



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
06900286

PAGE
1

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

V
E
N
D
O
R

*709055926 304-464-4441
CARR CONCRETE CORPORATION
PO BOX 265

WAVERLY WV 26184-0265

S
H
I
P
T
O

DIVISION OF HIGHWAYS
JOBSITE
SEE SPECIFICATIONS

DATE PRINTED 05/10/2009	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
-----------------------------------	---------------	----------	--------	---------------

BID OPENING DATE: **05/27/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		210-16		\$126,460.00
<p>1956 SF OF 42" DEEP PRESTRESSED CONCRETE BEAMS</p> <p>TO PROVIDE DEEP PRESTRESSED CONCRETE BEAMS WITH ACCESSORIES FOR STATE PROJECT S348-7-10.47, SUGAR CREEK BRIDGE PER THE ATTACHED SPECIFICATIONS.</p> <p>CLARIFICATION OF ATTACHED PLANS:</p> <p>BRIDGE GUARDRAIL IS TO BE SPACED 6'-3" NOT 3'-1 1/2"</p> <p>PLEASE CALL 24 HOURS BEFORE ANY DELIVERY @ 304-843-3656</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1</p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p>						

RECEIVED

2009 MAY 26 A 9:43

PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Robert "Burr" Stantley</i>	TELEPHONE 1-304-464-4441	DATE 5/22/09
TITLE Project Manager	FEIN Carr Concrete Corp.	ADDRESS CHANGES TO BE NOTED ABOVE

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

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

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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
06900286

PAGE
2

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

*709055926 304-464-4441
 CARR CONCRETE CORPORATION
 PO BOX 265

WAVERLY WV 26184-0265

VENDOR

SHIP TO

DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/10/2009				

BID OPENING DATE: 05/27/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;"> <i>Robert "Burr" Stortz</i> SIGNATURE <i>Carr Concrete Corp.</i> COMPANY <i>5/22/09</i> DATE </p> <p>REV. 11/96</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;"> DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 </p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>Project Manager</i>	1-304-464-4441	5/22/09
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
	Carr Concrete Corp.	

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



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
06900286

PAGE
3

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

SUPPLIER

*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
05/10/2009				

BID OPENING DATE: **05/27/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 33</p> <p>RFQ. NO.: 06900286</p> <p>BID OPENING DATE: 5/27/09</p> <p>BID OPENING TIME: 1:30 pm</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 1-304-464-4441</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): Robert E. Stanley Jr.</p> <p>***** THIS IS THE END OF RFQ 06900286 ***** TOTAL: <u>\$126,460.00</u></p>						

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

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

1. DESCRIPTION

The beams shall be 42" deep X 36" wide X 81'-6" long.

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

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

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

2. ACCEPTANCE

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

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

3. DELIVERY

ALL BEAMS AND ACCESSORIES SHALL BE DELIVERED TO THE PROJECT SITE DURING THE WEEK OF JULY 20, 2009.

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

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

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

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

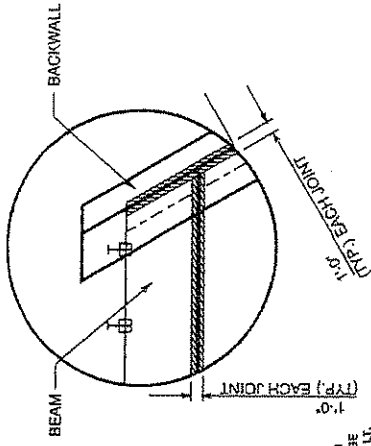
4. PARTIAL PAYMENT OF APPROVED BEAMS

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

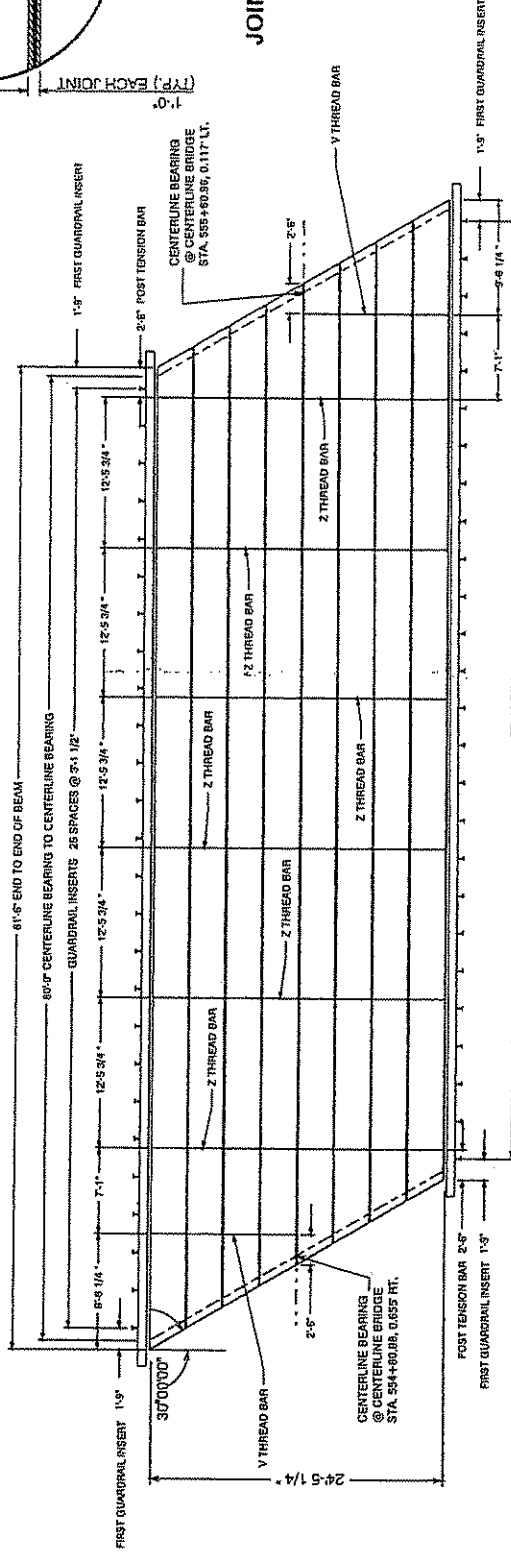
- a. The vendor must request partial payment and furnish an official invoice for the manufactured and approved beams.
- b. The partial payment invoice shall be accompanied by a surety bond equal to the invoiced amount guaranteeing delivery of all items specified on the Purchase Order.
- c. The vendor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

NO.	DATE	BY	CHKD.	APP.	REVISION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

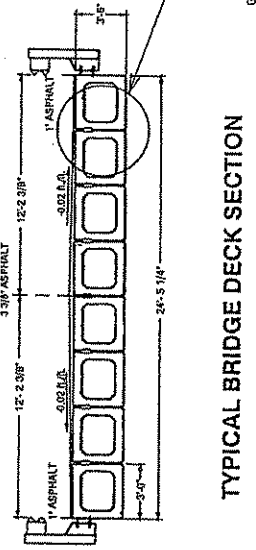
Butyl Waterproofing Membrane
12" Wide Centered Along Full
Length of Beam & Backwall



JOINT WATERPROOFING DETAIL



DECK PLAN



TYPICAL BRIDGE DECK SECTION

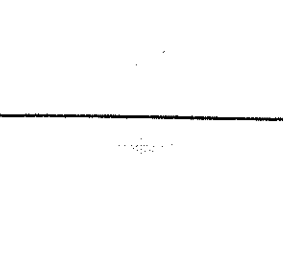
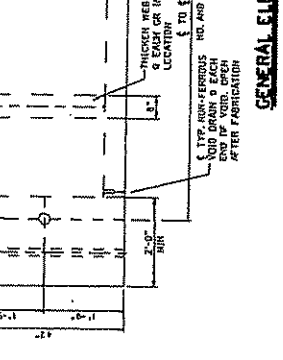
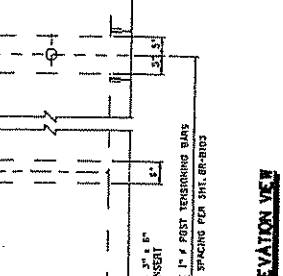
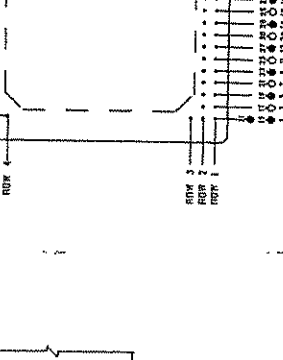
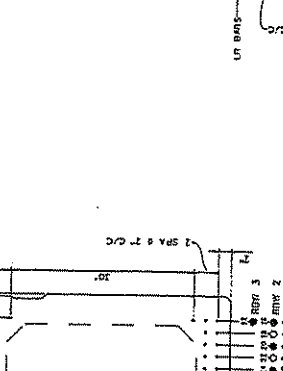
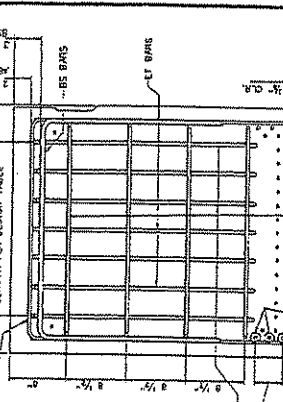
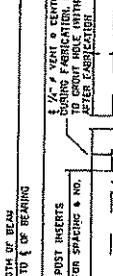
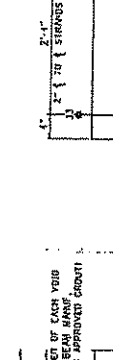
Grout stop must be removed and
grout inspected for voids prior to
post-tensioning. Any voids deeper
than 2" from the bottom of the beams
must be re-grouted in a manner
acceptable to the project engineer.

NO.	DATE	BY	CHKD.	APP.	REVISION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
C.R. 17
TULSA COUNTY
BEAM LAYOUT

PROJECT NUMBER	SECTION	COUNTY	TYPICAL	SHEET NO.	TOTAL
STATE	10A-4T	6	TYLER	12	21

1. LIT BARS & EQUAL SPACES
 2. LIT LENGTH OF BEAM MINUS 2" ±
 LENGTH PER DESIGN TABLE



NOTES:
 1. REFER TO SHEET BR-BR024 FOR SHEAR KEY DETAILS.
 2. DESIGNER SHALL USE THE FOLLOWING KEY TO INDICATE STRANDS IN ROWS 3 AND 4 SHALL BE ELIMINATED THE BEAM SHALL BE REINFORCED AS NECESSARY.
 3. ACTIVE STRAND
 4. BEARING STRAND LENGTH FROM END OF BEAM
 5. BEARING STRAND LENGTH FROM END OF BEAM
 THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-401, BR-402, BR-403, BR-404 & BR-405 AS APPLICABLE.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
 TYLER CO. C.R. 7

42" PRESTRESSED CONCRETE
 BOX BEAMS
 DESIGN AND ASSEMBLY DETAILS

STANDARD SHEET BR-802A

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 REVISION BY: [Signature]
 DATE: 02-08
 SCALE: 1/4" = 1'-0"
 SHEET NO. 12 OF 21
 PROJECT NO. 10227

DESIGN DATA FOR 42" DEPTH ADJACENT BOX BEAM

STATE PROJECT NUMBER	WEST VIRGINIA DIST. NO.	COUNTY	SHEET NO. OF SHEETS
5348-7-10-47	46	TYLER	13 OF 37

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

SPAN LENGTH & TO BEARING	75'-0"	80'-0"	85'-0"	90'-0"	95'-0"	100'-0"	105'-0"	110'-0"	115'-0"	120'-0"	125'-0"	130'-0"	135'-0"	140'-0"	145'-0"	150'-0"
OVERALL LENGTH OF BEAM	75'-0"	80'-0"	85'-0"	90'-0"	95'-0"	100'-0"	105'-0"	110'-0"	115'-0"	120'-0"	125'-0"	130'-0"	135'-0"	140'-0"	145'-0"	150'-0"
NO. OF 270 KSI, 5/8" & LOW-RELAXATION STRANDS, AREA/STRAND - 0.167 SQ. IN.	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
STRAND POSITION NUMBER	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

NOTES

- 1. BEAM WEIGHTS LISTED IN THE DESIGN TABLE ARE BASED ON ZERO SKEW, 2 FT LONG ENDOCK AND DIAPHRAGMS SPACED @ 15 FT C/C. WEIGHTS FOR SKEWED BEAMS, LONGER ENDOCKS AND ADDITIONAL DIAPHRAGMS SHOULD BE ADJUSTED ACCORDINGLY.
- 2. DESIGNERS SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON EACH SPAN LENGTH. A TWO LANE STRUCTURE WITH ZERO SKEW, SUPERELEVATED BEAM CROSS SECTION TYPE "F" PARAPET (32) G/F AND A FWS OF 50 PSF. FOR NON-STANDARD BRIDGES DATA SHOULD BE VERIFIED AND IF REQUIRED NEW DESIGN DATA ENTERED INTO BLANK COLUMNS. IN NO CASE SHALL THE STANDARD DESIGN TABLE BE ALTERED.
- 3. PREDICTED DESIGN CAMBER VALUES LISTED IN THE TABLE ARE BASED ON EMPIRICAL FORMULAS AND AS SUCH ARE APPROXIMATE. FOR MEMBERS WITH SPAN-TO-DEPTH RATIOS AT OR EXCEEDING 23, THE TOLERANCE VALUES LISTED IN APPENDIX B OF PCI MANUAL FOR QUALITY CONTROL, MAR-116, MAY BE USED. MEASUREMENT OF CAMBER FOR COMPARISON TO PREDICTED DESIGN VALUES SHOULD BE COMPLETED WITHIN 72 HOURS OF RELEASE. ADDITIONALLY, CAMBER SHOULD BE EVALUATED UNDER CONDITIONS THAT MINIMIZE THE EFFECT OF TEMPERATURE VARIATION.
- 4. DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SHROUD END BEAMS MAY TRIST OR WARP. CAUSING UNSYMMETRIC BEAM SEATING AT THE JOINTS. THESE BEAMS SHOULD BE CORRECTED AT THE TIME OF ERECTION. BEFORE THE BEAMS ARE SECURED IN PLACE, MEASUREMENT SHOULD BE TAKEN AT AN EVEN TOTAL BEARING AND A LEVEL TOP BEAM SURFACE. TOLERANCE AFTER CORRECTIONS SHALL BE 1/4" INCH. THE FABRICATOR SHALL NOTIFY THE CONTRACTOR AND DESIGNER IF CORRECTIONS ARE REQUIRED PRIOR TO SHIPMENT.
- 5. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
- 6. DESIGNER INPUT VALUES OF NUMBER OF INSERTS, DISTANCE FROM END OF BEAM TO 4 FIRST INSERT AND 4 FIRST INSERT TO 4 SECOND INSERT, ABOVE VALUES SHALL BE BASED ON THE REQUIRED P-S QUADRANT. PEST SPACING AGRES TO THE UNIFORM.
- 7. THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-842A, BR-842B, BR-842C, BR-842D, BR-842E, BR-842F, BR-842G, BR-842H, BR-842I, BR-842J, BR-842K, BR-842L, BR-842M, BR-842N, BR-842O, BR-842P, BR-842Q, BR-842R, BR-842S, BR-842T, BR-842U, BR-842V, BR-842W, BR-842X, BR-842Y, BR-842Z, BR-842AA, BR-842AB, BR-842AC, BR-842AD, BR-842AE, BR-842AF, BR-842AG, BR-842AH, BR-842AI, BR-842AJ, BR-842AK, BR-842AL, BR-842AM, BR-842AN, BR-842AO, BR-842AP, BR-842AQ, BR-842AR, BR-842AS, BR-842AT, BR-842AU, BR-842AV, BR-842AW, BR-842AX, BR-842AY, BR-842AZ.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ENGINEERING DIVISION

SUGAR CREEK BRIDGE
 OVER SUGAR CREEK
 TYLER CO. C.R. 7

DESIGN TABLE FOR 42" PRESTRESSED BOX BEAM
 STANDARD SHEET BR-842B

10227

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	07-02-07
DESIGN TABLE FOR 42" PRESTRESSED BOX BEAM	
STANDARD SHEET BR-842B	

DATE PROJECT NUMBER	DATE PROJECT NUMBER	DATE PROJECT NUMBER	DATE PROJECT NUMBER	DATE PROJECT NUMBER	SHEET NO.	
					14	14

GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR BRIDGES AND STRUCTURES, PUBLISHED 2004, IS AMENDED BY THE CONTRACT SPECIAL PROVISIONS AND THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

ALL BEAMS ARE DESIGNED IN ACCORDANCE WITH THE ASHTO LFD BRIDGE DESIGN SPECIFICATIONS, DATED 1986 AS AMENDED BY THE 2002 INTERIM SPECIFICATIONS.

DESIGN NOTES

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

- DESIGN LOADS:
 - HS-20 LIVE LOAD IN ACCORDANCE WITH THE ASHTO LFD BRIDGE DESIGN SPECIFICATIONS,
 - FUTURE WEARING SURFACE OF 50 PSF OF ROADWAY.

- TYPE F PARAPET WEIGHING 121 PLF.
- DIAPHRAGM DEAD LOAD NUMBER REQUIRED BASED ON 19'-0" MAX SPACING.
- DESIGN STRENGTH AND UNIT STRESSES:
 - MINIMUM CONCRETE STRENGTH @ STRAND RELEASE _____
 - MINIMUM CONCRETE STRENGTH @ 28 DAYS _____
 - TEMPORARY STRESS LIMITS IN CONCRETE BEFORE LOSSES _____
 - COMPRESSION STRESS LIMIT @ STRAND RELEASE _____
 - TENSION STRESS LIMIT @ STRAND RELEASE _____
 - COMPRESSIVE STRESS LIMITS IN CONCRETE @ SERVICE I AFTER LOSSES:
 - @ FINAL 1 1/2 PSY-UL-LI _____
 - @ FINAL 2 1/2 PSY-DUL-LI _____
 - @ FINAL 3 1/2 PSY-DUL-LI _____
 - @ FINAL 4 1/2 PSY-DUL-LI _____
 - TENSILE STRESS LIMIT IN CONCRETE @ SERVICE III AFTER LOSSES:
 - @ FINAL 1 1/2 PSY-UL-LI _____
 - @ FINAL 2 1/2 PSY-DUL-LI _____
 - @ FINAL 3 1/2 PSY-DUL-LI _____
 - @ FINAL 4 1/2 PSY-DUL-LI _____
 - TENSION STRESS LIMIT PRIOR TO TRANSFER _____
 - TENSION STRESS LIMIT AFTER ALL LOSSES:
 - 202.6 KSI _____
 - 184.4 KSI _____

4. DOWELING OR SHELTERING OF STRANDS TO REDUCE TEMPORARY TENSILE STRESSES IS PERMITTED, HOWEVER DOWELING IS LIMITED TO 40% PER ROW AND 25% TOTAL. IN NO INSTANCES SHALL OUTER STRANDS BE DOWELED. DOWELED STRANDS SHALL BE SEPARATED BY AT LEAST ONE FULLY BONDED STRAND AND SHALL BE SYMMETRICAL ABOUT THE C/G OF THE BEAM.

5. SHELTING OF STRANDS SHALL BE ACCOMPLISHED BY TAPING OR TIGHT FITTING PLASTIC TUBES TAPPED AT EACH END.

6. WHEN ALTERNATE DESIGNS OR SITE SPECIFIC DESIGNS ARE PROVIDED, CRITERIA SET FORTH IN THESE STANDARDS SHALL APPLY.

7. NEGATIVE DESIGN CASTER AFTER ALL LOSSES IS NOT PERMITTED.

8. EACH BEAM PROVIDED IN THESE STANDARD DESIGNS HAS BEEN LOADED IN ACCORDANCE WITH SECTION 5.14 OF THE WEST VIRGINIA DIVISION OF HIGHWAYS BRIDGE DESIGN MANUAL, 2004. ADDITIONALLY, LOAD RATING PROCEDURES ARE IN ACCORDANCE WITH THE ASHTO HANDBOOK FOR CONDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF HIGHWAY BRIDGES, 2003.

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-874 & B THRU BR-874 & B, BR-902A & B, BR-910, BR-920A & B AND BR-900 AS APPLICABLE.

BAR SIZE	NO. 1	NO. 2	NO. 3	NO. 6
SPlice LENGTH	21"	29"	31"	41"

MATERIALS & FABRICATION NOTES

THE PRESTRESSED CONCRETE BEAMS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF SECTION 603 OF THE STANDARD SPECIFICATIONS.

STEEL REINFORCEMENT

- ALL WELD REINFORCING STEEL SHALL BE GRADE 60, DEFORMED RIBBET STEEL, AND SHALL MEET THE REQUIREMENTS OF ASHTO M31. ALL EPOXY COATED REINFORCING SHALL MEET THE REQUIREMENTS OF ASHTO M284, EXCEPT WHERE AMENDED BY SECTION 700.1 OF THE STANDARD SPECIFICATIONS.
- ALL TENSION LAP SPICES SHALL BE CLASS B, CONTACT TYPE, MINIMUM LAP SPICE LENGTH SHALL BE AS GIVEN IN THE LAP SPICE TABLE. THIS TABLE, ADDITIONALLY, IF LAP SPACING OF 12 IN. AND 8 IN. BARS IS USED, TERMINATION OF THE LAPICE SHALL BE NO CLOSER TO THE END OF THE BEAM THAN 1/10 OF THE SPAN LENGTH.
- MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS, EXCEPT THAT NO. 4 BAR BARS MAY HAVE A MINIMUM BEND DIAMETER OF 4 BAR DIAMETERS.
- MINIMUM CONCRETE COVER SHALL BE AS SPECIFIED IN SECTION 603.3 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE NOTED ON THE PLANS.

PRESTRESSING STRANDS

- ALL PRESTRESSING STEEL SHALL BE 1/2" GRADE 270, 7 WIRE UNCOATED, LOW-RELAXATION STRAND MEETING THE REQUIREMENTS OF ASHTO M303, SUPPLEMENT S1.
- ALL BEAMS DESIGNED IN THESE STANDARDS UTILIZE STRANDS WITH A NOMINAL AREA OF 0.187 SQ. IN. STRANDS WITH A NOMINAL AREA OF 0.183 SQ. IN. IS PERMITTED FOR INDIVIDUAL OR ALTERNATE BEARINGS. HOWEVER THE DESIGNER IS ENCOURAGED TO USE THE LARGER STRAND FOR UNIFORMITY REASONS. IN NO CASES WILL STRESS-RELIEVED STRAND BE PERMITTED.
- ALL STRANDS SHALL BE ENCLOSED INSIDE THE STIRRUP CAGE FOR THE FULL LENGTH OF THE BEAM.
- ALL EXPOSED PRESTRESSING STRAND, AT EACH BEAM END SHALL BE SHOP COATED WITH A LIQUID GOLD-APPLIED BUTADIENES ELASTOMERIC WATERPROOFING MEMBRANE. MATERIAL SHALL MEET ASTM C816-04.

SUBJECTED

ALL CONCRETE USED IN MANUFACTURING PRESTRESSED CONCRETE BEAMS SHALL MEET THE REQUIREMENTS OF SECTION 603.6 OF THE STANDARD SPECIFICATIONS. DESIGN STRENGTHS SHALL MEET OR EXCEED THE NOMINAL VALUES SET FORTH IN THESE PLANS.

ELASTOMERIC BEARING PADS

- ALL BEARING PADS SHALL MEET THE APPLICABLE REQUIREMENTS AS SET FORTH IN SECTION 14.2 OF THE ASHTO LFD 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 (ZONE C).
- ALL STEEL REINFORCING SHALL MEET THE REQUIREMENTS OF ASHTO M270, GRADE 36.

QUADRANT CORNERBAR EDGELS, LUBRIC & INSERTS

- ALL BEAM QUADRANT AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH SECTION 7.1.2 OF THE STANDARD SPECIFICATIONS. QUADRANT POSITS, STRUCTURAL TUBING, POST ATTACHMENT INSERTS, AND HARDWARE SHALL MEET THE LISTED MATERIAL AND CONTING SPECIFICATIONS:

ITEM	DESCRIPTION	MATERIAL SPEC.	COATING SPEC.
POST	ASHTO M270, OR 36	ASHTO M270, OR 36	ASHTO M11
TUBING	15 84x3/16	ASTM A500, OR B	ASHTO M11
CHARCEL	C749-8	ASTM M18, OR B	ASHTO M11
FERRULE	TYPE 2A 1/2" x 2 1/2"	ASTM A895 (H117 STEEL)	ASHTO M232
WIRE	1/2" ANCHOR	ASTM A895 (1018 STEEL)	ASHTO M232
STUDS	1/2" x 8" LONG	ASTM A991 (1045 C.D. STEEL)	ASHTO M232
NUTS	1/2" x 8" LONG	ASTM M831, CLASS C	ASHTO M232
COMPLETS	TYPE 1A 1/2" x 5" LONG	ASTM A488 (J214 STEEL)	ASHTO M232
BOLTS	1/2" x 12" LONG	ASTM M64 (TYPE 1, RH)	ASHTO M232
BOLTS	3/4" x 11" LONG	ASTM M64 (TYPE 1, RH)	ASHTO M232
NUTS	3/4"	ASTM M31, CLASS C	ASHTO M232
WASHERS	3/4"	ASTM M53	ASHTO M232
WASHERS	ALL		

BACK LAPPING OF REINFORCEMENT IS NOT PERMITTED. REINFORCING CAGES AND LONGITUDINAL STEEL SHALL BE ACCURATELY TIED WITH APPROVED MEANS TO PREVENT PULLING AND MISALIGNMENT.

ALL WEELDING OF FABRICATED ITEMS, AS SHOWN IN THESE PLANS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ASHTO M505, 2002.

POST-TENSIONING BARS

POST-TENSIONING THREAD BARS SHALL BE ONE INCH DIAMETER, 150 KSI STEEL, AND SHALL CONFORM TO ASHTO M275, TYPE II. STEEL THREADED BARS SHALL BE DESIGNED TO ALLOW THE USE OF HEAVY HEX NUTS AND WASHERS THAT THREAD ONTO THE END OF THE REINFORCEMENTS. HEAVY HEX NUTS AND WASHERS SHALL BE OF A DESIGN AND MATERIAL RECOMMENDED BY THE BAR MANUFACTURER TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFIED MILL TEST REPORTS SHALL BE PROVIDED FOR EACH HEAVY OF STEEL THREADED BARS.

ALL POST-TENSIONING THREADED BARS, NUTS, BEARING PLATES, COMPLIERS, AND ANCHORAGE HARDWARE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASHTO M11. THE GALVANIZING SHALL BE APPROVED QUALITY CONTROL MEASURES TO SAFEGUARD AGAINST HYDROGEN EMBRITTLEMENT. QUALITY CONTROL MEASURES SHALL COMPLY WITH ASTM A-143. CERTIFICATION FOR HOT-DIP GALVANIZING SHALL BE PROVIDED BY THE GALVANIZING PLANT.

ALL POST-TENSIONING BEARING PLATES SHALL CONFORM TO ASHTO M270, GRADE 36.

SHEAR KEY CEMENT

SHEAR KEY CEMENT SHALL BE A GROUT THAT IS RECOMMENDED BY THE MANUFACTURER FOR A FOURABLE GROUT APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA WILL ATTAIN A MINIMUM OF 4500 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 PRE-TEST THE PROPOSED GROUT FOR COMPRESSIVE STRENGTH AT 3 AND 7 DAYS AND SUBMIT THE RESULTS TO THE BRIDGE PROJECT-MANAGER FOR APPROVAL PRIOR TO INSTALLATION OF THE GROUT IN THE STRUCTURE. THE TESTS WILL BE BASED ON A POURABLE CONSISTENCY WITH THE SAME WATER/CEMENT RATIO TO BE USED IN THE STRUCTURE.

THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR EACH PROJECT, THE GROUT PRE-TEST RESULTS OBTAINED IN THE NOTE ABOVE. THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A NEW PRE-TEST AND SUBMISSION FOR APPROVAL UNDER ANY OF THE FOLLOWING CONDITIONS:

- A PERIOD OF 18 MONTHS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.
- CONTRACTOR HAS CHANGED THE GROUT SPECIFICATIONS.
- THE CONTRACTOR ALTERS THE WATER/CEMENT RATIO.
- THE CONTRACTOR CHANGES GROUT MANUFACTURER.

THE CONTRACTOR IS TO COMPLETE THE GROUT STRENGTH TABLE ON BR-810. TEST PROCEDURES FOR DETERMINING THE COMPRESSIVE STRENGTH OF GROUT SHALL USE CORE SPECIMENS IN ACCORDANCE WITH ASTM C109, AS MODIFIED BY ASTM C107, ABOUT TESTING IN ACCORDANCE WITH ASHTO T33 (STANDARD CYLINDER TEST) IS NOT ACCEPTABLE.

ELECTRICAL SURVEILLANCE EQUIPMENT

ELECTRICAL SURVEILLANCE EQUIPMENT SHALL BE INSTALLED BY THE MANUFACTURER AT THE FABRICATION PLANT WITH AN APPROVED CONCRETE SEAL OR WELDER. AN APPROVED LIST OF CONCRETE SEALS ARE ON FILE AT THE WEST VIRGINIA DIVISION OF HIGHWAYS MATERIALS CONTROL. SOIL AND TESTING DIVISION. COVERAGE SHALL INCLUDE TOP AND BOTTOM OF INTERIOR BEAMS AND TOP BOTTOM AND EXTERIOR SIDE OF EXTERIOR BEAM. APPLICATION RATE SHALL BE PER TREATMENT MANUFACTURER'S RECOMMENDATION.

AFTER COMPLETION OF THE SILICATE TREATMENT BY FABRICATOR AND A MINIMUM OF FIVE WORKING DAYS PRIOR TO SHIPMENT OF THE BEAMS, THE FABRICATOR SHALL BE RESPONSIBLE FOR ABRASIVE BLAST CLEANING TO CLEAN WHITE CONCRETE THE INTERIOR SIDES OF BEAMS FOR THE FULL LENGTH. CLEAN WHITE CONCRETE SHALL BEAR REPAIR OF AL. DIRT, GREASE, OIL, AND LOOSE CONCRETE LANTANCE AND PROVIDE A ROUGHENED CONCRETE SURFACE. BLASTING MEDIA SHALL BE APPROVED BY THE DIVISION OF HIGHWAYS.

SHOP DRAWINGS

THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWINGS IN ACCORDANCE WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS DOCUMENTS, 10-102 AND THE STANDARD SPECIFICATIONS. ADDITIONAL INFORMATION IS PROVIDED IN SECTION 7 OF THE BRIDGE DESIGN MANUAL. SHOP DRAWINGS SHALL INCLUDE THE FABRICATOR'S DETAILING PLAN.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ENGINEERING DIVISION		WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ENGINEERING DIVISION	
DATE	10-25-07	DATE	10-25-07
BY	DP-02-07	BY	DP-02-07
CHECKED	DP-02-07	CHECKED	DP-02-07
DATE	10-25-07	DATE	10-25-07

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION
DESIGN & ASSEMBLY NOTES

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO. C.R. 7

PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY NOTES
10227

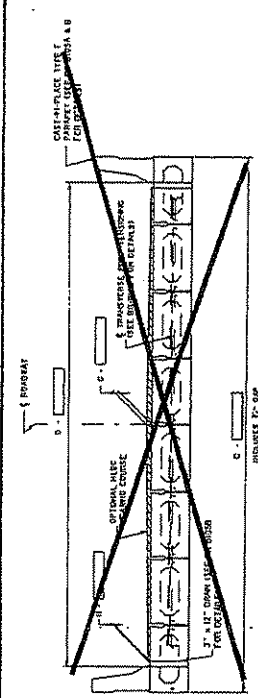
STANDARD SHEET BR-810

SHEET NO.	15	TOTAL SHEETS	27
PROJECT NO.	33AB-1-10-4T	DATE	8/15/87
PROJECT NAME	N/A	BY	TYLER
SCALE	N/A	CHECKED BY	

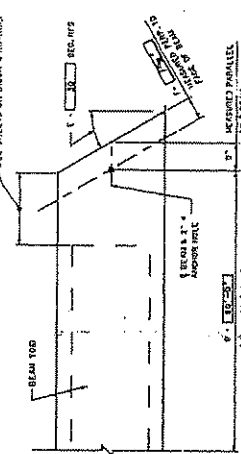
DESCRIPTION	CODE	VALUE
OVERALL BEAM LENGTH	A	81'-0"
SPAN LENGTH, BEARING TO BEARING	B	80'-0"
SUPPORTS TO BE BUILT OUT TO CITY	C	24'-5 1/2"
PROTECTIVE CURB TO BE BUILT OUT TO CITY	D	24'-4 1/2"
NUMBER OF BEAMS REQUIRED		8
BEAM SIZE (WIDTH x HEIGHT)		3'-0" x 42"
TYPE AND SIZE OF PARAPET (NORMAL CONC. OR PRECAST CONCRETE)		1' 30"
TYPE AND SIZE OF CURB (NORMAL CONC. OR PRECAST CONCRETE)		7 1/2"
NUMBER OF BEARING COURSES		YES
NUMBER OF BEARING COURSES TO BE BUILT OUT TO CITY		3 1/2"
NUMBER OF BEARING COURSES TO BE BUILT OUT TO CITY		1"
IS A BEARING COURSE TO BE BUILT OUT TO CITY		YES
IS A BEARING COURSE TO BE BUILT OUT TO CITY		YES
IS A BEARING COURSE TO BE BUILT OUT TO CITY		NO
IS A BEARING COURSE TO BE BUILT OUT TO CITY		26
IS A BEARING COURSE TO BE BUILT OUT TO CITY		NO
IS A BEARING COURSE TO BE BUILT OUT TO CITY		NO
IS A BEARING COURSE TO BE BUILT OUT TO CITY		0
IS A BEARING COURSE TO BE BUILT OUT TO CITY		NO

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

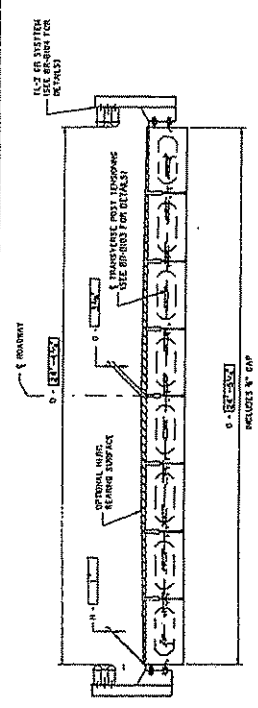
SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO. C.R. 7
PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY NOTES
10227



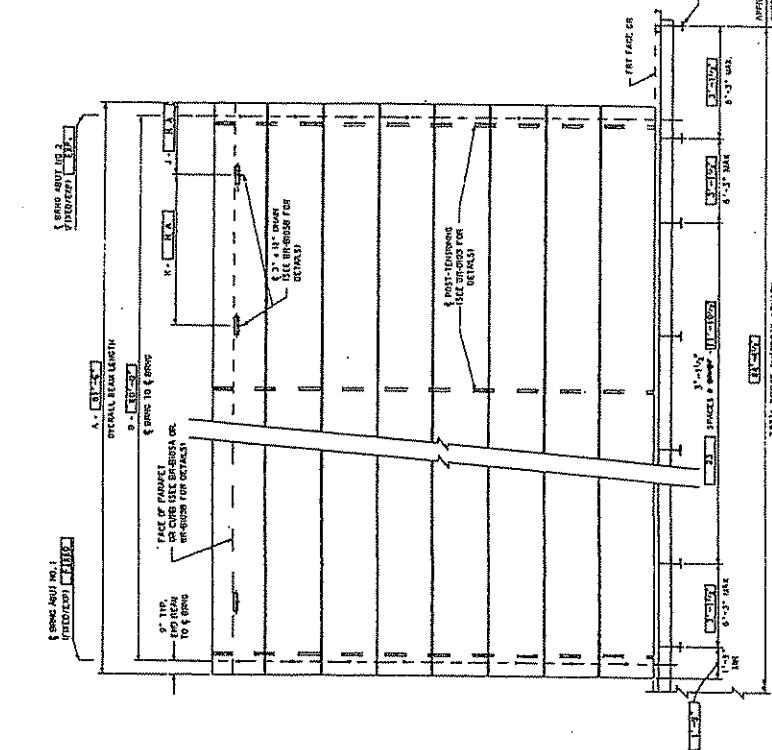
TYPICAL CROSS-SECTION WITH PARAPET OR CURB



BEAM PLAN VIEW - SKEWED ENDS



TYPICAL CROSS-SECTION WITH GUARDRAIL



DECK PLAN VIEW

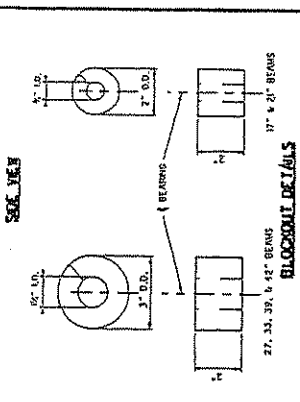
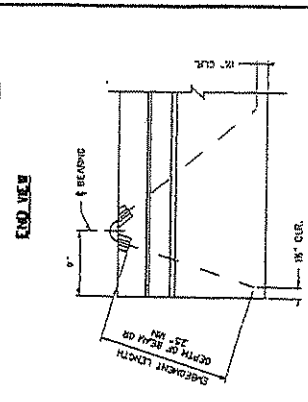
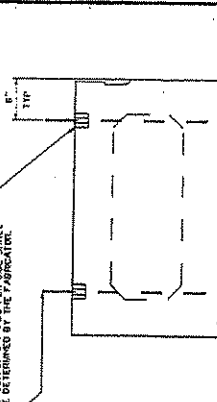
ITEM NO.	DESCRIPTION	UNITS	QUANTITIES
1	PRESTRESSED CONCRETE BOX BEAM	LF	882

DESIGN AND ASSEMBLY NOTES
STANDARD SHEET BR-8101

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

STATE PROJECT NUMBER	CONTRACT NUMBER	DATE	SCALE
37467-10-47	6	15	27

BY 4 STRANDS PER LANE ENLARGED FULLY WITH BOTTOM OF 250 POUNDS WITH 25 INCHES. THE REQUIREMENTS OF SUP-SECT. 715.5.



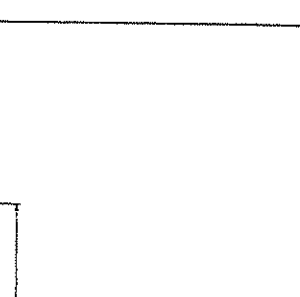
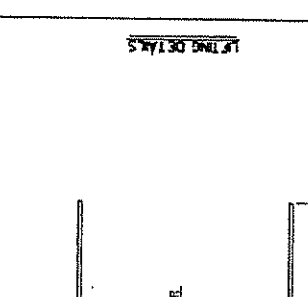
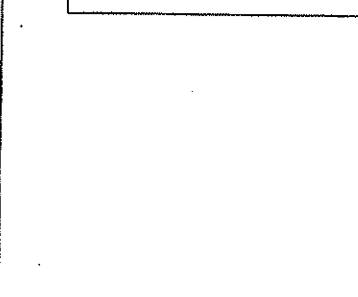
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO. C.R. 7

PRESTRESSED CONCRETE BEAM
SHEWED END REINFORCING
MSC DESIGN AND ASSEMBLY DETAILS

DESIGNED BY: 10/87
CHECKED BY: 11/87
REVIEWED BY: 12/87
DATE: 02-88

SHEET 16 OF 27
PROJECT NO. 10227



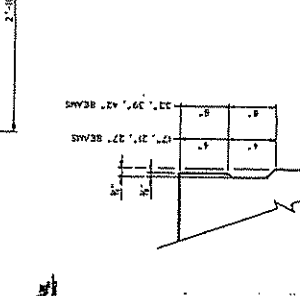
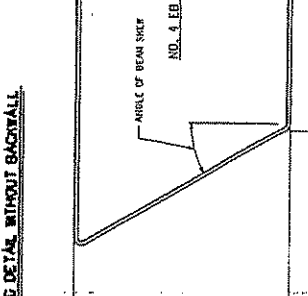
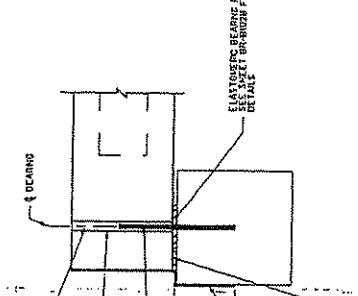
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO. C.R. 7

PRESTRESSED CONCRETE BEAM
SHEWED END REINFORCING
MSC DESIGN AND ASSEMBLY DETAILS

DESIGNED BY: 10/87
CHECKED BY: 11/87
REVIEWED BY: 12/87
DATE: 02-88

SHEET 16 OF 27
PROJECT NO. 10227



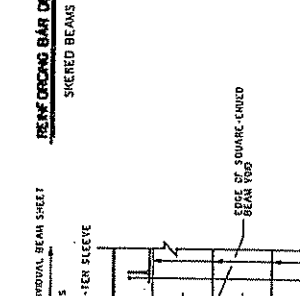
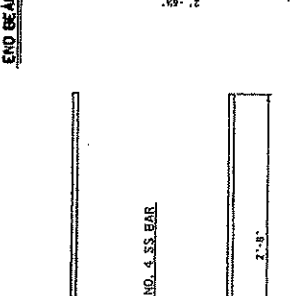
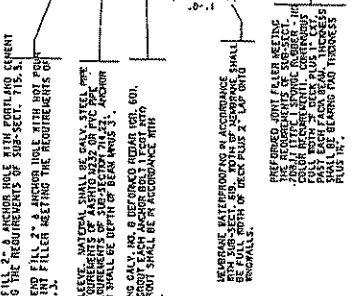
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO. C.R. 7

PRESTRESSED CONCRETE BEAM
SHEWED END REINFORCING
MSC DESIGN AND ASSEMBLY DETAILS

DESIGNED BY: 10/87
CHECKED BY: 11/87
REVIEWED BY: 12/87
DATE: 02-88

SHEET 16 OF 27
PROJECT NO. 10227



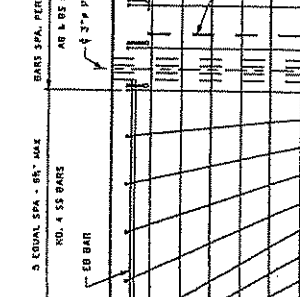
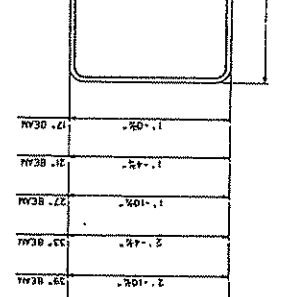
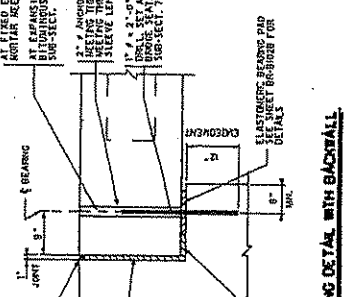
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO. C.R. 7

PRESTRESSED CONCRETE BEAM
SHEWED END REINFORCING
MSC DESIGN AND ASSEMBLY DETAILS

DESIGNED BY: 10/87
CHECKED BY: 11/87
REVIEWED BY: 12/87
DATE: 02-88

SHEET 16 OF 27
PROJECT NO. 10227



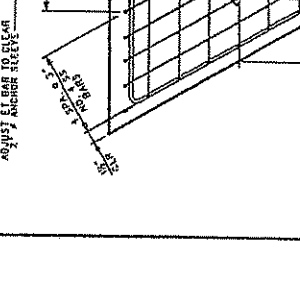
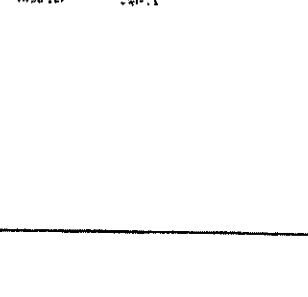
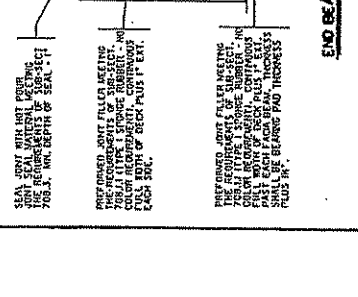
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO. C.R. 7

PRESTRESSED CONCRETE BEAM
SHEWED END REINFORCING
MSC DESIGN AND ASSEMBLY DETAILS

DESIGNED BY: 10/87
CHECKED BY: 11/87
REVIEWED BY: 12/87
DATE: 02-88

SHEET 16 OF 27
PROJECT NO. 10227



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

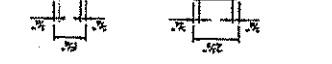
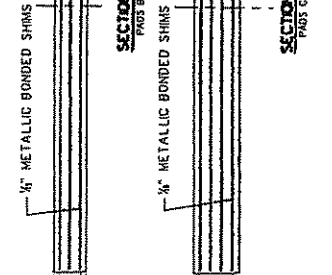
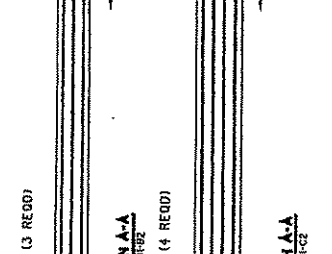
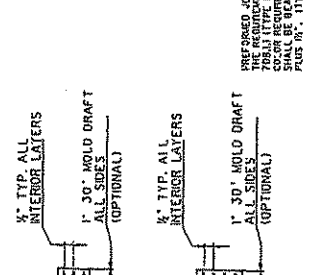
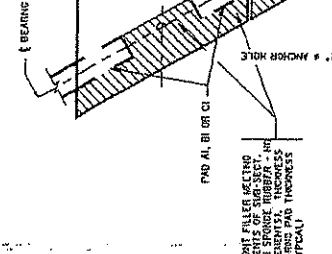
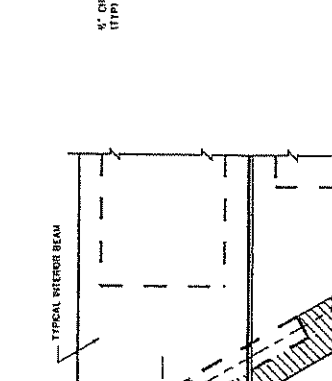
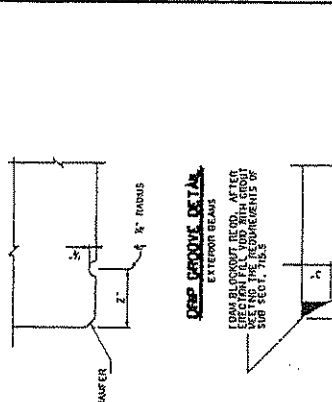
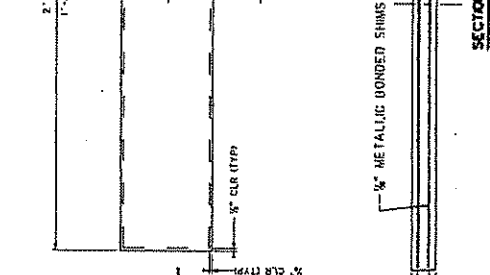
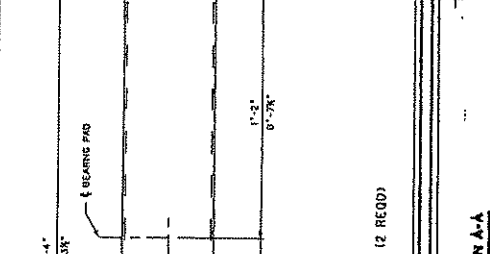
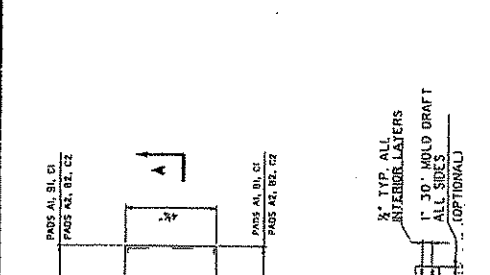
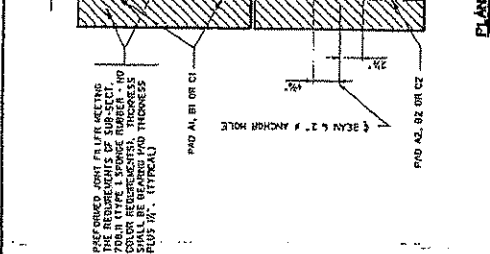
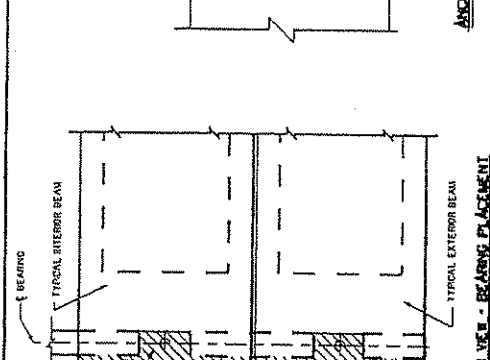
SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO. C.R. 7

PRESTRESSED CONCRETE BEAM
SHEWED END REINFORCING
MSC DESIGN AND ASSEMBLY DETAILS

DESIGNED BY: 10/87
CHECKED BY: 11/87
REVIEWED BY: 12/87
DATE: 02-88

SHEET 16 OF 27
PROJECT NO. 10227

DATE	PROJECT NUMBER	SCALE	DATE	PROJECT	SHEET
1-10-47	548-1-10-47	1/4"	6	TYLER	11
					27



HOLD ANCHOR SLEEVE 3\"/>

PREPARED JOINT FILLERS SETTING THE REQUIREMENTS OF SUB-SECT. 708.11 TYPE I SPONGE RUBBER. JOINT FILLERS SHALL BE BEARING PAD THICKNESS PLUS 1/4\"/>

PAD A1, B1 OR C1

2\"/>

TOP OF BEAM

ANCHOR SLEEVE

NO. 9 DEFORMED ANCHOR BAR

ANCHOR SLEEVE

SLOT IN ANCHOR SLEEVE TO ACCOMMODATE JOINT FILLER. JOINT FILLER TO BE PROTRUSING 1/4\"/>

IF STEEL PIPE IS USED FOR ANCHOR SLEEVE, AN UNWEAR GALVANIZED ANCHOR SLEEVE IS REQUIRED.

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.

1\"/>

DEEP GROOVE DETAIL

EXTERIOR BEAMS

DEEP GROOVE DETAIL

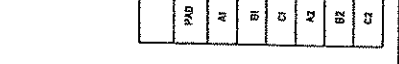
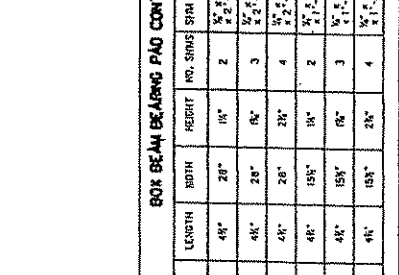
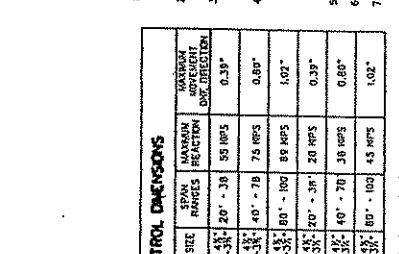
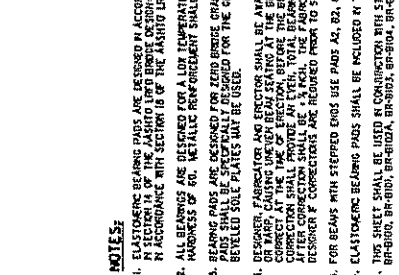
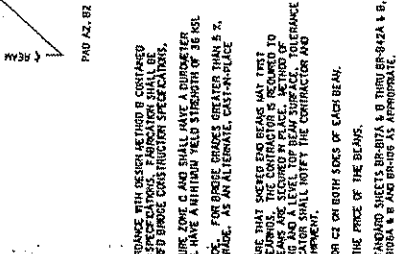
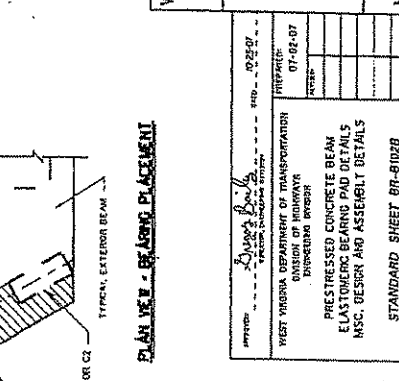
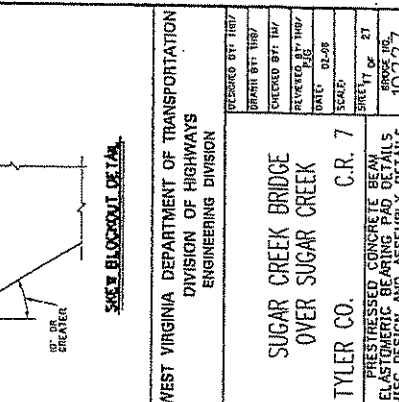
EXTERIOR BEAMS

PREPARED JOINT FILLER SETTING THE REQUIREMENTS OF SUB-SECT. 708.11 TYPE I SPONGE RUBBER. JOINT FILLERS SHALL BE BEARING PAD THICKNESS PLUS 1/4\"/>

PAD A1, B1 OR C1

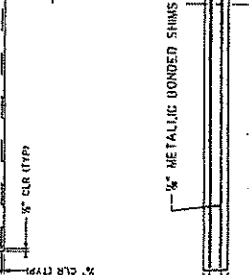
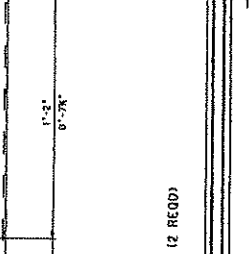
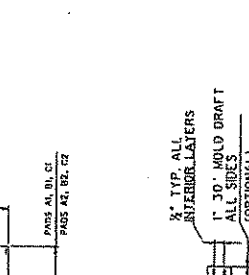
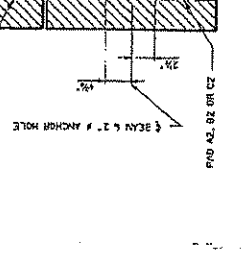
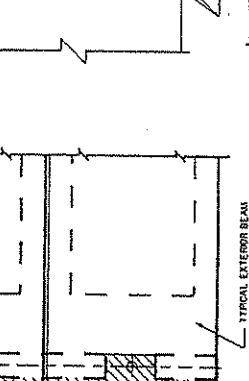
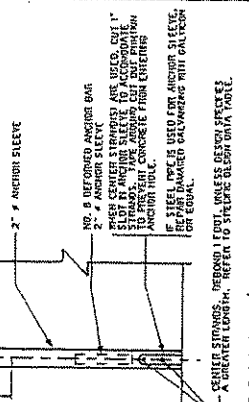
1\"/>

TOP OF BEAM



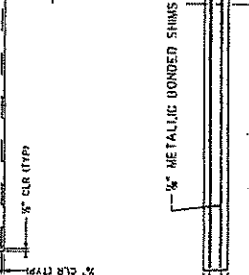
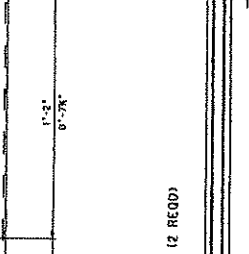
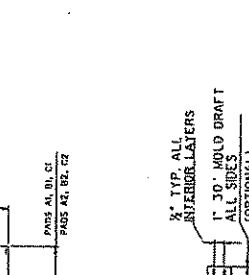
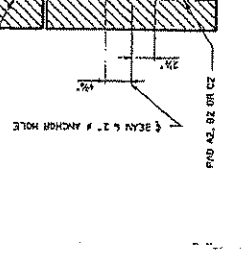
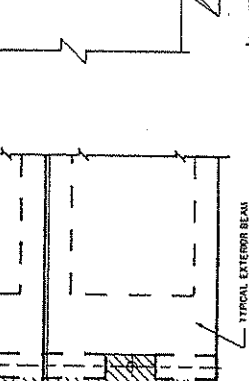
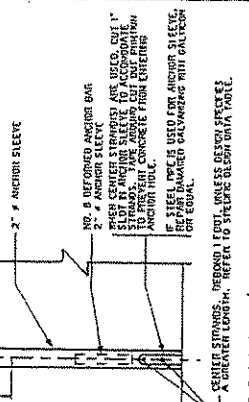
ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.



ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.



ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO.

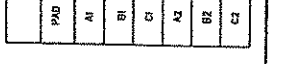
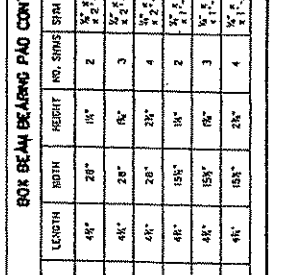
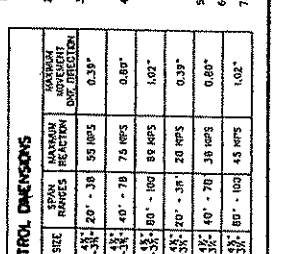
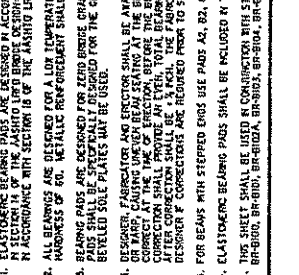
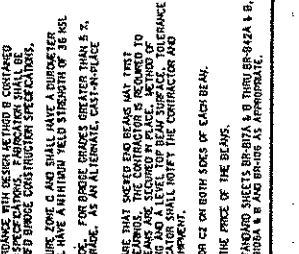
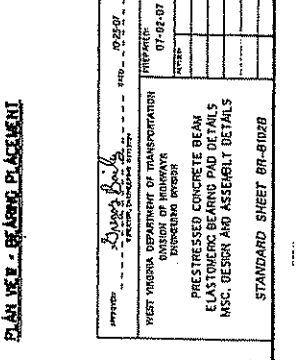
PRESTRESSED CONCRETE BEAM
ELASTOMERIC BEARING PAD DETAILS
MISC. DESIGN AND ASSEMBLY

STANDARD SHEET BR-8102B

C.R. 7
SCALE: 1/4" = 1'-0"

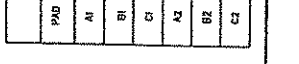
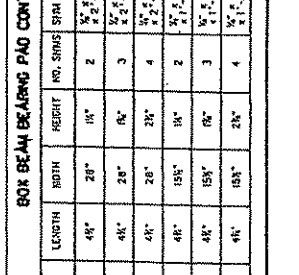
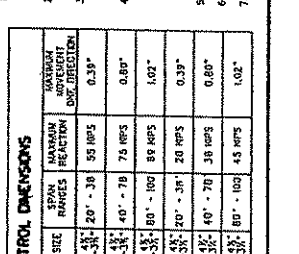
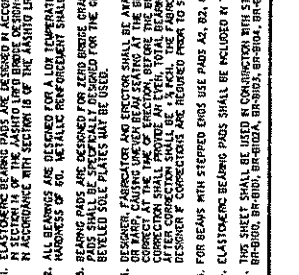
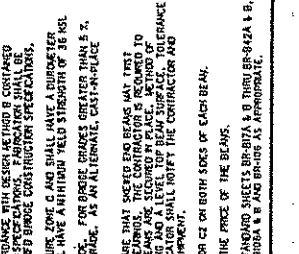
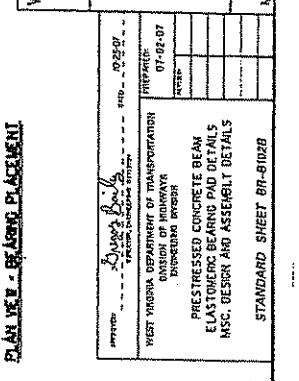
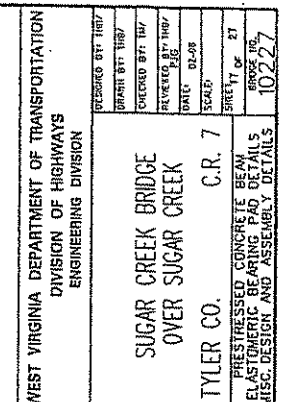
SHEET 11 OF 27

10227



ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.



ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
TYLER CO.

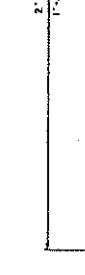
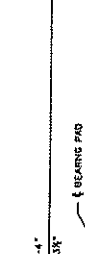
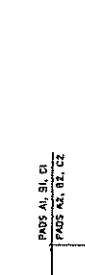
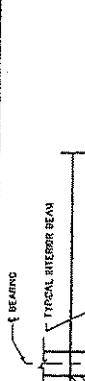
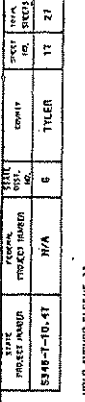
PRESTRESSED CONCRETE BEAM
ELASTOMERIC BEARING PAD DETAILS
MISC. DESIGN AND ASSEMBLY

STANDARD SHEET BR-8102B

C.R. 7
SCALE: 1/4" = 1'-0"

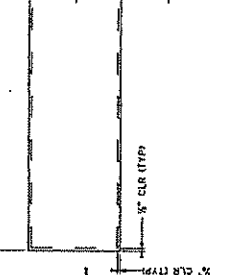
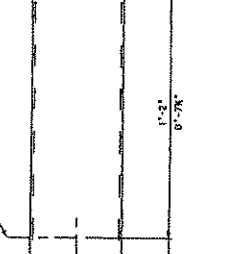
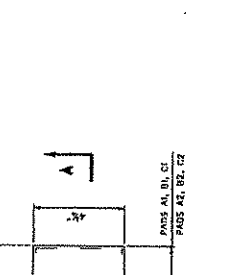
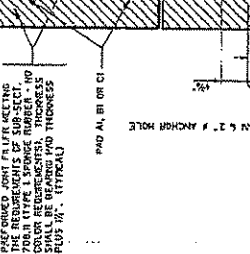
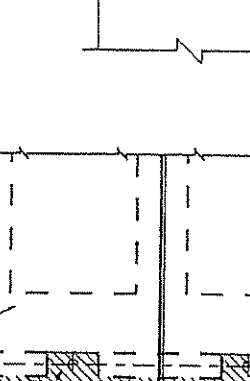
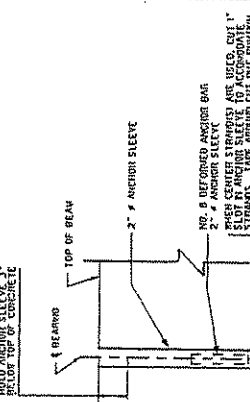
SHEET 11 OF 27

10227



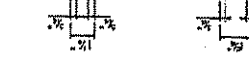
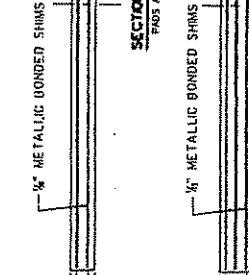
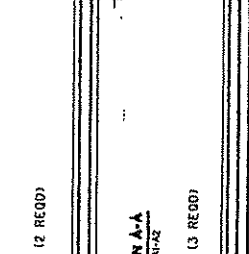
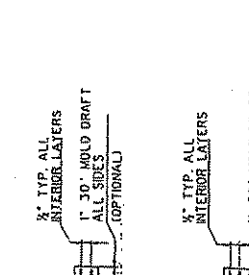
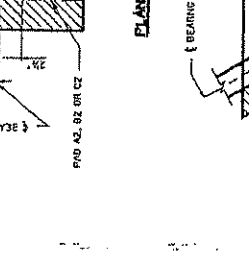
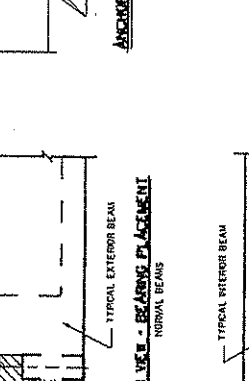
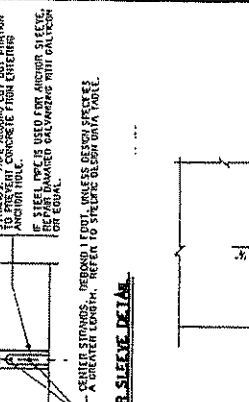
ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.



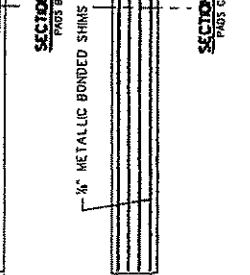
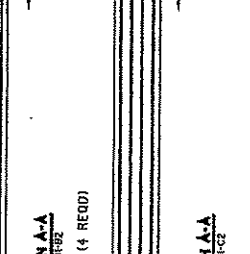
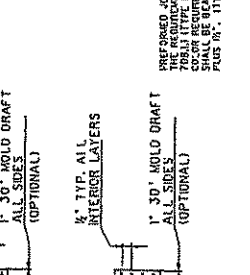
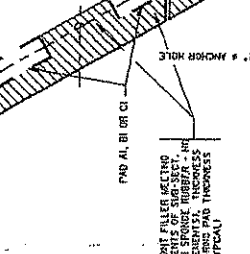
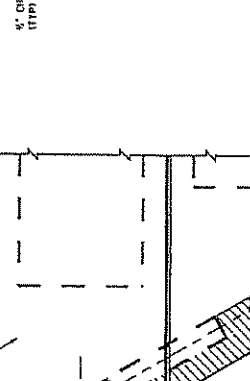
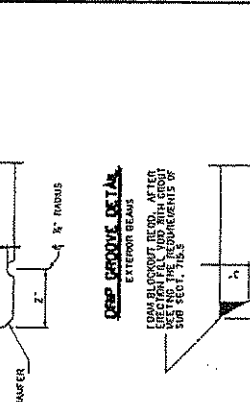
ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.



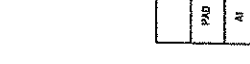
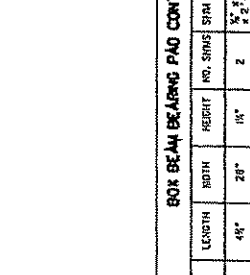
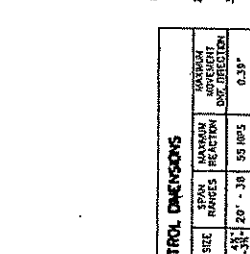
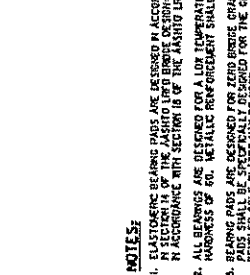
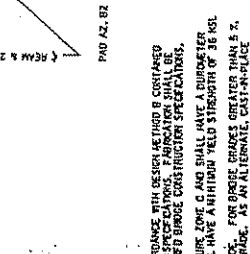
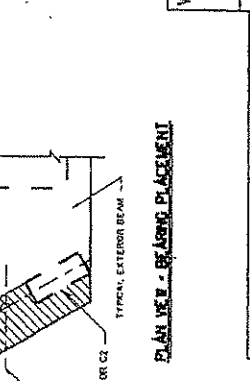
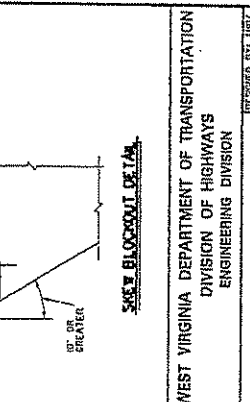
ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.



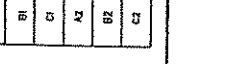
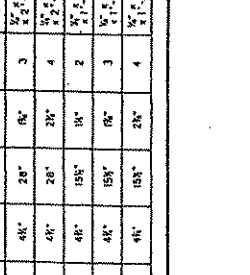
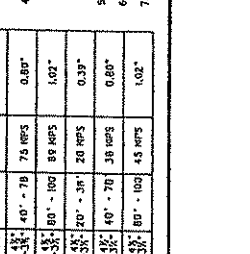
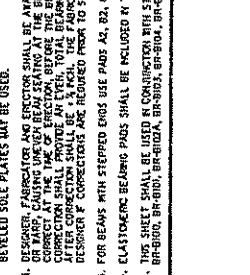
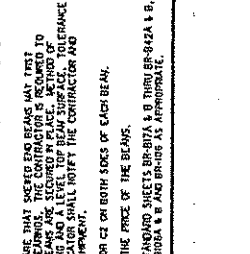
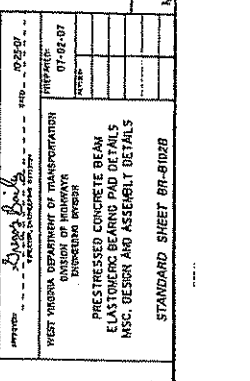
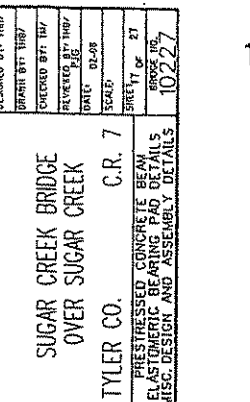
ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.



ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.



ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.

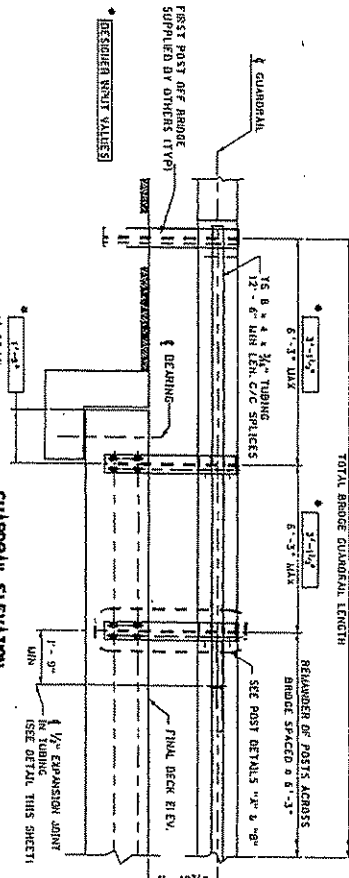


ANCHOR SLEEVE DETAIL

CENTER STIFFING. REFER TO DETAIL, UNLESS DESIGN SPECIFIES A DIFFERENT LENGTH. REFER TO SPECIFICATIONS DETAIL TABLE.

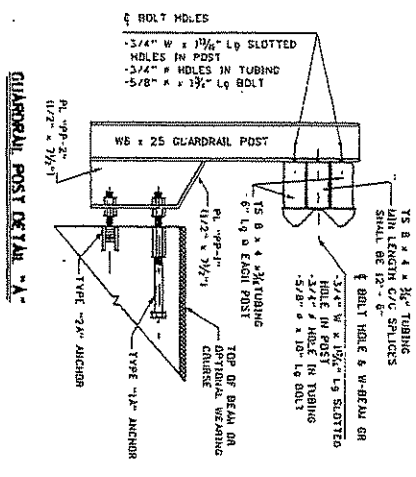
BRIDGE APPROACH GUARDRAIL
SEE SHEETS BR-810U, BR-811
STANDARD DETAILS BOOK
(SUPPLIED BY OTHERS)

NOTE TO BEAM FABRICATOR: REFER TO BR-810U
FOR SUPPLY AND INSTALLATION REQUIREMENTS

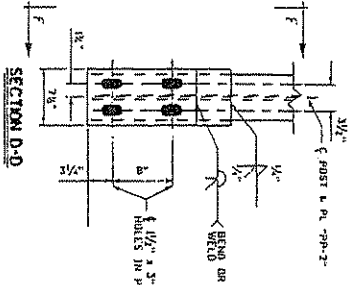


REQUIRED NUT VALUES

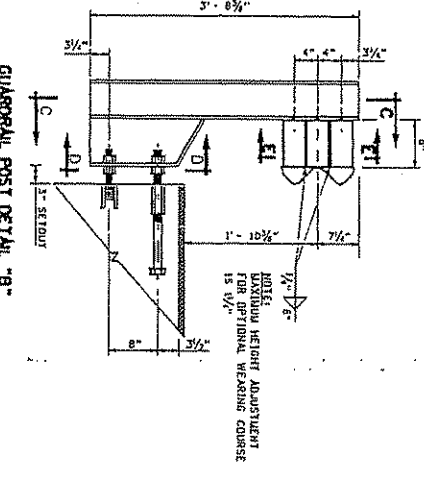
GUARDRAIL ELEVATION



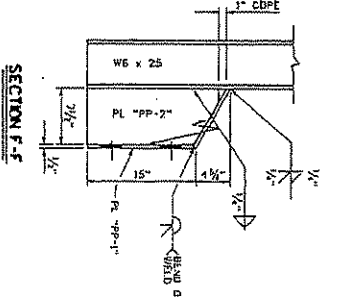
GUARDRAIL POST DETAIL 'A'



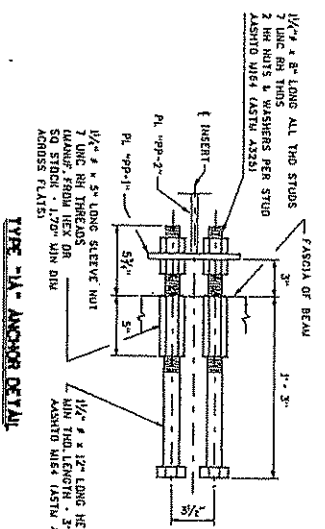
SECTION D-D



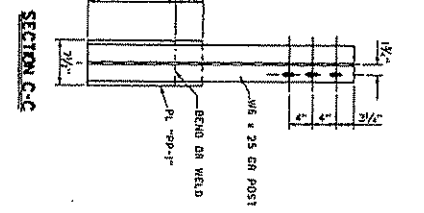
GUARDRAIL POST DETAIL 'B'



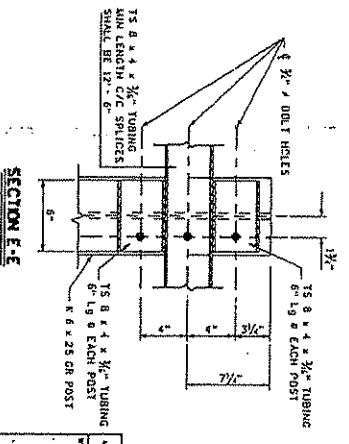
SECTION F-F



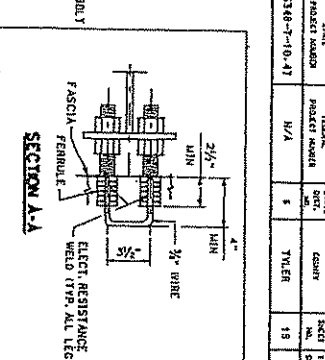
TYPE '1A' ANCHOR DETAIL



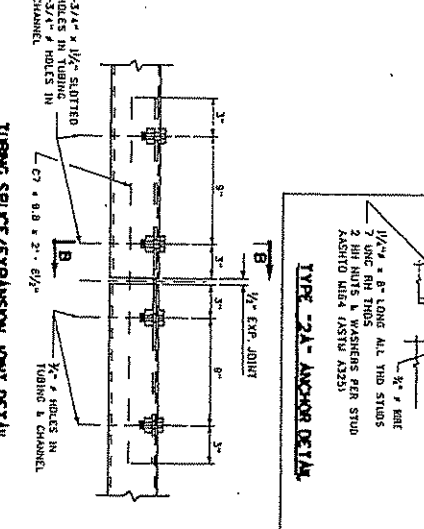
SECTION C-C



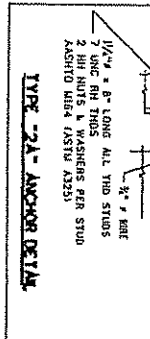
SECTION E-E



SECTION A-A



TUBING SPICE/EXPANSION JOINT DETAIL



TYPE '2A' ANCHOR DETAIL

1/2" x 8" LONG ALL TYP STUDS
7 UNC RH THDS
2 RH NUTS & WASHERS PER STUD
ASHID WIRE (ASTM A325)

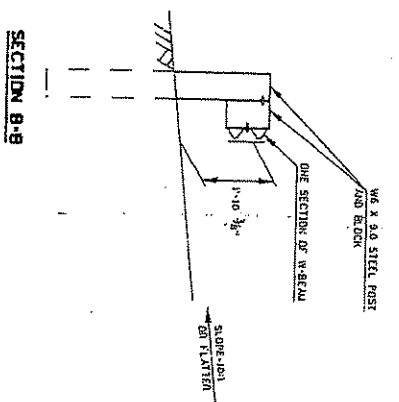
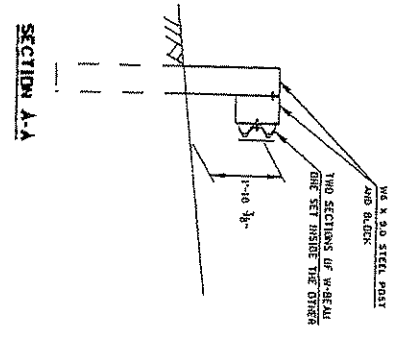
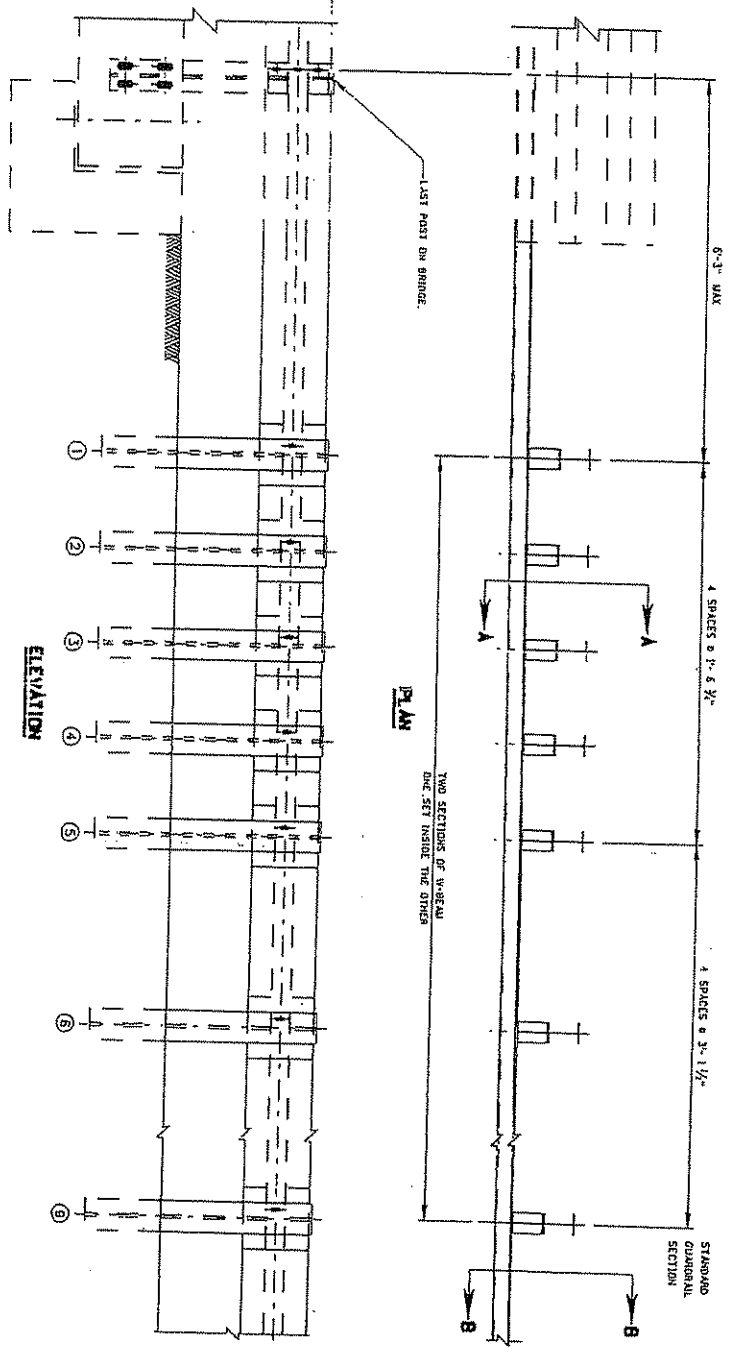
1/2" x 5" LONG SLEEVE NUT
7 UNC RH THREDS
DANGER: FROM HEX OR
SCREW END 20" MIN DIA
AGRESS FLATS

1/2" x 8" LONG ALL TYP STUDS
7 UNC RH THDS
2 RH NUTS & WASHERS PER STUD
ASHID WIRE (ASTM A325)

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK
C.R. 7
PRESTRESSED CONCRETE BEAM
TYPE 11-2 GUARDRAIL SYSTEM
DESIGN & ASSEMBLY DETAILS

NO.	REV.	DESCRIPTION
1	01	ISSUED FOR DESIGN
2	02	REVISED BY TLD
3	03	REVISED BY TLD
4	04	REVISED BY TLD
5	05	REVISED BY TLD
6	06	REVISED BY TLD
7	07	REVISED BY TLD
8	08	REVISED BY TLD
9	09	REVISED BY TLD
10	10	REVISED BY TLD
11	11	REVISED BY TLD
12	12	REVISED BY TLD
13	13	REVISED BY TLD
14	14	REVISED BY TLD
15	15	REVISED BY TLD
16	16	REVISED BY TLD
17	17	REVISED BY TLD
18	18	REVISED BY TLD
19	19	REVISED BY TLD
20	20	REVISED BY TLD
21	21	REVISED BY TLD
22	22	REVISED BY TLD
23	23	REVISED BY TLD
24	24	REVISED BY TLD
25	25	REVISED BY TLD
26	26	REVISED BY TLD
27	27	REVISED BY TLD
28	28	REVISED BY TLD
29	29	REVISED BY TLD
30	30	REVISED BY TLD
31	31	REVISED BY TLD
32	32	REVISED BY TLD
33	33	REVISED BY TLD
34	34	REVISED BY TLD
35	35	REVISED BY TLD
36	36	REVISED BY TLD
37	37	REVISED BY TLD
38	38	REVISED BY TLD
39	39	REVISED BY TLD
40	40	REVISED BY TLD
41	41	REVISED BY TLD
42	42	REVISED BY TLD
43	43	REVISED BY TLD
44	44	REVISED BY TLD
45	45	REVISED BY TLD
46	46	REVISED BY TLD
47	47	REVISED BY TLD
48	48	REVISED BY TLD
49	49	REVISED BY TLD
50	50	REVISED BY TLD
51	51	REVISED BY TLD
52	52	REVISED BY TLD
53	53	REVISED BY TLD
54	54	REVISED BY TLD
55	55	REVISED BY TLD
56	56	REVISED BY TLD
57	57	REVISED BY TLD
58	58	REVISED BY TLD
59	59	REVISED BY TLD
60	60	REVISED BY TLD
61	61	REVISED BY TLD
62	62	REVISED BY TLD
63	63	REVISED BY TLD
64	64	REVISED BY TLD
65	65	REVISED BY TLD
66	66	REVISED BY TLD
67	67	REVISED BY TLD
68	68	REVISED BY TLD
69	69	REVISED BY TLD
70	70	REVISED BY TLD
71	71	REVISED BY TLD
72	72	REVISED BY TLD
73	73	REVISED BY TLD
74	74	REVISED BY TLD
75	75	REVISED BY TLD
76	76	REVISED BY TLD
77	77	REVISED BY TLD
78	78	REVISED BY TLD
79	79	REVISED BY TLD
80	80	REVISED BY TLD
81	81	REVISED BY TLD
82	82	REVISED BY TLD
83	83	REVISED BY TLD
84	84	REVISED BY TLD
85	85	REVISED BY TLD
86	86	REVISED BY TLD
87	87	REVISED BY TLD
88	88	REVISED BY TLD
89	89	REVISED BY TLD
90	90	REVISED BY TLD
91	91	REVISED BY TLD
92	92	REVISED BY TLD
93	93	REVISED BY TLD
94	94	REVISED BY TLD
95	95	REVISED BY TLD
96	96	REVISED BY TLD
97	97	REVISED BY TLD
98	98	REVISED BY TLD
99	99	REVISED BY TLD
100	100	REVISED BY TLD



NOTES

1. THIS GUARDRAIL TRANSITION IS APPROPRIATE FOR CONNECTION TO GUARDRAIL ON BRIDGE.
2. W-BEAM IS NOT BOLTED TO POSTS AT POSTS 2 THROUGH 4 AND POST 5.
3. SEE STANDARD SHEET BR-8104 FOR ANCHOR DETAILS.
4. THERE IS NO SEPARATE PAY ITEM FOR THIS CONNECTION AND ALL COMPONENTS AS DETAILED HEREIN SHALL BE INCLUDED IN THE CONTRACT PRICE FOR GUARDRAIL.

PROJECT NUMBERS		POSTED	COUNTY	SHEET NO.	TOTAL
STATE	FEDERAL	N/A	TYLER	20	21
5148-7-10-47					

THIS SHEET SHALL BE USED IN CONNECTION WITH STANDARD SHEETS BR-812A & B THRU BR-812A & B, BR-810A, BR-810L, BR-812A & B, BR-810S AND BR-810L AS APPLICABLE.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

SUGAR CREEK BRIDGE
OVER SUGAR CREEK

TYLER CO. C.R. 7

STANDARD SHEET BR-810S

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

DATE: 02-08

SCALE: [Blank]

SHEET NO. OF 21
102227

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" Stanley
 Date: 5/22/09 Title: Project Manager

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

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

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

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

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

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. 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>.

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.

Vendor's Name: Carr Concrete Corp.
Authorized Signature: Robert "Burr" Stanley Date: 5/22/09