



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

Request for Quotation

RFQ NUMBER
10120024

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
PAUL REYNOLDS 304-558-0468

VENDOR

*709055926 304-464-4441
 CARR CONCRETE CORPORATION
 PO BOX 265
 WAVERLY WV 26184-0265

SHIP TO

DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/04/2011				

BID OPENING DATE: **08/31/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001		LS		210-16		\$59,301.25
<p>17" PRESTRESSED CONCRETE BOX BEAMS</p> <p>REQUEST FOR QUOTATION (RFQ)</p> <p>THE WEST VIRGINIA STATE DIVISION OF PURCHASING FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS IS SOLICITING BIDS TO FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE 17" PRESTRESSED CONCRETE BOX BEAMS, GUARDRAILS AND RELATED HARDWARE TO THE WEST VIRGINIA DIVISION OF HIGHWAYS JOBSITE LOCATED AT WYCO HOLLOW ARCH OVER ALLEN CREEK NEAR WYCO, WV.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO PAUL REYNOLDS IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-2596, OR VIA EMAIL AT PAUL.REYNOLDS@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 08/26/2011, AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE</p>						

RECEIVED
 2011 AUG 25 AM 11:30
 WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
Robert Burr Stanley	304-464-4441	8/18/11
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Project Manager	550685425	

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

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

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

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

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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*709055926 304-464-4441
CARR CONCRETE CORPORATION
PO BOX 265
WAVERLY WV 26184-0265

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DIVISION OF HIGHWAYS
JOBSITE
SEE SPECIFICATIONS

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
08/04/2011						
BID OPENING DATE: 08/31/2011		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
AGENCY AS A CONDITION OF AWARD.						
NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:		PAUL REYNOLDS			FILE 33	
RFQ. NO.:		10120024				
BID OPENING DATE:		08/31/2011				
BID OPENING TIME:		01:30 P.M.				
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
-----304-464-4013-----						
CONTACT PERSON (PLEASE PRINT CLEARLY):						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE			TELEPHONE		DATE	
TITLE		FEIN	ADDRESS CHANGES TO BE NOTED ABOVE			

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	EXHIBIT 10			REQUISITION NO.:		
	ADDENDUM ACKNOWLEDGEMENT					
	I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.					
	ADDENDUM NO.'S:					
	NO. 1					
	NO. 2					
	NO. 3					
	NO. 4					
	NO. 5					
	I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.					
	VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.					

NA

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BID OPENING DATE: 08/31/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				Robert 'Burr' Stanley SIGNATURE		
				Carr Concrete Corp COMPANY		
				8/18/11 DATE		
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.						
REV. 09/21/2009						
***** THIS IS THE END OF RFQ 10120024 *****						TOTAL: \$59,301.25

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Specifications

Purpose: To furnish all labor, materials and equipment necessary to provide 17" prestressed concrete box beams, guardrail and related hardware.

1.0 DEFINITIONS

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

2.0 SCOPE OF WORK

The successful Vendor shall provide all labor, materials and equipment necessary to provide 17" prestressed concrete box beams, guardrail and related hardware.

2.1 Technical Requirements:

Bridge Beams are to be manufactured according to the attached plan sheets 1 thru 9 of 9 entitled WYCO HOLLOW ARCH OVER ALLEN CREEK and specifications listed there in.

2.1.1 Delivery

The prestressed concrete box beams, guardrail and related hardware are to be delivered to the West Virginia Department of Transportation Bridge Number 55-12/1-1.10 which is near Wyco in Raleigh County

3.0 INVOICING

3.1 Payment

3.1 The Vendor must send an invoice to:
WV Division of Highways
270 Hardwood Lane
Princeton, WV 24740

4.0 AWARD

Purchase order will be awarded complete and not split.

STATE PROJECT NUMBER	PROJECT DIST. NO.	COUNTY	TOTAL SHEETS
S355-12/1-1-10	10	WYOMING	9

CONCRETEWORKING DETAILS:

- POST-TENSIONING THREAD BARS SHALL BE ONE INCH DIAMETER, 60 KSI STEEL, AND SHALL CONFORM TO ASTM A307. TYPE II STEEL THREAD BARS SHALL BE DESIGNED TO ALLOW THE USE OF HEAVY HEX NUTS AND WASHERS THAT THREAD ONTO THE END OF THE DEFORMATIONS. HEAVY HEX NUTS AND WASHERS SHALL BE OF A DESIGN AND MATERIAL RECOMMENDED BY THE BIA MANUFACTURER TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFIED MILL TEST REPORTS SHALL BE PROVIDED FOR EACH YEAR OF STEEL THREAD BARS.
- ALL POST-TENSIONING THREAD BARS, NUTS, BEARING PLATES, COUPLERS, AND ANCHORAGE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A70. THE GALVANIZING PLANT SHALL ADMINISTER ADEQUATE QUALITY CONTROL MEASURES TO SAFEGUARD AGAINST HYDROGEN EMBRITTLEMENT. QUALITY CONTROL RECORDS SHALL COMPLY WITH ASTM A784. CERTIFICATION FOR HOT-DIP GALVANIZING SHALL BE PROVIDED BY THE GALVANIZING PLANT.
- ALL POST-TENSIONING BEARING PLATES SHALL CONFORM TO ASTM A36, GRADE 36.

STANDARD CONTRACT:

- SHEAR KEY GROUT SHALL BE A GROUT THAT IS RECOMMENDED BY THE MANUFACTURER FOR A POULABLE GROUT APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA WILL ATTAIN A MINIMUM OF 4000 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER CONDITIONS REPRESENTATIVE OF THE CONDITIONS TO BE EXPERIENCED AT THE SITE. THE GROUT MUST BE LISTED ON THE APPROVED LIST OF GROUTS PUBLISHED BY THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION.
- THE CONTRACTOR SHALL PROTECT THE PROPOSED GROUT FOR COMPRESSIVE STRENGTH AT 3 AND 7 DAYS AND SUBMIT THE RESULTS TO THE BRIDGE PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION OF THE GROUT IN THE STRUCTURE. THE TESTS WILL BE BASED ON A FEASIBLE CONSISTENCY WITH THE SAME WATER/CEMENT RATIO TO BE USED IN THE STRUCTURE.
- THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR EACH PROJECT THE GROUT PRETEST RESULTS OBTAINED IN THE PAST AND THE CONTRACTOR SHALL BE REQUIRED TO REPORT A NEW PRETEST AND SUBMISSION FOR APPROVAL UNDER ANY OF THE FOLLOWING CONDITIONS:
 - A PERIOD OF 90 DAYS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.
 - GROUT MANUFACTURER HAS REVISION OR CHANGED THE GROUT SPECIFICATIONS.
 - THE CONTRACTOR ALTERS THE WATER/CEMENT RATIO.
 - THE CONTRACTOR CHANGES GROUT MANUFACTURER.
- THE CONTRACTOR IS REQUIRED TO COMPLETE THE GROUT STRENGTH TABLE ON DRAWING.
- TEST PROCEDURES FOR DETERMINING THE COMPRESSIVE STRENGTH OF GROUT SHALL USE CURE PROCEDURES IN ACCORDANCE WITH ASTM C909, AS MODIFIED BY ASTM C907. GROUT TESTING IN ACCORDANCE WITH ASTM C909 TESTING (STANDARD CYLINDER TEST) IS NOT ACCEPTABLE.

REINFORCING DETAILS:

- EACH PRESTRESSED CONCRETE BEAM SHALL BE TREATED BY THE MANUFACTURER AT THE FABRICATOR PLANT WITH AN APPROVED CONCRETE SCOURING AGENT. AN APPROVED LIST OF CONCRETE SCOURING AGENTS IS ON FILE AT THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION. CONCRETE SHALL INCLUDE TOP AND BOTTOM OF INTERIOR BEAMS AND TOP, BOTTOM AND EXTERIOR SIDE OF EXTERIOR BEAM. APPLICATION RATE SHALL BE PER TREATMENT MANUFACTURER'S RECOMMENDATION.
- UPON COMPLETION OF THE SILANE TREATMENT BY FABRICATOR AND A MAXIMUM OF FIVE WORKING DAYS PRIOR TO SHIPMENT OF THE BEAMS, THE FABRICATOR SHALL BE RESPONSIBLE FOR ABRASIVE BLAST CLEANING TO CLEAN WHITE CONCRETE INTERIOR SIDES OF BEAMS FOR THE FULL LENGTH. CLEAN WHITE CONCRETE SHALL REMAIN REMOVAL OF ALL DIRT, GREASE, OIL AND LOOSE CONCRETE LAP-WELD AND PROVIDE A REINFORCED CONCRETE SURFACE. BLASTING MEDIUM SHALL BE APPROVED BY THE DIVISION OF HIGHWAYS.

WEST VIRGINIA DIVISION OF HIGHWAYS	
ENGINEERING DIVISION	
PROJECT NAME	WYCO HOLLOW ARCH OVER ALLEN CREEK
PROJECT NO.	10989
DATE	
SCALE	
PROJECTED BY	
CHECKED BY	
DESIGNED BY	

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 MEET THE REQUIREMENTS OF ASTM A615, ALL WELD REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A615, EXCEPT WHERE INDICATED BY SECTION 603 OF THE STANDARD SPECIFICATIONS.
- ALL TENSION LAP SPICES SHALL BE CLASS B, CONTACT TYPE, MINIMUM LAP SPICE LENGTHS SHALL BE AS GIVEN IN THE "LAP SPICE TABLE" THIS SHEET. IF LAP SPACING OF EN, DR AND OF BEAMS IS USED TERMINATION OF THE SPICES SHALL BE NO CLOSER TO THE END OF THE BEAM THAN TWO OF THE SPAN LENGTH.
- MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS, EXCEPT THAT NO. 4 BAR SHALL HAVE A MINIMUM BEND DIAMETER OF 4 BAR DIAMETERS.
- MINIMUM CONCRETE COVER SHALL BE AS SPECIFIED IN SECTION 603 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE NOTED ON THE PLANS.

PRESTRESSING STANDARDS:

- ALL PRESTRESSING STEEL SHALL BE # 4, GRADE 60, 7 WIRE UNGRADED LOW-RELAXATION STRAND MEETING THE REQUIREMENTS OF ASTM A421, SUPPLEMENT 1.
- ALL BEAMS DESIGNED IN THESE STANDARDS UTILIZE STANDARDS WITH A NOMINAL AREA OF 0.07 SQ. IN. STRANDS WITH A NOMINAL AREA OF 0.03 SQ. IN. IS PERMITTED FOR INDIVIDUAL OR ALTERNATE DESIGNS. HOWEVER THE DESIGNER IS ENCOURAGED TO USE THE LARGER STRAND FOR UNIFORMITY REASONS. IN NO CASES WILL STRESS-RELATED STRAND BE PERMITTED.
- ALL STANDARDS SHALL BE ENCLOSED INSIDE THE STRIP CASE FOR THE FULL LENGTH OF THE BEAM.
- ALL EXPOSED PRESTRESSING STRAND AT EACH BEAM END SHALL BE SHEP COATED WITH A LIQUID COLLOID-APPLIED BUTYRADIUM ELASTOMERIC WATERPROOFING MEMBRANE. MATERIAL SHALL MEET ASTM D3364-84.
- CONCRETE:
 - WASHERS USED IN MANUFACTURING PRESTRESSED CONCRETE BEAMS SHALL MEET THE REQUIREMENTS OF SECTION 603.6 OF THE STANDARD SPECIFICATIONS. DESIGN STRENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES SET FORTH IN THESE PLANS.
 - ALL CONCRETE USED IN PARRSETS AND CURBS SHALL BE CLASS A CONCRETE.
 - ELASTOMERIC CURING MEMBRANE:
 - ALL BEARING PADS SHALL MEET THE APPLICABLE REQUIREMENTS AS SET FORTH IN SECTION 602 OF THE ASTHO LRD BRIDGE CONSTRUCTION SPECIFICATIONS, 1998 EDITION WITH CURRENT INTERIMS. ALL BEARINGS SHALL BE STEEL REINFORCED LAMINATED BEARINGS.
 - THE ELASTOMER MATERIAL SHALL BE 60 DIAMETERS WITH A MINIMUM LOW TEMPERATURE GRADE OF 3 (CIVIC D).
 - ALL STEEL REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60.

ITEM	DESCRIPTION	MATERIAL SPEC.	QUANTITY
POST	WASHERS	ASTM A615 GR 60 36	ASTM A615
PLATE	ASTM A615 GR 36	ASTM A615	ASTM A615
TUBING	TYPE B, 1/2"	ASTM A615 GR 36	ASTM A615
CHANNEL	TYPE B, 1/2"	ASTM A615 GR 36	ASTM A615
PERFORATED	TYPE B, 1/2"	ASTM A615 GR 36	ASTM A615
ANCHOR	1/2" x 1/2" x 1/2"	ASTM A615 GR 36	ASTM A615
STITCHES	1/2" x 1/2" x 1/2"	ASTM A615 GR 36	ASTM A615
COUPLERS	TYPE B, 1/2"	ASTM A615 GR 36	ASTM A615
BOOTS	1/2" x 1/2" x 1/2"	ASTM A615 GR 36	ASTM A615
WASHERS	1/2" x 1/2" x 1/2"	ASTM A615 GR 36	ASTM A615
WASHERS	1/2" x 1/2" x 1/2"	ASTM A615 GR 36	ASTM A615

FACE WELDING OF REINFORCING IS NOT PERMITTED. REINFORCING CAGES AND LONGITUDINAL STEEL SHALL BE ACCURATELY TIED WITH APPROVED AGENTS TO PREVENT PACKING AND MISALIGNMENT.

ALL WELDING OF FABRICATED ITEMS AS SHOWN IN THESE PLANS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ASTMSPECS, DIV. 6002.

GOVERNING SPECIFICATIONS:

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. THE CONTRACT PLANS AND CONTRACT SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

ALL BEAMS ARE REINFORCED IN ACCORDANCE WITH THE ASTHO LRD BRIDGE DESIGN SPECIFICATIONS, DATED 1998 AS AMENDED BY THE 2002 INTERIM SPECIFICATIONS.

DESIGN NOTES:

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

- DESIGN FOR LIVE LOAD IN ACCORDANCE WITH THE ASTHO LRD BRIDGE DESIGN SPECIFICATIONS.
- DESIGN FOR DEAD LOAD, NUMBER REQUIRED BASED ON 15'-0" MAX. SPACING.
- DESIGN FOR DEAD LOAD, NUMBER REQUIRED BASED ON 15'-0" MAX. SPACING, BETWEEN ADJ. BEAMS, A CURB TO CURB WIDTH OF 22'-4". TRANSVERSE POST-TENSIONING.

CONCRETE STRENGTH	MINIMUM CONCRETE STRENGTH @ 28 DAYS	MINIMUM CONCRETE STRENGTH @ 3 DAYS	TEMPORARY STRENGTH LIMITS IN CONCRETE BEFORE LOSSES:	COMPRESSION STRESS LIMIT @ STRAND RELEASE	TENSION STRESS LIMIT IN CONCRETE @ SERVICE I AFTER LOSSES:	FINAL I (FPODLO)	FINAL II (FPODLO)	FINAL III (FPODLO)	TENSION STRESS LIMIT IN CONCRETE @ SERVICE III AFTER LOSSES:	TENSION STRESS LIMIT PRIOR TO TRANSFER	TENSION STRESS LIMIT AFTER ALL LOSSES
6000 PSI	6000 PSI	8000 PSI	3600 PSI	-200 PSI	4800 PSI	3000 PSI	3000 PSI	3000 PSI	570 PSI	5025 KSI	184.4 KSI

DESIGNING ON SHIELDING OF STRANDS TO REDUCE TEMPORARY TENSILE STRESSES IN 90 DAYS: HOWEVER REINFORCING IS LIMITED TO ONE PER ROW AND 25% TOTAL. TO BE SHIPPED BY AIR. BEAMS MUST BE FULLY ENCASED STRAND AND SHALL BE SYMMETRICAL TUBES TYPED AT EACH END.

THE ELASTOMERIC BEARING PADS PROVIDED IN THE STANDARD DESIGN ARE BASED ON ZERO GRADE AND ARE LIMITED TO A MAXIMUM OF 5% GRADES. IN INSTANCES OF GRADES EXCEEDING THIS LIMIT, PADS SHALL BE SPECIALLY DESIGNED. INDIVIDUAL BEARING PADS SHALL BE IN ACCORDANCE WITH SECTION 14, ASTHO LRD. RECYCLED SOLE PLATES ARE PERMITTED.

- MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
- WHEN ALTERNATE DESIGN OR SITE SPECIFIC DESIGN ARE PROVIDED, CRITERIA SET FORTH IN THESE STANDARDS SHALL APPLY.
- NEGATIVE DESIGN CARRIER AFTER ALL LOSSES IS NOT PERMITTED.
- EACH BEAM PROVIDED IN THESE STANDARDS DESIGN HAS BEEN LOAD RATED IN ACCORDANCE WITH SECTION 305 OF THE WEST VIRGINIA DIVISION OF HIGHWAYS BRIDGE DESIGN MANUAL, 2004. ADDITIONALLY, LOAD RATING PROCEDURES ARE IN ACCORDANCE WITH THE ASTHO MANUAL FOR CONDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF HIGHWAY BRIDGES, 2002.

LAP SPICE TABLE	
BAR SIZE	SPACE LEN.
#4	20"
#5	24"
#6	30"
#7	36"

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-574 & B THRU BR-583 & D, BR-590, BR-594 & B, BR-597, BR-598 & B AND BR-600 AS APPLICABLE.

STATE	COUNTY	TOTAL SHEETS
WYOMING	WYOMING	9
PROJECT NUMBER		
S355-12/1-1.10		

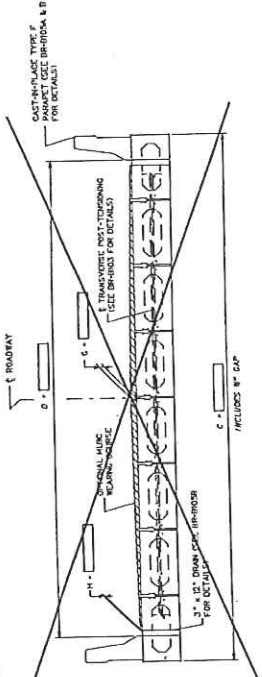
DESCRIPTION	CODE	VALUE
OVERALL BEAM LENGTH	A	41'-0"
SPAN LENGTH, ϵ BEARING TO ϵ BEARING	B	40'-0"
SUPERSTRUCTURE WIDTH - OUT TO OUT	C	21'-4 1/2"
ROADWAY WIDTH - FACE OF PARAPET TO FACE OF PARAPET	D	21'-4 1/2"
NUMBER OF BEAMS REQUIRED		7
BEAM SEC (WIDTH \times DEPTH)		38" \times 17"
SHEAR ANGLE (NORMAL DEC. 1/2 IN DEC. 1/2)	F	10° L/S
PERPENDICULAR DISTANCE FROM FACE OF BEAM TO ϵ BEARING (YES/NO)	F	N 7/8"
MAX BEARING CORSE REQUIRED (YES/NO)		NO
THICKNESS OF WEARING COURSE ϵ END OF BEAM (YES/NO)	E	----
THICKNESS OF WEARING COURSE ϵ END OF BEAM (YES/NO)	H	----
TL-2 BRIDGE GUARDRAIL SYSTEM REQUIRED (YES/NO)		YES
PARAPET TO SUPPLY TL-2 BRIDGE GUARDRAIL (YES/NO)		YES
FABRICATOR TO INSTALL BRIDGE GUARDRAIL (YES/NO)		NO
NUMBER OF GUARDRAIL POSTS REQUIRED PER BEAM (YES/NO)		7
TYPE OF PARAPET REQUIRED (YES/NO)		NO
GRANS REQUIRED (YES/NO)		NO
NUMBER OF GRANS REQUIRED PER SEC		----
10" CURB REQUIRED (YES/NO)		NO

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

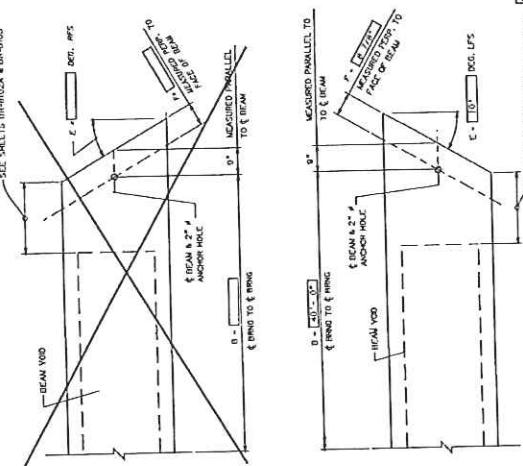
WYCO HOLLOW ARCH
OVER
ALLEN CREEK

PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY NOTES

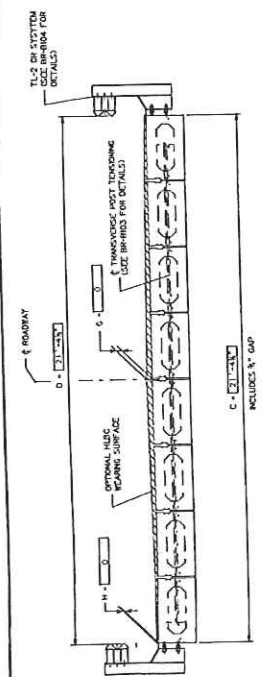
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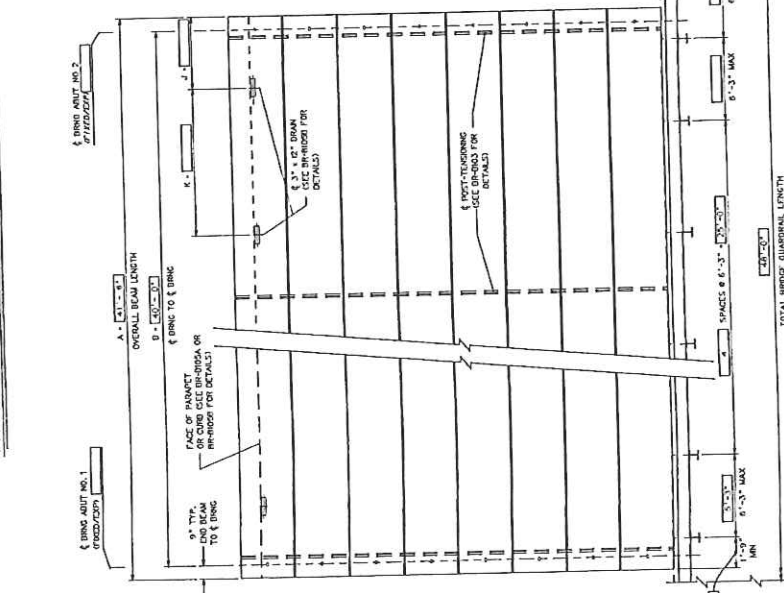
TYPICAL CROSS-SECTION WITH PARAPET OR CURB



BEAM PLAN VIEW - SKEWED ENDS



TYPICAL CROSS-SECTION WITH GUARDRAIL



DECK PLAN VIEW

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	PRESTRESSED CONCRETE BOX BEAM	LF	700.0

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM
DESIGN AND ASSEMBLY NOTES

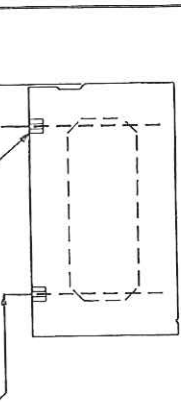
STANDARD SHEET BR-8101

- NOTES:
- BEAM BRIDGE GUARDRAIL IS TO BE SUPPLIED BY THE BEAM FABRICATOR. COST OF ALL FASTENING HARDWARE, AND ACCESSORIES ITEMS NEEDED TO COMPLETELY INSTALL BRIDGE GUARDRAIL SHALL BE INCLUDED IN ITEM QUANTITIES. PRESTRESSED CONCRETE BEAM STANDARD SHEETS BR-8101A & B AND BR-8102, BR-8103, BR-8104, BR-8105, BR-8106, BR-8107, BR-8108, BR-8109, BR-8110, BR-8111, BR-8112, BR-8113, BR-8114, BR-8115, BR-8116, BR-8117, BR-8118, BR-8119, BR-8120, BR-8121, BR-8122, BR-8123, BR-8124, BR-8125, BR-8126, BR-8127, BR-8128, BR-8129, BR-8130, BR-8131, BR-8132, BR-8133, BR-8134, BR-8135, BR-8136, BR-8137, BR-8138, BR-8139, BR-8140, BR-8141, BR-8142, BR-8143, BR-8144, BR-8145, BR-8146, BR-8147, BR-8148, BR-8149, BR-8150, BR-8151, BR-8152, BR-8153, BR-8154, BR-8155, BR-8156, BR-8157, BR-8158, BR-8159, BR-8160, BR-8161, BR-8162, BR-8163, BR-8164, BR-8165, BR-8166, BR-8167, BR-8168, BR-8169, BR-8170, BR-8171, BR-8172, BR-8173, BR-8174, BR-8175, BR-8176, BR-8177, BR-8178, BR-8179, BR-8180, BR-8181, BR-8182, BR-8183, BR-8184, BR-8185, BR-8186, BR-8187, BR-8188, BR-8189, BR-8190, BR-8191, BR-8192, BR-8193, BR-8194, BR-8195, BR-8196, BR-8197, BR-8198, BR-8199, BR-8200.
 - THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-8101, BR-8102, BR-8103, BR-8104, BR-8105, BR-8106, BR-8107, BR-8108, BR-8109, BR-8110, BR-8111, BR-8112, BR-8113, BR-8114, BR-8115, BR-8116, BR-8117, BR-8118, BR-8119, BR-8120, BR-8121, BR-8122, BR-8123, BR-8124, BR-8125, BR-8126, BR-8127, BR-8128, BR-8129, BR-8130, BR-8131, BR-8132, BR-8133, BR-8134, BR-8135, BR-8136, BR-8137, BR-8138, BR-8139, BR-8140, BR-8141, BR-8142, BR-8143, BR-8144, BR-8145, BR-8146, BR-8147, BR-8148, BR-8149, BR-8150, BR-8151, BR-8152, BR-8153, BR-8154, BR-8155, BR-8156, BR-8157, BR-8158, BR-8159, BR-8160, BR-8161, BR-8162, BR-8163, BR-8164, BR-8165, BR-8166, BR-8167, BR-8168, BR-8169, BR-8170, BR-8171, BR-8172, BR-8173, BR-8174, BR-8175, BR-8176, BR-8177, BR-8178, BR-8179, BR-8180, BR-8181, BR-8182, BR-8183, BR-8184, BR-8185, BR-8186, BR-8187, BR-8188, BR-8189, BR-8190, BR-8191, BR-8192, BR-8193, BR-8194, BR-8195, BR-8196, BR-8197, BR-8198, BR-8199, BR-8200.

STATE PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
3355-12/1-1, 10	10	9

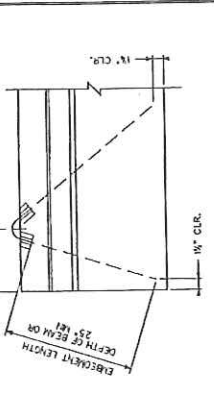
1. 4 STANCHIONS, BARS REINFORCED AND FILL WITH CHART METTING A MINIMUM OF 25 THICK. THIS REQUIREMENTS OF SUB-SECT. 710.3.

2. 4 OR 3" x 4" FOAM BLOKOUT AFTER ERECTION, CUT STANCHIONS AND FILL WITH CHART METTING A MINIMUM OF 25 THICK. THIS REQUIREMENTS OF SUB-SECT. 710.3.



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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

WYCO HOLLOW ARCH
OVER
ALLEN CREEK

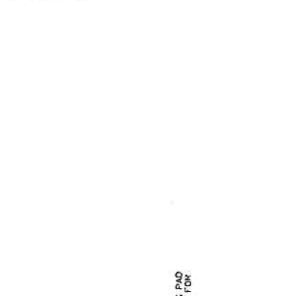
PRESTRESSED CONCRETE BEAM
SKEWED END REINFORCING
MISC. DESIGN AND ASSEMBLY DETAILS

STANDARD SHEET BR-8102A

DESIGNED BY: TNU	CHECKED BY: TNU	APPROVED BY: TNU	DATE:
SCALE:	SHEET:	NO. OF SHEETS:	10/8/69

SEAL JOINT WITH HOT POUR 70LBS. MIN. DEPTH OF SEALANT 1" TO 1 1/2".

PREFORMED JOINT FILLER MEETING THE REQUIREMENTS OF SUB-SECT. 710.3. FULL WIDTH OF JOINT PLUS 1" EXT. EACH SIDE.



1. 4 STANCHIONS, BARS REINFORCED AND FILL WITH CHART METTING A MINIMUM OF 25 THICK. THIS REQUIREMENTS OF SUB-SECT. 710.3.

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

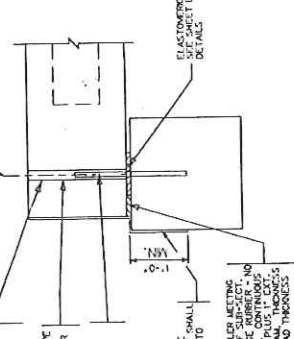
PRESTRESSED CONCRETE BEAM
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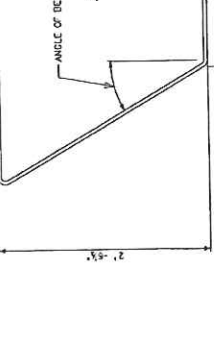
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
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ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM
SKEWED END REINFORCING
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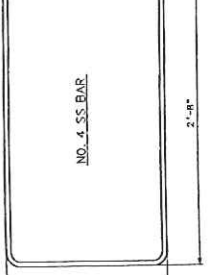
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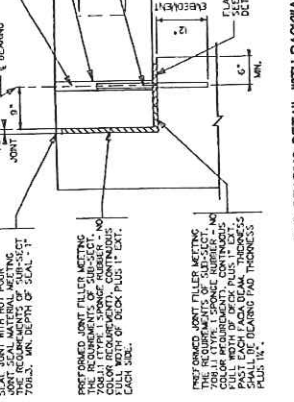
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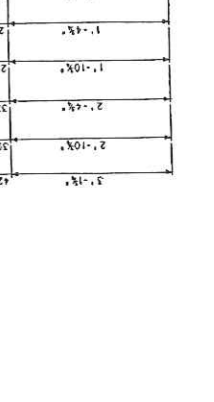
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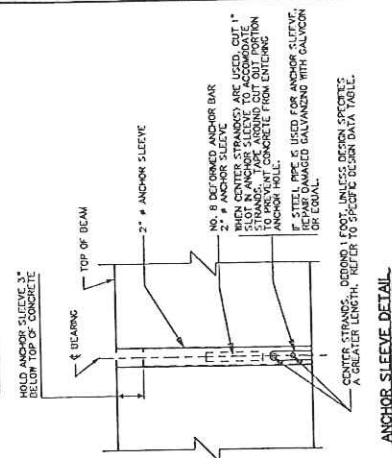
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
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PRESTRESSED CONCRETE BEAM
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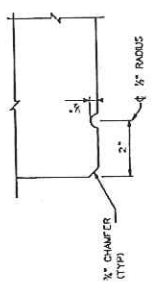
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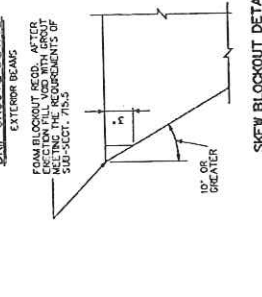
STATE PROJECT NUMBER	3555-12/1-1.10	SHEET NO.	4	TOTAL SHEETS	9
COUNTY	WYOMING	DATE	10	BY	



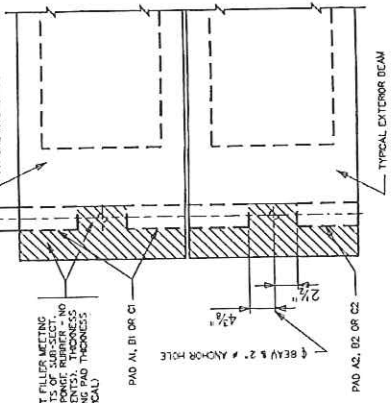
ANCHOR SLEEVE DETAIL



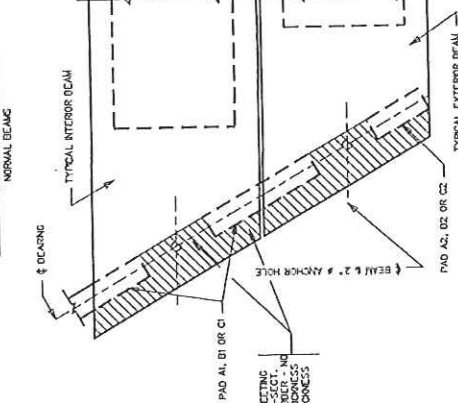
DRILL GROOVE DETAIL



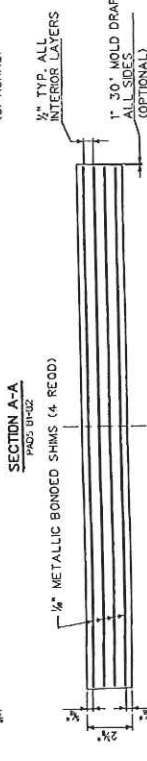
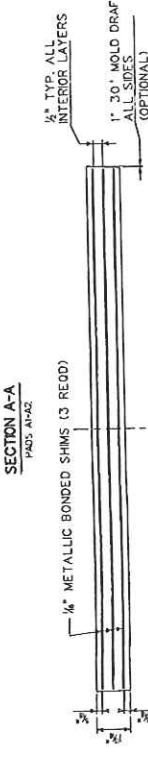
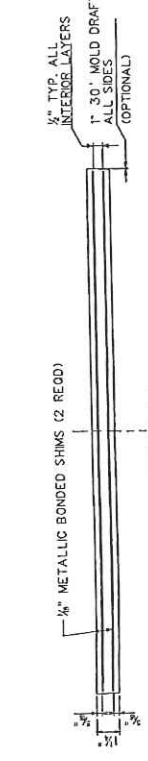
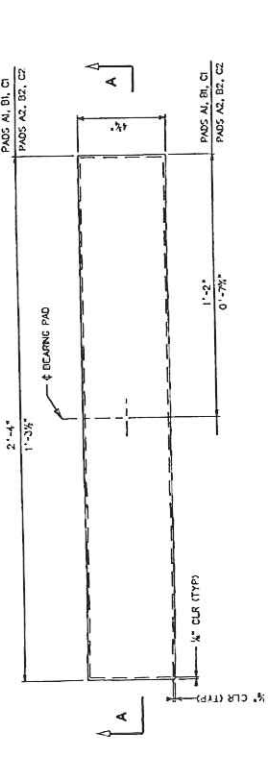
SKIEW BLOCKOUT DETAIL



PLAN VIEW - BEARING PLACEMENT



PLAN VIEW - BEARING PLACEMENT



NOTES:

- ELASTOMERIC BEARING PADS ARE DESIGNED IN ACCORDANCE WITH DESIGN METHOD B CONTAINED IN SECTION 14 OF THE AASHTO LINED BEARING DESIGN AND CONSTRUCTION SPECIFICATIONS.
- ALL BEARINGS ARE DESIGNED FOR A LOW TEMPERATURE RANGE. PADS SHALL HAVE A BARRIER COAT OF POLYURETHANE OR OTHER PROTECTIVE COATING TO PREVENT CRACKING AND DISINTEGRATION.
- BEARING PADS ARE DESIGNED FOR ZERO FRICTION. FOR BRIDGE GRANES GREATER THAN 5% HARDNESS OF 60. METALLIC REINFORCEMENT SHALL HAVE A MINIMUM YIELD STRENGTH OF 30 KSI.
- REINFORCING FABRICATOR AND ERECTOR SHALL BE AWARE THAT SPOKED AND BEAMS MAY TEND TO CORRECT AT THE TIME OF ERECTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CORRECTING AFTER CORRECTION SHALL BE 1/8\"/>
- 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 BEAM.
- THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-107A & B, THRU BR-942A & B, BR-108, BR-109, BR-110, BR-111, BR-112, BR-113, BR-114, BR-115, BR-116, BR-117, BR-118, BR-119, BR-120, BR-121, BR-122, BR-123, BR-124, BR-125, BR-126, BR-127, BR-128, BR-129, BR-130, BR-131, BR-132, BR-133, BR-134, BR-135, BR-136, BR-137, BR-138, BR-139, BR-140, BR-141, BR-142, BR-143, BR-144, BR-145, BR-146, BR-147, BR-148, BR-149, BR-150, BR-151, BR-152, BR-153, BR-154, BR-155, BR-156, BR-157, BR-158, BR-159, BR-160, BR-161, BR-162, BR-163, BR-164, BR-165, BR-166, BR-167, BR-168, BR-169, BR-170, BR-171, BR-172, BR-173, BR-174, BR-175, BR-176, BR-177, BR-178, BR-179, BR-180, BR-181, BR-182, BR-183, BR-184, BR-185, BR-186, BR-187, BR-188, BR-189, BR-190, BR-191, BR-192, BR-193, BR-194, BR-195, BR-196, BR-197, BR-198, BR-199, BR-200, BR-201, BR-202, BR-203, BR-204, BR-205, BR-206, BR-207, BR-208, BR-209, BR-210, BR-211, BR-212, BR-213, BR-214, BR-215, BR-216, BR-217, BR-218, BR-219, BR-220, 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BR-721, BR-722, BR-723, BR-724, BR-725, BR-726, BR-727, BR-728, BR-729, BR-730, BR-731, BR-732, BR-733, BR-734, BR-735, BR-736, BR-737, BR-738, BR-739, BR-740, BR-741, BR-742, BR-743, BR-744, BR-745, BR-746, BR-747, BR-748, BR-749, BR-750, BR-751, BR-752, BR-753, BR-754, BR-755, BR-756, BR-757, BR-758, BR-759, BR-760, BR-761, BR-762, BR-763, BR-764, BR-765, BR-766, BR-767, BR-768, BR-769, BR-770, BR-771, BR-772, BR-773, BR-774, BR-775, BR-776, BR-777, BR-778, BR-779, BR-780, BR-781, BR-782, BR-783, BR-784, BR-785, BR-786, BR-787, BR-788, BR-789, BR-790, BR-791, BR-792, BR-793, BR-794, BR-795, BR-796, BR-797, BR-798, BR-799, BR-800, BR-801, BR-802, BR-803, BR-804, BR-805, BR-806, BR-807, BR-808, BR-809, BR-810, BR-811, BR-812, BR-813, BR-814, BR-815, BR-816, BR-817, BR-818, BR-819, BR-820, BR-821, BR-822, BR-823, BR-824, BR-825, BR-826, BR-827, BR-828, BR-829, BR-830, BR-831, BR-832, BR-833, BR-834, BR-835, BR-836, BR-837, BR-838, BR-839, BR-840, BR-841, BR-842, BR-843, BR-844, BR-845, BR-846, BR-847, BR-848, BR-849, BR-850, BR-851, BR-852, BR-853, BR-854, BR-855, BR-856, BR-857, BR-858, BR-859, BR-860, BR-861, BR-862, BR-863, BR-864, BR-865, BR-866, BR-867, BR-868, BR-869, BR-870, BR-871, BR-872, BR-873, BR-874, BR-875, BR-876, BR-877, BR-878, BR-879, BR-880, BR-881, BR-882, BR-883, BR-884, BR-885, BR-886, BR-887, BR-888, BR-889, BR-890, BR-891, BR-892, BR-893, BR-894, BR-895, BR-896, BR-897, BR-898, BR-899, BR-900, BR-901, BR-902, BR-903, BR-904, BR-905, BR-906, BR-907, BR-908, BR-909, BR-910, BR-911, BR-912, BR-913, BR-914, BR-915, BR-916, BR-917, BR-918, BR-919, BR-920, BR-921, BR-922, BR-923, BR-924, BR-925, BR-926, BR-927, BR-928, BR-929, BR-930, BR-931, BR-932, BR-933, BR-934, BR-935, BR-936, BR-937, BR-938, BR-939, BR-940, BR-941, BR-942, BR-943, BR-944, BR-945, BR-946, BR-947, BR-948, BR-949, BR-950, BR-951, BR-952, BR-953, BR-954, BR-955, BR-956, BR-957, BR-958, BR-959, BR-960, BR-961, BR-962, BR-963, BR-964, BR-965, BR-966, BR-967, BR-968, BR-969, BR-970, BR-971, BR-972, BR-973, BR-974, BR-975, BR-976, BR-977, BR-978, BR-979, BR-980, BR-981, BR-982, BR-983, BR-984, BR-985, BR-986, BR-987, BR-988, BR-989, BR-990, BR-991, BR-992, BR-993, BR-994, BR-995, BR-996, BR-997, BR-998, BR-999, BR-1000.

PAD	LENGTH	WIDTH	HEIGHT	NO. SHIMS	SHIM SIZE	SPAN RANGES	MAXIMUM REACTION	MAXIMUM MOVEMENT ONE DIRECTION
A1	48"	28"	16"	2	1/2" x 3/4"	20' - 36'	55 KIPS	0.39"
D1	48"	28"	16"	3	1/2" x 3/4"	40' - 76'	75 KIPS	0.60"
C1	48"	28"	20"	4	1/2" x 3/4"	80' - 100'	89 KIPS	1.02"
A2	48"	16 1/2"	16"	2	1/2" x 3/4"	20' - 36'	20 KIPS	0.39"
D2	48"	16 1/2"	16"	3	1/2" x 3/4"	40' - 76'	38 KIPS	0.60"
C2	48"	16 1/2"	20"	4	1/2" x 3/4"	80' - 100'	45 KIPS	1.02"

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

WYCO HOLLOW ARCH
OVER
ALLEN CREEK

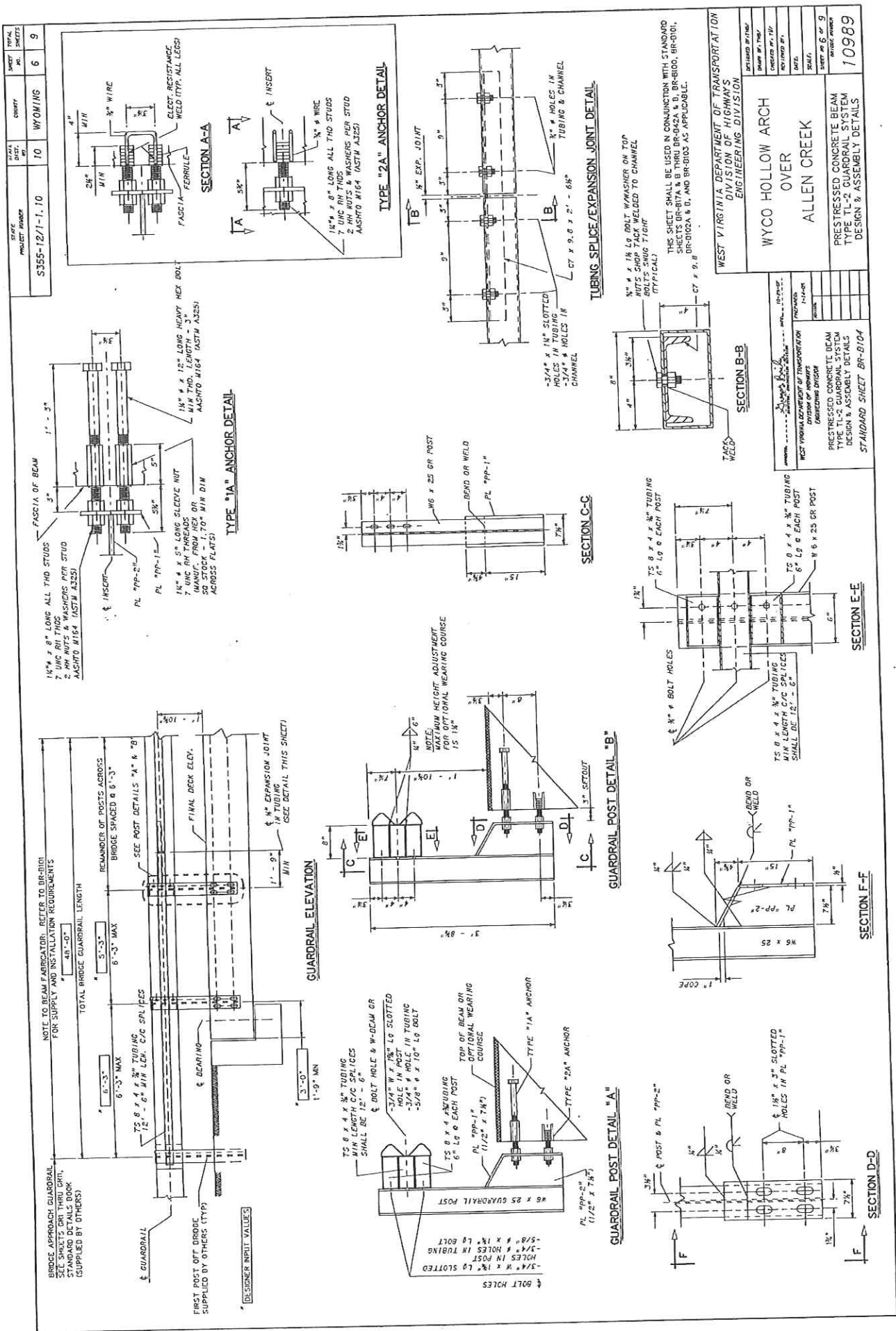
DESIGNED BY: TERRY
DRAWN BY: TERRY
CHECKED BY: TERRY
APPROVED BY: TERRY
DATE:
SCALE:
SHEET # OF 9
PROJECT NO.
10989

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

STANDARD SHEET BR-B102B

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

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



STATE PROJECT NUMBER	DIST. NO.	COUNTY	SHEET NO.	TOTAL SHEETS
S355-12/1-1-10	10	WYOMING	6	9

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

WYCOO HOLLOW ARCH
OVER
ALLEN CREEK

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

DESIGNER	CHECKER	DATE

SCALE	PROJECT NO.	SHEET NO.	TOTAL SHEETS

10989

STATE PROJECT NUMBER 10 10 WYOMING 9 9

S355-12/1-1. 10

MIN. CONCRETE STRENGTH @ RELEASE - 5500 PSI
 MIN. CONCRETE STRENGTH @ 28 DAYS - 8000 PSI
 INITIAL PULL-STRAND - 33,820 LBS
 CROSS-SECTION AREA/STRAND - 0.67 SQ. IN.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ENGINEERING DIVISION

WYCO HOLLOW ARCH
 OVER
 ALLEN CREEK

DESIGN TABLE FOR 17"
 PRESTRESSED BOX BEAM

STANDARD SHEET BR-817B

10989

DESIGN DATA FOR 17" DEPTH ADJACENT BOX BEAM

SPAN LENGTH @ TO & BEARING	30'-0"		30'-6"		31'-0"		31'-6"		32'-0"		32'-6"		33'-0"		33'-6"		34'-0"		34'-6"		35'-0"		
	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50		
OVERALL LENGTH OF BEAM	30'-0"	30'-6"	31'-0"	31'-6"	32'-0"	32'-6"	33'-0"	33'-6"	34'-0"	34'-6"	35'-0"	35'-6"	36'-0"	36'-6"	37'-0"	37'-6"	38'-0"	38'-6"	39'-0"	39'-6"	40'-0"	40'-6"	
NO. OF 20 #5, 8" # 4 LONG RELAXATION STRANDS, AREA/STRAND - 0.67 SQ. IN.	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	16	
ROW 1	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	1200E	
ROW 2	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	1700E	
ROW 3																							
ROW 4	31.74	32.34	32.94	33.54	34.14	34.74	35.34	35.94	36.54	37.14	37.74	38.34	38.94	39.54	40.14	40.74	41.34	41.94	42.54	43.14	43.74	31.74	
PRESTRESSING FORCE IMMEDIATELY AFTER STRAND RELEASE (KIP INP/BEAM)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	50	
EFFECTIVE PRESTRESSING FORCE AFTER ALL LOSSES (KIP INP/BEAM)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	50	
REQUIRED FACTORED MOMENT @ STRENGTH I, IN (FT-KIPS/BEAM)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	50	
FACTORED FLEXURAL RESISTANCE BY (FT-KIPS/BEAM)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	646	
TOTAL NO. DESIGNED STRANDS																							
DESIGNED STRAND POSITION INCLUDING LENGTH FROM EACH END																							
NUMBER & LENGTH @ LT TOP TENSION BARS @ EACH END	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	3-44	
NUMBER & LENGTH @ BT BOTTOM TENSION BARS @ EACH END	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	2-15	3-44	
DESIGN CAMBER POSITIVE (IN)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
NO. OF INSERTS NEAR END OF BEAM TO 1/4 OF FIRST INSERT	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	
NUMBER & SPACING OF T/S GUARDRAIL INSERTS	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	
SEE NOTE 6																							
WEIGHT OF TYPICAL BEAM INCLUDING DAMPPACK (TENS)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	

NOTES:

1. BEAM WEIGHTS LISTED IN THE DESIGN TABLE ARE BASED ON ZERO SKEW, 2 FT. LONG ENDOCK AND DAMPPACK SPACING IS 15 FT. C/C. WEIGHTS FOR SKEWED BEAMS, LONGER ENDOCKS AND ADDITIONAL DAMPPACKS SHOULD BE ADJUSTED APPROPRIATELY.
2. DESIGNERS SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON EVEN SPAN LENGTHS. A TWO LANE STRUCTURE WITH BEAMS WIDE AND ZERO SKEW, SUPERIMPOSED DEAD LOADS INCLUDE TYPE F PAVEMENT (3.5 FT. L/A) AND A P/S OF 50 PSF. FOR NON-STANDARD BRIDGES DATA SHOULD BE OBTAINED AND IF REQUIRED NEW DESIGN DATA ENTERED INTO BEAM COLUMNS. IN NO CASE SHALL THE STANDARD DESIGN TABLE BE ALTERED.
3. PREDICTED DESIGN CAMBER VALUES LISTED IN THE TABLE ARE BASED ON BEAM/SPAN RATIO. THE TOLERANCE VALUES LISTED IN APPENDIX B OF THE MANUAL FOR QUALITY CONTROL (MHC-16) MAY NOT APPLY. MEASUREMENT OF CAMBER FOR COMPARISON TO PREDICTED DESIGN VALUES SHOULD BE COMPLETED WITHIN 72 HOURS OF RELEASE. ADDITIONALLY CAMBER SHOULD BE EVALUATED UNDER CONDITIONS THAT MINIMIZE THE EFFECT OF THERMAL CURING SHRINKAGE.
4. DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKEWED END BEAMS MAY TWIST OR WARP, CAUSING UNIFORM BEAM SEATING AT THE BEARINGS. THE CONTRACTOR IS REQUIRED TO CORRECT AT THE TIME OF ERECTION, BEFORE THE BEAMS ARE CAST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATOR SHALL NOTIFY THE CONTRACTOR AND DESIGNER IF CORRECTIONS ARE REQUIRED PRIOR TO SHIPMENT.
5. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
6. SPACING OF BEAMS OF INSERTS, DISTANCE FROM END OF BEAM TO 1/4 FIRST INSERT AND 1/4 FIRST INSERT TO 1/4 SECOND INSERT, ABOVE VALUES SHALL BE BASED ON THE REQUIRED 6'-3" GUARDRAIL POST SPACING ACROSS THE BRIDGE.
7. SPECIAL STRAND NOTE FOR 17" BOX SECTION ONLY. WHEN T/S GUARDRAIL INSERTS ARE REQUIRED THE BOTTOM INSERT TYPE 2A ANCHOR CONFLICTS WITH STRAND NO. 15. STRANDS 15 AND 16 HAVE BEEN MOVED TO POSITIONS 17 AND 18. FOR UNIFORMITY PURPOSES, ALL BEAMS OF THE SAME DESIGN SHALL USE SAME STRAND PATTERN.
8. THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-817A, BR-817B, BR-817C, BR-817D & B, BR-817E, BR-817F & B AND BR-817G AS APPLICABLE.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ENGINEERING DIVISION

DESIGN TABLE FOR 17"
 PRESTRESSED BOX BEAM

STANDARD SHEET BR-817B

10989

Cost Sheet
RFQ #: 10120024

Item Number	Quantity	Description	Unit Price	Amount
1	622.5 S.F.	17" PRESTRESSED CONCRETE BOX BEAM	37.50	23,343.75
2	249 S.F.	17" PRESTRESSED CONCRETE BOX BEAM	37.50	9,337.50
3	14 EA	SKEWED END 17" BOX BEAM	50.00	700.00
4	16 EA	ELASTOMERIC BEARING PADS	200.00	3,200.00
5	14 EA	SWEDGED ANCHOR BOLT OR #8 GALVANIZED DEFORMED REBAR	20.00	280.00
6	14 EA	GUARDRAIL ATTACHMENT ASSEMBLY FOR BOX BEAMS	250.00	3,500.00
7	98 LF	1" DIAMETER POST TENSIONING BAR WITH NUTS AND WASHERS	20.00	1,960.00
8	8 EA	9" X 9" X 1" PLATES	60.00	480.00
9	14 EA	TYPE TL-2 BRIDGE GUARDRAIL POSTS, INSTALLED	400.00	5,600.00
10	96 LF	TYPE TL-2 BRIDGE GUARDRAIL INSTALLED	100.00	9,600.00
11	28 SF	2" THICK SPONGE RUBBER PREFORMED JOINT FILLER 22 LF @ 6-5/8" WIDE = 12.1 SF/END, 25 SF TOTAL 3.5 LF @ 4-3/4" WIDE = 1.4 SF/END, 3 SF TOTAL	20.00	560.00
12	74 SF	1" THICK SPONGE RUBBER PREFORMED JOINT FILLER 50' X 17-3/4" WIDE	10.00	740.00

TOTAL AMOUNT

\$59,301.25

State of West Virginia
VENDOR PREFERENCE CERTIFICATE

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

1. Application is made for 2.5% resident vendor preference for the reason checked:

- ____ Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
 ____ Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
 ____ Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,

2. Application is made for 2.5% resident vendor preference for the reason checked:

- ____ Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,

3. Application is made for 2.5% resident vendor preference for the reason checked:

- ____ Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,

4. Application is made for 5% resident vendor preference for the reason checked:

- Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,

5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

- ____ Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,

6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

- ____ Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

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

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

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

Bidder: Carr Concrete Corp. Signed: Robert "Burr" Starley
 Date: 8/18/11 Title: Project Manager

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

RFQ No. 10120024

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

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

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Carr Concrete Corp.

Authorized Signature: Robert "Burr" Stanley Date: 8/18/11

State of WV

County of Wood, to-wit:

Taken, subscribed, and sworn to before me this 18 day of August 2011

My Commission expires 2/8, 2020

AFFIX SEAL HERE

NOTARY PUBLIC

Wendi Kapraun

