



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
06800095

PAGE
1

DEC 21 REC'D

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

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
12/20/2007				

BID OPENING DATE: **01/09/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001				570-68		
<p>PRESTRESSED REINFORCED CONCRETE BOX BEAMS</p> <p>PROVIDE PRESTRESSED REINFORCED CONCRETE BEAMS FOR THE WVDDH AT TRADERS FORK ROAD, MP 1.58 WETZEL COUNTY, WV. PER THE ATTACHED SPECIFICATIONS</p> <p>PLEASE CALL 24 HRS. BEFORE ANY DELIVER @ 304-238-1196.</p> <p style="text-align: center;">VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() 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</p> <p>(X) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS 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)</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'



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<p>YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION 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.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>(X) 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;</p> <p>OR</p> <p>() 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 BIDDERS' 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.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH</p>						

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12/20/2007				
BID OPENING DATE: 01/09/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; 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.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND 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.</p> <p>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.</p> <p>BIDDER: <u>Carr Concrete Corp</u></p> <p>DATE: <u>February 4, 2008</u></p> <p>SIGNED: <u>RC "Burr" Starkey</u></p> <p>TITLE: <u>Project Manager</u></p>						

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DATE PRINTED 12/20/2007	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **01/09/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				304-464-4013		
CONTACT PERSON (PLEASE PRINT CLEARLY):						
				Burr Stanley		
***** THIS IS THE END OF RFQ 06800095 ***** TOTAL: _____						

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Item No.	Quantity	Description	Unit Price	Amount												
#1	470	SQ. FT. 12" INTERIOR BEAM, SPAN LENGTH: 22' NO OF BEAMS: 5 13 DEGREE RIGHT FORWARD SKEW	20.90	9823.00												
#2	282	SQ. FT. 12" EXTERIOR BEAM, SPAN LENGTH: 22' NO OF BEAMS: 3 13 DEGREE RIGHT FORWARD SKEW	20.90	5893.80												
#3	16	EA. ADDITIONAL COST FOR SKEWING ONE END OF BEAM	20.00	320.00												
#4	16	EA. ELASTOMETRIC LAMINATED BEARING PADS (60 DURO HARDNESS) 3/4" X 5" X 24"	50.00	800.00												
#5	16	EA, 1" DIAMETER X 2' SWEDGED ANCHOR BOLT OR #8 DEFORMED REINFORCING (GR. 60) BAR	5.00	80.00												
#6	40	SQ. FT. 33/4" THICK SPONGE RUBBER PREFORMED JOINT FILLER (16 PIECES @ 7 1/2" X 48")	6.00	240.00												
#7	54.44	SQ. FT., 1" THICK SPONGE RUBBER PREFORMED JOINT FILLER (16 PIECES @ 10" X 49")	6.00	326.64												
#8	20.00	EACH, GUARDRAIL ATTACHMENT ASSEMBLY FOR 12" PLANK BEAMS (INSTALLED INSERT AND MOUNTING HOLE) (PER ASSEMBLY)	100.00	2000.00												
#9	83.00	FT., 1" DIAMETER POST-TENSIONING THREAD-BAR WITH 2 HEAVY HEX NUTS, COUPLERS AS REQUIRED. (2 @ 13'-7 7/8" & 2 @ 21'-9 3/8")	10.00	830.00												
#10	4.00	EACH, BEARING PLATE 9"x9"x1" THICK (POST TENSION BEAMS)	30.00	120.00												
#11	2.00	EACH, BEARING PLATE 5"x5"x1 1/4" THICK (POST TENSION BEAMS)	15.00	30.00												
#12	200.00	FT., 1" THICK GROUT STOP	1.00	200.00												
#13	14.00	EACH, 1"x8"x8" WASHER SPONGE RUBBER OR EQUAL	6.00	84.00												
TOTAL				\$20,747.44												
<p>ALL ITEMS SHALL MEET THE REQUIREMENTS OF THE "WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2000, AS MODIFIED BY THE JANUARY 1, 2003 SUPPLEMENTAL SPECIFICATIONS.</p> <p>ALL PRESTRESSED CONCRETE BOX SHAPED BEAMS AND ACCESSORIES SHALL BE MANUFACTURED IN ACCORDANCE WITH THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD BRIDGE PLAN SHEETS AS FOLLOWS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">ITEM DESCRIPTION</th> <th style="text-align: left;">STANDARD SHEET #</th> <th style="text-align: left;">REVISION DATE</th> </tr> </thead> <tbody> <tr> <td>12" BOX BEAM</td> <td>BRS12A & BR-S12B</td> <td>9/96</td> </tr> <tr> <td>BEAM DETAILS</td> <td>BR-B100, BR-B101, BR-B102 & BR-B104</td> <td>9/96</td> </tr> <tr> <td>POST TENSIONING DETAILS</td> <td>BR-B103</td> <td>9/96</td> </tr> </tbody> </table> <p>DELIVER TO WV DIVISION OF HIGHWAYS AT JOBSITE, TRADER FORK ROAD, WV 20 @ MP 1.58 WETZEL COUNTY, WV.</p> <p>PLEASE CALL 24 HOURS BEFORE ANY DELIVERY @ 304-238-1196.</p> <p>Requirements of WV Dept. of Trans. special provision 109.20, price adjust. For load limit viol. dtd 02/25/91 shall apply to all materials supplied by this contract, incl. those loaded by vendor into DOH owned and/or rented trucks. This provision may be obtained from: Dir. Of Construction, Bldg 5., Room A729, 1900 Kanawha Blvd E., Charleston, WV 25305-0430</p>					ITEM DESCRIPTION	STANDARD SHEET #	REVISION DATE	12" BOX BEAM	BRS12A & BR-S12B	9/96	BEAM DETAILS	BR-B100, BR-B101, BR-B102 & BR-B104	9/96	POST TENSIONING DETAILS	BR-B103	9/96
ITEM DESCRIPTION	STANDARD SHEET #	REVISION DATE														
12" BOX BEAM	BRS12A & BR-S12B	9/96														
BEAM DETAILS	BR-B100, BR-B101, BR-B102 & BR-B104	9/96														
POST TENSIONING DETAILS	BR-B103	9/96														



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BID OPENING DATE: **01/09/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
BID OPENING DATE AND TIME CHANGED						
FROM: 01/09/08 AT 1:30 P.M.						
TO: POSTPONE UNTIL FURTHER NOTICE						
NO OTHER CHANGES.						
0001	8	LS		570-68		
				PRESTRESSED REINFORCED CONCRETE BOX BEAMS		
***** THIS IS THE END OF RFQ 06800095 *****						TOTAL: <u>\$20,747.44</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *R. C. "Burr" Shultz* TELEPHONE **304-464-4441** DATE **2/5/08**
 TITLE **Project Manager** FEIN **55-0685425** ADDRESS CHANGES TO BE NOTED ABOVE

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
01/23/2008				

BID OPENING DATE: **02/06/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 2		
				ADD: DRAWINGS ATTACHED		
				BID OPENING DATE AND TIME CHANGED		
				FROM: POSTPONE UNTIL FURTHER NOTICE		
				TO: 02/06/08 AT 1:30 P.M.		
				NO OTHER CHANGES		
0001	8	LS		570-68		
				PRESTRESSED REINFORCED CONCRETE BOX BEAMS		
***** THIS IS THE END OF RFQ 06800095 ***** TOTAL:						<u>\$20,747.44</u>

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SIGNATURE *RC Burr Steady* TELEPHONE **304-464-4441** DATE **2/5/08**
 TITLE **Project Manager** FEIN **55-0685425** ADDRESS CHANGES TO BE NOTED ABOVE

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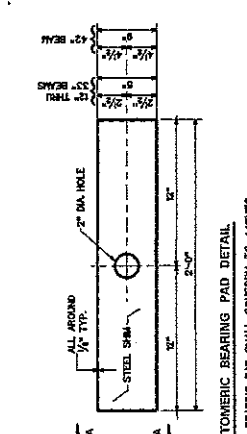
PROJECT NO.	PROJECT NUMBER	COUNTY	SHEET TOTAL
WVA 6	5392-20-1.58	WETZEL	22 OF 23

DATE	BY	CHKD	APP'D
09-27			

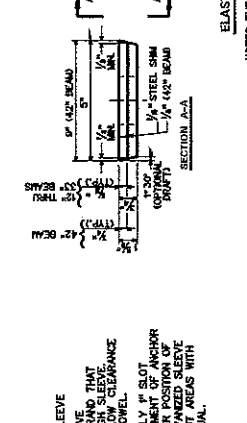
BRIDGE NUMBER	BRIDGE NUMBER
22	N/A

BRIDGE NUMBER	BRIDGE NUMBER
22	N/A

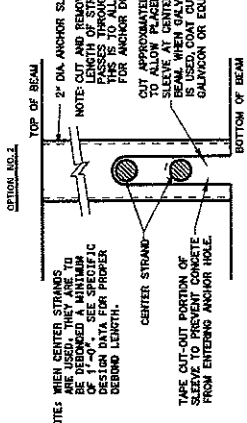
BRIDGE NUMBER	BRIDGE NUMBER
22	N/A



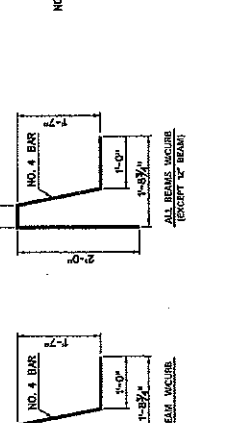
ELASTOMERIC BEARING PAD DETAIL
 NOTES: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 9.01, WITH A DIMENSION INCREASE OF 0.1.



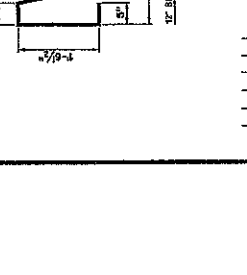
LIFTING LOOP BLOCKOUT DETAILS
 NOTES: LIFTING LOOPS SHALL NOT BE EXPOSED, COATED, OR SKINNED. BEAMS TO BE LOCATED IN A LINE THROUGH THE CENTERLINE OF BEAM.



ANCHOR SLEEVE DETAILS
 USE WHEN CENTER STRAND IS SPECIFIED

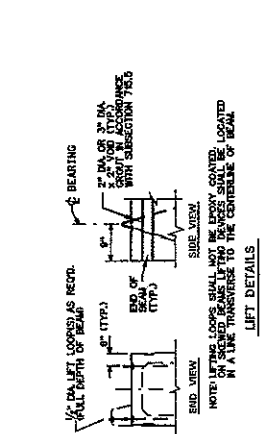


REINFORCING BAR DETAIL
 NOTES: 1. SHALLOWS BAR BENDING DIAMETER EXCEPT NO. 3 AND NO. 4 BARS. 2. IF OPTIONAL SPACING OF LAPS AND ET SPACES IS USED, TERMINATION OF LAP SPACES SHALL BE NO CLOSER TO THE CENTERLINE OF BEAM THAN THE SPALL LENGTH. ADDITIONALLY, ALL LAP SPACES SHALL BE CONTACT TYPE.

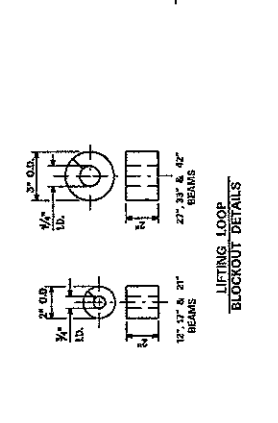


LAP SPLICE TABLE

GRADE	20"	24"	30"	48"
NO. 3				
NO. 4				
NO. 5				
NO. 6				
NO. 7				



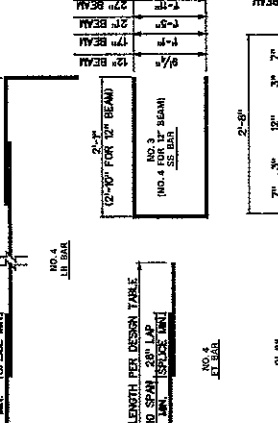
BLOCKOUT DETAIL
 NOTES: 1) FABRICATOR SHALL PROVIDE BLOCKOUT OF ACUTE CORNERS ON ALL BEAMS WITH SKEWS OF 10 DEGREES OR GREATER. 2) AFTER ERECTION, ALL INTERIOR BLOCKOUTS SHALL BE REINFORCED IN ACCORDANCE WITH SUBSECTION 716.5 OF THE STANDARD SPECIFICATIONS.



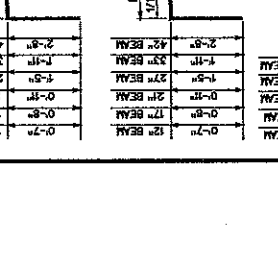
SKEWED REINFORCEMENT DETAIL
 SHEAR REINFORCEMENT DETAIL - SKEWED BEAMS



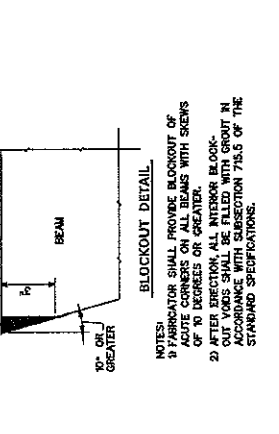
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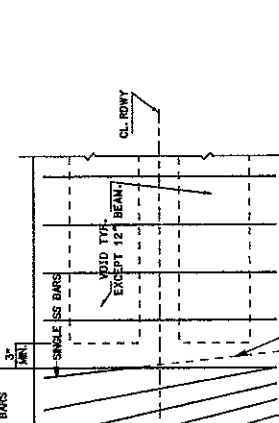
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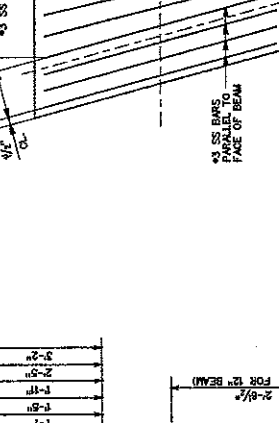
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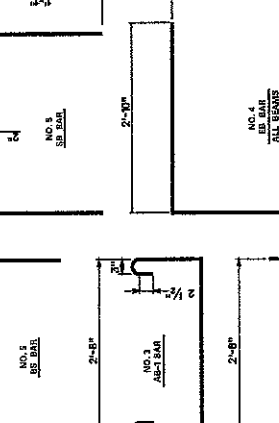
**VOID TYPE EXCEPT 12\"/>
 NOTES: 1) FABRICATOR SHALL PROVIDE BLOCKOUT OF ACUTE CORNERS ON ALL BEAMS WITH SKEWS OF 10 DEGREES OR GREATER. 2) AFTER ERECTION, ALL INTERIOR BLOCKOUTS SHALL BE REINFORCED IN ACCORDANCE WITH SUBSECTION 716.5 OF THE STANDARD SPECIFICATIONS.**



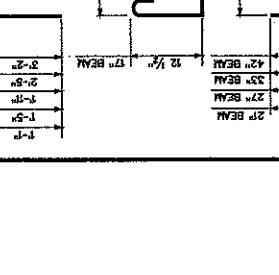
**VOID TYPE EXCEPT 12\"/>
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**VOID TYPE EXCEPT 12\"/>
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**VOID TYPE EXCEPT 12\"/>
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**VOID TYPE EXCEPT 12\"/>
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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

PROJECT NO. 5392-20-1.58
 CHECKED BY: P.G.
 DATE: 09-27
 SCALE: 1/2\"/>

TRADER FORK ROAD
 OVER TRADER FORK RUN

WV 20 WETZEL CO.
 PRESTRESSED CONCRETE BEAM
 DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-310

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES
 DESIGN & ASSEMBLY DETAILS

NOTES:
 1. SHALLOWS BAR BENDING DIAMETER EXCEPT NO. 3 AND NO. 4 BARS. 2. IF OPTIONAL SPACING OF LAPS AND ET SPACES IS USED, TERMINATION OF LAP SPACES SHALL BE NO CLOSER TO THE CENTERLINE OF BEAM THAN THE SPALL LENGTH. ADDITIONALLY, ALL LAP SPACES SHALL BE CONTACT TYPE.

NOTE:
 THIS SHEET TO BE USED WITH STANDARD SHEET BR-1 OR BR-4, BR-5, BR-6, BR-7, BR-8, BR-9, BR-10, BR-11, BR-12, BR-13, BR-14, BR-15, BR-16, BR-17, BR-18, BR-19, BR-20, BR-21, BR-22, BR-23, BR-24, BR-25, BR-26, BR-27, BR-28, BR-29, BR-30, BR-31, BR-32, BR-33, BR-34, BR-35, BR-36, BR-37, BR-38, BR-39, BR-40, BR-41, BR-42, BR-43, BR-44, BR-45, BR-46, BR-47, BR-48, BR-49, BR-50, BR-51, BR-52, BR-53, BR-54, BR-55, BR-56, BR-57, BR-58, BR-59, BR-60, BR-61, BR-62, BR-63, BR-64, BR-65, BR-66, BR-67, BR-68, BR-69, BR-70, BR-71, BR-72, BR-73, BR-74, BR-75, BR-76, BR-77, BR-78, BR-79, BR-80, BR-81, BR-82, BR-83, BR-84, BR-85, BR-86, BR-87, BR-88, BR-89, BR-90, BR-91, BR-92, BR-93, BR-94, BR-95, BR-96, BR-97, BR-98, BR-99, BR-100.

PROJECT TOTAL
 COUNTY NO. SAITS
 PROJECT NUMBER COUNTY NO. SAITS
 5352-10-1-58 WETZEL 23 29

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

TRADER FORK ROAD
 OVER TRADER FORK RUN

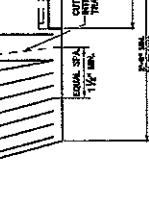
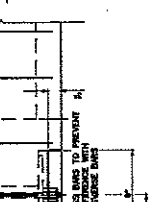
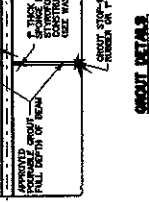
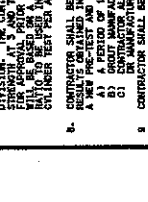
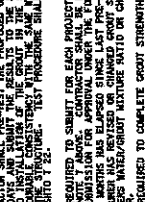
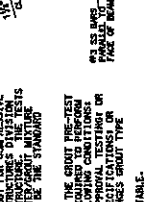
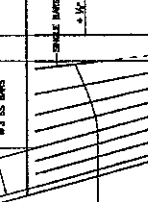
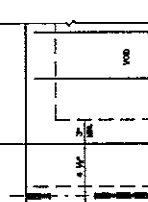
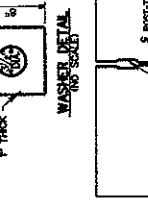
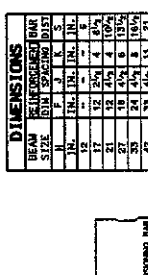
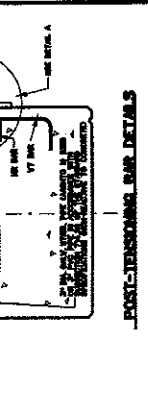
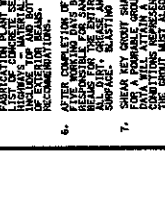
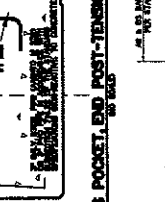
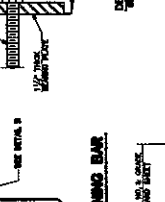
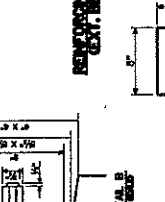
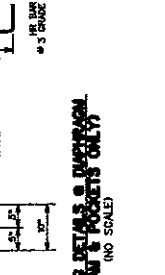
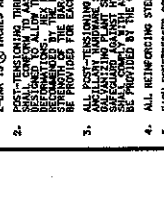
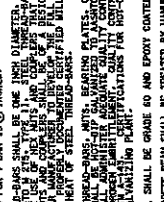
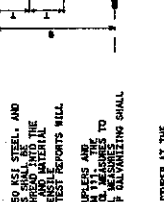
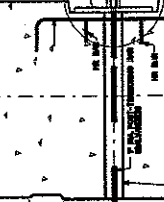
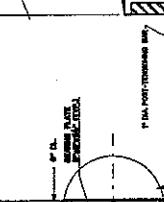
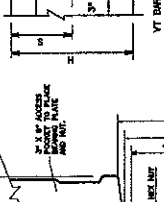
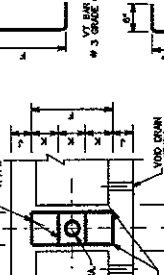
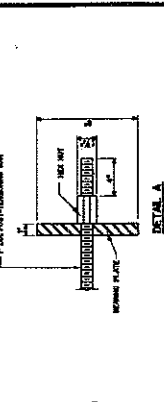
WV 20 WETZEL CO.
 TRANSVERSE POST-TENSIONING DETAILS
 PRESTRESSED CONCRETE BEAMS

WV 20 WETZEL CO.
 TRANSVERSE POST-TENSIONING DETAILS
 PRESTRESSED CONCRETE BEAMS

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 PRESTRESSED CONCRETE BEAMS

WV 20 WETZEL CO.
 TRANSVERSE POST-TENSIONING DETAILS
 PRESTRESSED CONCRETE BEAMS



DIMENSIONS

BEAM SIZE	POST-TENSIONING BAR SIZE	POST-TENSIONING BAR SPACING DIST.
11	3/8	18
12	3/8	18
13	3/8	18
14	3/8	18
15	3/8	18
16	3/8	18
17	3/8	18
18	3/8	18
19	3/8	18
20	3/8	18
21	3/8	18
22	3/8	18
23	3/8	18
24	3/8	18
25	3/8	18
26	3/8	18
27	3/8	18
28	3/8	18
29	3/8	18
30	3/8	18
31	3/8	18
32	3/8	18
33	3/8	18
34	3/8	18
35	3/8	18
36	3/8	18
37	3/8	18
38	3/8	18
39	3/8	18
40	3/8	18
41	3/8	18
42	3/8	18

POST-TENSIONING BAR LAYOUT SCHEDULE

SPAN	STEP	NO. OF BARS
22'-0"	1	1
22'-0"	2	1
22'-0"	3	1
22'-0"	4	1
22'-0"	5	1
22'-0"	6	1
22'-0"	7	1
22'-0"	8	1
22'-0"	9	1
22'-0"	10	1
22'-0"	11	1
22'-0"	12	1
22'-0"	13	1
22'-0"	14	1
22'-0"	15	1
22'-0"	16	1
22'-0"	17	1
22'-0"	18	1
22'-0"	19	1
22'-0"	20	1
22'-0"	21	1
22'-0"	22	1
22'-0"	23	1
22'-0"	24	1
22'-0"	25	1
22'-0"	26	1
22'-0"	27	1
22'-0"	28	1
22'-0"	29	1
22'-0"	30	1
22'-0"	31	1
22'-0"	32	1
22'-0"	33	1
22'-0"	34	1
22'-0"	35	1
22'-0"	36	1
22'-0"	37	1
22'-0"	38	1
22'-0"	39	1
22'-0"	40	1
22'-0"	41	1
22'-0"	42	1

POST-TENSIONING BAR LAYOUT SCHEDULE

SPAN	STEP	NO. OF BARS
22'-0"	1	1
22'-0"	2	1
22'-0"	3	1
22'-0"	4	1
22'-0"	5	1
22'-0"	6	1
22'-0"	7	1
22'-0"	8	1
22'-0"	9	1
22'-0"	10	1
22'-0"	11	1
22'-0"	12	1
22'-0"	13	1
22'-0"	14	1
22'-0"	15	1
22'-0"	16	1
22'-0"	17	1
22'-0"	18	1
22'-0"	19	1
22'-0"	20	1
22'-0"	21	1
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22'-0"	31	1
22'-0"	32	1
22'-0"	33	1
22'-0"	34	1
22'-0"	35	1
22'-0"	36	1
22'-0"	37	1
22'-0"	38	1
22'-0"	39	1
22'-0"	40	1
22'-0"	41	1
22'-0"	42	1

POST-TENSIONING BAR LAYOUT SCHEDULE

SPAN	STEP	NO. OF BARS
22'-0"	1	1
22'-0"	2	1
22'-0"	3	1
22'-0"	4	1
22'-0"	5	1
22'-0"	6	1
22'-0"	7	1
22'-0"	8	1
22'-0"	9	1
22'-0"	10	1
22'-0"	11	1
22'-0"	12	1
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22'-0"	36	1
22'-0"	37	1
22'-0"	38	1
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22'-0"	40	1
22'-0"	41	1
22'-0"	42	1

POST-TENSIONING BAR LAYOUT SCHEDULE

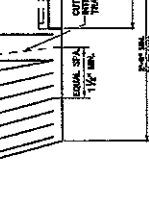
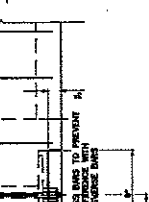
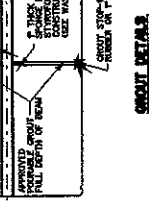
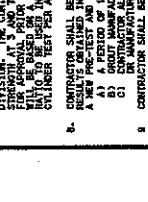
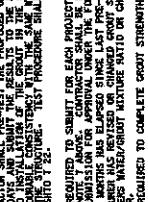
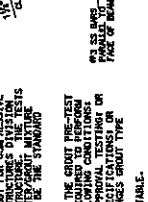
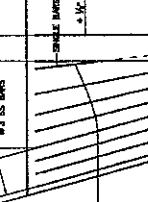
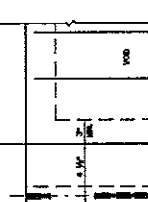
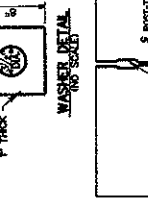
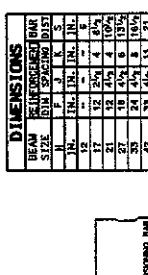
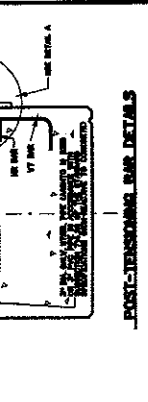
SPAN	STEP	NO. OF BARS
22'-0"	1	1
22'-0"	2	1
22'-0"	3	1
22'-0"	4	1
22'-0"	5	1
22'-0"	6	1
22'-0"	7	1
22'-0"	8	1
22'-0"	9	1
22'-0"	10	1
22'-0"	11	1
22'-0"	12	1
22'-0"	13	1
22'-0"	14	1
22'-0"	15	1
22'-0"	16	1
22'-0"	17	1
22'-0"	18	1
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22'-0"	32	1
22'-0"	33	1
22'-0"	34	1
22'-0"	35	1
22'-0"	36	1
22'-0"	37	1
22'-0"	38	1
22'-0"	39	1
22'-0"	40	1
22'-0"	41	1
22'-0"	42	1

POST-TENSIONING BAR LAYOUT SCHEDULE

SPAN	STEP	NO. OF BARS
22'-0"	1	1
22'-0"	2	1
22'-0"	3	1
22'-0"	4	1
22'-0"	5	1
22'-0"	6	1
22'-0"	7	1
22'-0"	8	1
22'-0"	9	1
22'-0"	10	1
22'-0"	11	1
22'-0"	12	1
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22'-0"	36	1
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22'-0"	40	1
22'-0"	41	1
22'-0"	42	1

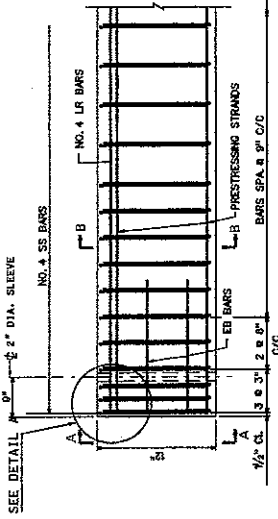
POST-TENSIONING BAR LAYOUT SCHEDULE

SPAN	STEP	NO. OF BARS
22'-0"	1	1
22'-0"	2	1
22'-0"	3	1
22'-0"	4	1
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22'-0"	6	1
22'-0"	7	1
22'-0"	8	1
22'-0"	9	1
22'-0"	10	1
22'-0"	11	1
22'-0"	12	1
22'-0"	13	1
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22'-0"	15	1
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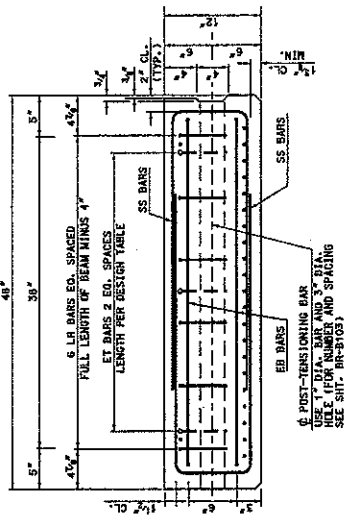
PROJECT NO.	3352-20-1-18
PROJECT NAME	WETZEL
COUNTY	WETZEL
SHEET TOTAL	19
SHEET NO.	20

- NOTES:**
1. ALL NON-PRESTRESSING REINFORCING BARS SHALL BE GRADE 60.
 2. SHALL BE AS SHOWN, EXCEPT WHERE SHOWN OTHERWISE.
 3. ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED.
 4. ALL STRANDS SHALL BE ENCLOSED INSIDE STRIP CAGE ENTIRE LENGTH OF BEAM.
 5. STRIP CAGES TO BE USED WITH STANDARD BARS BR-801, BR-802, BR-803, BR-804, BR-805, BR-806, BR-807, AND BR-808.
 6. WHEN STRAND NO. 23 IS USED, SEE SHEET BR-801 FOR REINFORCEMENT LAYOUT.

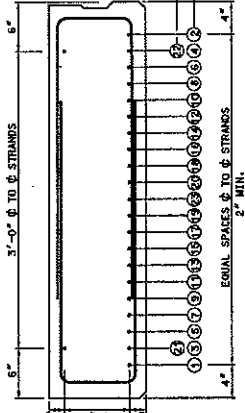


NOTE: SEE SHEET BR-801 FOR REINFORCING BAR DETAILS AND FOR REINFORCEMENT LAYOUT DETAILS FOR SIGNED BEAMS.

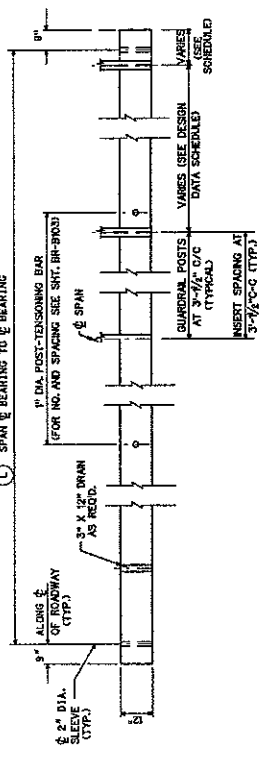
REINFORCING STEEL ELEVATION VIEW



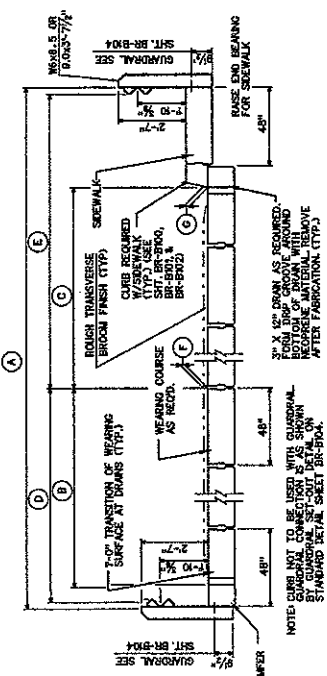
SECTION A-A TYPICAL BEAM REINFORCEMENT



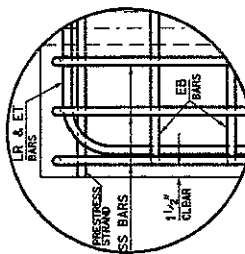
SECTION B-B TYPICAL BEAM PRESTRESSING



12 LONGITUDINAL SECTION



TYPICAL CROSS-SECTION (AT MID-SPAN)



DETAIL A

CODE	DESCRIPTION	VALUE	DESCRIPTION	VALUE
A	DECK WIDTH, OUT TO OUT	32'-5 1/4"	HOT-LAD BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
B	DISTANCE FROM ϕ ROADWAY TO FACE OF CURB (WITH SIDEWALK)	N/A	GUARDRAIL REQUIRED (YES OR NO)	YES
C	DISTANCE FROM ϕ ROADWAY TO FACE OF CURB (WITH SIDEWALK)	N/A	DRAINS REQUIRED (YES OR NO)	NO
D	DISTANCE FROM ϕ ROADWAY TO FACE OF GUARDRAIL (WITH SIDEWALK)	8'-2 1/4"	CURTAIN WALL REQUIRED (YES OR NO)	YES
E	DISTANCE FROM ϕ ROADWAY TO FACE OF GUARDRAIL (WITH SIDEWALK)	H.A.	GUARDRAIL SETOUT REQUIRED (YES OR NO)	YES
F	THICKNESS OF WEARING COURSE AT ϕ ROADWAY	3/4"	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO
G	THICKNESS OF WEARING COURSE AT FACE OF CURB	3/4"		
H	SPAN LENGTH, ϕ BEARING TO ϕ BEARING	22'-0"		
I	OPTIONAL 1" CURB TO BE INCLUDED (YES OR NO)	NO		
J	OPTIONAL PARAPET TO BE INCLUDED (YES OR NO)	NO		
K	TOE PLATE REQUIRED (YES OR NO)	NO		

DESCRIPTION	VALUE
HOT-LAD BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
GUARDRAIL REQUIRED (YES OR NO)	YES
DRAINS REQUIRED (YES OR NO)	NO
CURTAIN WALL REQUIRED (YES OR NO)	YES
GUARDRAIL SETOUT REQUIRED (YES OR NO)	YES
GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

TRADER FORK ROAD
OVER TRADER FORK RUN
WETZEL COUNTY WV 20
12"x4'-0" PRESTRESSED PLANK BEAM
DESIGN & ASSEMBLY DETAILS

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 11-28-08

STANDARD SHEET BR-812A

STATE	PROJECT NUMBER	COUNTY	SHEET TOTAL
VA	6	WETZEL	20
DATE	DATE	DATE	DATE
10/15/18	10/15/18	10/15/18	10/15/18

MIN. CONCRETE STRENGTH @ DETENSION = 4,000 PSI
 MIN. CONCRETE STRENGTH @ 28 DAYS = 5,000 PSI
 JACKING FORCE / LOW RELAX STRAND = 30,000 LBS.

DESIGN DATA FOR 12" X 4'-0" PLANK BEAM

SPAN LENGTH @ TO BEARING	DESIGN DATA FOR 12" X 4'-0" PLANK BEAM																	
	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	(4)	(4)	(4)	
OVERALL LENGTH ALONG ROADWAY	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	25'-0"	26'-0"	27'-0"	28'-0"	29'-0"	30'-0"	31'-0"	32'-0"	33'-0"	
NO. OF STRANDS 2 1/2" DIA. LOW RELAX. STRANDS - AREA/STRAND = 0.163 SQ. IN.	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
STRAND POSITION NUMBER	1,2,11,12; 21,22 & 23	1,2,9,10; 17,18 21 & 22	1,2,9,10; 17,18 21 & 22	1,2,9,10; 17,18 21 & 22	1,2,7,8; 15,16; 21,22 & 23	1,2,7,8; 13,14,15; 20,21 & 22	1,2,7,8; 13,14,15; 20,21 & 22	1,2,7,8; 13,14,15; 20,21 & 22	1,2,7,8; 13,14,15; 20,21 & 22	1,2,7,8; 13,14,15; 20,21 & 22	1,2,7,8; 13,14,15; 20,21 & 22	1,2,7,8; 13,14,15; 20,21 & 22	1,2,7,8; 13,14,15; 20,21 & 22	1,2,7,8; 13,14,15; 20,21 & 22	1,2,5,6; 9,10,13,14; 17,18; 21,22 & 23	1,2,5,6; 9,10,13,14; 17,18; 21,22 & 23	1,2,5,6; 9,10,13,14; 17,18; 21,22 & 23	1,2,5,6; 9,10,13,14; 17,18; 21,22 & 23
PRESTRESSING FORCE AT DETENSION (KIPS/BEAM)	212	241	241	241	241	241	271	271	271	300	300	329	358	358	386	386	386	386
FINAL PRESTRESSING FORCE (KIPS/BEAM)	197	223	223	223	223	223	249	249	249	274	274	300	324	324	348	348	348	348
ULTIMATE DESIGN MOMENT (FT-KIPS/BEAM)	123	135	147	160	173	186	199	213	227	241	255	270	285	285	310	310	310	310
ULTIMATE RESISTING MOMENT (FT-KIPS/BEAM)	162	183	189	189	189	189	215	215	215	240	240	264	288	288	310	310	310	310
TOTAL NUMBER OF DEBONDED STRANDS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAYER 1-REBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAYER 2-REBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
END TENSION STEEL EACH END (SIZE & LENGTH)	3-#4 X 3'-0"	3-#4 X 3'-0"	3-#4 X 3'-0"	3-#4 X 3'-0"	3-#4 X 3'-0"	3-#4 X 3'-0"	3-#4 X 3'-0"	3-#4 X 3'-0"	3-#4 X 3'-0"	3-#4 X 4'-0"	3-#4 X 4'-0"	3-#4 X 4'-0"	3-#4 X 4'-0"	3-#4 X 4'-0"	3-#4 X 5'-0"	3-#4 X 5'-0"	3-#4 X 5'-0"	3-#4 X 5'-0"
DEBONDING - INCHES +UPWARD (IN)	0.02	0.04	0.05	0.05	0.05	0.05	0.07	0.07	0.08	0.11	0.11	0.15	0.18	0.18	0.20	0.25	0.25	0.25
DEBONDING - INCHES +DOWNWARD (IN)	0.04	0.07	0.07	0.08	0.08	0.08	0.12	0.12	0.13	0.18	0.18	0.24	0.31	0.31	0.32	0.40	0.40	0.40
FINAL - INCHES +UPWARD (IN)	0.05	0.08	0.09	0.09	0.09	0.10	0.15	0.15	0.21	0.21	0.21	0.28	0.35	0.35	0.35	0.45	0.45	0.45
WEIGHT OF TYPICAL BEAM (TONS) (L/D)	3.4	3.7	4.0	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4
NO. OF INSERTS	4	4	5	5	5	5	6	6	6	7	7	7	8	8	8	8	8	8
NUMBER AND SPACING OF GUARDRAIL INSERTS	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"	1-9"
NO. OF FIRST INSERT TO 1/2 SECOND INSERT EACH END	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"	2-4 1/2"

- NOTES:
1. BEAM WEIGHTS LISTED IN DESIGN TABLES IS APPROXIMATE AND IS BASED ON ZERO SKEW.
 2. FOR STANDARD CURBS ADD 63 LBS. (0.05 TON) PER FOOT OF BEAM.
 3. CAMBER VALUES LISTED IN DESIGN TABLE ARE APPROXIMATE AND ARE FOR COMPARISON PURPOSES ONLY. THEY SHOULD BE USED FOR INSPECTION PURPOSES UNLESS PERMITTED BY THE CONTRACTOR.
 4. DATA LISTED IN THE DESIGN TABLE MAY NOT BE VALID FOR SPAN LENGTHS THAT FALL BETWEEN THE SPAN LENGTHS LISTED. DIFFERENCES ARE ENCOUNTERED. CALCULATE AND ENTER SHEAR DATA FOR BEAM LENGTH REQUIRED IN THIS COLUMN.
 5. BEAMS ARE TO BE CAST WITH THE TOP SURFACE OF THE BEAM TO BE FINISHED TO THE SURFACE OF THE BEAM.
 6. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
 7. DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKEWED BEAM ENDS MAY TWIST OR WARP. CHECK THE EVEN BEAM SCABING AT THE BEAMS' CONTACT POINTS FOR CORRECTION. PROVIDE EVEN TOTAL BEARING ON THE PILES AND A LEVEL TOP BEAM SURFACE. METHOD SHALL BE A PRE-APPROVED METHOD BY DIRECTOR OF STRUCTURES DIVISION.
 8. BEAM FABRICATOR SHALL NOTIFY CONTRACTOR THAT BEAM ENDS ARE TWISTED PRIOR TO SHIPPING OF BEAMS.
 9. DEBONDING OF STRANDS IS NOT PERMITTED FOR THIS BEAM SECTION.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

TRADER FORK ROAD
 OVER TRADER FORK RUN

WETZEL COUNTY WV 20
 DESIGN TABLE FOR 12" X 4'-0"
 PRESTRESSED PLANK BEAM

BRIDGE NUMBER N / A

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES
 DESIGN TABLE FOR 12" X 4'-0"
 PRESTRESSED PLANK BEAM

STANDARD SHEET BR-578

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: Carr Concrete Corporation

Authorized Signature: RE "Burr" Stanley Date: 2/5/08