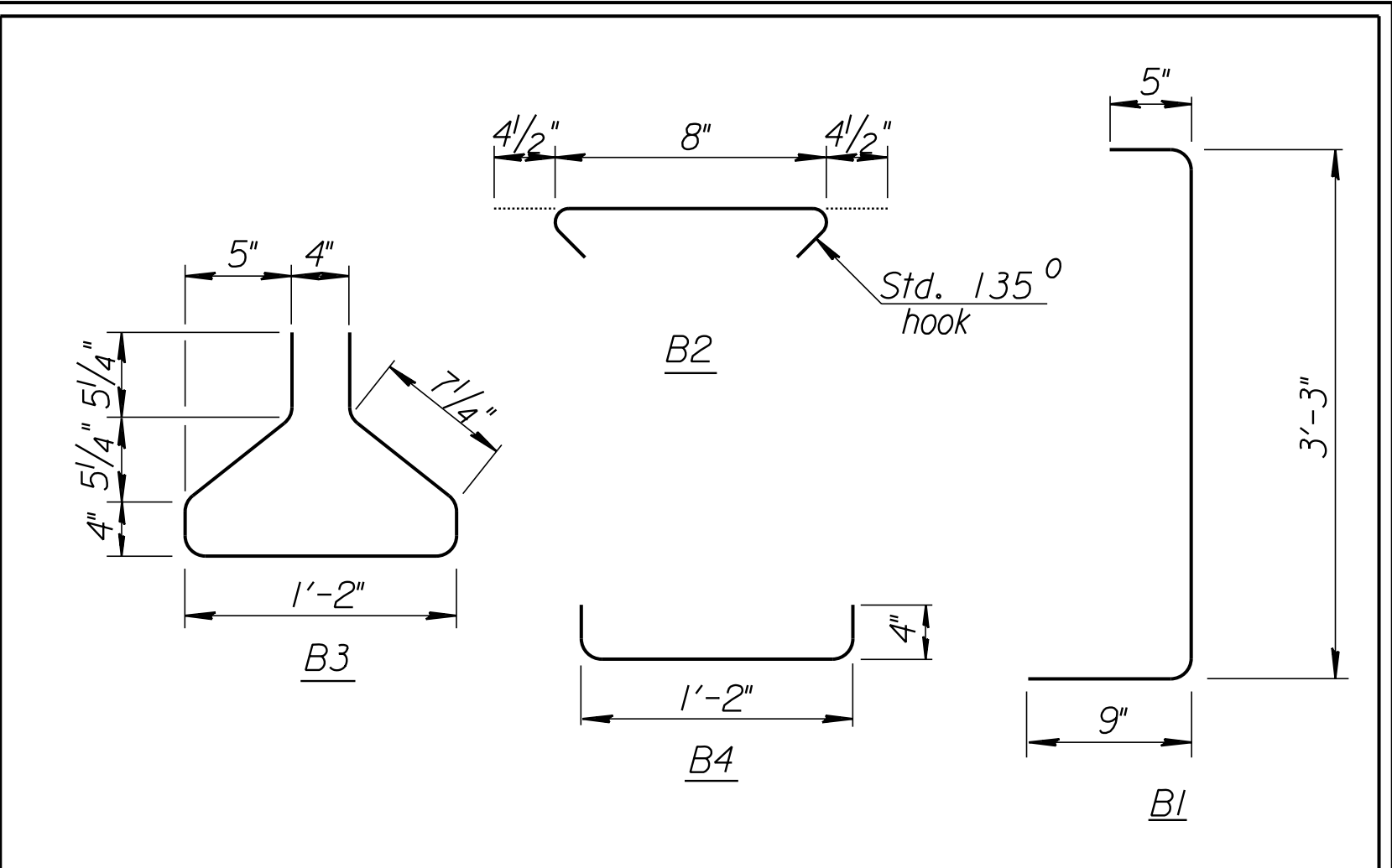


NOTE: During transportation and construction only, support beams on bearing points a maximum of 2'-0" feet from the beam end. The Fabricator shall show the proposed support locations on the shop drawings.  
NOTE: Epoxy coat all bars.

NOTE: Extend 6 strands 2'-6" beyond the end of the beam. Strands not shown shall be cut flush with the end of the beam. See "Strand Extension Detail" on "K2 Beam Details I" sheet.

BILL OF REINFORCING STEEL							
37'-0" Girder (1 Listed- 18 Req'd.) (Spans #3 & #5)							
Straight bars				Bent bars			
Mark	No.	Size	Length	Mark	No.	Size	Length
B7	2	#4	36'-8"	B1	104	#4	4'-5"
				B2	52	#4	1'-5"
				B3	32	#3	3'-11"
				B4	20	#3	1'-10"
40'-0" Girder (1 Listed- 9 Req'd.) (Span #4)							
Straight bars				Bent bars			
Mark	No.	Size	Length	Mark	No.	Size	Length
B8	2	#4	39'-8"	B1	112	#4	4'-5"
				B2	56	#4	1'-5"
				B3	34	#3	3'-11"
				B4	22	#3	1'-10"



BILL OF MATERIAL		
Item	Unit	Quantity
Prestressed concrete beams (K2)(Spans #1 & #7)	Lin.Ft.	561.0
Prestressed concrete beams (K2)(Spans #2 & #6)	Lin.Ft.	612.0
Prestressed concrete beams (K2)(Spans #3 & #5)	Lin.Ft.	666.0
Prestressed concrete beams (K2)(Spans #4)	Lin.Ft.	360.0
The following quantities are given for information only and shall not be paid for directly but shall be made subsidiary to the bid item "Prestressed Concrete Beams (K2)".		
Beam concrete (f'c = 6,000 PSI) (Total)	Cu.Yds.	208.7
1/2" Ø Prestressing strand (270 KSI low relaxation fy=243 KSI)	Lin.Ft.	27,751
Epoxy reinforcing steel (fy=60,000 PSI)	Lbs.	1,793
Elastomeric Brg. pads (3/4"x8"x1'-6")	Each	90
Elastomeric Brg. pads (3/4"x10"x1'-6")	Each	36
3/4" Ø Coil tie inserts (●)	Each	616
3/4" Ø x 1'-6" Threaded coil rods	Each	112
Lifting devices	Each	126
Bearing plates (1/2"x15"x1'-4")	Each	126

● Includes 504 for temporary diaphragms based on open coil insert option.

See Sheet #23 for K2 Beam Details I.  
See Sheet #27 for Temporary Diaphragm Details.  
See Sheet #28 for Intermediate Diaphragm Details.

CITY OF WICHITA  
JAMES ARMOUR, P.E., CITY ENGINEER  
13TH STREET BRIDGE OVER  
LITTLE ARKANSAS RIVER  
**K2 BEAM DETAILS II**

**PB** PARSONS  
BRINCKERHOFF  
1221 W. Wichita, Kansas

K:\35750A\CADD\SHEETS\BRIDGE\13THBMD02.dgn  
SURV. JG, CPI PLOT CADD DES. AH DR. GBI TR. BS APP. RG