0.625	0.31	1.963	0.437	0.028	0.239	
6	1.502	0.750	0.44	2.356	0.525	0.038	0.286	
7	2.044	0.875	0.60	2.749	0.612	0.044	0.334	
8	2.670	1.000	0.79	3.142	0.700	0.050	0.383	
9	3.400	1.128	1.00	3.544	0.790	0.056	0.431	
10	4.303	1.270	1.27	3.990	0.889	0.064	0.487	
11	5.313	1.410	1.56	4.430	0.987	0.071	0.540	
14	7.65	1.693	2.25	5.32	1.185	0.085	0.648	
18	13.60	2.237	4.00	7.09	1.58	0.102	0.864	

<sup>a</sup> The nominal dimensions of a deformed bar are equivalent to those of a plain round bar having the same weight per foot as the deformed bar.

<sup>6</sup> Bar numbers are based on the number of eighths of an inch included in the nominal diameter of the bar.

## 2. REFERENCED DOCUMENTS

### AASHTO Standards:

- M 160, General Requirements for Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use
- T 244, Mechanical Testing of Steel Products
- T 285, Bend Test for Bars for Concrete Reinforcement

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■ ANSI/AWS D1.4, Structural Welding Code—Kernoreng steel

### 3. TERMINOLOGY

- 3.1. *Description of Terms Specific to This Standard:*
- 3.1.1. *deformed bar*—steel bar with protrusions; a bar that is intended for use as reinforcement in reinforced concrete construction.
- 3.1.1.1. *Discussion*—The surface of the bar is provided with lugs or protrusions that inhibit longitudinal movement of the bar relative to the concrete surrounding the bar in such construction. The lugs or protrusions conform to the provisions of this specification.
- 3.1.2. *deformations*—transverse protrusions on a deformed bar.
- 3.1.3. *plain bar*—steel bar without protrusions.
- 3.1.4. *rib*—longitudinal protrusion on a deformed bar.

### 4. ORDERING INFORMATION

- 4.1. It shall be the responsibility of the purchaser to specify all requirements that are necessary for material ordered to this specification. Orders for material under this specification should include the following information:
- 4.1.1. Quantity (Mass) [weight],
- 4.1.2. Name of the material (deformed and plain carbon steel bars for concrete reinforcement),

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6.1.

An analysis of each heat of steel shall be made by the manufacturer from test samples taken preferably during the pouring of the heats. The percentages of carbon, manganese, phosphorus, and sulfur shall be determined. The phosphorus content thus determined shall not exceed 0.06 percent.

6.2. An analysis may be made by the purchaser from finished bars. The phosphorus content thus determined shall not exceed that specified in Section 6.1 by more than 25 percent.

### 7. REQUIREMENTS FOR DEFORMATIONS

- 7.1. Deformations shall be spaced along the bar at substantially uniform distances. The deformations on opposite sides of the bar shall be similar in size, shape, and pattern.
- 7.2. The deformations shall be placed with respect to the axis of the bar so that the included angle is not less than 45°. Where the line of deformations forms an included angle with the axis of the bar from 45° to 70° inclusive, the deformations shall alternately reverse in direction on each side, or those on one side shall be reversed in direction from those on the opposite side. Where the line of deformation is over 70°, a reversal in direction is not required.
- 7.3. The average spacing or distance between deformations on each side of the bar shall not exceed seven-tenths of the nominal diameter of the bar.
- 7.4. The overall length of deformations shall be such that the gap (measured as a cord) between the ends of the deformations shall not exceed 12.5 percent of the nominal perimeter of the bar. Where the ends terminate in a rib, the width of the rib shall be considered as the gap between these ends. The summation of the gaps shall not exceed 25 percent of the nominal perimeter of the bar. The nominal perimeter of the bar shall be 3.1416 times the nominal diameter.

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NOTE 2—A 10% is required as an aid to the user in the use of this test method and permits an individual shipping release or shipping order.

### 9. TENSILE REQUIREMENTS

9.1. The material, as represented by the test specimens, shall conform to the requirements for tensile properties prescribed in Table 3 [Table 4].

Table 3—Tensile Requirements, SI Units

Bar Designation No.	Grade 280 <sup>a</sup>		Grade 420		Grade 520 <sup>b</sup>	
	420	280	620	420	690	520
10	11	—	9	—	—	—
13, 16	12	—	9	—	—	—
19	12	—	9	—	7	—
22, 25	—	—	8	—	7	—
29, 32, 36	—	—	7	—	6	—
43, 57	—	—	7	—	6	—

<sup>a</sup> Grade 280 bars are furnished only in sizes 10 through 19.

<sup>b</sup> Grade 520 bars are furnished only in sizes 19 through 57.

9.2.2.

Where the steel tested does not exhibit a well-defined yield point, the yield point shall be determined at extension under load using an autographic diagram method or an extensometer as described in Sections 13.1.2 and 13.1.3 of T 244.

The extension under load shall be 0.005 mm/mm [0.005 in./in.] of gauge length (0.5 percent) for Grade 280 [40] and Grade 420 [60] and shall be 0.0035 mm/mm [0.0035 in./in.] of gauge length (0.35 percent) for Grade 520 [75]. When material is furnished in coils, the test sample must be straightened prior to placing it in the jaws of the tensile machine. Straightening shall be done carefully to avoid the formation of local sharp bends and to minimize cold work. Insufficient straightening before attaching the extensometer can result in lower-than-actual yield strength readings.

9.3. The percentage of elongation shall be as prescribed in Table 3 [Table 4] when tested in accordance with Section 13.4 of T 244.

### 10. BENDING REQUIREMENTS

10.1. The bend-test specimen shall withstand being bent around a pin without cracking on the outside radius of the bent portion when tested in accordance with T 285. The requirements for angle of bending and sizes of pins are prescribed in Table 5 [Table 6]. When material is furnished in coils, the test sample must be straightened prior to placing it in the bend tester.

10.2. The bend test shall be made on specimens of sufficient length to ensure free bending and with apparatus which provides:

10.2.1. Continuous and uniform application of force throughout the duration of the bending operation.

10.2.2. Unrestricted movement of the specimen at points of contact with the apparatus and bending around a pin free to rotate.

10.2.3. Close wrapping of the specimen around the pin during the bending operation.

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7, 8	—	5 d	—
9, 10	—	7 d	—
11	—	7 d	7 d
14, 18, (90°)	—	9 d	9 d

Test bends 180 degrees unless noted otherwise.  
d = nominal diameter of specimen.

**11. PERMISSIBLE VARIATION IN MASS [WEIGHT]**

11.1. The permissible variation shall not exceed six percent under nominal mass [weight], except for bars smaller than 9.5 mm [<sup>3</sup>/<sub>8</sub> in.] plain round, the permissible variation in mass [weight] shall be computed upon the basis of the permissible variation in diameter in ASTM A 510M [ASTM A 510]. For larger bars up to and including 63.5 mm [2 1/2 in.], use AASHTO M 160. Reinforcing bars are evaluated on the basis of nominal mass [weights]. In no case shall the overmass [overweight] of any bar be the cause for rejection.

11.2. The specified limit of variation shall be evaluated in accordance with ASTM E 29 (rounding method).

**12. FINISH**

12.1. The bar shall be free of detrimental surface imperfections.

12.2. Rust, seams, surface irregularities, or mill scale shall not be cause for rejection, provided the weight, dimensions, cross-sectional area, and tensile properties of a hand wire-brushed test specimen are not less than the requirements of this specification.

12.3. Surface imperfections other than those specified in Section 12.2 shall be considered detrimental when specimens containing such imperfections fail to conform to either tensile or bending

14.1. For bar sizes No. 10 to 36 [3 to 11], inclusive, one tension test and one bend test shall be made of the largest size rolled from each heat. If, however, material from one heat differs by three or more designation numbers, one tension and one bend test shall be made from both the highest and lowest designation numbers of the deformed bars rolled.

14.2. For bar sizes Nos. 43 and 57 [14 and 18] bars, one tension test and one bend test shall be made of each size from each heat.

14.3. For all bar sizes one set of dimensional property tests including bar mass [weight] and spacing, height, and gap of deformations shall be made of each bar size rolled from each heat.

**15. RETESTS**

15.1. If results of an original tension specimen fail to meet the specified minimum requirements and are within 14 MPa [2000 psi] of the required tensile strength, within 7 MPa [1000 psi] of the required yield strength, or within two percentage units of the required elongation, a retest shall be permitted on two random specimens for each original tension specimen failure from the lot. Both retest specimens shall meet the requirements of this specification.

15.2. If a bend test fails for reasons other than mechanical reasons or flaws in the specimen as described in Sections 15.4.2 and 15.4.3, a retest shall be permitted on two random specimens from the same lot. If the results of both test specimens meet the specified requirements, the lot shall be accepted. The retest shall be performed on test specimens that are at air temperature, but not less than 16°C [60°F].

15.3. If a mass [weight] test fails for reasons other than flaws in the specimen as described in Section 15.4.3, a retest shall be permitted on two random specimens from the same lot. Both retest specimens shall meet the requirements of this specification.

contract of the purchaser is being performed, to all parts of the manufacturer's works that concern the manufacture of the material ordered. The manufacturer shall afford the inspector all reasonable facilities to satisfy him that the material is being furnished in accordance with this specification. All tests (except product analysis) and inspection shall be made at the place of manufacture prior to shipment, unless otherwise specified, and shall be so conducted as not to interfere unnecessarily with the operation of the works.

16.2. *For Government Procurement Only*—Except as otherwise specified in the contract, the contractor is responsible for the performance of all inspection and test requirements specified herein and may use his own or any other suitable facilities for the performance of the inspection and test requirements specified herein, unless disapproved by the purchaser at the time of purchase. The purchaser shall have the right to perform any of the inspections and tests at the same frequency as set forth in this specification, where such inspections are deemed necessary to assure that material conforms to prescribed requirements.

## 17. REJECTION

17.1. Unless otherwise specified, any rejection based on tests made in accordance with Section 6.2 shall be reported to the manufacturer within five working days from the receipt of samples by the purchaser.

17.2. Material that shows injurious defects subsequent to its acceptance at the manufacturer's works will be rejected, and the manufacturer shall be notified.

## 18. REHEARING

18.1. Samples tested in accordance with Section 6.2 that represent rejected material shall be preserved for two weeks from the date rejection is reported to the manufacturer. In case of dissatisfaction with the results of the tests, the manufacturer may make claim for a rehearing within that time.

## 20. MARKING

20.1. When loaded for mill shipment bars shall be properly separated and tagged with the manufacturer's heat or test identification number.

20.2. Each producer shall identify the symbols of his marking system.

20.3. All bars produced to this specification, except plain round bars which shall be tagged for grade, shall be identified by a distinguishing set of marks legibly rolled into the surface of one side of the bar to denote in the following order:

20.3.1. *Point of Origin*—Letter or symbol established as the producer's mill designation.

20.3.2. *Size Designation*—Arabic number corresponding to bar designation number of Table 1 (Table 2).

20.3.3. *Type of Steel*—Letter S indicates that the bar was produced to this specification or for Grade 420 (60) bars only; letters S and W indicate that the bar was produced to meet both Specifications M 311MM 31 and ASTM A 706/A 706M.

**22. KEYWORDS**

Concrete reinforcement, deformations (protrusions); steel bars.

<sup>1</sup> Agrees with ASTM A 615/A 615M-06a except for the bend testing procedure, which is referenced to T 285 and Section 9.2.2.

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1.3. The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard. (The inch-pound units are shown in brackets except in Table 6.)

**2. REFERENCED DOCUMENTS**

*AASHTO Standards:*

- M 55M/M 55, Steel Welded Wire Reinforcement, Plain, for Concrete
- T 244, Mechanical Testing of Steel Products

*ASTM Standards:*

- A 641/A 641M, Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
- A 700, Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment
- E 83, Practice for Verification and Classification of Extensometer Systems

*Military Standard:*

- MIL-STD-129, Marking for Shipment and Storage

*Federal Standard:*

- Fed. Std. No. 123, Marking for Shipments (Civil Agencies)

*Other Standard:*

- ACI 318, Building Code Requirements for Structural Concrete

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# State of West Virginia **VENDOR PREFERENCE CERTIFICATE**

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,
2.  **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
3.  **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
4.  **Application is made for 5% resident vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,
5.  **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,
6.  **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

**Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.**

Bidder: Logan Corporation

Signed: [Signature]

Date: 4/25/11

Title: Territory Mgr

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING 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 owed 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 exceeds 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.

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

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Logan Corp.

Authorized Signature: [Signature] Date: 4/25/11

State of \_\_\_\_\_

County of Kanawha to-wit:

Taken, subscribed, and sworn to before me this 25 day of April, 2011.

My Commission expires August 6, 2018

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

