

	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FEBR UARY MAY 68	SHEET NO.	TOTAL SHEETS
					APRIL 6		
					JOB NO.	R60140	231 616

BAR LIST-PER BENT

MARK	NO. REQ'D	LENGTH	P.D.
B401	22	3'-10"	Sr.
B402	25	10'-9"	3"
B403	48	8'-5"	Sr.
B501	48	15'-10"	2 1/2"
B502	15	10'-2"	2 1/2"
B503	49	8'-0"	Sr.
B504	16	6'-4"	2 1/2"
B505	28	5'-4"	2 1/2"
B601	6	11'-8"	4 1/2"
B602	6	8'-3"	Sr.
B603	6	32'-2"	4 1/2"
B604	10	30'-10"	Sr.
B605	18	8'-10"	4 1/2"
F601	12	2'-8"	Sr.
R401	22	3'-10"	2"
R402	8	3'-11"	2"
R403	12	16'-8"	Sr.
R601	16	7'-4"	4 1/2"
R602	6	5'-0"	Sr.
W401	14	11'-8"	2"
W402	14	11'-11"	Sr.
W403	2 ea.	11'-4" to 5'-4"	2"
W411-W413	2 ea.	11'-7" to 4'-7"	Sr.
W417	6	8'-9"	2"
W701	12	16'-8"	Sr.
W702-W710	4 ea.	13'-1" to 7'-1"	Sr.
W711	4	18'-10"	5 1/4"

BENDING DIAGRAMS

Dimensions are out to out of bars.

Dimensions are out to out of bars.

GENERAL NOTES:

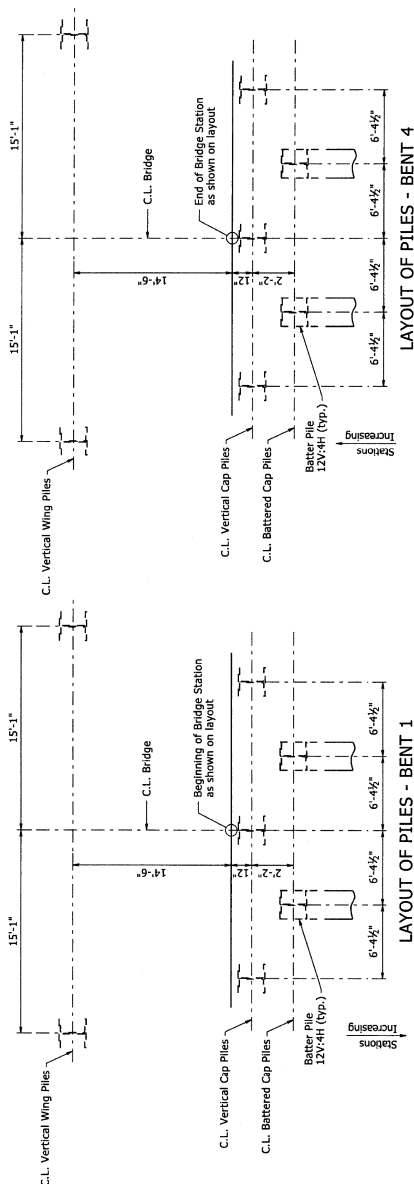
For General Notes, see Std. Dwg. No. 55006.

For Joint Details see Dwa. No. 61020.

Structural steel in end bents shall be ASTM A709, Gr. 50W and shall be paid for as "Structural steel in Plate Girder Spans (A709, Gr. 50W)".

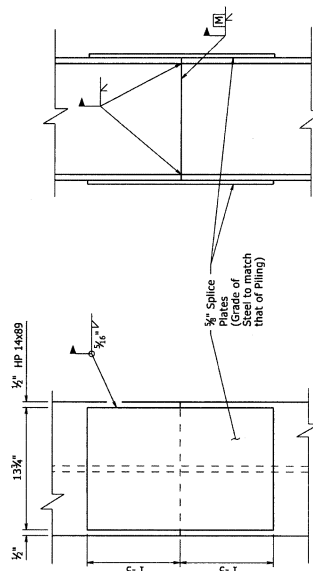
No portion of the backwall shall be poured before the girders are in place. The portion of the backwall above the optional construction joint at the paving bracket shall not be placed until the adjacent deck pour has been made. Refer to the "EXPANSION DEVICE INSTALLATION AT END BENTS" note on Dwg. No. 61020. No heavy construction equipment shall be allowed within 10.5' of the backwall until the deck concrete placement for the adjacent span has been completed.

For additional information, see Layout.



LAYOUT OF PILES - BENT 4

LAYOUT OF PILES - BENT 1



The Contractor may for his own convenience and at his own expense provide as many as three splices per pile. Minimum spacing between splices shall be 5 feet.

TYPICAL SPLICE DETAILS

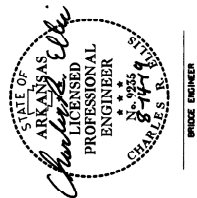
H-pile splicers manufactured by Associated Pile and Fitting Corporation, "LB Foster Piling, Skyline Steel" or equivalent may be used in lieu of the "Typical Splice Details" shown. H-pile splicers shall match the same grade of steel specified for the piling and shall be welded to the pile with a $\frac{1}{2}$ " fillet weld around the entire perimeter of the splice. Flanges shall be welded with a complete penetration groove weld complying with AWS A5.1/A5.1M or AWS A5.23/A5.23M, as applicable. All welding shall conform to AWS D1.1/D1.1M, Section 5.2.2.2. Subsection 807.26.

SHEET 3 OF 6
DETAILS OF END BENTS
PROMISE LAND DRIVE OVER HIGHWAY 7

ROUTE SEC. ARKANSAS STATE HIGHWAY COMMISSION

BRIDGE NO. 07457	DRAWING NO. 61006
DESIGNED BY: J1	DATE: 6/19
CHECKED BY: TMC	DATE: 8/20/19
DRAWN BY: CGP	DATE: 7/02/19
FLENUM: b60140x5 bl.dgn	

DRAWING NO. 61006



SHEET 4 OF 6
DETAILS OF END BENTS
PROMISE LAND DRIVE OVER HIGHWAY 7

ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DATE: 7/20/19	FILENAME: br60140x5_b1.dgn
DATE: 8/13/19	SCALE: 3/4"=1'-0"
DATE: 6/19	

DRAWING NO. 61007

DRAWING NO. 61007

MARK	NO. REQ'D	LENGTH	A	B	P. D.	BENDING DIMENSIONS
B501-B504	2 ea.	Var. 14'-4" to 15'-9"	3'-2"	Var. 3'-5" to 4'-3 1/2"		
B505-B532	4 ea.	Var. 14'-2" to 20'-2"	2'-2"	Var. 4'-8" to 7'-8"		
B523	11	18'-4"	3'-2"	7'-8"		
B524	16	6'-8"	3'-6"	1'-8"		
B525	28	5'-0"	1'-10"	1'-8"		
B601	12	17'-5"		4 1/2"		
B602	10	30'-8"		Str.		
B603-B606	2 ea.	Var. 29'-5" to 16'-4"		Str.		
B1401	6	33'-8"	30'-8"	1'-9 1/2"		
B1402	6	32'-8"	29'-8"	1'-9 1/2"		
C501	111	12'-7"		11'-4"		
C502-C573	1 ea.	Var. 34'-6" to 28'-7"		Var. 5'-6 1/2" to 2'-7 1/2"		
C574-C5145	3 ea.	Var. 6'-10" to 3'-11"		Var. 5'-6 1/2" to 2'-7 1/2"		
C1101	38	41'-3"		39'-7"		
C1102	10	31'-3"		29'-7"		
C1103	8	41'-3"		39'-7"		
C1104	46	42'-0"		Str.		
F601	33	22'-10"		21'-6"		
F602	31	24'-10"		23'-6"		
F901	47	24'-0"		21'-6"		
F902	22	26'-0"		23'-6"		

B523, B524, B525,
B1001, & B1002

B501-B504, &
B505-B522

B601

12 15
10'-2" 7'-3"

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

5601, F602,
F901, & F902

12 15
10'-2" 7'-3"

B601

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

5601, F602,
F901, & F902

12 15
10'-2" 7'-3"

B601

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

5601, F602,
F901, & F902

B523, B524, B525,
B1001, & B1002

B501-B504, &
B505-B522

B601

12 15
10'-2" 7'-3"

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

5601, F602,
F901, & F902

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10'-2" 7'-3"

B601

6 1/2" 135° (wp.)

11'-4"

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5601, F602,
F901, & F902

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11'-4"

CS02-CS73

5601, F602,
F901, & F902

B523, B524, B525,
B1001, & B1002

B501-B504, &
B505-B522

B601

12 15
10'-2" 7'-3"

6 1/2" 135° (wp.)

11'-4"

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F901, & F902

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B1001, & B1002

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B505-B522

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F901, & F902

B523, B524, B525,
B1001, & B1002

B501-B504, &
B505-B522

B601

12 15
10'-2" 7'-3"

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

5601, F602,
F901, & F902

12 15
10'-2" 7'-3"

B601

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

5601, F602,
F901, & F902

12 15
10'-2" 7'-3"

B601

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

5601, F602,
F901, & F902

B523, B524, B525,
B1001, & B1002

B501-B504, &
B505-B522

B601

12 15
10'-2" 7'-3"

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

5601, F602,
F901, & F902

12 15
10'-2" 7'-3"

B601

6 1/2" 135° (wp.)

11'-4"

CS02-CS73

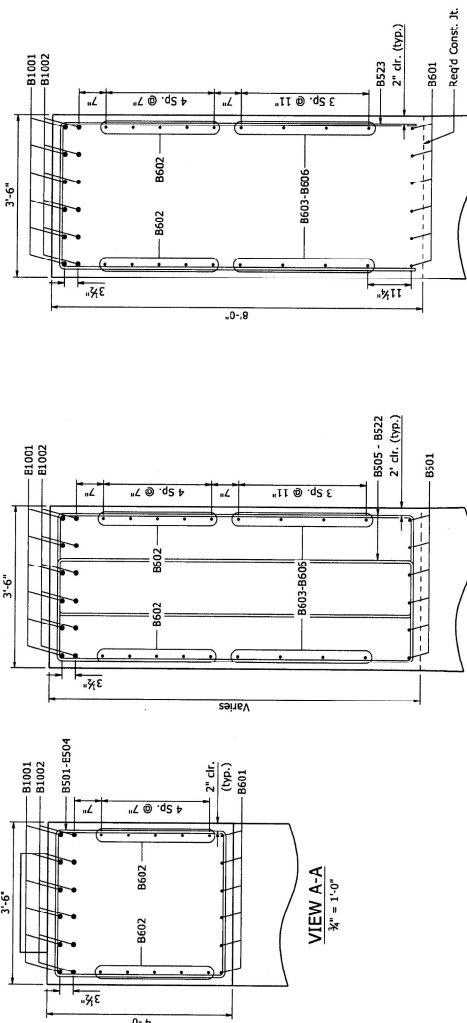
5601, F602,
F901, & F902

12 15
10'-2" 7'-3"

B601

6 1/2" 13

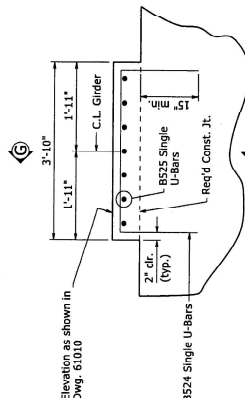
Dimensions are out to out of bars.



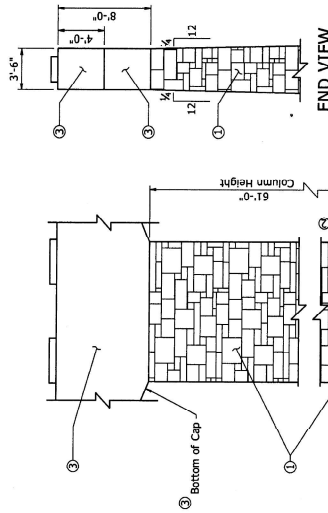
VIEW A-A
3/4" = 1'-0"

SECTION F-F
 $y^u = 1.0^u$

SECTION B-B
 $\frac{3}{8}'' = 1'-0''$

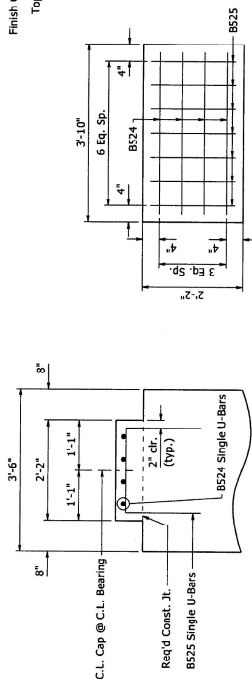


TYPICAL PEDESTAL DETAIL

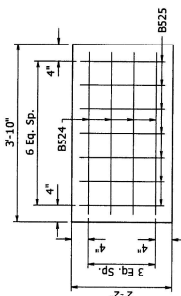


END VIEW

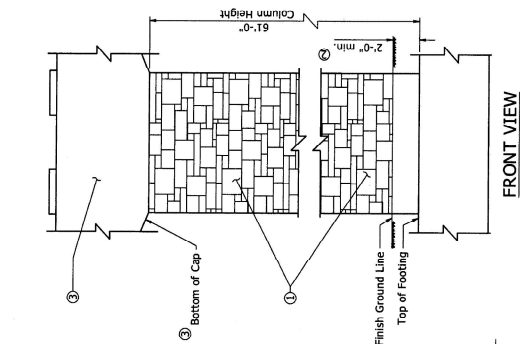
- ① "Ashlar Stone" Pattern & Class 3 Textured Coating Finish (Color = Brown Chip No. 30219)
- ② Form liner and texture coating to be stopped at Finish Ground Line
- ③ Class 3 Textured Coating Finish (Color = Brown, Color Chip No. 33522)



SECTION G-G



PEDESTAL PLAN



FRONT VIEW

BENT AESTHETICS
 $\mathbb{K}_{A.00} = 1.0^{00}$

AESTHE

STATE OF
ARKANSAS
CHARLES L. CLEGG
LICENSED
PROFESSIONAL
ENGINEER
No. 9335
STREET
CHAP. 8-14-79

SHEET 2 OF 2
DETAILS OF INTERMEDIATE BENT 2
PROMISE LAND DRIVE OVER HIGHWAY 7

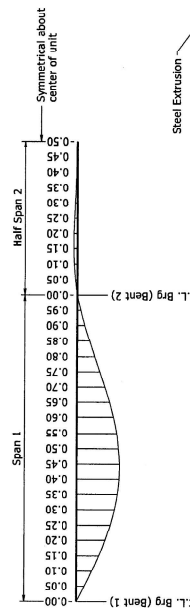
ROUTE SEC. ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

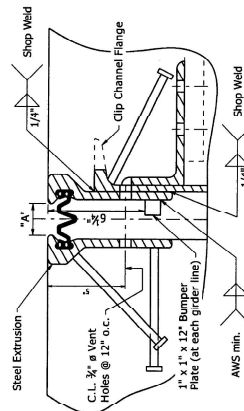
DRAWN BY:	JJ	DATE:	08/02/2019	FILENAME:	bi60140x5_b3.dgn
CHECKED BY:	DHP	DATE:	8/13/19	SCALE:	AS NOTED
DESIGNED BY:	JJ	DATE:	05/26/19		
BRIDGE NO.	6101	DRAWING NO.	6101		

Bent No.	Movement Rating	"A" - Width perpendicular to joint at 24 hour average temperature of:	"B" - Width perpendicular to joint at 24 hour average temperature of:
		40°F	60°F
1	4"	2½"	2½"
4	4"	2½"	3¾"

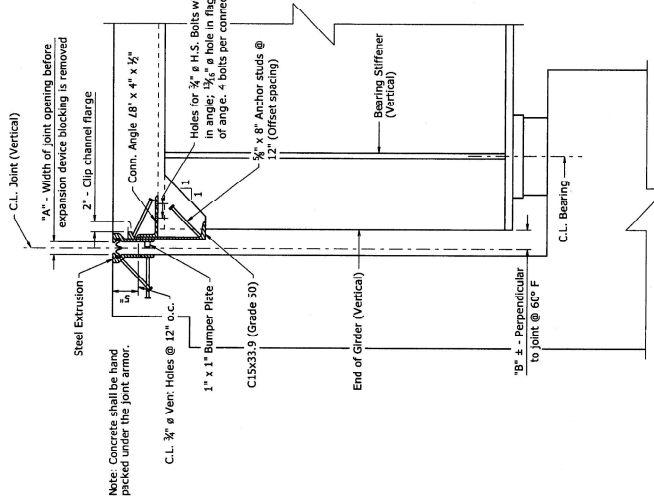
TABLE OF DEAD LOAD DEFLECTIONS (INCHES)

[illegible]

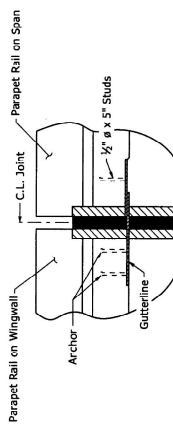
Camber for Dead Load Deflection $\pm 1/8"$ tolerance. Deflections shown are along C.L. Girder from a chord from C.L. Bearing to C.L. Bearing. Negative sign (-) indicates a point above chord. Vertical curve corrections not included.



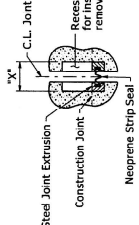
Detail shown at End Bent.
No Scale



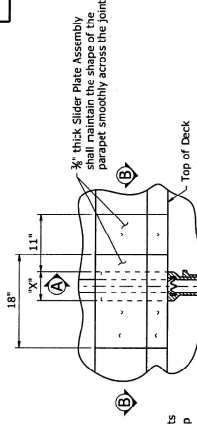
SECTION THRU JOINT



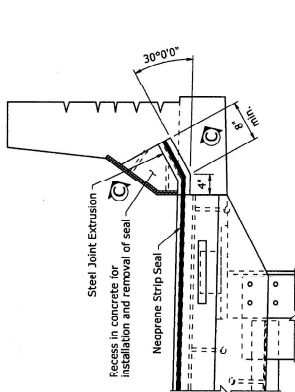
STEEL EXTRUSION



SECTION C-C



DETAIL OF PARAPET SLIDER PLATES



DETAILS FOR BLOCKING EXPANSION JOINT DEVICE

Neoprene Strip Seal Joint Notes:

Each expansion joint device shall be blocked in the Shop by the Fabricator to the dimension "A" shown for 60°F, and the blocking details shall be shown on the shop drawings. Blocking shall be placed within 2 feet of each end of the device and with a maximum spacing of 8 feet.

The steel extrusion material (D.S. Brown SSPA or approved equal), neoprene strip seal material (D.S. Brown L2-400 or approved equal) and installation shall be in accordance with Section 809.

The expansion device shall provide for the movement rating(s) shown in the "STRIP SEAL JOINT DATA" in the plan details. The expansion joint shall be capable of resealing the deck surface and parapet area to prevent moisture and other contaminants from descending through the joint.

All structural steel shall conform to ASTM A709, Grade 50 and exposed surfaces shall be cleaned in accordance with Subsection 807.84(e). Structural Steel shall be paid for as "Structural Steel in Plate Girder Spans (ASTM A709, Grade 50).".

The Contractor may elect to install the expansion device using one of the following two alternatives.

1.) The concrete span pour adjacent to joint shall be placed before the end backwall is placed. After the end backwall forms are in place and the girders erected, the blocked expansion device shall be installed and adjusted for grade. All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the beam. Immediately prior to pouring the backwall concrete, the blocking shall be removed, and the opening adjusted for temperature and grade.

2) The backwall shall be poured to the optiona construction joint after girders are erected. The blocked expansion device shall be installed and adjusted for grade. All connection bolts shall be fully tightened prior to placing the deck concrete adjacent to the belt. Immediately prior to pouring the remainder of the backwall concrete, the blocking shall be removed and the opening adjusted for temperature and grade.

SHEET 7 OF 7
DETAILS OF 495'-0"
CONTINUOUS PLATE GIRDER UNIT
PROMISE LAND DRIVE OVER HIGHWAY 7

ROUTE SEC. ARKANSAS STATE HIGHWAY COMMISSION

DATE: 7/16/2019
DRAWN BY: TNG
CHECKED BY: KAT
DESIGNED BY: TNG
BRIDGE NO. 07457
DRAWING NO. 51070
FILENAME: br60140x5_sl.dgn
SCALE: NO SCALE

BRIDGE ENGINEER

DRAWING NO. E1030

PRINT DATE: 8/14/2019