



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  
**06900193**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
**MICHAEL AUSTIN**  
**304-558-2402**

VENDOR

**RFQ COPY**  
 TYPE NAME/ADDRESS HERE

SHIP TO

**DIVISION OF HIGHWAYS**  
**JOBSITE**  
**SEE SPECIFICATIONS**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/14/2008				

BID OPENING DATE: **01/14/2009**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		210-16		
<p><b>DEEP PRESTRESSED CONCRETE BEAMS WITH ACCESSORIES</b></p> <p>TO PROVIDE 1572 SF OF PRESTRESSED CONCRETE BEAMS WITH ACCESSORIES. THE BEAMS SHALL BE 33" DEEP X 36" WIDE X 65'-6" LONG. TWO (2) EXTERIOR BEAMS AND SIX (6) INTERIOR BEAMS ARE REQUIRED FOR STATE PROJECT S352-26-2.96, PADEN FORK BRIDGE FOR THE WEST VIRGINIA DIVISION OF HIGHWAYS. PER THE ATTACHED SPECIFICATIONS AND DRAWINGS.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.: .....</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <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>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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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. 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 \$125 fee.
5. 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.
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 may be deemed null and void, and 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 Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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**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 case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** 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



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 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
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12/14/2008				

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<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>..... SIGNATURE</p> <p>..... COMPANY</p> <p>..... DATE</p> <p>REV. 11/96</p> <p>NOTICE</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</p>						

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<p>THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:            SEALED BID</p> <p>BUYER: <b>33</b></p> <p>RFQ. NO.: <b>06900193</b></p> <p>BID OPENING DATE: -----</p> <p>BID OPENING TIME: -----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY            TO CONTACT YOU REGARDING YOUR BID:</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>-----</p> <p>***** THIS IS THE END OF RFQ 06900193 ***** TOTAL: _____</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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### 1. DESCRIPTION

The beams shall be 33" deep X 36" wide X 65'-6" long.

Two (2) exterior beams and six (6) interior beams are required.

In addition to the beams the fabricator shall also supply in accordance with the attached plans all associated items included but not limited to the following.

Guardrail Posts and Hardware attached to the exterior beams; Bearing Pads; Anchor Dowels; Post Tensioning Bars with Nuts and Bearing Plates and 2 extra nuts; Sponge Rubber Joint Filler, Washers, and Grout Stop.

### 2. ACCEPTANCE

Cracks developing in a beam may be cause for rejection of the beam. Cracks that are not detrimental to the structural integrity of the beam, as determined by the Division of Highways, may be accepted under the following conditions:

- 1) Cracks of 0.004 inch or less shall be treated with a second coat of a Division of Highways approved concrete sealer.
  - 2) Cracks of greater than 0.004 inch shall be treated by a Division of Highways approved epoxy injection methods.
- All concrete sealer and epoxy injection required for acceptance shall be performed at no additional cost to the Division of Highways.

### 3. DELIVERY

ALL BEAMS AND ACCESSORIES SHALL BE DELIVERED TO THE PROJECT SITE DURING THE WEEK OF FEBRUARY 16, 2009.

Upon receipt of a Purchase Order the Vendor shall submit shop drawings to the District Bridge Engineer within fifteen (15) calendar days. Shop drawings must be approved by the Division of Highways prior to the manufacture of any beam sections.

Should the Vendor fail to meet the above delivery schedule, liquidated damages will be assessed in accordance with Section 108.7 of the current Division of Highways Standard Specifications Roads and Bridges.

Sites for delivery of beam sections and accessories under this contract shall be accessible to equipment that is normally and customarily used for transportation of beam sections. Delivery will not be required where gross vehicle loaded weights will exceed the legal road or bridge load. Upon receipt of an approved Purchase Order, the Vendor must notify the District Bridge Engineer within ten (10) calendar days if delivery under the terms of this contract cannot be performed due to weight restrictions or roadway geometrics.

Prior to delivery, all Beams, Accessories and Optional Items shall be tested and accepted in accordance with Section 603 of the Division of Highways Standard Specifications Roads and Bridges adopted 1993, as modified by the July 1, 1998 Supplemental Specifications.

### 4. PARTIAL PAYMENT OF APPROVED BEAMS

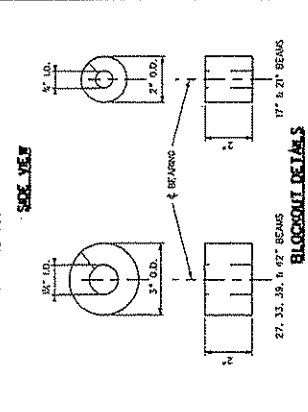
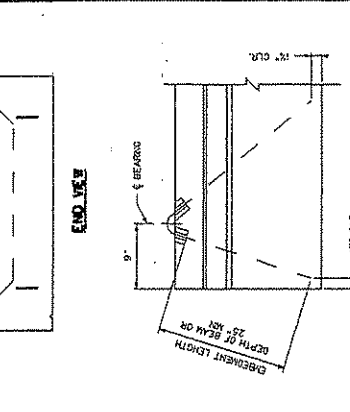
Upon completion of manufacture and approval by the Division of Highways of all beams specified on Purchase Order, the vendor may invoice and the Division will pay for the cost of manufacturing the beams, not to exceed 65% of the total cost of the delivered beams. Partial payment for the beams shall be subject to the following conditions:

- a. The vendor must request partial payment and furnish an official invoice for the manufactured and approved beams.
- b. The partial payment invoice shall be accompanied by a surety bond equal to the invoiced amount guaranteeing delivery of all items specified on the Purchase Order.
- c. The vendor shall furnish a statement of approved beams condition and exact storage location.
- d. The vendor shall furnish a legal right-of-entry onto the storage site to Division of Highways' employees and/or agents for the purpose of inspecting, sampling, testing and removing any or all Beams.
- e. The vendor shall certify that the stored beams are suitably marked and identified as property of the Division of Highways and will not be for any purpose not designated by the Division.

SHEET NO.	16	TOTAL SHEETS	27
PROJECT NUMBER	5352-26-2-96	COUNTY	WETZEL
PROJECT NAME	N/A	DATE	5
DESIGNED BY	THP	CHECKED BY	THP
DRAWN BY	THP	REVIEWED BY	THP
DATE	02-88	SCALE	1/8" = 1'-0"
SHEET NO.	16	OF	27
PROJECT NO.	5352-26-2-96		

3" x 4" STRAND TIEING LOOPS EMBEDDED IN FULL DEPTH OF BEAM BRUSH COVER OR A MINIMUM OF 25 INCHES. THE BEAM SHALL BE COVERED BY THE PARAPET WALL.

2" x 4" OR 3" x 4" FLOOR BLOCKOUT WITH FULL DEPTH OF STRANDS AND FULL RIB TIEING. REINFORCEMENTS OF SUB-SECT.



27, 33, 38, 6 x 27" BEAMS  
17" x 27" BEAMS

**BLOCKOUT DETAILS**

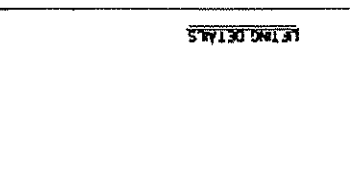
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PADEN FORK BRIDGE  
OVER POINT PLEASANT CREEK  
WETZEL CO. C.R. 26  
5352-26-2-96

PRESTRESSED CONCRETE BEAM  
SKEWED END JOINTING  
MISC. DESIGN AND ASSEMBLY DETAILS

AT FIXED END FILL 2" x 4" ANCHOR HOLES WITH PORTLAND CEMENT MORTAR MEETING THE REQUIREMENTS OF SUB-SECT. 715.5.

1" x 2" x 2'-0" LONG ONLY. NO. 8 DEFORMED REBAR (GR. 80). BRUSH SET AND JOINT SHALL BE IN ACCORDANCE WITH SUB-SECT. 715.3.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
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ENGINEERING DIVISION

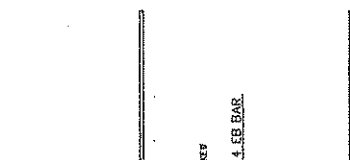
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STANDARD SHEET BR-B102A

DESIGNED BY: THP  
DRAWN BY: THP  
CHECKED BY: THP  
REVIEWED BY: THP  
DATE: 02-88  
SCALE: 1/8" = 1'-0"

SEAL JOINT WITH PORTLAND CEMENT MORTAR MEETING THE REQUIREMENTS OF SUB-SECT. 715.5. AND DEPTH OF SEAL - 1 1/2"

PREPARED JOINT FILLER MEETING THE REQUIREMENTS OF SUB-SECT. 715.3. AND DEPTH OF SEAL - 1 1/2"



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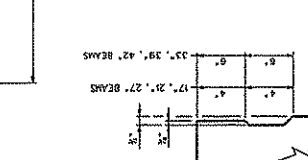
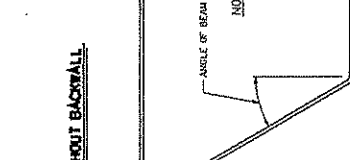
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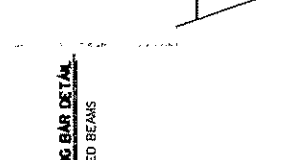
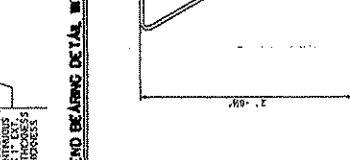
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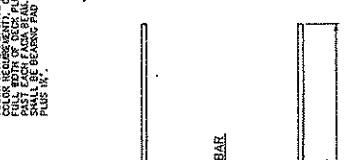
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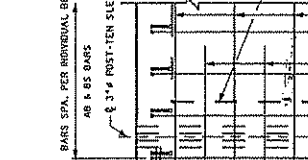
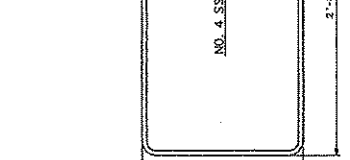
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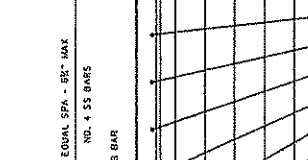
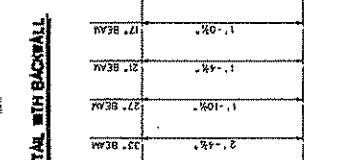
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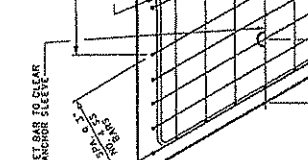
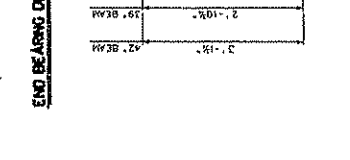
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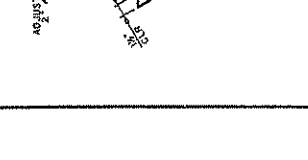
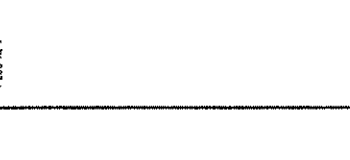
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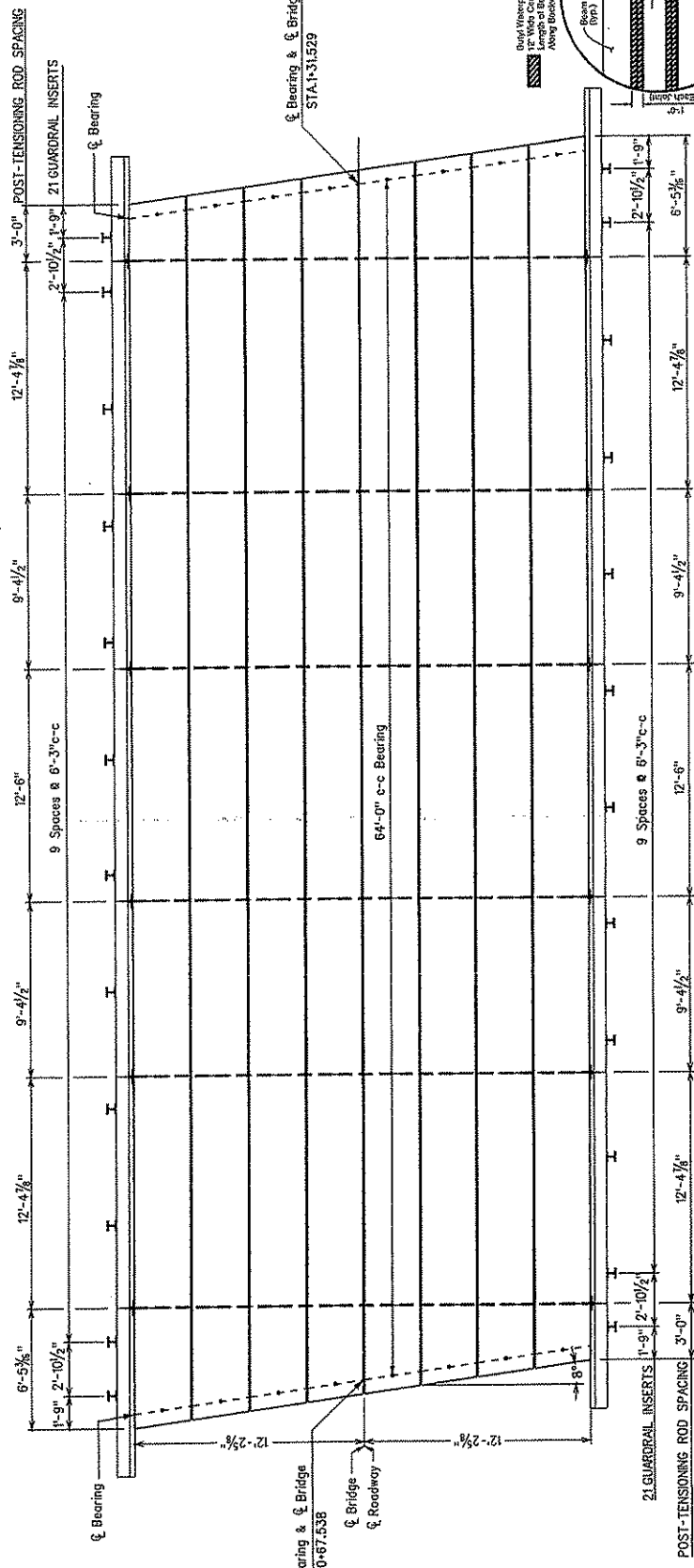
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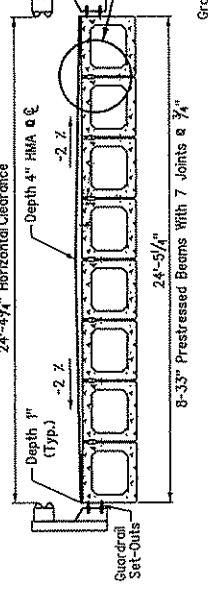
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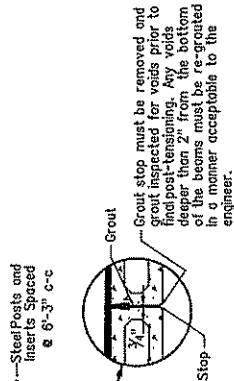
STATE PROJECT NUMBER	STATE PROJECT NO.	COUNTY	SHEET NO.	TOTAL SHEETS
SS32-26-2.95	NR	WETZEL	19	27



**DECK PLAN**



**DECK SECTION**



**ESTIMATE OF QUANTITIES**

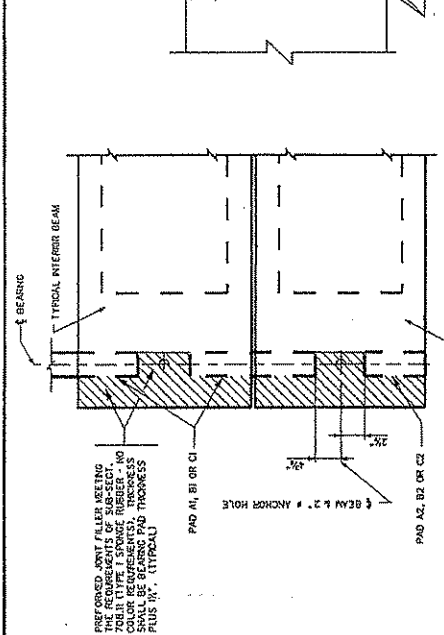
ITEM	DESCRIPTION	ASBT. ONE	ASBT. TWO	TOTAL
Z12001-000	STRUCTURE EXCAVATION (CY)	0	0	0
Z12005-000	SELECT MATERIAL FOR BACKFILLING (CY)	0	0	0
63002-001	CLASS B CONCRETE (CY)	4.25	4.25	8.50
632002-001	EPOXY COATED REINFORCING STEEL BAR (LBS.)	282.13	282.13	564.26
603016-024	33X36 INCH PRESTRESSED CONCRETE BOX BEAM (LF)			524

DATE	BY	REVISION
12-07		
12-07		
02-08		

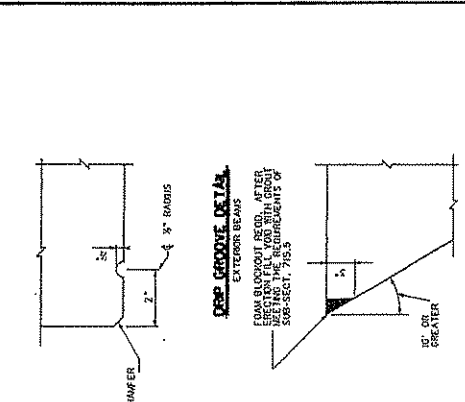


THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SUPERSTRUCTURE LAYOUT  
PAPER FOR BRIDGE

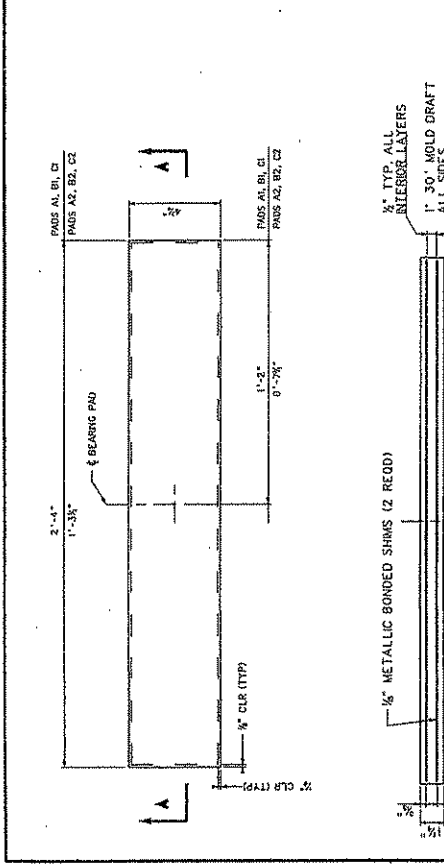
STATE	FEDERAL	SHEET	NO.	OF	TOTAL
PROJECT NUMBER	PROJECT NUMBER	DATE	NO.	OF	TOTAL
5392-06-2-18	5392-06-2-18	1/1/68	6	OF	21
DESIGNER	BY	CHECKED	DATE	BY	DATE



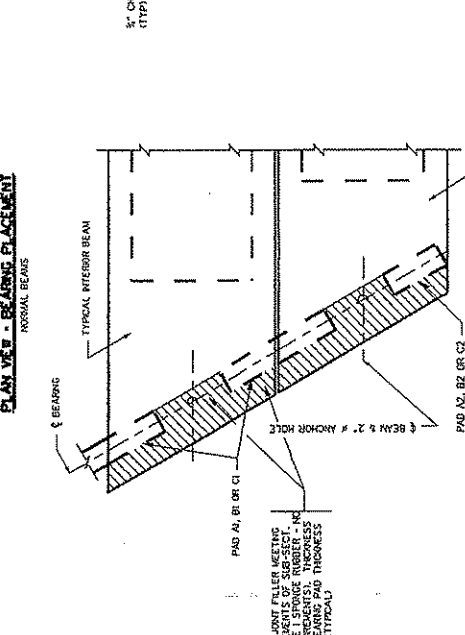
**ANCHOR SLEEVE DETAIL**



**GROOVE DETAIL**



**PLAN VIEW - BEARINGS PLACEMENT**



**SECTION A-A**

**PLAN VIEW - BEARINGS PLACEMENT**

**SECTION A-A**

**SECTION B-B**

**SECTION C-C**

**SECTION D-D**

**SECTION E-E**

**SECTION F-F**

**SECTION G-G**

**SECTION H-H**

**SECTION I-I**

- NOTES:**
- ELASTOMERIC BEARINGS SHALL BE DESIGNED IN ACCORDANCE WITH DESIGN METHOD B CONTAINED IN SECTION 14 OF THE AASHTO LATEST BRIDGE DESIGN SPECIFICATIONS. FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 16 OF THE AASHTO LATEST BRIDGE CONSTRUCTION SPECIFICATIONS.
  - ALL BEARINGS ARE DESIGNED FOR A LOT TEMPERATURE ZONE C, AND SHALL HAVE A DIAMETER HARDNESS OF 60. METALLIC REINFORCEMENT SHALL HAVE A MINIMUM YIELD STRENGTH OF 36 KSI.
  - BEARINGS SHALL BE SPACED AS SHOWN. METALLIC REINFORCEMENT SHALL BE BEARING PAD THICKNESS PLUS 1/2" (TYPICAL).
  - DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT STEPPED END BEAMS MAY TEST CORRECT AT THE TIME OF ERECTION, BEFORE THE BEARINGS ARE SECURED IN PLACE. METHOD OF CORRECTION SHALL PROVIDE AN EVEN, TOTAL BEARING AND A LEVEL TOP BEARING SURFACE. TOLERANCE DESIGNER'S CORRECTIONS ARE REQUIRED PRIOR TO SHEAR.
  - FOR BEAMS WITH STEPPED ENDS USE PADS A2, B2, OR C2 ON BOTH SIDES OF EACH BEAM.
  - ELASTOMERIC BEARING PADS SHALL BE INCLUDED IN THE PRICE OF THE BEARINGS.
  - THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-801A & B THRU BR-804A & B, BR-805, BR-806, BR-807, BR-808A, BR-809, BR-810A, BR-811, BR-812A, BR-813, BR-814, BR-815A, B & BR-816 AS APPROPRIATE.

PAD	LENGTH	WIDTH	HEIGHT	NO. SHIMS	SHIM SIZE	SPAN RANGES	MAXIMUM REACTION	MAXIMUM MOVEMENT	USE DIRECTION
A1	48"	28"	1 1/2"	2	3/4" x 3/4" x 1/4"	20' - 36'	55 KIPS	0.39"	
B1	48"	28"	1 1/2"	3	3/4" x 3/4" x 1/4"	40' - 76'	75 KIPS	0.80"	
C1	48"	28"	1 1/2"	4	3/4" x 3/4" x 1/4"	80' - 100'	89 KIPS	1.02"	
A2	48"	18 1/2"	1 1/2"	2	3/4" x 3/4" x 1/4"	20' - 30'	28 KIPS	0.39"	
B2	48"	18 1/2"	1 1/2"	3	3/4" x 3/4" x 1/4"	40' - 78'	38 KIPS	0.80"	
C2	48"	18 1/2"	1 1/2"	4	3/4" x 3/4" x 1/4"	80' - 100'	45 KIPS	1.02"	

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PADEN FORK BRIDGE  
OVER POINT PLEASANT CREEK  
S3952-26-2.96

WETZEL CO.  
C.R. 26

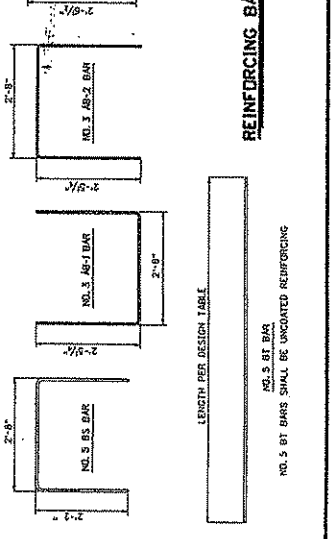
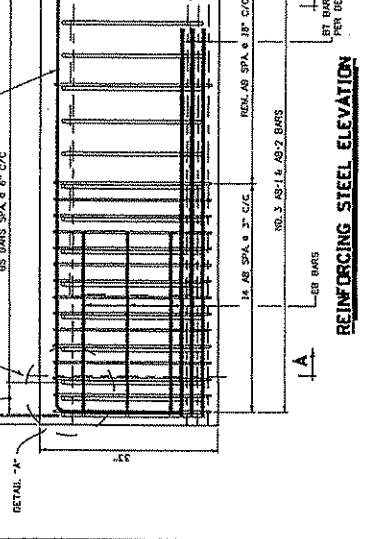
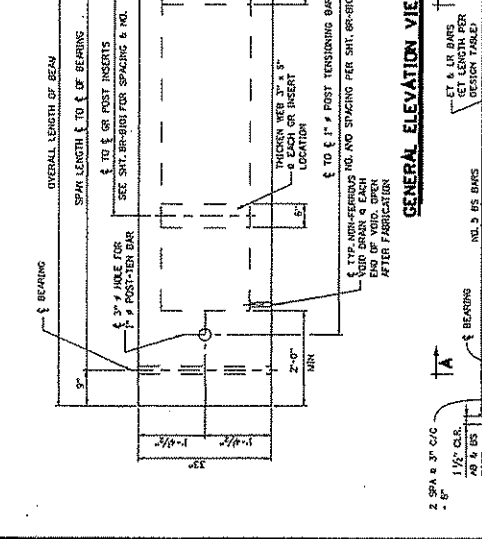
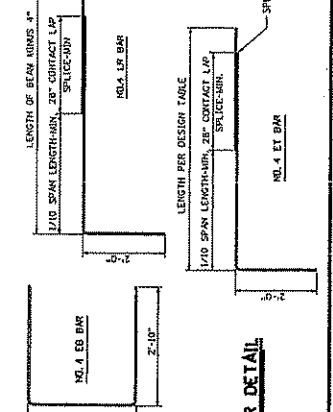
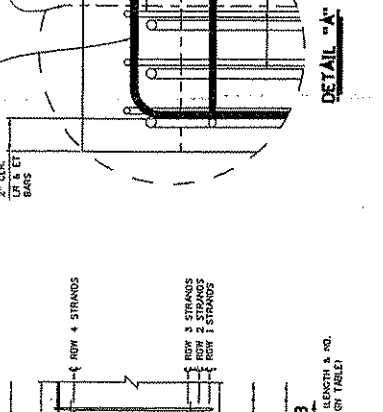
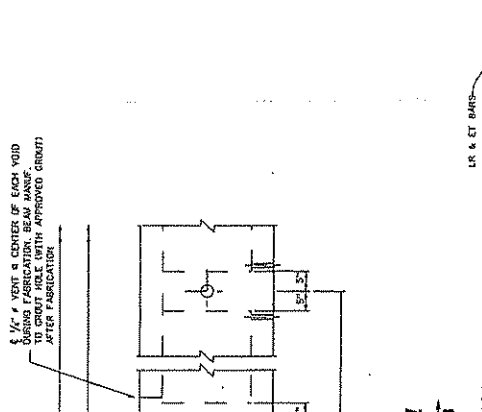
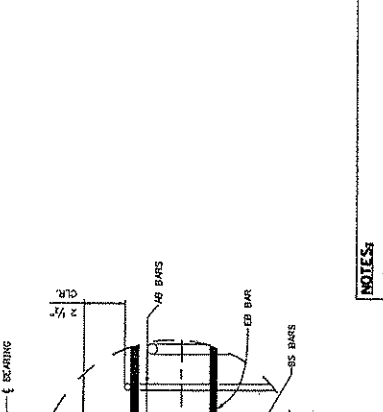
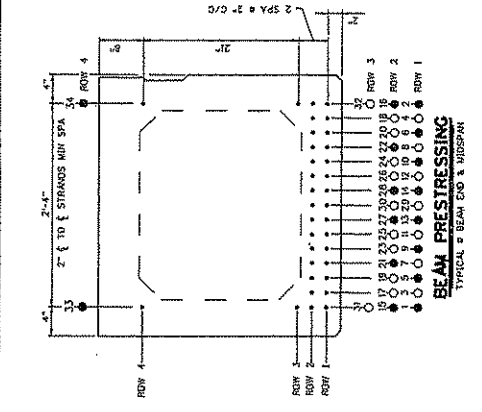
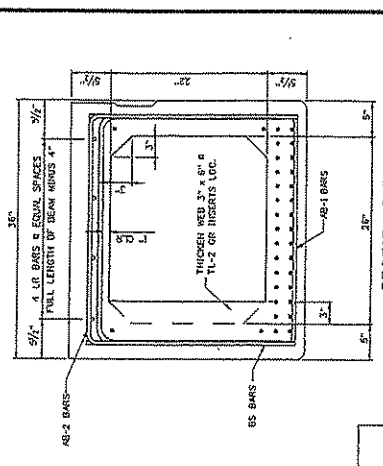
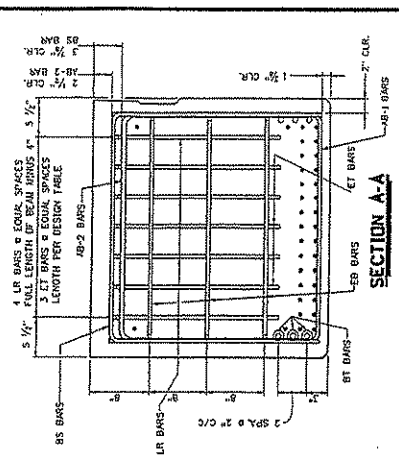
PRESTRESSED CONCRETE BEAM  
ELASTOMERIC BEARING PAD DETAILS  
MISC. DESIGN AND ASSEMBLY DETAILS

STANDARD SHEET BR-8102B

DESIGNED BY: THP/  
DRAWN BY: THP/  
CHECKED BY: THP/  
REVIEWED BY: THP/  
DATE: 02-08  
SCALE:  
SHEET 11 OF 21  
PROJECT NO.  
10791



PROJECT NO.	3332-26-1-16	DISTRICT	6	COUNTY	KETEL	SHEET NO.	12	TOTAL	27
STATE	VA								



**NOTES:**

- REFER TO SHEET BR-100A FOR SHEAR KEY DETAILS.
- DESIGNER SHALL USE THE FOLLOWING KEY TO INDICATE STRAND AND DEBORING PATTERN ON "BEAM PRESTRESSING":
  - - ACTIVE STRAND
  - △ - DEBORING STRAND LENGTH FROM END OF BEAM
  - - DEBORING STRAND LENGTH FROM END OF BEAM
- THIS SHEET SHALL BE USED IN CONNECTION WITH STANDARD SHEETS BR-1000, BR-1001, BR-1002, BR-1003, BR-1004, BR-1005 & BR-1006 AS APPLICABLE.

DESIGNED BY: [Signature]  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 REVISIONS BY: [Signature]  
 DATE: 02-08  
 SCALE: [Blank]  
 SHEET NO. 12 OF 27  
 PROJECT NO. 3332-26-1-16

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 ENGINEERING DIVISION

PADEN FORK BRIDGE  
 OVER POINT PLEASANT CREEK  
 WETZEL CO. C.R. 26  
 3.5" PRESTRESSED BOX BEAM  
 DESIGN AND ASSEMBLY DETAILS  
 STANDARD SHEET BR-100A

STATE PROJECT NUMBER	CONTRACT PRODUCT NUMBER	CONTRACT NO.	PROJECT NO.	SHEET NO.
205-26-0-86	1/A	6	PETEL	27

MIN. CONCRETE STRENGTH @ RELEASE - 5500 PSI  
 MIN. CONCRETE STRENGTH @ 28 DAYS - 8000 PSI  
 INITIAL PULL/STRAND - 33,820 LBS  
 CROSS-SECTION AREA/STRAND - 0.167 SQ. IN.

DESIGN DATA FOR 33" DEPTH ADJACENT BOX BEAM

SPAN LENGTH @ 10' & BEARING OVERALL LENGTH OF BEAM	BEARING SPACINGS									
	5'-0"	5'-2"	5'-4"	5'-6"	5'-8"	5'-10"	6'-0"	6'-2"	6'-4"	6'-6"
NO. OF 270 KSI 1/2" LOW-BELAXATION STRANDS, AREA/STRAND - 0.167 SQ. IN.	12	12	12	12	12	12	12	12	12	12
ROW 1	10.7	11.1	11.5	11.9	12.3	12.7	13.1	13.5	13.9	14.3
ROW 2	10.7	11.1	11.5	11.9	12.3	12.7	13.1	13.5	13.9	14.3
ROW 3	10.7	11.1	11.5	11.9	12.3	12.7	13.1	13.5	13.9	14.3
STRAND POSITION NUMBER										
PRESSING FORCE IMMEDIATELY AFTER STRAND RELEASE, PPA (KIPS/BEAM)	304	304	304	304	304	304	304	304	304	304
EFFECTIVE PRESTRESSING FORCE AFTER ALL LOSSES, PPA (KIPS/BEAM)	204	204	204	204	204	204	204	204	204	204
REQUIRED FACTORED MOMENT @ STRENGTH 1.4W (FT-KIPS/BEAM)	58	58	58	58	58	58	58	58	58	58
FACTORED ELEMENTAL RESISTANCE, ΦR (FT-KIPS/BEAM)	519	519	519	519	519	519	519	519	519	519
TOTAL NO. DEBONDED STRANDS	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062
DEBONDED STRAND POSITION NUMBER & SHIELDING LENGTH FROM EACH END										
NUMBER & LENGTH OF ET TOP TENSION BARS @ EACH END	3 - #4	3 - #4	3 - #4	3 - #4	3 - #4	3 - #4	3 - #4	3 - #4	3 - #4	3 - #4
NUMBER & LENGTH OF ET BOTTOM TENSION BARS @ EACH END	3 - #6	3 - #6	3 - #6	3 - #6	3 - #6	3 - #6	3 - #6	3 - #6	3 - #6	3 - #6
DESIGN CAMBER (+ = POSITIVE UP)										
@ RELEASE										
@ ERECTION										
@ FINAL										
NO. OF INSERTS REQ'D.										
END OF BEAM TO END OF FIRST INSERT										
END OF LAST INSERT TO END OF BEAM										
WEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (TONS)	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4

- NOTES
- BEAM WEIGHTS LISTED IN THE DESIGN TABLE ARE BASED ON ZERO SKEW, 2 FT. LONG ENDBLOCKS AND DIAPHRAGMS SPACED @ 15 FT C/C. WEIGHTS FOR SKEWED BEAMS, LUNGER ENDBLOCKS AND ADDITIONAL DIAPHRAGMS SHOULD BE ADJUSTED ACCORDINGLY.
  - FOR ADDITIONAL DIAPHRAGMS, ADD 497 LBS/SPAN/FT.
  - FOR SKEW AND 33 LBS/DEGREE OF SKEW/END.
  - FOR LONGER ENDBLOCK, ADD 596 LBS/EAF/END.
  - DESIGNERS SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON EVEN SPAN LENGTHS. A TWO LANE STRUCTURE @ BEAMS WIDE AND ZERO SKEW. SUPERIMPOSED DEAD LOADS INCLUDE TYPE F PARAPET (321 PL) AND A FMS OF 50 PSF. FOR NON-STANDARD BRIDGES DATA SHOULD BE VERIFIED AND IF OBTAINED NEW DESIGN DATA ENTERED INTO BLANK COLUMNS. IN NO CASE SHALL THE STANDARD DESIGN TABLE BE ALTERED.
  - PREDICTED DESIGN CAMBER VALUES LISTED IN THE TABLE ARE BASED ON EMPIRICAL FORMULAS AND NOT FIELD MEASUREMENTS. DESIGNERS SHOULD CONSIDER ADDITIONAL CAMBER TO BE ADDED TO FIELD MEASUREMENT VALUES LISTED IN APPENDIX B OF PCI MANUAL FOR QUALITY CONTROL, INC. 10, 1978. MEASUREMENT OF CAMBER FOR COMPARISON TO PREDICTED DESIGN VALUES SHOULD BE COMPLETED WITHIN 72 HOURS OF RELEASE. ADDITIONALLY, CAMBER SHOULD BE EVALUATED UNDER CONDITIONS THAT MINIMIZE THE EFFECT OF TEMPERATURE VARIATION.

- DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKEWED END BEAMS MAY TWIST OR WARP, CAUSING UNEVEN BEAM SEATING AT THE BEARINGS. THE CONTRACTOR IS REQUIRED TO CORRECT AT THE TIME OF ERECTION, BEFORE THE BEAMS ARE SECURED IN PLACE. METHOD OF CORRECTION SHALL PROVIDE AN EVEN, TOTAL BEARING AND A LEVEL TOP BEAM SURFACE. TOLERANCE AFTER CORRECTION SHALL BE 1/16" INCH. THE FABRICATOR SHALL NOTIFY THE CONTRACTOR AND DESIGNER IF CORRECTIONS ARE REQUIRED PRIOR TO SHIPMENT.
- MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
- DESIGNER INPUT VALUES OF NUMBER OF INSERTS, DISTANCE FROM END OF BEAM TO FIRST INSERT AND SECOND INSERT, ABOVE VALUES SHALL BE BASED ON THE REQUIRED 6"-3" QUADRANTIAL POST SPACING ACROSS THE BRIDGE.
- THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-833A, BR-800, BR-810, BR-810A, BR-810B, BR-810C, BR-810D, BR-810E, BR-810F, BR-810G, BR-810H, BR-810I, BR-810J, BR-810K, BR-810L, BR-810M, BR-810N, BR-810O, BR-810P, BR-810Q, BR-810R, BR-810S, BR-810T, BR-810U, BR-810V, BR-810W, BR-810X, BR-810Y, BR-810Z.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 ENGINEERING DIVISION

PADEN FORK BRIDGE  
 OVER POINT PLEASANT CREEK  
 WEITZEL CO. C.R. 26  
 DESIGN TABLE FOR 33"  
 PRESTRESSED BOX BEAM

DESIGNED BY  
 CHECKED BY  
 DRAWN BY  
 DATE  
 SHEET NO. 13 OF 27  
 DRAWING NUMBER  
 10791

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 ENGINEERING DIVISION  
 DESIGN TABLE FOR 33"  
 PRESTRESSED BOX BEAM  
 STANDARD SHEET BR-833B



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ENGINEERING DIVISION	PROJECT NUMBER S352-26-2-96	DATE N/A	COUNTY WETZEL	SHEET NO. 14	TOTAL SHEETS 27
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**GOVERNING SPECIFICATIONS:** TRANSPORTATION DIVISION OF HIGHWAYS  
STANDARD SPECIFICATIONS FOR BRIDGES AND STRUCTURES, 2003 EDITION  
BY THE CURRENT SUPPLEMENTAL SPECIFICATIONS TO THE CONTRACT PLANS AND  
CONTRACT SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO  
THIS PROJECT.

ALL BEAMS ARE DESIGNED IN ACCORDANCE WITH THE ASHTO LRFD BRIDGE DESIGN  
SPECIFICATIONS DATED 1989 AS AMENDED BY THE 2003 INTERIM SPECIFICATIONS.  
**DESIGN NOTES:**  
ALL STANDARD ADJACENT PRESTRESSED CONCRETE BRIDGE BEAMS ARE DESIGNED  
TO MEET THE FOLLOWING CRITERIA:

- DESIGN LOAD:  
FUTURE WEARING SURFACE OF 50 PSF OF ROADWAY.  
TYPE F PARAPET WEIGHING 321 PLF.
- DIAPHRAGM DEAD LOAD, NUMBER REQUIRED BASED ON 15'-0" MAX. SPACING.  
TWO LANE BRIDGE WITH AN OVERALL WIDTH OF 24'-6" (INCL. 3" GAP  
BETWEEN BEAMS); A CURB-TO-CURB WIDTH OF 22'-4" TRANSVERSE POST-TENSIONING,  
AND ZERO SKEW.
- DESIGN STRENGTH AND UNIT STRESSES:  
MINIMUM CONCRETE STRENGTH & STRAND RELEASE --- 6000 PSI  
MINIMUM CONCRETE STRENGTH @ 28 DAYS BEFORE LOSSES --- 8000 PSI  
TENSILE STRESS LIMITS IN CONCRETE @ SERVICE I AFTER LOSSES --- 3600 PSI  
TENSILE STRESS LIMIT @ STRAND RELEASE --- 2000 PSI  
TENSILE STRESS LIMIT @ STRAND RELEASE --- 2000 PSI  
COMPRESSION STRESS LIMITS IN CONCRETE @ SERVICE I AFTER LOSSES:  
o FINA 1 (F50-04-U) --- 4800 PSI  
o FINA 2 (F50-04-U) --- 4800 PSI  
o FINA 3 (F50-04-U) --- 3600 PSI  
o FINA 4 (F50-04-U) --- 3600 PSI  
TENSILE STRESS LIMIT BY CONCRETE @ SERVICE III AFTER LOSSES:  
o FINA 1 (F50-04-U) --- 2210 PSI  
TENSOR STRESS LIMIT PRIOR TO TRANSFER --- 202.9 KSI  
TENSOR STRESS LIMIT AFTER ALL LOSSES --- 194.4 KSI

DEBONDING OR SHELDOING OF STRANDS TO REDUCE TEMPORARY TENSILE STRESSES  
IS PERMITTED, HOWEVER DEBONDING IS LIMITED TO 40% PER ROW AND 25% TOTAL.  
IN NO INSTANCES SHALL OUTER STRANDS BE DEBONDED. DEBONDED STRANDS SHALL  
BE SEPARATED BY AT LEAST ONE FULLY BONDED STRAND AND SHALL BE SYMMETRICAL  
ABOUT THE C OF THE BEAM.  
SHELDOING OF STRANDS SHALL BE ACCOMPLISHED BY TAPPING OR TIGHT FITTING PLASTIC  
TUBES TAPED AT EACH END.

THE ELASTOMERIC BEARING PADS PROVIDED IN THE STANDARD DESIGNS ARE BASED  
ON ZERO GRADE AND ARE LIMITED TO A MAXIMUM OF 5% GRADE. IN INSTANCES OF  
GRADES EXCEEDING THIS LIMIT, PADS SHALL BE SPECIFICALLY DESIGNED. INDIVIDUAL  
PAD DESIGNS SHALL BE IN ACCORDANCE WITH SECTION 14, ASHTO LRFD. BEVELED  
SOLE PLATES ARE PERMITTED.

MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.  
WHEN ALTERNATE DESIGNS OR SITE SPECIFIC DESIGNS ARE PROVIDED, CRITERIA  
SET FORTH IN THESE STANDARDS SHALL APPLY.

NEGATIVE DESIGN CARRIER AFTER ALL LOSSES IS NOT PERMITTED.  
EACH BEAM PROVIDED IN THESE STANDARD DESIGNS HAS BEEN LOAD RATED IN ACCORDANCE  
WITH SECTION 3.15 OF THE WEST VIRGINIA DIVISION OF HIGHWAYS BRIDGE DESIGN MANUAL, 2004.  
ADDITIONALLY, LOAD RATING PROCEDURES ARE IN ACCORDANCE WITH THE ASHTO MANUAL, 2002.  
FOR CONDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF HIGHWAY BRIDGES.

LAP SPlice TABLE	
BAR SIZE	NO. 3 INCL. 4 NO. 2 INCL. 5
SPlice LEN.	2'-1" 2'-6" 3'-1" 4'-0"

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-8074 & B TYP.  
BR-8424 & B, BR-8101, BR-8102A & B, BR-8103, BR-8104, BR-8105A & B AND BR-8106 AS APPLICABLE.

**MATERIALS & FABRICATION NOTES:**  
THE PRESTRESSED CONCRETE BEAMS SHALL CONFORM TO ALL APPLICABLE  
PROVISIONS OF SECTION 603 OF THE STANDARD SPECIFICATIONS.  
**WELD REINFORCEMENT:**  
ALL WELD REINFORCING STEEL SHALL BE GRADE 60, DEFORMED BILLET STEEL AND  
SHALL BE EPOXY COATED EXCEPT WHERE NOTED. ALL UNCOATED REINFORCING  
SHALL MEET THE REQUIREMENTS OF ASHTO M31. ALL EPOXY COATED  
REINFORCING SHALL MEET THE REQUIREMENTS OF ASHTO M284, EXCEPT WHERE  
AMENDED BY SECTION 7091 OF THE STANDARD SPECIFICATIONS.  
ALL TENSION LAP SPICES SHALL BE A CLASS B CONTACT TYPE, MINIMUM LAP  
SPICE LENGTHS SHALL BE AS GIVEN IN THE LAP SPICE TABLE. THIS SHEET, ADDITIONALLY,  
IF LAP SPACING OF E110 AND B7 BARS IS USED, TERMINATION IN THE SPICE  
SHALL BE NO CLOSER TO THE END OF THE BEAM THAN 1/10 OF THE SPAN LENGTH.

MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS, EXCEPT THAT  
NO. 4 OR BARS MAY HAVE A MINIMUM BEND DIAMETER OF 4 BAR DIAMETERS.  
REBAR CONCRETE COVER SHALL BE AS SPECIFIED IN SECTION 603.3 OF  
THE STANDARD SPECIFICATIONS, EXCEPT WHERE NOTED ON THE PLANS.  
**PRESTRESSING STRANDS:**  
ALL PRESTRESSING STEEL SHALL BE 1/2" x GRADE 270, 7 WIRE UNCOATED, LOW-RELAXATION STRAND  
MEETING THE REQUIREMENTS OF ASHTO M203, SUPPLEMENT S1.  
ALL BEAMS DESIGNED IN THESE STANDARDS UTILIZE STRANDS WITH A NOMINAL AREA OF 0.197 SQ. IN.  
STRANDS WITH A NOMINAL AREA OF 0.153 SQ. IN. IS PERMITTED FOR INDIVIDUAL OR ALTERNATE DESIGNS.  
HOWEVER THE DESIGNER IS ENCOURAGED TO USE THE LARGER STRAND FOR UNIFORMITY REASONS. IN  
NO CASES SHALL STRESS-RELIEVED STRAND BE PERMITTED.

ALL STRANDS SHALL BE ENCLOSED INSIDE THE STIRRUP CAGE FOR THE FULL LENGTH  
OF THE BEAM.  
ALL EXPOSED PRESTRESSING STRAND AT EACH BEAM END SHALL BE SHIP COATED  
WITH A LIQUID COLD-APPLIED BUTADIENE ELASTOMERIC WATERPROOFING MEMBRANE.  
MATERIAL SHALL MEET ASTM C936-94.  
**CONCRETE:**  
ALL CONCRETE USED IN MANUFACTURING PRESTRESSED CONCRETE BEAMS SHALL  
MEET THE REQUIREMENTS OF SECTION 603.6 OF THE STANDARD SPECIFICATIONS.  
DESIGN STRENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES SET FORTH IN  
THESE PLANS.  
ALL CONCRETE USED IN PARAPETS AND CURBS SHALL BE CLASS II CONCRETE.

**ELASTOMERIC BEARING PADS:**  
ALL BEARING PADS SHALL MEET THE APPLICABLE REQUIREMENTS AS SET FORTH IN  
SECTION 18.2 OF THE ASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 1998  
EDITION WITH CURRENT INTERIMS. ALL BEARINGS SHALL BE STEEL REINFORCED  
LAMINATED BEARINGS.  
THE ELASTOMER MATERIAL SHALL BE 50 DUROMETERS WITH A MINIMUM LOW TEMPERATURE  
GRADE OF 3 (ZONE C).  
ALL STEEL REINFORCING SHALL MEET THE REQUIREMENTS OF ASHTO M270, GRADE 36.

**STANDARD ELASTOMERIC BEARINGS, JOINTS, JOINTS & INSERTS:**  
ALL T-BEAM GUARDRAIL AND ATTACHMENT HARDWARE SHALL BE IN ACCORDANCE WITH SECTION  
712.4 OF THE STANDARD SPECIFICATIONS, GUARDRAIL POSTS, STRUCTURAL TUBING, POST ATTACHMENT  
INSERTS, AND HARDWARE SHALL MEET THE LISTED MATERIAL AND COATING SPECIFICATIONS:

ITEM	DESCRIPTION	MATERIAL SPEC.	COATING SPEC.
POST	W6x25	ASHTO M270, OR 36	ASHTO M111
PLATE	1/2" x 7"	ASHTO M270, OR 36	ASHTO M111
TUBING	TS B4x3/16	ASHTO M60, OR B	ASHTO M111
CHANNEL	C7x9.8	ASHTO M270, OR 36	ASHTO M111
WIRE	TYPE 2A 1/4" x 2 1/2" MIN. LEN.	ASTM A618 (OR STEEL)	ASHTO M232
ANCHOR	3/4" x 8" LONG	ASTM A618 (OR STEEL)	ASHTO M232
STUDS	1/4" x 5" x 8" LONG	ASHTO M62 CLASS C	ASHTO M232
NUTS	1/4" x 5" x 5" LONG	ASHTO M62 CLASS C	ASHTO M232
COUPLERS	TYPE 1A 1/4" x 5" x 5" LONG	ASHTO M62 CLASS C	ASHTO M232
BOLTS	1/4" x 12" LONG	ASHTO M62 TYPE 1, HR	ASHTO M232
WASHERS	3/4" x 3" x ALL LEN.	ASHTO M62 TYPE 1, HR	ASHTO M232
WASHERS	5/8" x 3" x ALL LEN.	ASHTO M62 CLASS C	ASHTO M232
WASHERS	ALL	ASHTO M232	ASHTO M232

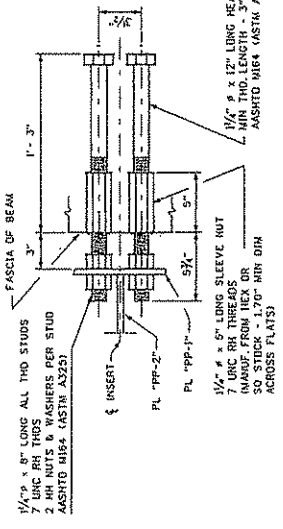
WELDS OF REINFORCEMENT IS NOT PERMITTED. REINFORCING CAGES AND  
LONGITUDINAL STEEL SHALL BE ACCURATELY TIED WITH APPROVED MEANS TO PREVENT  
RACKING AND REBARROTATION.  
ALL WELDING OF FABRICATED ITEMS AS SHOWN IN THESE PLANS SHALL BE IN  
ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ASHTO/M5 D15, 2002.

**POST-TENSIONING BARS:**  
FIRST - TENSIONING THREAD BARS SHALL BE ONE INCH DIAMETER, L50 KSI STEEL, AND  
SHALL CONFORM TO ASHTO M270, TYPE II. STEEL THREAD BARS SHALL BE DESIGNED  
TO ALLOW THE USE OF HEAVY HEX NUTS AND COUPLERS THAT THREAD ONTO THE END  
OF THE DEFORMATIONS. HEAVY HEX NUTS AND COUPLERS SHALL BE OF A DESIGN AND  
MATERIAL RECOMMENDED BY THE BAR MANUFACTURER TO DEVELOP THE FULL TENSILE  
STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFIED MILL TEST REPORTS SHALL  
BE PROVIDED FOR EACH HEAT OF STEEL THREAD BARS.  
ALL POST-TENSIONING THREAD BARS NUTS, BEARING PLATES, COUPLERS, AND ANCHLARY  
HARDWARE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASHTO M111. THE  
GALVANIZING PLANT SHALL COMPLY WITH THE QUALITY CONTROL MEASURES TO  
SAFEGUARD AGAINST HYDROGEN EMBRITTLEMENT. QUALITY CONTROL MEASURES SHALL  
CONFORM WITH ASTM A443. CERTIFICATION FOR HOT-DIP GALVANIZING SHALL BE PROVIDED  
BY THE GALVANIZING PLANT.  
ALL POST-TENSIONING BEARING PLATES SHALL CONFORM TO ASHTO M270, GRADE 36.  
SHEAR KEY GROUT:  
SHEAR KEY GROUT SHALL BE A GROUT THAT IS RECOMMENDED BY THE MANUFACTURER  
FOR A PARTICULAR APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST  
DATA WILL ATTAIN A MINIMUM OF 4800 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER  
CONDITIONS REPRESENTATIVE OF THE CONDITIONS TO BE EXPERIENCED AT THE SITE.  
GROUT MUST BE LISTED ON THE APPROVED LIST OF GROUTS PUBLISHED BY THE WEST  
VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION.  
THE CONTRACTOR SHALL PREPARE THE PROPOSED GROUT FOR COMPRESSIVE STRENGTH  
AT 3 AND 7 DAYS AND SUBMIT THE RESULTS TO THE BRIDGE PROJECT MANAGER FOR APPROVAL  
PRIOR TO INSTALLATION OF THE GROUT IN THE STRUCTURE. THE TESTS WILL BE BASED ON A  
POURABLE CONSISTENCY WITH THE SAME WATER/GROUT MIXTURE RATIO TO BE USED IN THE  
STRUCTURE.  
THE CONTRACTOR SHALL BE NOTIFIED TO SUBMIT FOR EACH PROJECT THE GROUT PRE-TEST  
RESULTS OBTAINED IN THE NOTE ABOVE. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM  
A NEW PRE-TEST AND SUBMISSION FOR APPROVAL UNDER ANY OF THE FOLLOWING CONDITIONS:  
A PERIOD OF 18 MONTHS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.  
GROUT MANUFACTURER HAS REVISED OR CHANGED THE GROUT SPECIFICATIONS.  
THE CONTRACTOR CHANGES GROUT MANUFACTURER.  
THE CONTRACTOR CHANGES GROUT MIXTURE RATIO.  
THE CONTRACTOR IS REQUIRED TO COMPLETE THE GROUT STRENGTH TABLE ON BR-8103.  
TEST PROCEDURE FOR DETERMINING THE COMPRESSIVE STRENGTH OF GROUT SHALL USE CURB  
SPECIMENS IN ACCORDANCE WITH ASTM C109, AS MODIFIED BY ASTM C107. GROUT TESTING IN  
ACCORDANCE WITH ASHTO T23 (STANDARD CYLINDER TEST) IS NOT ACCEPTABLE.  
**REDUCTIVE SUBMERSE TREATMENT:**  
EACH PRESTRESSED CONCRETE BEAM SHALL BE TREATED BY THE MANUFACTURER AT THE  
FABRICATOR PLANT WITH AN APPROVED CONCRETE SEALER (SILANE). AN APPROVED LIST OF  
CONCRETE SEALERS ARE ON FILE AT THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS  
CONTROL, SOIL AND TESTING DIVISION. COVERAGE SHALL INCLUDE TOP AND BOTTOM OF  
INTERIOR BEAMS AND TOP BOTTOM AND EXTERIOR SIDE OF EXTERIOR BEAM. APPLICATION  
RATE SHALL BE PER TREATMENT MANUFACTURER'S RECOMMENDATION.  
AFTER COMPLETION OF THE SILANE TREATMENT BY FABRICATOR AND A MAXIMUM OF FIVE WORKING  
DAYS PRIOR TO SHIPMENT OF THE BEAMS, THE FABRICATOR SHALL BE RESPONSIBLE FOR ABRASIVE  
BLAST CLEANING TO CLEAN WHITE CONCRETE THE INTERIOR SIDES OF BEAMS FOR THE FULL LENGTH.  
CLEAN WHITE CONCRETE SHALL MEAN REMOVAL OF ALL DIRT, GREASE, OIL, AND LOOSE CONCRETE  
LANTAGE AND PROVIDE A UNIFORMED CONCRETE SURFACE. BLASTING MEDIUM SHALL BE APPROVED  
BY THE DIVISION OF HIGHWAYS.  
**SHIP DRAWINGS:**  
THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHIP DRAWINGS IN ACCORDANCE  
WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS DOCUMENTS, 00-102 AND THE STANDARD  
SPECIFICATIONS. ADDITIONAL INFORMATION IS PROVIDED IN SECTION 7 OF THE BRIDGE DESIGN MANUAL.  
SHIP DRAWINGS SHALL INCLUDE THE FABRICATOR'S DETENSIONING PLAN.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION  
PADEN FORK BRIDGE  
OVER POINT PLEASANT CREEK  
S352-26-2-96  
WETZEL CO. C.R. 26  
PRESTRESSED CONCRETE BEAM  
DESIGN & ASSEMBLY NOTES  
STANDARD SHEET BR-8100

DESIGNED BY	DATE DRAWN	SCALE
CHECKED BY	DATE CHECKED	SCALE
APPROVED BY	DATE APPROVED	SCALE
SHEET NO. 14 OF 27	DATE PLOTTED	SCALE
10131		

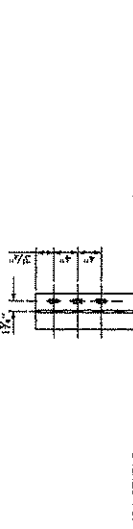
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PROJECT NUMBER	DATE	BY	NO.	SHEET TOTAL
5392-64-2-19	6	WELER	19	27



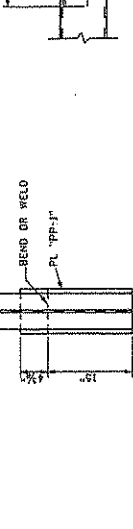
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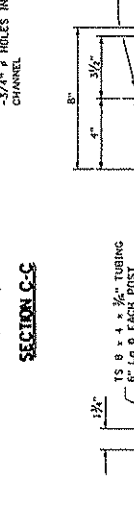
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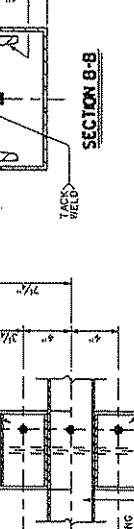
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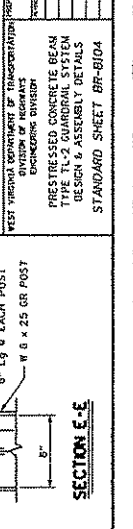
**TYPE "1A" ANCHOR DETAIL**



**TYPE "1A" ANCHOR DETAIL**



**TYPE "1A" ANCHOR DETAIL**

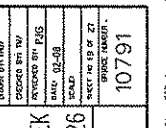
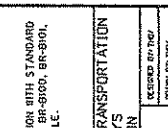
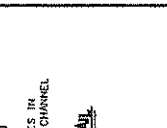
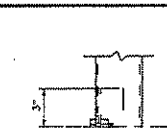
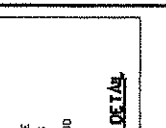
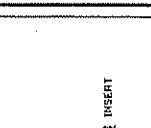


**TYPE "1A" ANCHOR DETAIL**



**TYPE "1A" ANCHOR DETAIL**

NOTE TO BEAM FABRICATOR - REFER TO BR-910 FOR SUPPLY AND INSTALLATION REQUIREMENTS	BRIDGE APPROACH GUARDRAIL - SEE SHEETS GR THRU GR11 (STANDARD DETAILS BOOK (SUPPLIED BY OTHERS))
TOTAL BRIDGE GUARDRAIL LENGTH	2' - 10 1/2" MAX
REMAINDER OF POSTS ACROSS BRIDGE SPACED @ 6' - 3"	6' - 3" MAX
SEE POST DETAILS "A" & "B"	
FINAL DECK ELEV.	
1/4" EXPANSION JOINT IN TUBING (SEE DETAIL THIS SHEET)	
MIN	1' - 5"
BEARING	1' - 9" MIN
FIRST POST OFF BRIDGE SUPPLIED BY OTHERS (TYP)	
DESIGNER INPUT VALUES	



**TYPE "1A" ANCHOR DETAIL**

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PADEN FORK BRIDGE  
OVER POINT PLEASANT CREEK  
WETZEL CO. C.R. 26

PRESTRESSED CONCRETE BEAM  
TYPE TL-2 GUARDRAIL SYSTEM  
DESIGN & ASSEMBLY DETAILS  
STANDARD SHEET BR-B104

DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: 10-25-58  
SCALE: AS SHOWN  
PROJECT NO. 10791

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM  
TYPE TL-2 GUARDRAIL SYSTEM  
DESIGN & ASSEMBLY DETAILS  
STANDARD SHEET BR-B104

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM  
TYPE TL-2 GUARDRAIL SYSTEM  
DESIGN & ASSEMBLY DETAILS  
STANDARD SHEET BR-B104

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM  
TYPE TL-2 GUARDRAIL SYSTEM  
DESIGN & ASSEMBLY DETAILS  
STANDARD SHEET BR-B104

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM  
TYPE TL-2 GUARDRAIL SYSTEM  
DESIGN & ASSEMBLY DETAILS  
STANDARD SHEET BR-B104

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM  
TYPE TL-2 GUARDRAIL SYSTEM  
DESIGN & ASSEMBLY DETAILS  
STANDARD SHEET BR-B104

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM  
TYPE TL-2 GUARDRAIL SYSTEM  
DESIGN & ASSEMBLY DETAILS  
STANDARD SHEET BR-B104

STATE	PROJECT NUMBER	CONTRACT NUMBER	DATE	SCALE	SHEET NO.	TOTAL SHEETS
VA	5332-24-2-35	N/A	6	1/8" = 1'-0"	18	27

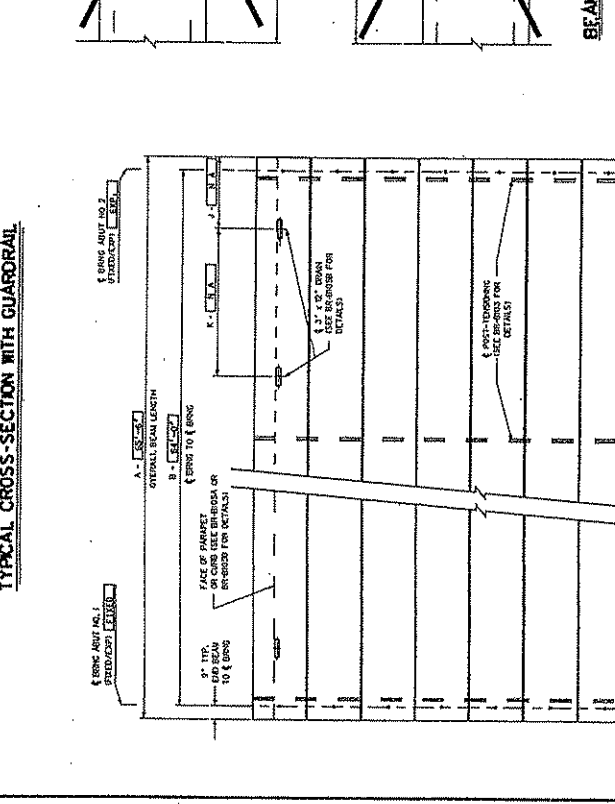
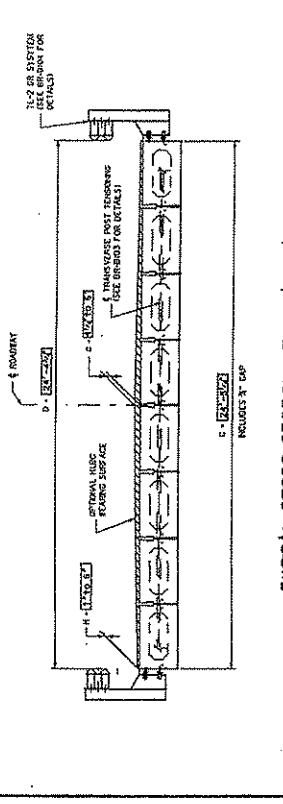
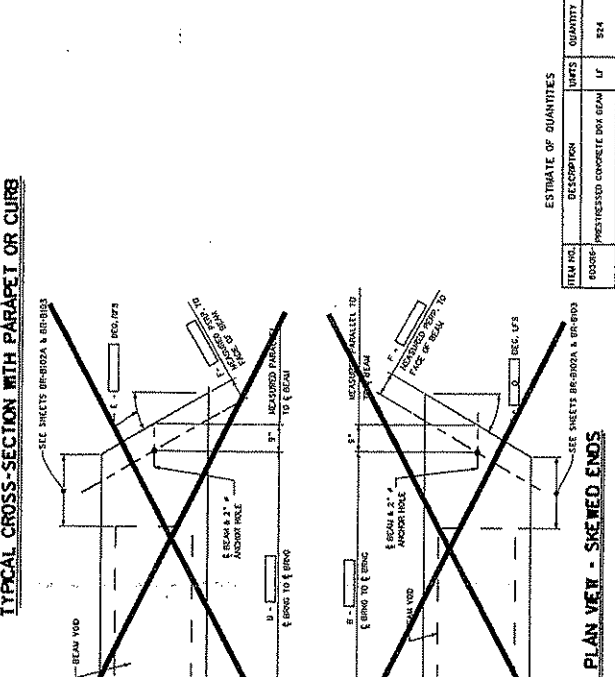
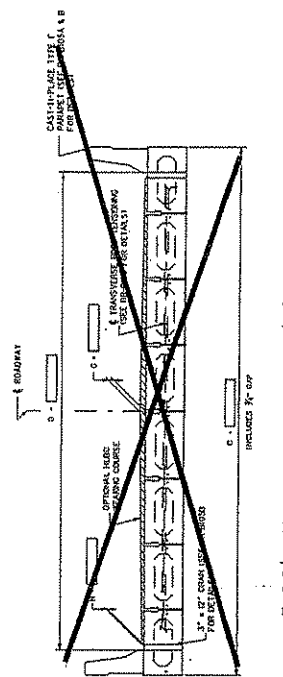
DESCRIPTION	CODE	VALUE
OVERALL BEAM LENGTH	A	85'-0"
SPAN LENGTH & BEARING TO BEARING	D	84'-0"
SUPERSTRUCTURE WIDTH - OUT TO OUT	C	24'-5 1/2"
ROADWAY WIDTH - FACE OF PARAPET TO FACE OF PARAPET	0	24'-4 1/2"
NUMBER OF BEAMS REQUIRED	8	
BEAM SIZE (WIDTH x DEPTH)		3'-0" x 18"
CONCRETE STRENGTH (NORMAL) (EG. 4000 PSI OR DEC. 4000)	E	0
THICKNESS OF WEAR SURFACE (EG. 4" OR DEC. 4")	F	3"
THICKNESS OF WEARING COURSE (EG. 4" OR DEC. 4")		YES
THICKNESS OF WEARING COURSE (EG. 4" OR DEC. 4")	G	2"
THICKNESS OF WEARING COURSE (EG. 4" OR DEC. 4")	H	1"
IS A TYPING GUARDRAIL ATTACHED TO BEAM (YES/NO)		YES
IS A TYPING GUARDRAIL ATTACHED TO BEAM (YES/NO)		YES
IS A TYPING GUARDRAIL ATTACHED TO BEAM (YES/NO)		NO
IS A TYPING GUARDRAIL ATTACHED TO BEAM (YES/NO)		21
IS A TYPING GUARDRAIL ATTACHED TO BEAM (YES/NO)		NO
IS A TYPING GUARDRAIL ATTACHED TO BEAM (YES/NO)		NO
IS A TYPING GUARDRAIL ATTACHED TO BEAM (YES/NO)		0
IS A TYPING GUARDRAIL ATTACHED TO BEAM (YES/NO)		NO

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PADEN FORK BRIDGE  
OVER POINT PLEASANT CREEK  
WETZEL CO. C.R. 26

PRESTRESSED CONCRETE BEAM  
DESIGN & ASSEMBLY NOTES

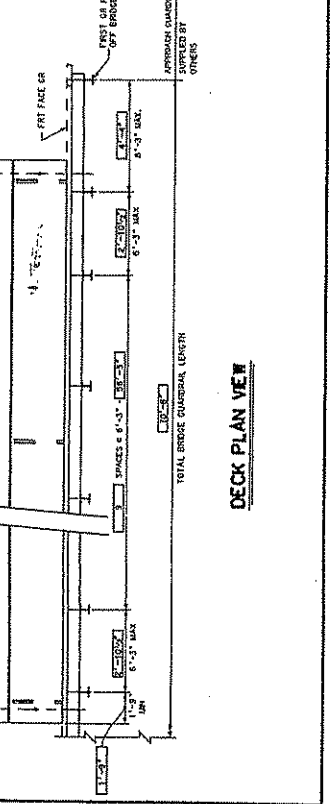
10791



ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1	PRESTRESSED CONCRETE BOX BEAM	LF	824

NOTES:

- WHEN BRIDGE GUARDRAIL IS TO BE SUPPLIED BY THE BEAM FABRICATOR, COST OF ALL BRIDGE GUARDRAIL ITEMS TO INCLUDE POSTS, RAIL AND ANCHORS SHALL BE INCLUDED IN THE BIDDING PRICE. GUARDRAIL SHALL BE PROVIDED BY ITEM 60300 - PRESTRESSED CONCRETE BOX BEAM.
- THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-801A & B, BR-802A & B, BR-803A & B, BR-804A & B, BR-805A & B, BR-806A & B, BR-807A & B, BR-808A & B, BR-809A & B, BR-810A & B, BR-811A & B, BR-812A & B, BR-813A & B, BR-814A & B, BR-815A & B, BR-816A & B, BR-817A & B, BR-818A & B, BR-819A & B, BR-820A & B, BR-821A & B, BR-822A & B, BR-823A & B, BR-824A & B, BR-825A & B, BR-826A & B, BR-827A & B, BR-828A & B, BR-829A & B, BR-830A & B, BR-831A & B, BR-832A & B, BR-833A & B, BR-834A & B, BR-835A & B, BR-836A & B, BR-837A & B, BR-838A & B, BR-839A & B, BR-840A & B, BR-841A & B, BR-842A & B, BR-843A & B, BR-844A & B, BR-845A & B, BR-846A & B, BR-847A & B, BR-848A & B, BR-849A & B, BR-850A & B, BR-851A & B, BR-852A & B, BR-853A & B, BR-854A & B, BR-855A & B, BR-856A & B, BR-857A & B, BR-858A & B, BR-859A & B, BR-860A & B, BR-861A & B, BR-862A & B, BR-863A & B, BR-864A & B, BR-865A & B, BR-866A & B, BR-867A & B, BR-868A & B, BR-869A & B, BR-870A & B, BR-871A & B, BR-872A & B, BR-873A & B, BR-874A & B, BR-875A & B, BR-876A & B, BR-877A & B, BR-878A & B, BR-879A & B, BR-880A & B, BR-881A & B, BR-882A & B, BR-883A & B, BR-884A & B, BR-885A & B, BR-886A & B, BR-887A & B, BR-888A & B, BR-889A & B, BR-890A & B, BR-891A & B, BR-892A & B, BR-893A & B, BR-894A & B, BR-895A & B, BR-896A & B, BR-897A & B, BR-898A & B, BR-899A & B, BR-900A & B, BR-901A & B, BR-902A & B, BR-903A & B, BR-904A & B, BR-905A & B, BR-906A & B, BR-907A & B, BR-908A & B, BR-909A & B, BR-910A & B, BR-911A & B, BR-912A & B, BR-913A & B, BR-914A & B, BR-915A & B, BR-916A & B, BR-917A & B, BR-918A & B, BR-919A & B, BR-920A & B, BR-921A & B, BR-922A & B, BR-923A & B, BR-924A & B, BR-925A & B, BR-926A & B, BR-927A & B, BR-928A & B, BR-929A & B, BR-930A & B, BR-931A & B, BR-932A & B, BR-933A & B, BR-934A & B, BR-935A & B, BR-936A & B, BR-937A & B, BR-938A & B, BR-939A & B, BR-940A & B, BR-941A & B, BR-942A & B, BR-943A & B, BR-944A & B, BR-945A & B, BR-946A & B, BR-947A & B, BR-948A & B, BR-949A & B, BR-950A & B, BR-951A & B, BR-952A & B, BR-953A & B, BR-954A & B, BR-955A & B, BR-956A & B, BR-957A & B, BR-958A & B, BR-959A & B, BR-960A & B, BR-961A & B, BR-962A & B, BR-963A & B, BR-964A & B, BR-965A & B, BR-966A & B, BR-967A & B, BR-968A & B, BR-969A & B, BR-970A & B, BR-971A & B, BR-972A & B, BR-973A & B, BR-974A & B, BR-975A & B, BR-976A & B, BR-977A & B, BR-978A & B, BR-979A & B, BR-980A & B, BR-981A & B, BR-982A & B, BR-983A & B, BR-984A & B, BR-985A & B, BR-986A & B, BR-987A & B, BR-988A & B, BR-989A & B, BR-990A & B, BR-991A & B, BR-992A & B, BR-993A & B, BR-994A & B, BR-995A & B, BR-996A & B, BR-997A & B, BR-998A & B, BR-999A & B, BR-1000A & B.



ESTIMATE OF QUANTITIES

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM  
DESIGN & ASSEMBLY NOTES

STANDARD SHEET BR-B10

DATE: 07-10-07

BY: [Signature]

SCALE: 1/8" = 1'-0"

PROJECT NUMBER	DISTRICT	COUNTY	TOTAL
STATE	GENERAL	WETZEL	NO.
5392-16-1-98	1/A	6	20
			27

**NOTES**

1. THIS GUARDRAIL TRANSITION IS APPROPRIATE FOR CONNECTION TO GUARDRAIL ON BRIDGE.
2. W-BEAM IS NOT BOLTED TO POSTS AT POSTS 2 THROUGH 4 AND POST 6.
3. SEE STANDARD SHEET BR-B104 FOR ANCHOR DETAILS.
4. THERE IS NO SEPARATE PAY ITEM FOR THIS CONNECTION AND ALL COMPONENTS AS DETAILED HEREIN SHALL BE INCLUDED IN THE CONTRACT PRICE FOR GUARDRAIL.

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-C174 & 5 THRU BR-C174 & 6, BR-B100, BR-B101, BR-B102 & 6, BR-B103 AND BR-B104 AS APPLICABLE.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PADEN FORK BRIDGE  
OVER POINT PLEASANT CREEK  
WETZEL CO. C.R. 26

TYPE TL-2 GUARDRAIL TRANSITION

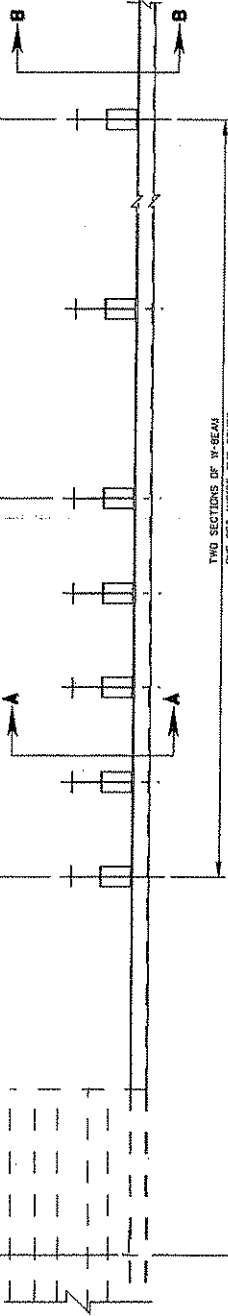
DESIGNED BY/TITLE	DATE
DRAWN BY/TITLE	07-02-07
CHECKED BY/TITLE	
REVIEWED BY/TITLE	
DATE 02-08	
SCALE	
SHEET	10791
OF 27	

STANDARD GUARDRAIL SECTION

4 SPACES @ 3'-1 1/2"

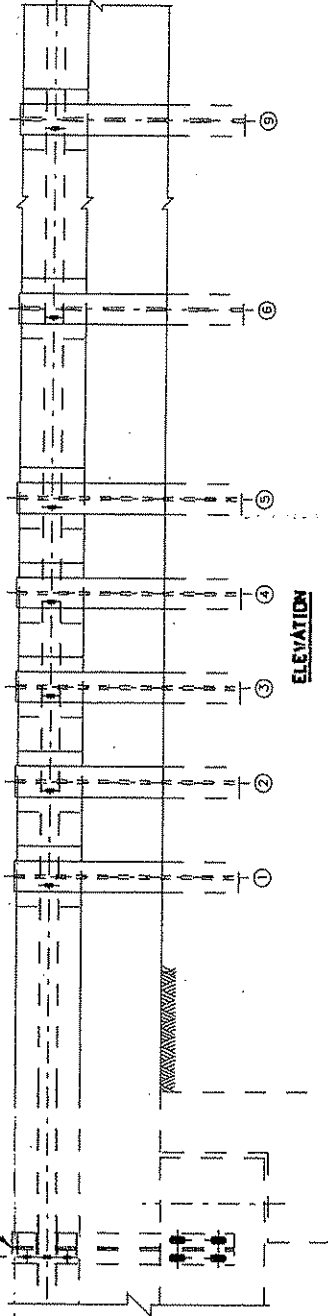
4 SPACES @ 1'-6 3/4"

6'-3" MAX



THRU SECTIONS OF W-BEAM  
ONE SET INSIDE THE OTHER

LAST POST ON BRIDGE.



W6 X 9.0 STEEL POST AND BLOCK

TWO SECTIONS OF W-BEAM ONE SET INSIDE THE OTHER

1'-10 3/8"

W6 X 9.0 STEEL POST AND BLOCK

ONE SECTION OF W-BEAM

1'-10 3/8"

SLOPE-001 OR FLATTER

SECTION A-A

SECTION B-B

STANDARD SHEET BR-B108

PRESIDIO CONCRETE SUPPLY  
1000 W. MARKET STREET  
MARTINSBURG, WV 26151

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

PREPARED BY  
DATE 07-02-07

DESIGNED BY/TITLE

DRAWN BY/TITLE

CHECKED BY/TITLE

REVIEWED BY/TITLE

DATE 02-08

SCALE

SHEET 10791

OF 27

**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: \_\_\_\_\_ Signed: \_\_\_\_\_

Date: \_\_\_\_\_ Title: \_\_\_\_\_

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



STATE OF WEST VIRGINIA  
Purchasing Division

## PURCHASING AFFIDAVIT

### VENDOR OWING A DEBT TO THE STATE:

*West Virginia Code* §5A-3-10a provides that: 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.

### PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

*West Virginia Code* §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

### 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 materials, 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.

### 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, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, 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.

### 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](http://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 is in compliance with the requirements as stated.

Vendor's Name: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_