



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

**Solicitation**

NUMBER
061300228

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
ALAN CUMMINGS 304-558-2402

RFQ COPY

TYPE NAME/ADDRESS HERE

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DIVISION OF HIGHWAYS  
 JOBSITE  
 SEE SPECIFICATIONS

DATE PRINTED
05/22/2013

BID OPENING DATE: 06/12/2013

BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		210-16		
CONCRETE BEAMS, CHANNELS, PRESTRESSED						
REQUEST FOR QUOTATION (ONE-TIME PURCHASE)						
THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH CONCRETE BOX BEAMS AND ACCESSORIES PER THE ATTACHED SPECIFICATIONS.						
***** THIS IS THE END OF RFQ 061300228 ***** TOTAL: _____						

SIGNATURE		TELEPHONE		DATE	
TITLE		FEIN		ADDRESS CHANGES TO BE NOTED ABOVE	

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

**INSTRUCTIONS TO VENDORS SUBMITTING BIDS**

1. **REVIEW DOCUMENTS THOROUGHLY:** The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.
2. **MANDATORY TERMS:** The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.
3. **PREBID MEETING:** The item identified below shall apply to this Solicitation.

A pre-bid meeting will not be held prior to bid opening.

A **NON-MANDATORY PRE-BID** meeting will be held at the following place and time:

A **MANDATORY PRE-BID** meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one person attending the pre-bid meeting may represent more than one Vendor.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. The State will not accept any other form of proof or documentation to verify attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing. Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required

information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in, but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

- 4. **VENDOR QUESTION DEADLINE:** Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are non-binding.

Question Submission Deadline: 06/04/2013

Submit Questions to:

Alan Cummings  
 2019 Washington Street, East  
 P.O. Box 50130  
 Charleston, WV 25305  
 Fax: 304-558-3970  
 Email: Alan.W.Cummings@WV.Gov

- 5. **VERBAL COMMUNICATION:** Any verbal communication between the Vendor and any State personnel is not binding, including that made at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.

- 6. **BID SUBMISSION:** All bids must be signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The bid delivery address is:

Department of Administration, Purchasing Division  
 2019 Washington Street East  
 P.O. Box 50130,  
 Charleston, WV 25305-0130

The bid should contain the information listed below on the face of the envelope or the bid may not be considered:

SEALED BID

BUYER: \_\_\_\_\_

SOLICITATION NO.: \_\_\_\_\_

BID OPENING DATE: \_\_\_\_\_

BID OPENING TIME: \_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal plus  convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE:     Technical  
                    Cost

7. **BID OPENING:** Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when time stamped by the official Purchasing Division time clock.

**Bid Opening Date and Time:**

06/12/2013 - 1:30 P.M.

**Bid Opening Location:**

Department of Administration, Purchasing Division  
 2019 Washington Street East  
 P.O. Box 50130,  
 Charleston, WV 25305-0130

8. **ADDENDUM ACKNOWLEDGEMENT:** Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.
9. **BID FORMATTING:** Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

**GENERAL TERMS AND CONDITIONS:**

1. **CONTRACTUAL AGREEMENT:** Issuance of a Purchase Order signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
  
2. **DEFINITIONS:** As used in this Solicitation / Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation / Contract.
  - 2.1 **"Agency" or "Agencies"** means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
  - 2.2 **"Contract"** means the binding agreement that is entered into between the State and the Vendor to provide the goods and services requested in the Solicitation.
  - 2.3 **"Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.
  - 2.4 **"Purchasing Division"** means the West Virginia Department of Administration, Purchasing Division.
  - 2.5 **"Purchase Order"** means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the successful bidder and Contract holder.
  - 2.6 **"Solicitation"** means the official solicitation published by the Purchasing Division and identified by number on the first page thereof.
  - 2.7 **"State"** means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
  - 2.8 **"Vendor" or "Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. **CONTRACT TERM; RENEWAL; EXTENSION:** The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

**Term Contract**

**Initial Contract Term:** This Contract becomes effective on

and extends for a period of  year(s).

**Renewal Term:** This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal must be submitted to the Purchasing Division Director thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Renewal of this Contract is limited to  successive one (1) year periods. Automatic renewal of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases. Attorney General approval may be required for vendor terms and conditions.

**Reasonable Time Extension:** At the sole discretion of the Purchasing Division Director, and with approval from the Attorney General's office (Attorney General approval is as to form only), this Contract may be extended for a reasonable time after the initial Contract term or after any renewal term as may be necessary to obtain a new contract or renew this Contract. Any reasonable time extension shall not exceed twelve (12) months. Vendor may avoid a reasonable time extension by providing the Purchasing Division Director with written notice of Vendor's desire to terminate this Contract 30 days prior to the expiration of the then current term. During any reasonable time extension period, the Vendor may terminate this Contract for any reason upon giving the Purchasing Division Director 30 days written notice. Automatic extension of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases, but Attorney General approval may be required.

**Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within  days.

**One Time Purchase:** The term of this Contract shall run from the issuance of the Purchase Order until all of the goods contracted for have been delivered, but in no event shall this Contract extend for more than one fiscal year.

**Other:** See attached.

4. **NOTICE TO PROCEED:** Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Purchase Order will be considered notice to proceed
5. **QUANTITIES:** The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.
- Open End Contract:** Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.
- Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.
- Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.
- One Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.
6. **PRICING:** The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification.
7. **EMERGENCY PURCHASES:** The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute a breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.
8. **REQUIRED DOCUMENTS:** All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.
- BID BOND:** All Vendors shall furnish a bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

**PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of . The performance bond must be issued and received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.

**LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be issued and delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable.

**MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

**WORKERS' COMPENSATION INSURANCE:** The apparent successful Vendor shall have appropriate workers' compensation insurance and shall provide proof thereof upon request.

**INSURANCE:** The apparent successful Vendor shall furnish proof of the following insurance prior to Contract award:

**Commercial General Liability Insurance:**  
 or more.

**Builders Risk Insurance:** builders risk – all risk insurance in an amount equal to 100% of the amount of the Contract.



The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed above.

[ ] **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

[ ]

[ ]

[ ]

[ ]

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award regardless of whether or not that requirement is listed above.

**9. LITIGATION BOND:** The Director reserves the right to require any Vendor that files a protest of an award to submit a litigation bond in the amount equal to one percent of the lowest bid submitted or \$5,000, whichever is greater. The entire amount of the bond shall be forfeited if the hearing officer determines that the protest was filed for frivolous or improper purpose, including but not limited to, the purpose of harassing, causing unnecessary delay, or needless expense for the Agency. All litigation bonds shall be made payable to the Purchasing Division. In lieu of a bond, the protester may submit a cashier's check or certified check payable to the Purchasing Division. Cashier's or certified checks will be deposited with and held by the State Treasurer's office. If it is determined that the protest has not been filed for frivolous or improper purpose, the bond or deposit shall be returned in its entirety.

**10. ALTERNATES:** Any model, brand, or specification listed herein establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

**11. EXCEPTIONS AND CLARIFICATIONS:** The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or

other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

**12. LIQUIDATED DAMAGES:** Vendor shall pay liquidated damages in the amount

2% of the contract total, assessed daily,		for	delivery delays beyond 90 working days.

This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy.

**13. ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part. Vendor's signature on its bid signifies acceptance of the terms and conditions contained in the Solicitation and Vendor agrees to be bound by the terms of the Contract, as reflected in the Purchase Order, upon receipt.

**14. REGISTRATION:** Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee if applicable.

**15. COMMUNICATION LIMITATIONS:** In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.

**16. FUNDING:** This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.

**17. PAYMENT:** Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To."

**18. UNIT PRICE:** Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.

**19. DELIVERY:** All quotations are considered freight on board destination ("F.O.B. destination") unless alternate shipping terms are clearly identified in the bid. Vendor's listing of shipping terms that contradict the shipping terms expressly required by this Solicitation may result in bid disqualification.

**20. INTEREST:** Interest attributable to late payment will only be permitted if authorized by the West Virginia Code. Presently, there is no provision in the law for interest on late payments.

**21. PREFERENCE:** Vendor Preference may only be granted upon written request and only in accordance with the West Virginia Code § 5A-3-37 and the West Virginia Code of State Rules. A Resident Vendor Certification form has been attached hereto to allow Vendor to apply for the preference. Vendor's

failure to submit the Resident Vendor Certification form with its bid will result in denial of Vendor Preference. Vendor Preference does not apply to construction projects.

- 22. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES:** For any solicitations publicly advertised for bid on or after July 1, 2012, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to submission of its bid to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.
- 23. TAXES:** The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 24. CANCELLATION:** The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-7.16.2.
- 25. WAIVER OF MINOR IRREGULARITIES:** The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.
- 26. TIME:** Time is of the essence with regard to all matters of time and performance in this Contract.
- 27. APPLICABLE LAW:** This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.
- 28. COMPLIANCE:** Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendors acknowledge that they have reviewed, understand, and will comply with all applicable law.
- 29. PREVAILING WAGE:** On any contract for the construction of a public improvement, Vendor and any subcontractors utilized by Vendor shall pay a rate or rates of wages which shall not be less than the fair minimum rate or rates of wages (prevailing wage), as established by the West Virginia Division of Labor under West Virginia Code §§ 21-5A-1 et seq. and available at <http://www.sos.wv.gov/administrative-law/wagerates/Pages/default.aspx>. Vendor shall be responsible for ensuring compliance with prevailing wage requirements and determining when prevailing wage

requirements are applicable. The required contract provisions contained in West Virginia Code of State Rules § 42-7-3 are specifically incorporated herein by reference.

- 30. ARBITRATION:** Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.
- 31. MODIFICATIONS:** This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary, no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). **No Change shall be implemented by the Vendor until such time as the Vendor receives an approved written change order from the Purchasing Division.**
- 32. WAIVER:** The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.
- 33. SUBSEQUENT FORMS:** The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.
- 34. ASSIGNMENT:** Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.
- 35. WARRANTY:** The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.
- 36. STATE EMPLOYEES:** State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.
- 37. BANKRUPTCY:** In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.

- 38. HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at <http://www.state.wv.us/admin/purchase/vrc/hipaa.html> and is hereby made part of the agreement provided that the Agency meets the definition of a Covered entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the Vendor. Additionally, the HIPAA Privacy, Security, Enforcement & Breach Notification Final Omnibus Rule was published on January 25, 2013. It may be viewed online at <http://www.gpo.gov/fdsys/pkg/FR-2013-01-25/pdf/2013-01073.pdf>. Any organization, that qualifies as the Agency's Business Associate, is expected to be in compliance with this Final Rule. For those Business Associates entering into contracts with a HIPAA Covered State Agency between January 25, 2013 and the release of the 2013 WV State Agency Business Associate Agreement, or September 23, 2013 (whichever is earlier), be advised that you will be required to comply with the 2013 WV State Agency Business Associate Agreement. For those Business Associates with contracts with a HIPAA Covered State Agency executed prior to January 25, 2013, be advised that upon renewal or modification, you will be required to comply with the 2013 WV State Agency Business Associate Agreement no later than September 22, 2014.
- 39. CONFIDENTIALITY:** The Vendor agrees that it 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/default.html>.
- 40. DISCLOSURE:** Vendor's response to the Solicitation and the resulting Contract are considered public documents and will be disclosed to the public in accordance with the laws, rules, and policies governing the West Virginia Purchasing Division. Those laws include, but are not limited to, the Freedom of Information Act found in West Virginia Code § 29B-1-1 et seq.

If a Vendor considers any part of its bid to be exempt from public disclosure, Vendor must so indicate by specifically identifying the exempt information, identifying the exemption that applies, providing a detailed justification for the exemption, segregating the exempt information from the general bid information, and submitting the exempt information as part of its bid but in a segregated and clearly identifiable format. Failure to comply with the foregoing requirements will result in public disclosure of the Vendor's bid without further notice. A Vendor's act of marking all or nearly all of its bid as exempt is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor's act of marking a bid or any part thereof as "confidential" or "proprietary" is not sufficient to avoid disclosure and WILL NOT BE HONORED. In addition, a legend or other statement indicating that all or substantially all of the bid is exempt from disclosure is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor will be required to defend any claimed exemption for nondisclosure in the event of an administrative or judicial challenge to the State's nondisclosure. Vendor must indemnify the State for any costs incurred related to any exemptions claimed by Vendor. Any questions regarding the applicability of the various public records laws should be addressed to your own legal counsel prior to bid submission.

- 41. LICENSING:** In accordance with West Virginia Code of State Rules §148-1-6.1.7, Vendor 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 agency or political subdivision. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.
- 42. ANTITRUST:** In submitting a bid to, signing a contract with, or accepting a Purchase Order from any agency of the State of West Virginia, the Vendor agrees to 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 Vendor.
- 43. VENDOR CERTIFICATIONS:** By signing its bid or entering into this Contract, Vendor certifies (1) that its bid was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid for the same material, supplies, equipment or services; (2) that its bid is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this RFQ in its entirety; understands the requirements, terms and conditions, and other information contained herein. Vendor's signature on its bid also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

The individual signing this bid on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

- 44. PURCHASING CARD ACCEPTANCE:** The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.

Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.

- 45. VENDOR RELATIONSHIP:** The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting,

supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, *etc.* and the filing of all necessary documents, forms and returns pertinent to all of the foregoing. Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

- 46. INDEMNIFICATION:** The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.
- 47. PURCHASING AFFIDAVIT:** In accordance with West Virginia Code § 5A-3-10a, all Vendors are required to sign, notarize, and submit the Purchasing Affidavit stating that neither the Vendor nor a related party owe a debt to the State in excess of \$1,000. The affidavit must be submitted prior to award, but should be submitted with the Vendor's bid. A copy of the Purchasing Affidavit is included herewith.
- 48. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE:** This Contract may be utilized by and extends to other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"). This Contract shall be extended to the aforementioned Other Government Entities on the same prices, terms, and conditions as those offered and agreed to in this Contract. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.
- 49. CONFLICT OF INTEREST:** Vendor, its officers or members or employees, shall not presently have or acquire any interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

**50. REPORTS:** Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

- Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.
- Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at [purchasing.requisitions@wv.gov](mailto:purchasing.requisitions@wv.gov).

**51. BACKGROUND CHECK:** In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision.

The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

**52. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS:** Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration 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, or processed by a combination of two or more or



such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process.

The Purchasing Division Director 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.

**53. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL:** In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products.

This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

**CERTIFICATION AND SIGNATURE PAGE**

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

---

(Company)

---

(Authorized Signature)

---

(Representative Name, Title)

---

(Phone Number)

(Fax Number)

---

(Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.:** 061300228

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |   |  |
|---|--|
| <input type="checkbox"/> Addendum No. 1<br><br><input type="checkbox"/> Addendum No. 2<br><br><input type="checkbox"/> Addendum No. 3<br><br><input type="checkbox"/> Addendum No. 4<br><br><input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 6<br><br><input type="checkbox"/> Addendum No. 7<br><br><input type="checkbox"/> Addendum No. 8<br><br><input type="checkbox"/> Addendum No. 9<br><br><input type="checkbox"/> Addendum No. 10 |
|---|--|

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further 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.

---

Company

---

Authorized Signature

---

Date

**NOTE:** This addendum acknowledgement should be submitted with the bid to expedite document processing.

**SPECIFICATIONS**

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Division of Highways to establish a contract for the one time purchase of Concrete Box Beams.
2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.
  - 2.1 **“Contract Item”** means Concrete Box Beams
  - 2.2 **“Pricing Page”** means the pages upon which Vendor should list its proposed price for the Contract Items in the manner requested. The Pricing Page is either included on the last page of this RFQ or attached hereto as Exhibit A.
  - 2.3 **“RFQ”** means the official request for quotation published by the Purchasing Division and identified as 0613 00228.
3. **GENERAL REQUIREMENTS:**
  - 3.1 **Mandatory Contract Item Requirements:** Contract Item must meet or exceed the mandatory requirements listed below.
    - 3.1.1 **Precast Concrete Box Beams:** Precast Concrete Box Beams must be fabricated in accordance with the attached design plans and specifications attached hereto as exhibit A.
    - 3.1.2 **Elastomeric Bearing Pads:** Elastomeric Bearing Pads must be fabricated in accordance with the attached plans and specifications attached hereto as exhibit A.
    - 3.1.3 **Post Tensioning Bars, Anchor Bolts and Miscellaneous Hardware:** Post tensioning bars, anchor bolts and miscellaneous hardware must confirm to the requirements in the attached design plans and specifications attached hereto as exhibit A.

REQUEST FOR QUOTATION  
[0613 00228] [Concrete Box Beams]

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**4. CONTRACT AWARD:**

**4.1 Contract Award:** The Contract is intended to provide Agencies with a purchase price for the Contract Items. The Contract shall be awarded to the Vendor that provides the Contract Items meeting the required specifications for the lowest overall total cost as shown on the Pricing Pages.

**4.2 Pricing Page:** Vendor should complete the Pricing Page by completing the unit price and the extended price. Vendor should complete the Pricing Page in full as failure to complete the Pricing Page in its entirety may result in Vendor's bid being disqualified.

**4.3** Notwithstanding the foregoing, the Purchasing Division may correct errors as it deems appropriate. Vendor should type or electronically enter the information into the Pricing Page to prevent errors in the evaluation.

**5. PAYMENT:**

**5.1 Payment:** Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia.

**5.2 Partial Payment of Approved Beams:** Upon completion of manufacture and approval by the Division of Highways of all Beams, specified on the Requisition 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 Beams. Partial payment for Beams shall be subject to the following conditions:

**5.2.1** The vendor must request partial payment and furnish an official invoice for the manufactured and approved beams.

**5.2.2** The partial payment invoice shall be accompanied by a surety bond equal to the invoiced amount guaranteeing delivery of all items specified on the Requisition Purchase Order.

**5.2.3** The vendor shall furnish a statement of approved beam condition and exact storage locations.

**5.2.4** 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 inspection, sampling, testing and removing any or all Beams.

5.2.5 The vendor shall certify that the stored beams are suitable marked and identified as property of the Division of Highways and will not be used for any purpose not designed by the Division.

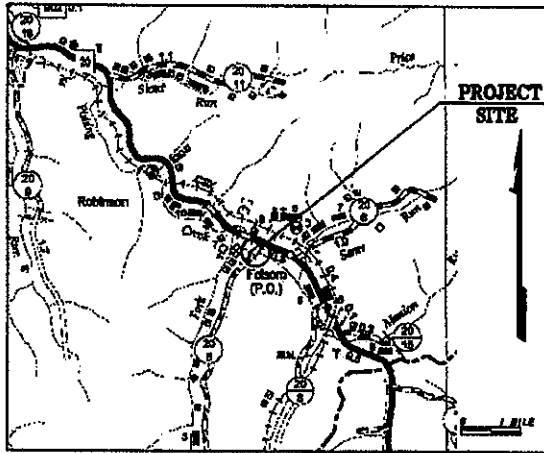
**6. DELIVERY AND RETURN:**

- 6.1 Shipment and Delivery:** Vendor shall deliver the Contract Items within 90 working days after receiving a purchase order or notice to proceed. Delivery date shall be established by the Agency placing the order. Contract Items must be delivered to the Agency placing the order at the Firearms Bridge Project Site at mile post 0.04 on Wetzell County Route 20/5.
- 6.2 Late Delivery:** The Agency placing the order under this Contract must be notified in writing if the shipment of the Contract Items will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for cancellation of the Contract, and/or obtaining the Contract Items from a third party.
- Any Agency seeking to obtain the Contract Items from a third party under this provision must first obtain approval of the Purchasing Division.
- 6.3 Delivery Payment/Risk of Loss:** Vendor shall deliver the Contract Items F.O.B. destination to the Agency's location.
- 6.4 Return of Unacceptable Items:** If the Agency deems the Contract Items to be unacceptable, the Contract Items shall be returned to Vendor at Vendor's expense and with no restocking charge. Vendor shall either make arrangements for the return within five (5) days of being notified that items are unacceptable, or permit the Agency to arrange for the return and reimburse Agency for delivery expenses. If the original packaging cannot be utilized for the return, Vendor will supply the Agency with appropriate return packaging upon request. All returns of unacceptable items shall be F.O.B. the Agency's location. The returned product shall either be replaced, or the Agency shall receive a full credit or refund for the purchase price, at the Agency's discretion.
- 6.5 Return Due to Agency Error:** Items ordered in error by the Agency will be returned for credit within 30 days of receipt, F.O.B. Vendor's location. Vendor shall not charge a restocking fee if returned products are in a resalable condition. Items shall be deemed to be in a resalable condition if they are unused and in the original packaging. Any restocking fee for items not in a resalable condition shall be the lower of the Vendor's customary restocking fee or 5% of the total invoiced value of the returned items.

**COST SHEET**  
**RFQ#: 0613 00228**

Item Number	Quantity	Unit of Measure	Description	Unit Price	Extended Amount
1	257.50	linear ft	5 interior prestressed concrete box beams (51'-6" long x 3' wide x 27" deep, 25° left forward skew)		\$
2	103.00	linear ft	2 exterior prestressed concrete box beams (51'-6" long x 3' wide x 27" deep, 25° left forward skew) w/ type TL-2 GR inserts per plans		\$
3	97.50	linear ft	4 post tension bars (1" diameter x 24'-4 <sup>1</sup> / <sub>2</sub> " long) with two 1" x 9" x 9" bearing plates and two heavy hex nuts per bar.		\$
4	12.00	each	Reinforced elastomeric bearing pads (4 <sup>3</sup> / <sub>4</sub> " x 28" x 1 <sup>13</sup> / <sub>16</sub> " )		\$
5	4.00	each	Reinforced elastomeric bearing pads (4 <sup>3</sup> / <sub>4</sub> " x 15 <sup>1</sup> / <sub>2</sub> " x 1 <sup>13</sup> / <sub>16</sub> " )		\$
6	14.00	each	24" long, 1" diameter anchor bolt or #8 deformed reinforcing bar (grade 60)		\$
7	18.00	each	Type TL-2 guardrail attachment assembly for box beams (9 per exterior beam)		\$
8	18.00	each	Type TL-2 guardrail post		\$
9	121.00	linear ft	Type TL-2 guardrail with TS 8" x 4" x 3 <sup>3</sup> / <sub>16</sub> " tubing		\$
10	8.00	each	1" x 9" x 9" bearing plate		\$
11	24.00	each	1" x 8" x 8" sponge rubber washer w/ 3 1/2" diameter hole		\$
12	14.00	each	1" thick spong rubber preformed joint filler (28" x 40 <sup>13</sup> / <sub>16</sub> " )		\$
13	14.00	each	2" thick spong rubber preformed joint filler (4 <sup>3</sup> / <sub>4</sub> " x 12 <sup>1</sup> / <sub>2</sub> " )		\$
14	14.00	each	2" thick spong rubber preformed joint filler (5 <sup>13</sup> / <sub>16</sub> " x 40 <sup>13</sup> / <sub>16</sub> " )		\$
15	350.00	linear ft	1" thick grout stop		\$
			Total Amount:		\$

EXHIBIT A PAGE 1

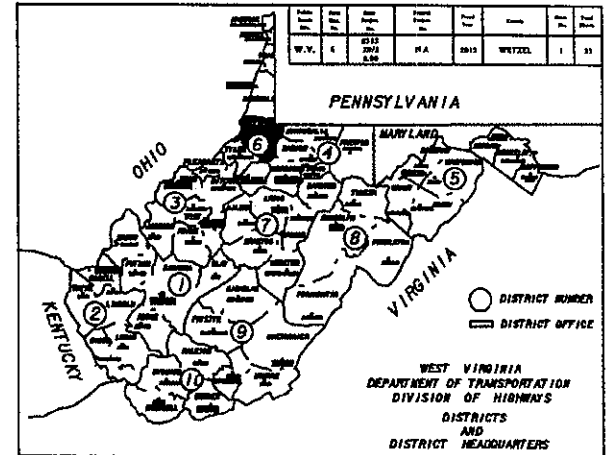


**UTILITIES**  
 MONONGALIA POWER  
 FRONTIER

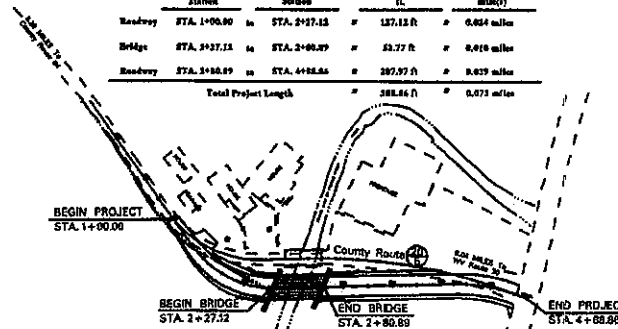
WEST VIRGINIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 PLANS FOR CONSTRUCTION

OF  
 STATE HIGHWAY  
 FEDERAL PROJECT NO. N A  
 STATE PROJECT NO. S352-20/5-0.00  
 BRIDGE DESIGN NUMBER 11098  
 COUNTY ROUTE NO. 20/5  
 GRANT DISTRICT  
 WETZEL COUNTY  
**FIREMANS BRIDGE**

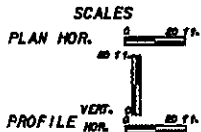
Station	Station	ft.	miles
Roadway STA. 1+00.00 to STA. 2+27.12	127.12 ft.	0.241 miles	
Bridge STA. 2+27.12 to STA. 2+80.89	53.77 ft.	0.102 miles	
Roadway STA. 2+80.89 to STA. 4+88.86	207.97 ft.	0.392 miles	
<b>Total Project Length</b>	<b>288.86 ft.</b>	<b>0.535 miles</b>	



**TYPE OF CONSTRUCTION**  
 BRIDGE REPLACEMENT, ROADWAY, PAVING  
 BRIDGE DESIGN NO. 11098



LAYOUT SCALE  
 1" = 60 FT.  
 INDEX TO SHEETS



**CONVENTIONAL SIGNS**

---	STATE LINE
---	COUNTY LINE
---	CONVICTION FOR LINE
---	PROPOSED R/W & EASEMENT LINE
---	EXISTING R/W LINE
---	PROPERTY LINE
---	EXISTING FENCE
---	PROPOSED FENCE
---	EDGE OF STREAM
---	PROPOSED HEARD RAIL
---	EXISTING HEARD RAIL
---	RAILROAD
---	RAIL LINE
---	WATER LINE
---	TELEPHONE LINE
---	ELECTRIC LINE
---	TELEPHONE POLE
---	POWER POLE
---	COMBINED POWER AND TELEPHONE POLE
---	TREE
---	STONE
---	RYME OF THE MARKER

**DESIGN DESIGNATION**

A. D. T. (2012) ± 60
A. D. T. (2032) ± 61
D. H. V. (2032) ± 12.1
D. ± 7.5
T. ± 7.65
V. ± 21

**INDEX TO SHEETS**

NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	CANAL NOTES
4	SYMBOLS OF QUANTITIES
5	QUANTITY TABLE
6	MANUFACTURE OF PLANTS
7	C.W.A. DIST. GRANT PERMIT PLAN
8	CONVICTION DATA
9	PLAN
10	PROFILE
11	BRIDGE LAYOUT - PLAN & PROFILE
12	BRIDGE CONSTRUCTION LAYOUT
13	ADJUSTMENT - DETAILS
14	BRIDGE SECTIONS
15	CONVICTION SECTIONS
16	CONVICTION LAYOUT

**REVISIONS**

NO.	DATE	DESCRIPTION

I HEREBY CERTIFY THAT THIS IS A CORRECT COPY OF THE PLANS  
 OF PROJECT S352-20/5-0.00

\_\_\_\_\_  
 ASSISTANT ENGINEER

SIGNED: \_\_\_\_\_  
 RESPONSIBLE CHARGE ENGINEER

DATED: \_\_\_\_\_

RECOMMENDED: \_\_\_\_\_  
 PROJECT ENGINEER

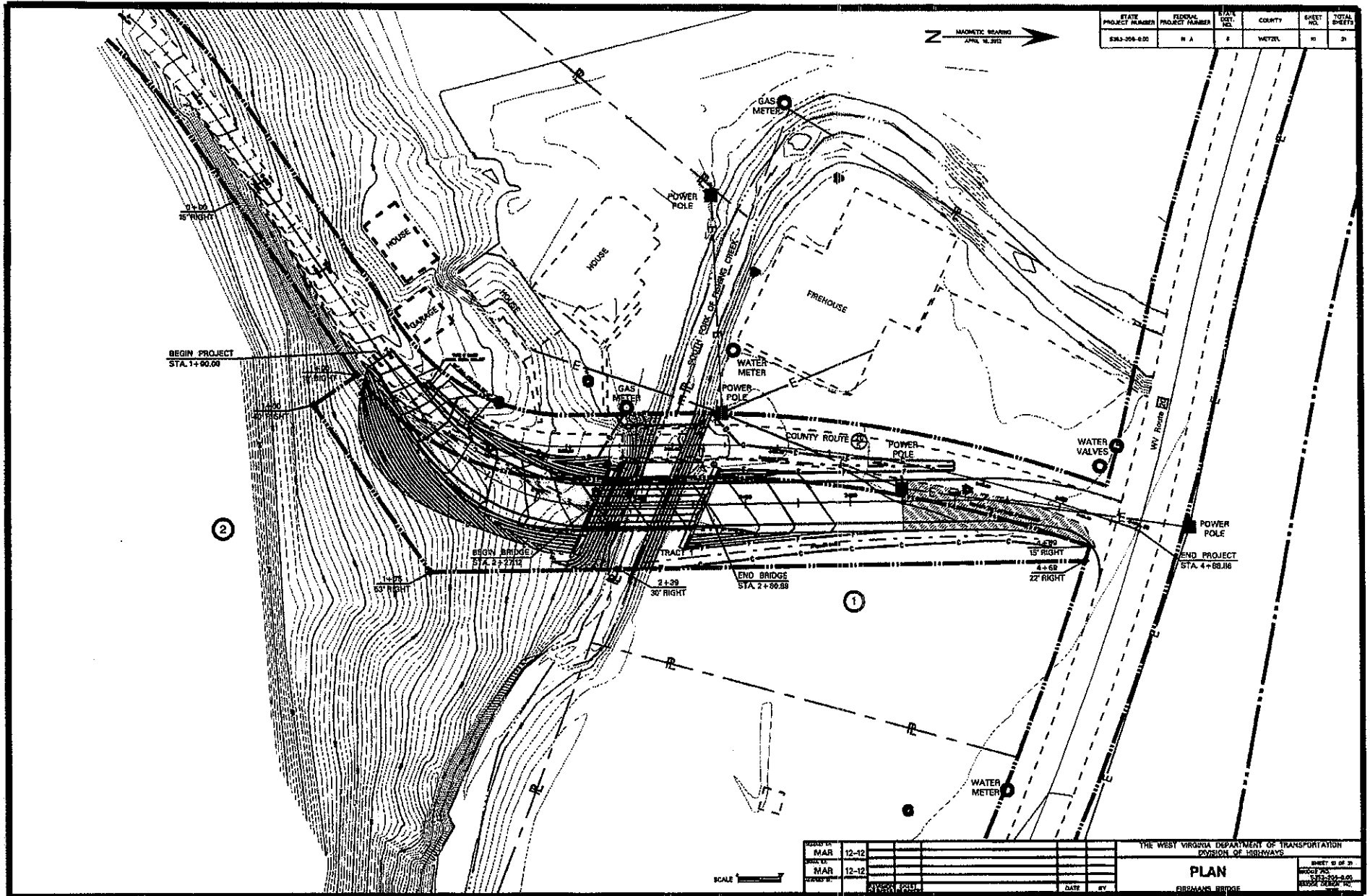
RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
 STATE HIGHWAY ENGINEER

APPROVED: \_\_\_\_\_  
 COMMISSIONER OF HIGHWAYS

PROJECT NO. S352-20/5-0.00



EXHIBIT A PAGE 2



STATE PROJECT NUMBER	REGIONAL PROJECT NUMBER	STATE DIST. NO.	COUNTY	SHEET NO.	TOTAL SHEETS
8343-308-8-00	W A	8	MEYER	10	21

DESIGNED BY	MAR 12-12				
DRAWN BY	MAR 12-12				
CHECKED BY					
DATE					

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

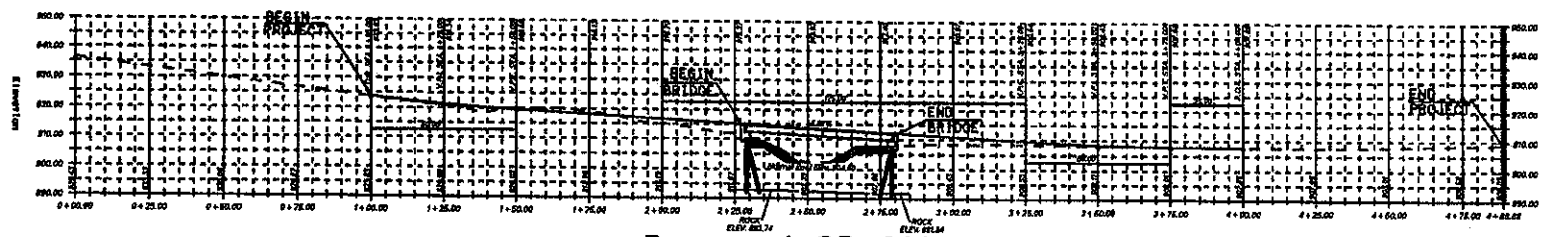
**PLAN**

BIRRHANS BRIDGE

SHEET 10 OF 21  
PROJECT NO. 8343-308-8-00  
DESIGNED BY: [unreadable]

# EXHIBIT A PAGE 3

STATE PROJECT NUMBER	FEDERAL PROJECT NUMBER	SHEET NO.	COUNTY	SHEET NO.	TOTAL SHEETS
WV-206-0.00	R. A.	6	WETZEL	11	21



## Proposed CR 205

### PROPOSED HORIZONTAL

Alignment Name: proposed 3

STATION	NORTHING (Y)	EASTING (X)	Element: Linear
1+00.00	355477.8436	1678739.0784	
1+33.28	355496.8733	1678766.3771	
Tangent Direction: N 55°07'11.62" E			
Tangent Length: 33.2768			
Element: Curveset PI			
1+86.45	355527.2782	1678809.9936	
Total Central Angle: 55°59'51.69"			
1st Subtangent Length: 83.1684			
2nd Subtangent Length: 53.1684			
Element: Circular			
1+33.28	355496.8733	1678766.3771	
1+86.45	355527.2782	1678809.9938	
2+31.01	355580.4404	1678809.1792	
Radius: 100.0000			
Delta: 55°59'51.69" Left			
Degree of Curvature (Chord): 57°17'44.81"			
Length: 97.7344			
Tangent: 53.1684			
Chord: 85.8906			
Middle Ordinate: 11.7043			
External: 13.2558			
Tangent Direction: N 55°07'11.62" E			
Radial Direction: S 34°52'48.38" E			
Chord Direction: N 27°07'45.77" E			
Radial Direction: N 89°07'19.92" E			
Tangent Direction: N 0°52'40.08" W			

### PROPOSED HORIZONTAL (CONT.)

PT	STATION	NORTHING (Y)	EASTING (X)	Element: Linear
PC	2+31.01	355580.4404	1678809.1792	
PC	4+12.89	355762.3012	1678806.3928	
Tangent Direction: N 0°52'40.08" W				
Tangent Length: 181.8822				
Element: Curveset PI				
PI	4+44.19	355795.5989	1678805.9133	
Total Central Angle: 20°16'54.94"				
1st Subtangent Length: 31.3014				
2nd Subtangent Length: 31.3014				
Element: Circular				
PC	4+12.89	355762.3012	1678806.3928	
PI	4+44.19	355795.5989	1678805.9133	
CC	4+74.84	355764.9822	1678891.3723	
PT	4+74.84	355825.1223	1678816.3125	
Radius: 175.0000				
Delta: 20°16'54.94" Right				
Degree of Curvature (Chord): 32°44'25.60"				
Length: 61.9476				
Tangent: 31.3014				
Chord: 61.6247				
Middle Ordinate: 2.7339				
External: 2.7773				
Tangent Direction: N 0°52'40.08" W				
Radial Direction: S 89°07'19.92" W				
Chord Direction: N 3°15'47.35" E				
Radial Direction: N 70°35'46.14" E				
Tangent Direction: N 19°24'14.86" E				
Element: Linear				
PT	4+74.84	355823.1223	1678816.3125	
POE	4+86.86	355836.3433	1678820.9694	
Tangent Direction: N 19°24'14.86" E				
Tangent Length: 14.0172				

### PROPOSED VERTICAL

Station	Grade	Vertical Alignment: proposed 3	Vertical Alignment: proposed 4
PDB Station=1+00.00	Grade= -11.37%	Elev= 923.83	
PVC Station=1+00.00		Length= 25.00	
PVC Station=1+00.00	Entrance Grade= -11.37%	Elev= 923.83	
PVI Station=1+25.00	k Value= 8.85	Length of Curve= 50.00	
PVT Station=1+50.00	Rate of Change= 11.2800	Mid Ordinate= 0.35	
PVT Station=1+50.00		Elev= 921.00	
PVT Station=1+50.00	Exit Grade= -5.73%	Elev= 919.56	
PVT Station=1+50.00		Length= 25.00	
PVC Station=3+25.00	Grade= -5.73%	Elev= 909.54	
PVC Station=3+25.00	Entrance Grade= -5.73%	Elev= 909.54	
PVI Station=3+75.00	k Value= 9.58	Length of Curve= 50.00	
PVT Station=3+75.00	Rate of Change= 10.4331	Mid Ordinate= 0.33	
PVT Station=3+75.00		Elev= 908.11	
POE Station=4+00.00	Exit Grade= -0.51%	Elev= 907.98	
POE Station=4+00.00		Length= 25.00	
POE Station=4+00.00		Elev= 907.85	

SCALE: \_\_\_\_\_

DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
MAR	12-12				
MAR	12-12				
PROJECT NO.	WV-206-0.00	SHEET NO.	11	TOTAL SHEETS	21

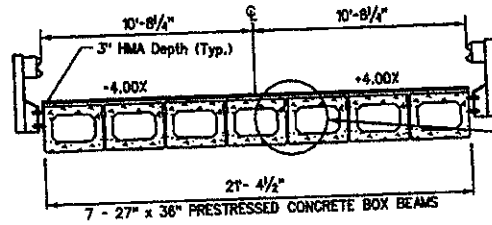
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PROFILE

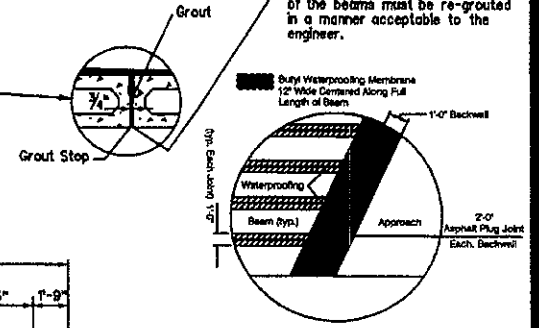
FREMANS BRIDGE

EXHIBIT A PAGE 4

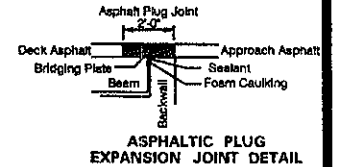
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5382-206-0.00	N A	E	WETZEL	13	21



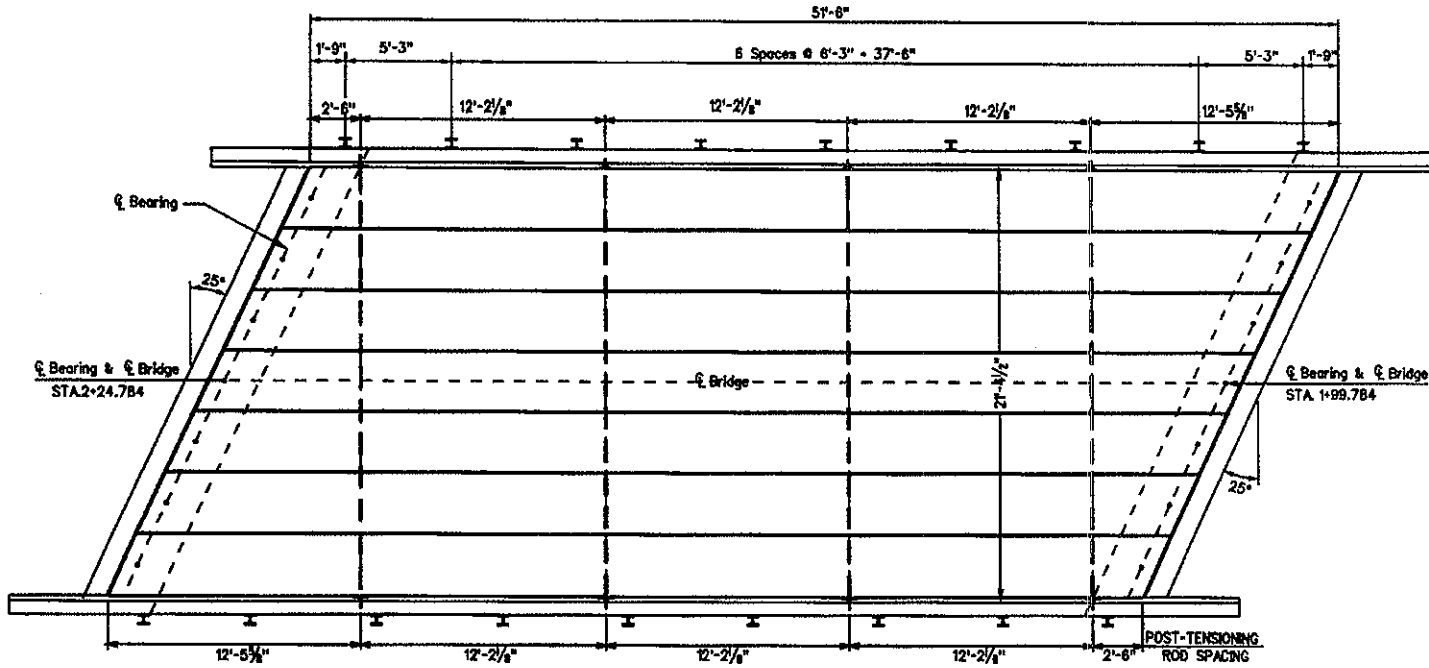
DECK SECTION



JOINT WATERPROOFING DETAIL



ASPHALTIC PLUG EXPANSION JOINT DETAIL



DECK PLAN

DATE	BY	REVISION	DESCRIPTION	SCALE	PROJECT NO.	SHEET NO. OF 21
MAR 12-12					5382-206-0.00	13
MAR 12-12						
MAR 12-12						
MAR 12-12						

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**BRIDGE SUPERSTRUCTURE LAYOUT**  
 BREMANS BRIDGE



# EXHIBIT A PAGE 6

## DESIGN DATA FOR 27" DEPTH ADJACENT BOX BEAM

SPAN LENGTH & TO & SLABINGS	40'-0"	47'-0"	54'-0"	61'-0"	68'-0"	75'-0"	82'-0"	89'-0"	96'-0"	103'-0"	110'-0"
THEORETICAL LENGTH OF BEAM	40'-0"	47'-0"	54'-0"	61'-0"	68'-0"	75'-0"	82'-0"	89'-0"	96'-0"	103'-0"	110'-0"
NO. OF 1/2" X 1/2" 1/2" # 4 LOW-RELAXATION STRANDS, AREA/STRAND = 0.87 SQ. IN.	10	10	10	10	10	10	10	10	10	10	10
STANDARD POSITION NUMBER	ROW 1	1,20,45	1,30,45	1,35,45	1,40,45	1,45,45	1,50,45	1,55,45	1,60,45	1,65,45	1,70,45
	ROW 2	1,20,45	1,30,45	1,35,45	1,40,45	1,45,45	1,50,45	1,55,45	1,60,45	1,65,45	1,70,45
	ROW 3	1,20,45	1,30,45	1,35,45	1,40,45	1,45,45	1,50,45	1,55,45	1,60,45	1,65,45	1,70,45
	ROW 4	1,20,45	1,30,45	1,35,45	1,40,45	1,45,45	1,50,45	1,55,45	1,60,45	1,65,45	1,70,45
PRESTRESSING FORCE IMMEDIATELY AFTER STRAINING SERVICE, POUNDS/STRAND	300	300	300	300	300	300	300	300	300	300	300
EFFECTIVE PRESTRESSING FORCE AFTER ALL LOSSES, POUNDS/STRAND	270	270	270	270	270	270	270	270	270	270	270
REDUCED FACTORED MOMENT AT STRENGTH, 1.00 LBS-FT/STRAND	600	600	600	600	600	600	600	600	600	600	600
FACTORED MOMENT RESISTANCE AT 1.00 LBS-FT/STRAND	700	700	700	700	700	700	700	700	700	700	700
ADJ. UNIFORMED STATIONS											
DEFERRED STRAIN POSITION NUMBER & SPACING LENGTH FROM EACH END	ROW 1										
	ROW 2										
NUMBER & LENGTH #4 #2 TIE THROUGH PILES @ EACH END	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"	3 - 44" X 8'-0"
NUMBER & LENGTH #5 DT CUTTING THROUGH PILES @ EACH END	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"	4 - 2'-0" X 7'-0"
DESIGN CARRIER # & POSITIVE CURV. MOMENTS	# 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	# 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	# 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NUMBER & SPACING OF #2 GUARDRAIL INSERTS	# OF #2 INSERTS @ 1' END	1	1	1	1	1	1	1	1	1	1
	# OF #2 INSERTS @ 2' END	1	1	1	1	1	1	1	1	1	1
WEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (LBS)	115	115	115	115	115	115	115	115	115	115	115

STATE PROJECT NUMBER	DESIGN PROJECT NUMBER	DATE	CONTRACTOR	SHEET NO.	TOTAL SHEETS
S352-206-000	N A	6	WETZEL	16	31

MIN. CONCRETE STRENGTH @ RELEASE = 5000 PSI  
 MIN. CONCRETE STRENGTH @ 28 DAYS = 8000 PSI  
 INITIAL PULL/STRAND = 33,820 LBS  
 CROSS-SECTION AREA/STRAND = 0.187 SQ. IN.

NOTES:  
 1. BEAM WEIGHTS LISTED IN THE DESIGN TABLE ARE BASED ON 27" DEPTH BOX BEAM WITH 10" SPACING AND 1/2" X 1/2" 1/2" # 4 LOW-RELAXATION STRANDS SPACED @ 15" FT C/C. WEIGHTS FOR SHOWN BEAMS, LENGTHS, WEIGHTS AND ADDITIONAL DIMENSIONS SHALL BE DETERMINED ACCORDINGLY.  
 FOR ADDITIONAL DIMENSIONS, AND SEE LBS/SPACING.  
 FOR 30" AND 27" LBS/FOOT OF SPACING.  
 FOR LONGER SPACING, ADD 1/2" LBS/FOOT.  
 2. DESIGNER SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON EVEN SPAN LENGTHS. A TYPICAL STRUCTURE IS BEAMS OVER AND ALSO 30" STIFFENED BEAM LOADS INCLUDING TYPE F PAVEMENT (1.5) FT AND A PUS UP TO 100 PSI. FOR NON-STANDARD BRIDGES DATA SHOULD BE VERIFIED AND IF NECESSARY NEW DESIGN DATA ENTERED INTO DRAWING. IN NO CASE SHALL THE STANDARD DESIGN TABLE BE ALTERED.  
 3. PRELIMINARY DESIGN CARRIER VALUES LISTED IN THE TABLE ARE BASED ON EMPIRICAL EXPERIENCE AND AS SUCH ARE APPROXIMATE. THE DESIGNER WITH SPAN-TO-DEPTH RATIOS AT OR EXCEEDING 20, THE TOLERANCE VALUES LISTED IN APPENDIX B OF PCI MANUAL FOR QUALITY CONTROL, MOE-TS, MAY NOT APPLY.  
 MEASUREMENT OF CURVES FOR CORRECTION TO PREDICTED DESIGN VALUES SHOULD BE COMPLETED WITHIN 72 HOURS OF RELEASE. ADDITIONALLY, CARRIER SHOULD BE EVALUATED UNDER CONDITIONS THAT MINIMIZE THE EFFECT OF FLUCTUATING VARIATION.

4. DESIGNER, CONTRACTOR AND CREW SHALL BE AWARE THAT DEFLECTED END BEAMS MAY TWIST OR WARP. CHECKING IN-EVEN BEAM SLATING AT THE BEAMS. THE CONTRACTOR IS RESPONSIBLE TO CORRECT AT THE TIME OF ERECTION, BEFORE THE BEAMS ARE HELD IN PLACE. NOTICE OF CORRECTIONS SHALL NOTIFY AN FINAL TIME READING AND A LEVEL TOP BEAM SURFACE. TO FRAME, AFTER CORRECTIONS SHALL BE 1/4" INCH. THE FABRICATOR SHALL NOTIFY THE CONTRACTOR AND DESIGNER OF CORRECTIONS ARE REQUIRED PRIOR TO SUPPORT.  
 5. BEAMS SHALL BE CAST WITH 1" OF 30 DEFLECTS.  
 6. DESIGNER INPUT VALUES IF NEEDED IN DESIGN, DISTANCE FROM END OF BEAM TO 1st INSERT AND 2nd INSERT TO 2nd INSERT. ABOVE VALUES SHALL BE BASED ON THE REQUIRED 0.5" GUARDRAIL PILE SPACING ACROSS THE BEAM.  
 7. THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-227A, BR-227B, BR-227C, BR-227D, BR-227E & B AND BR-227C AS APPROPRIATE.

DESIGNER	DATE
PROJECT NUMBER	DATE
DESIGN TABLE FOR 27"	DATE
PRESTRESSED BOX BEAM	DATE
STANDARD SHEET BR-227B	DATE

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 ENGINEERING DIVISION

FIREMANS BRIDGE  
 OVER SOUTH FORK OF  
 FISHING CREEK  
 WETZEL CR 205

DESIGN TABLE FOR 27"  
 PRESTRESSED BOX BEAM

DESIGNED BY: [ ]  
 DRAWN BY: [ ]  
 CHECKED BY: [ ]  
 DATE: [ ]  
 SHEET NO. 16 OF 31  
 TOTAL SHEETS: 31

11098

# EXHIBIT A PAGE 7

## GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS FOR BRIDGES AND STRUCTURES, ADOPTED WITH AMENDMENT BY THE CURRENT SUPPLEMENTAL SPECIFICATIONS, THE CONTRACT PLAN, AND CONTRACT SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

ALL BEAMS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LIFTED BRIDGE DESIGN SPECIFICATIONS, RATED FOR AS AMENDED BY THE 2003 DESIGN SPECIFICATIONS.

## DESIGN NOTES

ALL STANDARD ADJACENT PRESTRESSED CONCRETE BRIDGE BEAMS ARE GENERALIZED TO MEET THE FOLLOWING CRITERIA:

- DESIGN LOADS
  - 14-93 LIVE LOAD IN ACCORDANCE WITH THE AASHTO LIFTED BRIDGE DESIGN SPECIFICATIONS.
  - FUTURE WEARING SURFACE OF 50 PSF OF ROADWAY.
  - TYPE F PARAPET RETAINING WALLS.
  - DIAPHRAGM (BEAM LEAD), BRIDGE NUMBERED BRIDGE OR 12'-0" MAX SPACING.
- TWO LAMP BEAMS WITH AN OVERALL WIDTH OF 24'-0" (24'-0" LAMP BETWEEN ALL BEAMS), A CURB TO-CURB WIDTH OF 22'-0", TRANSVERSE DIST. TENSORING AND 20" GAP.
- DESIGN STRENGTH AND UNIT STRESSORS
 

MINIMUM CONCRETE STRENGTH @ STRAND RELEASE	6000 PSI
MINIMUM CONCRETE STRENGTH @ 28 DAYS	9000 PSI
TEMPORARY STRESS LIMIT IN CONCRETE BEFORE TENSORING	4000 PSI
COMPRESSION STRESS LIMIT @ STRAND RELEASE	3000 PSI
TENSION STRESS LIMIT @ STRAND RELEASE	-200 PSI
COMPRESSION STRESS LIMIT IN CONCRETE @ SERVICE I AFTER LOSSES	
@ FIBER 1 (0.5% SL-1)	4800 PSI
@ FIBER 2 (0.5% SL-1)	3800 PSI
@ FIBER 3 (300PSI-SL-1)	3000 PSI
TENSILE STRESS LIMIT IN CONCRETE @ SERVICE II AFTER LOSSES	
@ FIBER 1 (0.5% SL-1)	-270 PSI
TENSION STRESS LIMIT PRIOR TO TENSORING	200.0 PSI
TENSION STRESS LIMIT AFTER ALL LOSSES	184.9 PSI
- REDUCTION OR SHEARINGS OF STRANDS TO REDUCE TEMPORARY TENSILE STRESSORS IS PERMITTED, HOWEVER REDUCTIONS IS LIMITED TO 40% PER ROW AND 25% TOTAL. IN NO INSTANCES SHALL UNIFORM STRESS BE OBTAINED. UNIFORM STRESS SHALL BE MAINTAINED BY AT LEAST ONE FULLY ANCHORED STRAND AND SHALL BE SYMMETRICAL ABOUT THE C OF THE BEAM. SHEARINGS OF STRANDS SHALL BE ACCOMPANIED BY TYPING OR TIGHT FITTING PLASTIC TUBES TYPED AT EACH END.
- THE ELASTOMERIC BEARING PADS PROVIDED BY THE STANDARD DESIGN ARE BASED ON ZERO GRADE AND ARE LIMITED TO A MAXIMUM OF 0.25 INCH. IN INSTANCES OF GRADES EXCEEDING THIS LIMIT, PADS SHALL BE SPECIALLY DESIGNED. INDIVIDUAL PADS BEARING SHALL BE IN ACCORDANCE WITH SECTION 04, AASHTO 1070, REVEALED SOLE PLATES ARE PERMITTED.
- MAXIMUM BEAM SPAN SHALL BE 50 FEET.
- WHEN ALTERNATE DESIGNS OR SITE SPECIFIC DESIGNS ARE PROVIDED, CRITERIA SET FORTH IN THESE STANDARDS SHALL APPLY.
- RELATIVE DESIGN CRITERIA AFTER ALL LOSSES IS NOT PERMITTED.
- EACH BEAM PROVIDED BY THESE STANDARDS BEINGS HAS BEEN LIFTED RATED IN ACCORDANCE WITH SECTION 3.03 OF THE WEST VIRGINIA DIVISION OF HIGHWAYS OFFICE DESIGN MANUAL, 2004. PROVISIONS 1, 4, AND 5 HAVE PROVISIONS ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF HIGHWAY BRIDGES, 2003.

14'-0" BEAM TOTAL				
BEAM SIZE	NO. 3	NO. 4	NO. 5	NO. 6
SPECIAL LOAD	21"	22"	24"	27"

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS IN-B-714 & B-TN10 FOR BEAMS A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z AND OR-B-100 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 FINISH GRATED UNLESS OTHERWISE NOTED. ALL UNGRADED REINFORCEMENT SHALL MEET THE REQUIREMENTS OF AASHTO M31. ALL EPOXY COATED REINFORCEMENT SHALL MEET THE REQUIREMENTS OF AASHTO M204, EXCEPT WHERE AMENDED BY SECTION 700.1 OF THE STANDARD SPECIFICATIONS.
  - ALL TENSILE LAP JOINTS SHALL BE A CLASS C JOINT TYPE. MINIMUM LAP SPACING (1 FIBER) SHALL BE AS GIVEN IN THE LAP SPACING TABLE. ADDITIONALLY, IF LAP SPACING OF FT. 18, AND LAP SPACING IS USED, TERMINATION OF THE SPlice SHALL BE NO CLOSER TO THE END OF THE BEAM THAN 1/10th OF THE SPAN LENGTH.
  - MINIMUM BAR SPACING DIAMETER SHALL BE 8 BAR DIAMETERS, EXCEPT THAT NO. 4 BAR SPACING MAY HAVE A MINIMUM BAR DIAMETER OF 4 BAR DIAMETERS.
  - MINIMUM CONCRETE COVER SHALL BE AS SPECIFIED IN SECTION 603.5 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE NOTED IN THE PLANS.

## PRESTRESSING STRAND

- ALL PRESTRESSING STRAND SHALL BE 1/2" K GRADE S70, 7 WIRE INDICATED, LOW-RELAXATION STRAND MEETING THE REQUIREMENTS OF AASHTO M303, SUPPLEMENT 01.
- ALL BEAMS DESIGNED IN THESE STANDARDS UTILIZE STRANDS WITH A NOMINAL AREA OF 0.075 SQ. IN. STRANDS WITH A NOMINAL AREA OF 0.055 SQ. IN. IS PERMITTED FOR INDIVIDUAL, OR ALTERNATE DESIGNS, PROVIDED THE DESIGNER IS RESPONSIBLE TO USE THE LARGER STRAND FOR IMPROPER REASONS. IN NO CASES WILL STRESS-BELOWED STRAND BE PERMITTED.
- ALL STRANDS SHALL BE ENCASED INSIDE THE STRIPPER CANAL FOR THE FULL LENGTH OF THE BEAM.
- ALL ENCASED PRESTRESSING STRAND AT EACH BEAM END SHALL BE ZINC COATED WITH A LEADED GULF-APPLIED ANTI-CORROSION PASTIMERIC WATERPROOFING MEMBRANE MATERIAL SHALL MEET ASTM C883-04.

## CONCRETE

- ALL CONCRETE USED IN MANUFACTURING PRESTRESSED CONCRETE BEAMS SHALL MEET THE REQUIREMENTS OF SECTION 603.5 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 K CONCRETE.

## ELASTOMERIC BEARING PADS

- ALL BEARING PADS SHALL MEET THE APPLICABLE REQUIREMENTS AS SET FORTH IN SECTION 3.02 OF THE AASHTO LIFTED BRIDGE CONSTRUCTION SPECIFICATIONS, 1990 EDITION WITH CURRENT INTERIMS. ALL BEARINGS SHALL BE STEEL REINFORCED LAMINATED BEARINGS.
- THE ELASTOMER MATERIAL SHALL BE IN DIAMETERS WITH A MINIMUM LOW TEMPERATURE GRADE OF 5 FEELS 01.
- ALL STEEL REINFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M770, GRADE 60.

## STANDARD CURVED POSTS, TUBES, & INSERTS

- ALL IN-BEAM CURVED, AND ATTACHMENT HARDWARE SHALL BE IN ACCORDANCE WITH SECTION 712.4 OF THE STANDARD SPECIFICATIONS. CURVED, STAINLESS, TUBING, POST ATTACHMENT DEVICES, AND HARDWARE SHALL MEET THE LISTED MATERIAL AND QUALITY SPECIFICATIONS.

ITEM	DESCRIPTION	NATIONAL SPEC.	QUANTITY REQUIRED
WIRE	60000	AASHTO M270, OR 55	AASHTO M21
PLATE	1/2" x 7"	AASHTO M270, OR 55	AASHTO M21
TUBING	18 DIA. 3/16"	ASTM A304, OR 304	AASHTO M21
CHANNEL	C7x3.8	AASHTO M270, OR 55	AASHTO M21
ROD	TYPE 316 3/4" x 1/2" MIN. LEN.	ASTM A304, OR 304 STEEL	AASHTO M270
WIRE	3/4" x 1/2" LONG	ASTM A304, OR 304 STEEL	AASHTO M270
BOLTS	3/4" x 1/2" LONG	AASHTO M270, CLASS F	AASHTO M220
COMPLERS	TYPE 316 1/2" x 1/2" LONG	ASTM A304, OR 304 STEEL	AASHTO M270
DELTS	1/2" x 1/2" LONG	AASHTO M270, TYPE 1, 180	AASHTO M220
BELTS	3/4" x 1/2" ALL LEA.	AASHTO M270, TYPE 1, 180	AASHTO M220
WIRE	3/4" x 1/2"	AASHTO M270, CLASS C	AASHTO M220
WASHERS	ALL	AASHTO M270	AASHTO M220

## WELDS

- ALL WELDS OF REINFORCEMENT IS NOT PERMITTED. REINFORCING SHALL BE WELDED TOGETHER AND BE ADEQUATELY TIED WITH APPROVED MEANS TO PREVENT PULLING AND MISALIGNMENT.
- ALL WELDING OF FABRICATED ITEMS, AS SHOWN IN THESE PLANS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF AASHTO M303, 01A, 2002.

## POST-TENSORING ORDER

- POST-TENSORING THREAD BARS SHALL BE 1/2" DIA. DIAMETER, LOW CARBON STEEL, AND SHALL CONFORM TO AASHTO M270, TYPE II, STEEL, THREAD BARS SHALL BE INSTALLED TO ALLOW THE USE OF HEAVY HEX NUTS AND CONEPLUGS THAT THREAD INTO THE END OF THE DEFORMED HEAVY HEX NUTS AND CONEPLUGS SHALL BE OF A DESIGN AND MATERIAL DETERMINED BY THE BEAM MANUFACTURER TO PROVIDE THE FULL TENSILE STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFIED TENSILE TESTS SHOULD BE PROVIDED FOR EACH NEXT OF STEEL THREAD BARS.
- ALL POST-TENSORING THREAD BARS, NUTS, CONEPLUGS, AND ANCHORAGE HARDWARE SHALL BE ZINC-DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO M21, THE GALVANIZING PLANT SHALL, MINIMUM ADEQUATE QUALITY CONTROL MEASURES TO SUREGARD AGAINST HYDROGEN EMBRITTLEMENT, QUANTITY CONTROL, MEASUREMENT SHALL COMPLY WITH ASTM A148. CERTIFICATION FOR HOT-DIP GALVANIZING SHALL BE PROVIDED BY THE GALVANIZING PLANT.
- ALL POST-TENSORING BEARING PLATES SHALL CONFORM TO AASHTO M270, GRADE 60.

## BEAM END COVER

- BEAM END COVER SHALL BE A COVER THAT IS RECOMMENDED BY THE MANUFACTURER FOR A DURABLE COVER APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA NOT ATTAIN A MINIMUM OF 4500 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER CONDITIONS REPRESENTATIVE OF THE CONDITIONS TO BE EXPERIENCED AT THE SITE. THE COVER MUST BE LISTED ON THE APPROVED LIST OF GROUPS PURCHASED BY THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, AND TESTING DIVISION. THE CONTRACTOR SHALL PREPARE THE UNSTRESSED COMPRESSIVE STRENGTH FOR APPROVAL PRIOR TO INSTALLATION OF THE COVER IN THE STRUCTURE. THE COVER WILL BE BASED ON A DURABLE CONSISTENCY WITH THE SAME WATER/CEMENT RATIO TO BE USED IN THE STRUCTURE.
- THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR EACH ELEMENT, THE GROUP TEST RESULTS OBTAINED IN THE NOTE ABOVE. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A NEW PRE-TEST AND SUBMIT FOR APPROVAL UNDER ANY OF THE FOLLOWING CONDITIONS:
  - A PERIOD OF 90 DAYS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.
  - GROUP MANUFACTURE HAS PROVIDED OR CHANGED THE GROUP SPECIFICATIONS.
  - THE CONTRACTOR ALTERS THE MANUFACTURE MARKING.
  - THE CONTRACTOR CHANGES GROUP MANUFACTURE.
- THE CONTRACTOR IS REQUIRED TO COMPLETE THE GROUP STRENGTH TABLE IN OR-1003.
- TEST PROVISIONS FOR DETERMINING THE COMPRESSIVE STRENGTH OF GROUP SHALL USE CUB SPECIMENS IN ACCORDANCE WITH ASTM C109, AS MODIFIED BY ASTM C109, GROUP TESTING IN ACCORDANCE WITH AASHTO T28 (STANDARD CYLINDER TEST) IS NOT ACCEPTABLE.

## PROTECTIVE MEMBER TREATMENT

- EACH PRESTRESSED CONCRETE BEAM SHALL BE TREATED BY THE MANUFACTURER AT THE FABRICATION PLANT WITH AN APPROVED CONCRETE SEALER (EPA 901), 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 MANUFACTURER'S RECOMMENDATION.
- AFTER COMPLETION OF THE SEALER TREATMENT BY FABRICATION AND A MAXIMUM OF FIVE WORKING DAYS PRIOR TO SHIPMENT OF THE BEAMS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR AGGRESSIVE BAYTS CLEANING TO CLEAN WHITE, CONCRETE THE INTERIOR TOE OF BEAMS FOR THE FULL LENGTH, CLEAN WHITE CONCRETE SHALL BE REMOVAL OF ALL BAYTS, CRACKS, LIPS AND LIPS' CONCRETE DAMAGE AND PROVIDE A REFINISHED CONCRETE SURFACE TO ACHIEVE BEAMS SHALL BE APPROVED BY THE DIVISION OF HIGHWAYS.

## SOIL CONDITIONS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SOIL DRILLINGS IN ACCORDANCE WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS, COMMENTS, LOGS AND THE STANDARD SPECIFICATIONS. ADDITIONAL INFORMATION IS PROVIDED IN SECTION 1 OF THE DRIFT DESIGN MANUAL. SOIL DRILLINGS SHALL INCLUDE THE FABRICATOR'S DETERMINING PLAN.

STATE PROJECT NUMBER	FEDERAL PROJECT NUMBER	DATE EST. BY	DESIGNER	DIST. NO.	TOTAL SHEETS
S352-205-0-00	N A	6	WETZEL	17	21

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

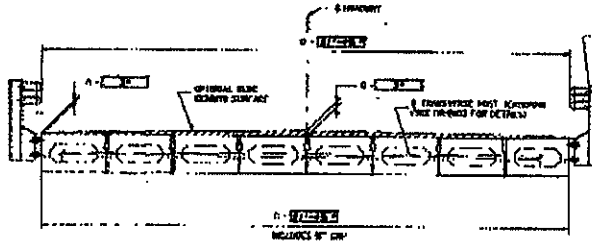
**FIREMANS BRIDGE  
OVER SOUTH FORK OF  
FISHING CREEK**

**WETZEL CR 205**

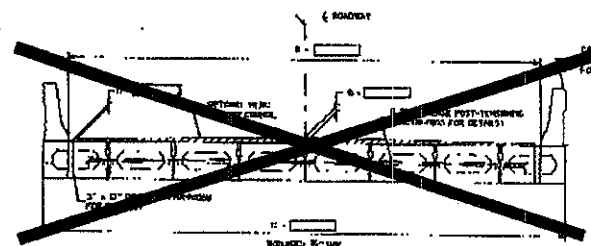
PRESTRESSED CONCRETE BEAM  
DESIGN & ASSEMBLY NOTES

REVISIONS NO. 1 DATE: 07-02-07 BY: [Signature] CHECKED BY: [Signature] ENGINEERING DIVISION	REVISIONS NO. 2 DATE: 07-02-07 BY: [Signature] CHECKED BY: [Signature] ENGINEERING DIVISION
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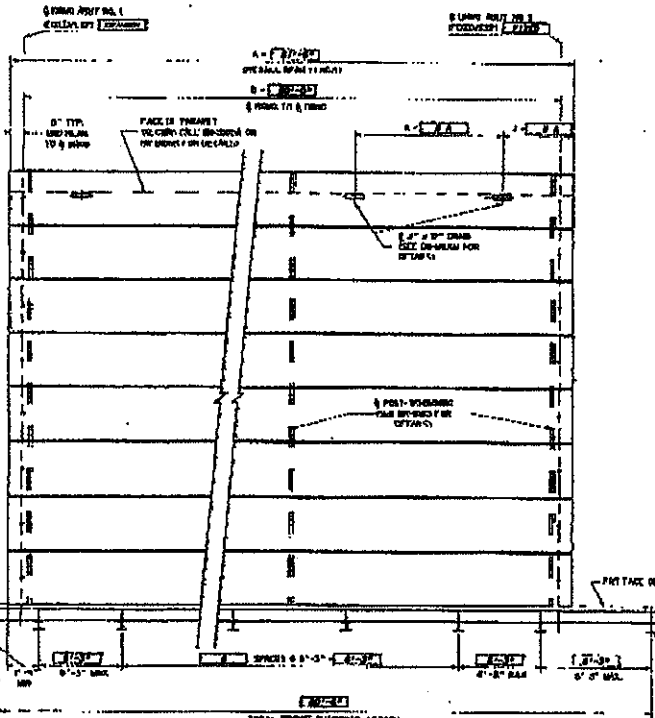
# EXHIBIT A PAGE 8



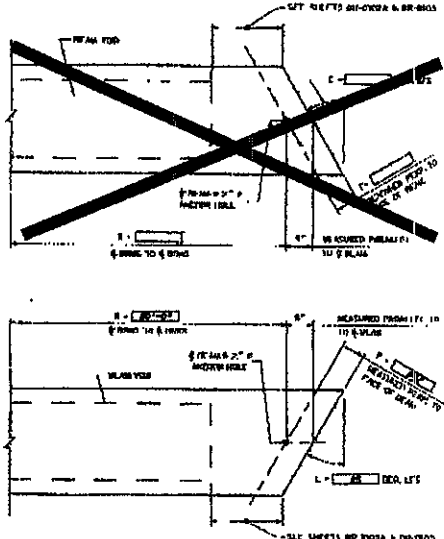
**TYPICAL CROSS-SECTION WITH GUARDRAIL**



**TYPICAL CROSS-SECTION WITH PARAPET OR CURB**



**DECK PLAN VIEW**



**BEAM PLAN VIEW - SKEWED ENDS**

**ESTIMATE OF QUANTITIES**

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
00000	PRESTRESSED CONCRETE BOX GIRDER	LF	300.00

**NOTES:**

1. BRIDGE QUANTITIES TO BE SUPPLIED BY THE DEPARTMENT. COST OF ALL BRIDGE QUANTITIES TO BE INCLUDED IN THE BIDDING. EXAMPLE: AT FACILITY HANDOFF, AND SHELLS FOR THE BRIDGE TO BE COMPLETED BY THE CONTRACTOR SHALL BE INCLUDED IN THE BIDDING. (SEE ATTACHED SHEET FOR DETAILS)
2. THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-001A & BR-002A & D, BR-003, BR-004 & E, BR-005, BR-006, BR-007A & B AND BR-008.

**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION**

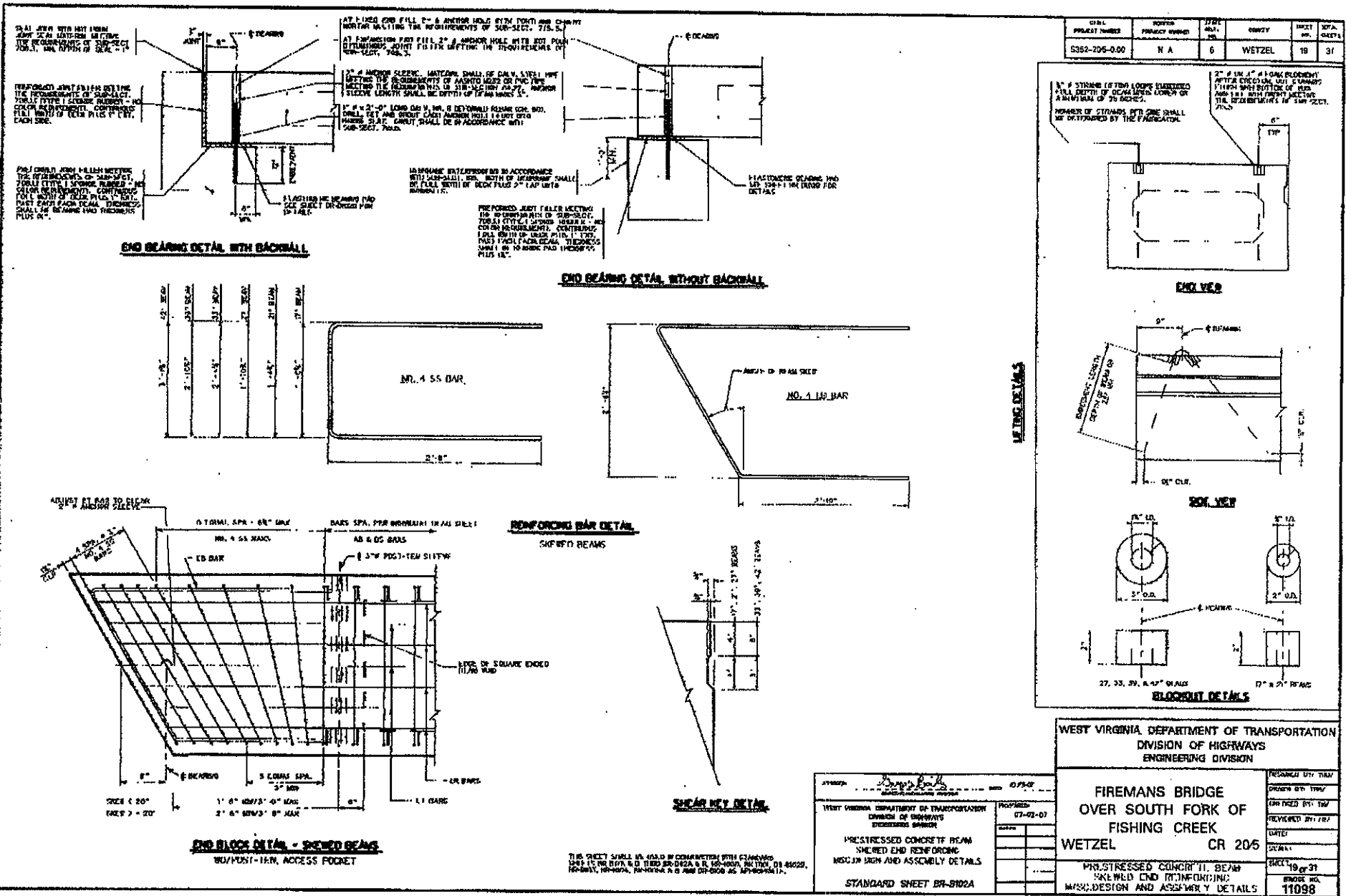
**FIREMANS BRIDGE  
OVER SOUTH FORK OF  
FISHING CREEK  
WETZEL CR 205**

**PRESTRESSED CONCRETE (P.C.)  
DESIGN & ASSEMBLY NOTES**

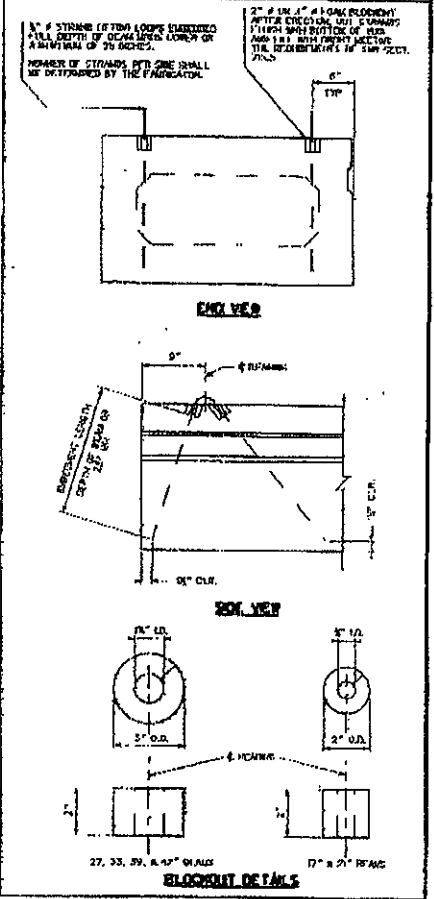
DATE	PROJECT NUMBER	DESIGN NUMBER	DATE	DESIGNER	CHECKER	SCALE
5552-205-000	N A	8	WETZEL	18	31	

CONTROL DIMENSIONS		
DESCRIPTION	UNIT	VALUE
PERMANENT BEAM LENGTH	A	81'-8"
SPAN LENGTH, & BEAMS TO & FROM	B	80'-8"
SPRETTRETTED WIDTH - SET TO 0	C	81'-4 1/2"
BEAM WIDTH - EACH SIDE/BEAM TO FACE EXTERIOR	D	81'-4 1/2"
NUMBER OF BEAMS PER SPAN	---	7
BEAM SELF WEIGHT - P/LTS	---	38 1/2
SPAN RISE	E	25'-1 1/2"
PERPENDICULAR DEFLECT. FROM FACE OF BEAM TO FACE OF ROAD	F	4 1/2"
FACE OF BEAM TO FACE OF ROAD	---	75'
NUMBER OF BEAMS PER SPAN	G	3"
NUMBER OF BEAMS PER SPAN	H	3"
11'-0" SPAN PERMANENT SYSTEM REQUIRED - 0' 0"	---	75'
PARAPET TO SUPPLY 11'-0" SPAN PERMANENT SYSTEM	---	75'
PARAPET TO SUPPLY 11'-0" SPAN PERMANENT SYSTEM	---	75'
NUMBER OF BEAMS PER SPAN	---	8
SPAN PERMANENT SYSTEM	---	80
SPAN PERMANENT SYSTEM	---	80
NUMBER OF BEAMS PER SPAN	---	8 A
11'-0" SPAN PERMANENT SYSTEM	---	80

# EXHIBIT A PAGE 9



PROJ. NO.	DESIGNER	DATE	APP. NO.	DATE	APP. NO.	DATE
SS22-205-0-00	N.A.	6	WETZEL	18	31	



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

**FIREMANS BRIDGE  
OVER SOUTH FORK OF  
FISHING CREEK  
WETZEL CR 205**

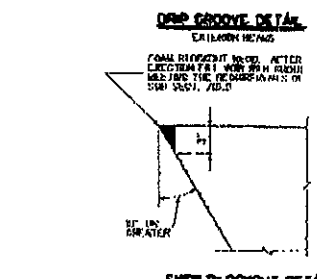
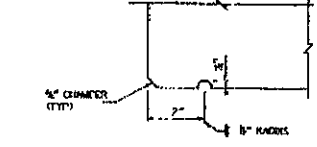
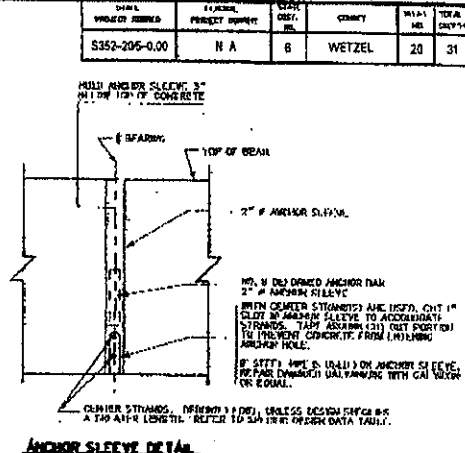
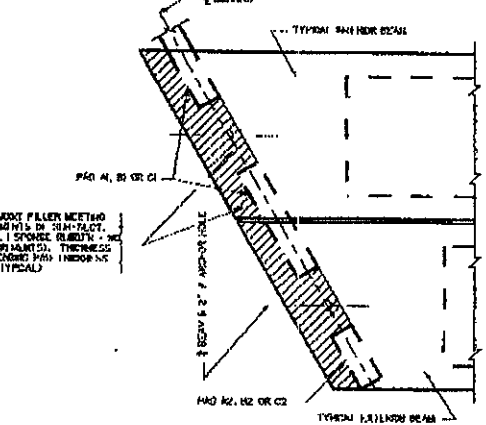
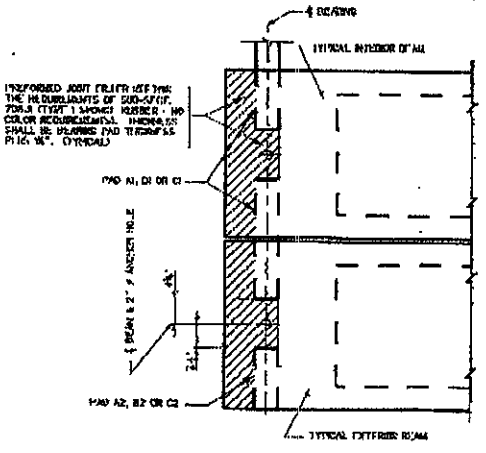
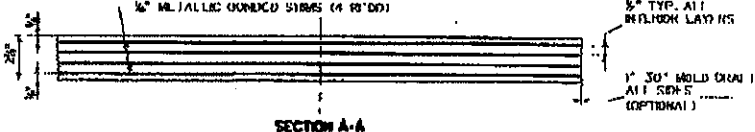
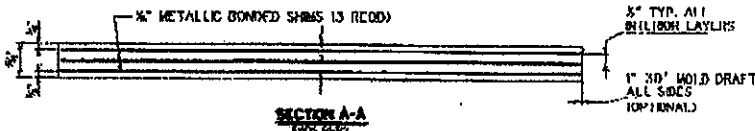
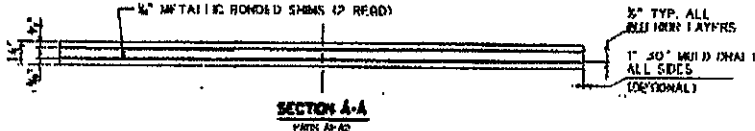
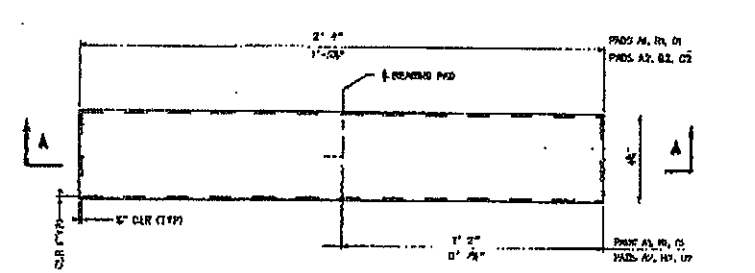
PRESTRESSED CONCRETE BEAM  
SKINNED END REINFORCING  
W/S/C DESIGN AND ASSEMBLY DETAILS

DESIGNED BY: TWJ	CHECKED BY: TWJ
DATE: 07-02-07	DATE: 07-02-07
SHEET: 18 OF 31	PROJECT NO.: 11098

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEET BR-8102A & B, BR-8102B & C, BR-8102D & E, BR-8102F & G, BR-8102H & I, BR-8102J & K, BR-8102L & M, BR-8102N & O, BR-8102P & Q, BR-8102R & S, BR-8102T & U, BR-8102V & W, BR-8102X & Y, BR-8102Z & AA, BR-8102AB & AC, BR-8102AD & AE, BR-8102AF & AG, BR-8102AH & AI, BR-8102AJ & AK, BR-8102AL & AM, BR-8102AN & AO, BR-8102AP & AQ, BR-8102AR & AS, BR-8102AT & AU, BR-8102AV & AW, BR-8102AX & AY, BR-8102AZ & BA, BR-8102BB & BC, BR-8102BD & BE, BR-8102BF & BG, BR-8102BH & BI, BR-8102BJ & BK, BR-8102BL & BM, BR-8102BN & BO, BR-8102BP & BQ, BR-8102BR & BS, BR-8102BT & BU, BR-8102BV & BW, BR-8102BX & BY, BR-8102BZ & CA, BR-8102CB & CC, BR-8102CD & CE, BR-8102CF & CG, BR-8102CH & CI, BR-8102CJ & CK, BR-8102CL & CM, BR-8102CN & CO, BR-8102CP & CQ, BR-8102CR & CS, BR-8102CT & CU, BR-8102CV & CW, BR-8102CX & CY, BR-8102CZ & DA, BR-8102DB & DC, BR-8102DD & DE, BR-8102DF & DG, BR-8102DH & DI, BR-8102DJ & DK, BR-8102DL & DM, BR-8102DN & DO, BR-8102DP & DQ, BR-8102DR & DS, BR-8102DT & DU, BR-8102DV & DW, BR-8102DX & DY, BR-8102DZ & EA, BR-8102EB & EC, BR-8102ED & EE, BR-8102EF & EG, BR-8102EH & EI, BR-8102EJ & EK, BR-8102EL & EM, BR-8102EN & EO, BR-8102EP & EQ, BR-8102ER & ES, BR-8102ET & EU, BR-8102EV & EW, BR-8102EX & EY, BR-8102EZ & FA, BR-8102FB & FC, BR-8102FD & FE, BR-8102FF & FG, BR-8102FH & FI, BR-8102FJ & FK, BR-8102FL & FM, BR-8102FN & FO, BR-8102FP & FQ, BR-8102FR & FS, BR-8102FT & FU, BR-8102FV & FW, BR-8102FX & FY, BR-8102FZ & GA, BR-8102GB & GC, BR-8102GD & GE, BR-8102GF & GG, BR-8102GH & GI, BR-8102GJ & GK, BR-8102GL & GM, BR-8102GN & GO, BR-8102GP & GQ, BR-8102GR & GS, BR-8102GT & GU, BR-8102GV & GW, BR-8102GX & GY, BR-8102GZ & HA, BR-8102HB & HC, BR-8102HD & HE, BR-8102HF & HG, BR-8102HH & HI, BR-8102HJ & HK, BR-8102HL & HM, BR-8102HN & HO, BR-8102HP & HQ, BR-8102HR & HS, BR-8102HT & HU, BR-8102HV & HW, BR-8102HX & HY, BR-8102HZ & IA, BR-8102IB & IC, BR-8102ID & IE, BR-8102IF & IG, BR-8102IH & II, BR-8102IJ & IK, BR-8102IL & IM, BR-8102IN & IO, BR-8102IP & IQ, BR-8102IR & IS, BR-8102IT & IU, BR-8102IV & IW, BR-8102IX & IY, BR-8102IZ & JA, BR-8102JB & JC, BR-8102JD & JE, BR-8102JF & JG, BR-8102JH & JI, BR-8102JJ & JK, BR-8102JL & JM, BR-8102JN & JO, BR-8102JP & JQ, BR-8102JR & JS, BR-8102JT & JU, BR-8102JV & JW, BR-8102JX & JY, BR-8102JZ & KA, BR-8102KB & KC, BR-8102KD & KE, BR-8102KF & KG, BR-8102KH & KI, BR-8102KJ & KK, BR-8102KL & KM, BR-8102KN & KO, BR-8102KP & KQ, BR-8102KR & KS, BR-8102KT & KU, BR-8102KV & KW, BR-8102KX & KY, BR-8102KZ & LA, BR-8102LB & LC, BR-8102LD & LE, BR-8102LF & LG, BR-8102LH & LI, BR-8102LJ & LK, BR-8102LL & LM, BR-8102LN & LO, BR-8102LP & LQ, BR-8102LR & LS, BR-8102LT & LU, BR-8102LV & LW, BR-8102LX & LY, BR-8102LZ & MA, BR-8102MB & MC, BR-8102MD & ME, BR-8102MF & MG, BR-8102MH & MI, BR-8102MJ & MK, BR-8102ML & MM, BR-8102MN & MO, BR-8102MP & MP, BR-8102MR & MS, BR-8102MT & MU, BR-8102MV & MW, BR-8102MX & MY, BR-8102MZ & NA, BR-8102NB & NC, BR-8102ND & NE, BR-8102NF & NG, BR-8102NH & NI, BR-8102NJ & NK, BR-8102NL & NM, BR-8102NN & NO, BR-8102NP & NP, BR-8102NR & NS, BR-8102NT & NU, BR-8102NV & NW, BR-8102NX & NY, BR-8102NZ & OA, BR-8102OB & OC, BR-8102OD & OE, BR-8102OF & OG, BR-8102OH & OI, BR-8102OJ & OK, BR-8102OL & OM, BR-8102ON & OO, BR-8102OP & OP, BR-8102OR & OS, BR-8102OT & OU, BR-8102OV & OW, BR-8102OX & OY, BR-8102OZ & PA, BR-8102PB & PC, BR-8102PD & PE, BR-8102PF & PG, BR-8102PH & PI, BR-8102PJ & PK, BR-8102PL & PM, BR-8102PN & PO, BR-8102PP & PP, BR-8102PR & PS, BR-8102PT & PU, BR-8102PV & PW, BR-8102PX & PY, BR-8102PZ & QA, BR-8102QB & QC, BR-8102QD & QE, BR-8102QF & QG, BR-8102QH & QI, BR-8102QJ & QK, BR-8102QL & QM, BR-8102QN & QO, BR-8102QP & QP, BR-8102QR & QS, BR-8102QT & QU, BR-8102QV & QW, BR-8102QX & QY, BR-8102QZ & RA, BR-8102RB & RC, BR-8102RD & RE, BR-8102RF & RG, BR-8102RH & RI, BR-8102RJ & RK, BR-8102RL & RM, BR-8102RN & RO, BR-8102RP & RP, BR-8102RR & RS, BR-8102RT & RU, BR-8102RV & RW, BR-8102RX & RY, BR-8102RZ & SA, BR-8102SB & SC, BR-8102SD & SE, BR-8102SF & SG, BR-8102SH & SI, BR-8102SJ & SK, BR-8102SL & SM, BR-8102SN & SO, BR-8102SP & SP, BR-8102SR & SS, BR-8102ST & SU, BR-8102SV & SW, BR-8102SX & SY, BR-8102SZ & TA, BR-8102TB & TC, BR-8102TD & TE, BR-8102TF & TG, BR-8102TH & TI, BR-8102TJ & TK, BR-8102TL & TM, BR-8102TN & TO, BR-8102TP & TP, BR-8102TR & TS, BR-8102TT & TU, BR-8102TV & TW, BR-8102TX & TY, BR-8102TZ & UA, BR-8102UB & UC, BR-8102UD & UE, BR-8102UF & UG, BR-8102UH & UI, BR-8102UJ & UK, BR-8102UL & UM, BR-8102UN & UO, BR-8102UP & UP, BR-8102UR & US, BR-8102UT & UY, BR-8102UZ & VA, BR-8102VB & VC, BR-8102VD & VE, BR-8102VF & VG, BR-8102VH & VI, BR-8102VJ & VK, BR-8102VL & VM, BR-8102VN & VO, BR-8102VP & VP, BR-8102VR & VS, BR-8102VT & VU, BR-8102VV & VW, BR-8102VX & VY, BR-8102VZ & WA, BR-8102WB & WC, BR-8102WD & WE, BR-8102WF & WG, BR-8102WH & WI, BR-8102WJ & WK, BR-8102WL & WM, BR-8102WN & WO, BR-8102WP & WP, BR-8102WR & WS, BR-8102WT & WY, BR-8102WZ & XA, BR-8102XB & XC, BR-8102XD & XE, BR-8102XF & XG, BR-8102XH & XI, BR-8102XJ & XK, BR-8102XL & XM, BR-8102XN & XO, BR-8102XP & XP, BR-8102XR & XS, BR-8102XT & XU, BR-8102XV & XW, BR-8102XX & XY, BR-8102XZ & YA, BR-8102YB & YC, BR-8102YD & YE, BR-8102YF & YG, BR-8102YH & YI, BR-8102YJ & YK, BR-8102YL & YM, BR-8102YN & YO, BR-8102YP & YP, BR-8102YR & YS, BR-8102YT & YU, BR-8102YV & YW, BR-8102YX & YY, BR-8102YZ & ZA, BR-8102ZB & ZC, BR-8102ZD & ZE, BR-8102ZF & ZG, BR-8102ZH & ZI, BR-8102ZJ & ZK, BR-8102ZL & ZM, BR-8102ZN & ZO, BR-8102ZP & ZP, BR-8102ZR & ZS, BR-8102ZT & ZU, BR-8102ZV & ZW, BR-8102ZX & ZY, BR-8102ZZ



# EXHIBIT A PAGE 10



### NOTES

- ELASTOMERIC BEARING PADS ARE DESIGNED IN ACCORDANCE WITH DESIGN METHOD B CONTAINED IN SECTION 14.01 OF THE ASHTO LRDG DESIGN SPECIFICATIONS. FABRICATION SHALL BE IN ACCORDANCE WITH SECTION 14.01 OF THE ASHTO LRDG BRIDGE CONSTRUCTION SPECIFICATIONS.
- ALL BEARINGS ARE DESIGNED FOR A 50% TEMPERATURE RANGE AND SHALL HAVE A BURSTING PRESSURE OF 600. METALLIC REINFORCEMENT SHALL HAVE A MINIMUM YIELD STRENGTH OF 36 KSI.
- BEARING PADS ARE DESIGNED FOR ZERO BRIDGE GRADE. FOR BRIDGE GRADES GREATER THAN 0.5%, PADS SHALL BE SPECIALLY DESIGNED FOR THE GRADE. AS AN ALTERNATE, CAST-IN-PLACE REINFORCED CONCRETE PADS MAY BE USED.
- DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKewed END BEAMS MAY TILT OR BEND, CAUSING UNEVEN BEARING AT THE BEARINGS. THE CONTRACTOR IS REQUIRED TO CORRECT AT THE TIME OF ERECTION BEFORE THE BEAMS ARE SET IN PLACE. METHOD OF CORRECTION SHALL BE APPROVED BY THE DESIGNER AND A LEVEL TOP BEAM SURFACE. TO GRABBE AT FOR CORRECTION SHALL BE 1/8" MIN. THE FABRICATOR SHALL NOTIFY THE CONTRACTOR AND DESIGNER IF CORRECTIONS ARE REQUIRED PRIOR TO SHIPMENT.
- 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 BEAMS.
- THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-377A & B THRU BR-377A & B, BR-378, BR-379, BR-379A, BR-380, BR-380A, BR-381, BR-381A, BR-382A & B AND BR-382 AS APPROPRIATE.

BOX BEAM BEARING PAD CONTROL DIMENSIONS							
PAD	LENGTH	WIDTH	DEPTH	NO. STRIPS	SPACING	MINIMUM REACTION	MINIMUM BURSTING PRESSURE
A1	48"	24"	12"	3	16"	40" x 70" KPS	0.25"
B1	48"	24"	12"	3	16"	40" x 70" KPS	0.25"
C1	48"	24"	12"	4	16"	40" x 70" KPS	1.02"
A2	48"	24"	12"	2	16"	40" x 70" KPS	0.25"
B2	48"	24"	12"	3	16"	40" x 70" KPS	0.25"
C2	48"	24"	12"	4	16"	40" x 70" KPS	1.02"

### PLAN VIEW - BEARING PLACEMENT

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

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

STANDARD SHEET BR-37022

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
ENGINEERING DIVISION

FIREMANS BRIDGE  
OVER SOUTH FORK OF  
FISHING CREEK  
WETZEL CR 205

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

DESIGNED BY: TSP  
CHECKED BY: TSP  
DATE: 07/02/07  
SCALE:  
SHEET 20 OF 31  
PROJECT NO. 11098





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.
7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules. Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

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: \_\_\_\_\_

RFQ No. 061300228

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

**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.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"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.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

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

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

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

County of \_\_\_\_\_, to-wit:

Taken, subscribed, and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

My Commission expires \_\_\_\_\_, 20\_\_.

**AFFIX SEAL HERE**

**NOTARY PUBLIC** \_\_\_\_\_

*Purchasing Affidavit (Revised 07/01/2012)*

**NOTE:**

**Vendor and Notary's date must be the same.**

**Notary required to AFFIX SEAL on Purchasing Affidavit.**