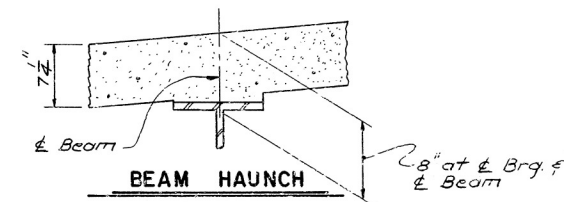


Bent No.	Masonry Plate Thickening	
	Lt side	Rt side
2	$\frac{1}{8}$ "	
3	$\frac{1}{16}$ "	

stations Increase

INT. BENT



DETAIL

Scale: $1\frac{1}{2}" = 1'-0"$

GENERAL NOTES

METHOD OF DESIGN: LOAD FACTOR

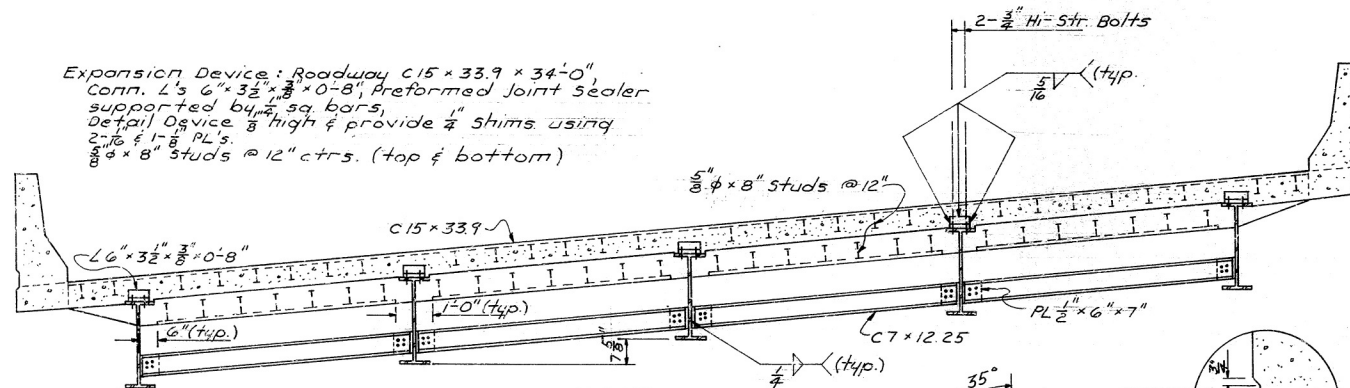
BRIDGE NO. 6004 DRAWING NO. 25845



W-Beams are to be placed on chords of concentric arcs spaced at 7'-6".

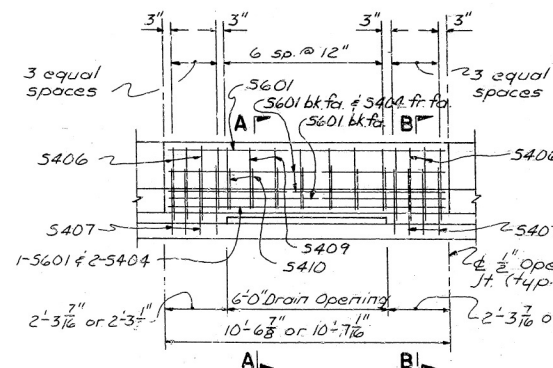
Note: The concrete bridge deck shall be given a fine finish as specified for final finishing in subsection 802.23 for Class 6, Roadway Surface Finish.

Expansion Device: Roadway $615 \times 33.9 \times 34'-0"$
Conn. L's $6' \times 3\frac{1}{2}' \times \frac{3}{4}"$ "0-8" Preformed Joint Sealer
supported by $\frac{1}{4}"$ sq bars,
Detail Device $\frac{1}{4}"$ high & provide $\frac{1}{4}"$ Shims using
 $2'-10" \times 1-8" PL's$
 $\frac{3}{4}" \times 8"$ studs @ $12"$ ctrs. (top & bottom)



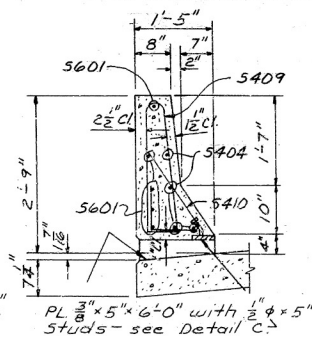
Note: Holes for $\frac{3}{4}$ " ϕ high strength bolts for Expansion Device, Diaphragms & End Struts may be $\frac{15}{16}$ " ϕ holes if a washer is supplied for use under both the nut & the head of the bolt.

EXPANSION DEVICE SECTION



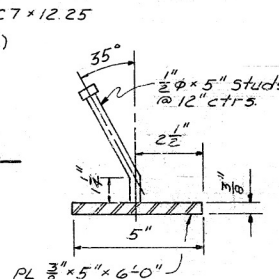
Scale: $\frac{3}{8}" = 1'-0"$

Smooth Surface
with Trowel -



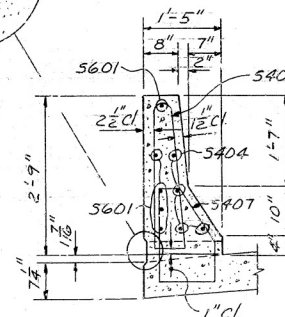
Scale: $\frac{3''}{1} = 1'0''$

THE 1/2" Ø X 5" STUDS SHALL BE GRANULAR FLUX FILLED, SOLID
FLUXED, OR EQUAL AND AUTOMATICALLY END WELDED TO THE 3/8"
PLATE IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER.
THE PLATES AND STUDS SHALL BE MEASURED AND PAID FOR AS "STRUCTURAL
STEEL IN BEAM SPANS (A572-50)."

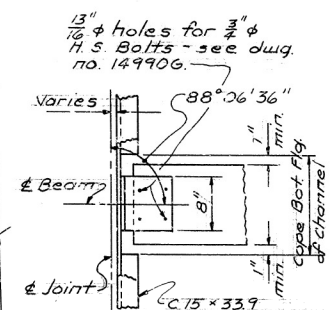
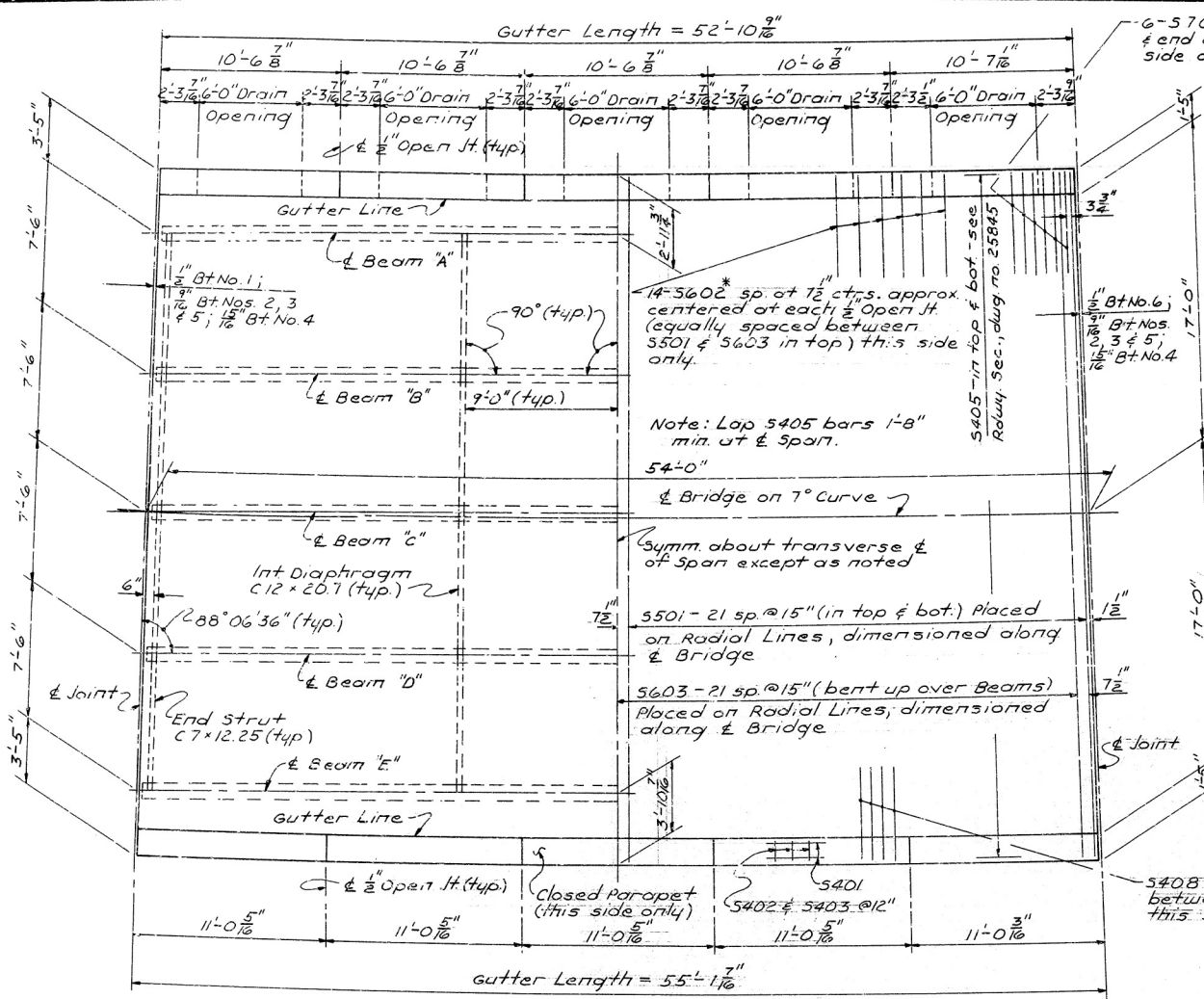


DETAIL C

No scale



Scale: $\frac{3}{4}'' = 1'-0''$



MK.	No. Reg'd	Length	Pin Dia
5401	30	10'-8"	5+7
5402	55	5'-3"	2"
5403	55	5'-8"	2"
5404	20	10'-3"	5+7
5405	164	28'-3"	5+7
5406	40	6'-10"	2"
5407	40	5'-11"	2"
5408	86	4'-9"	5+7
5409	35	6'-2"	2"
5410	35	3'-2"	2"
5501	88	36'-6"	5+7
5601	25	10'-3"	5+7
5602	56	5'-7"	3 3/4"
5603	43	37'-4"	3 3/4"
5701	12	6'-4"	5 1/4"

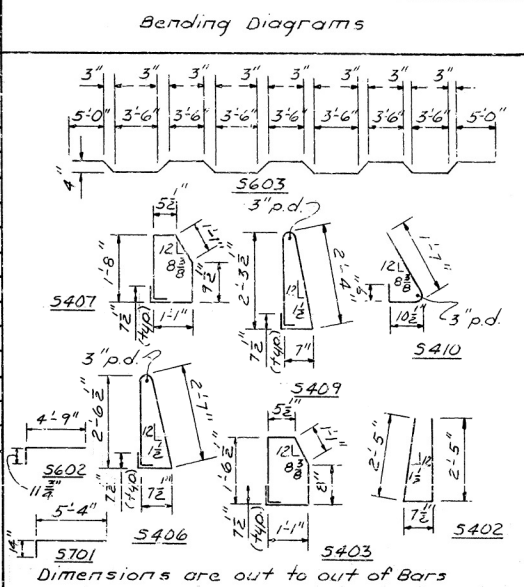
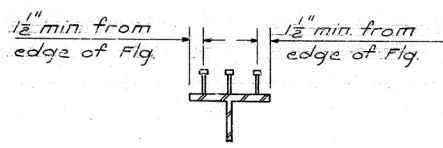
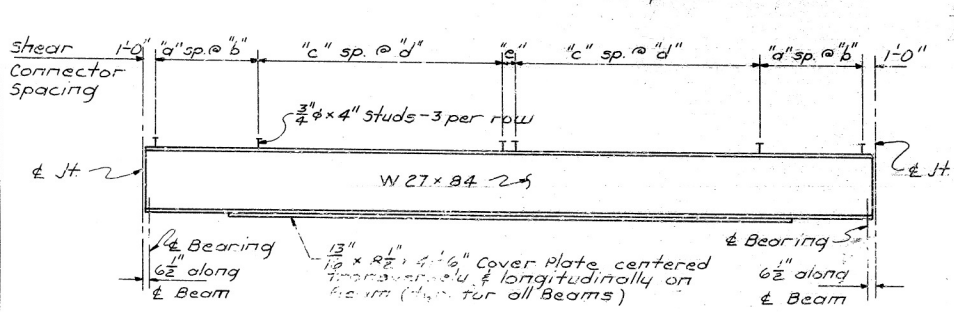
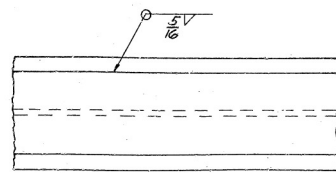


TABLE OF VARIABLES

Beam	Beam Length (ctr. to ctr. of joint)	Shear Connector Spacing					Dead Load Deflection					
							Wt of Beam	Wt of Beam & Slab	Wt of Beam, Slab & Parapet			
		"a"	"b"	"c"	"d"	"e"	$\frac{1}{4}$ Pt.	$\frac{1}{2}$ Pt.	$\frac{1}{4}$ Pt.	$\frac{1}{2}$ Pt.	$\frac{1}{4}$ Pt.	$\frac{1}{2}$ Pt.
"A"	53'-0"	15	6"	23	9"	9"	$\frac{11}{8}$	$\frac{11}{8}$	$\frac{3}{4}$	$\frac{11}{16}$	$\frac{13}{16}$	$\frac{3}{8}$
"B"	53'-5 $\frac{15}{16}$ "	16	6"	23	9"	6"	$\frac{11}{8}$	$\frac{3}{16}$	$\frac{13}{16}$	$\frac{11}{16}$	$\frac{15}{16}$	$\frac{5}{16}$
"C"	53'-11 $\frac{7}{8}$ "	16	6"	23	9"	8 $\frac{15}{16}$	$\frac{11}{8}$	$\frac{3}{16}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{15}{16}$	$\frac{5}{16}$
"D"	54'-5 $\frac{13}{16}$ "	17	6"	23	9"	5 $\frac{15}{16}$	$\frac{11}{8}$	$\frac{3}{16}$	$\frac{15}{16}$	$\frac{1}{4}$	$\frac{11}{16}$	$\frac{3}{8}$
"E"	54'-11 $\frac{3}{4}$ "	17	6"	23	9"	8 $\frac{11}{8}$	$\frac{11}{8}$	$\frac{3}{16}$	$\frac{15}{16}$	$\frac{1}{16}$	$\frac{11}{16}$	$\frac{5}{16}$



NOTES: STUD SHEAR CONNECTORS SHOWN SHALL BE 4" LONG, GRANULAR FLUX FILLED, SOLID FLUXED OR EQUAL, AND AUTOMATICALLY END WELDED TO BEAM FLANGES IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER. 7/8" DIAMETER STUD MAY BE SUBSTITUTED FOR THE 3/4" DIAMETER STUD SHOWN AT THE RATIO OF 0.73 - 7/8" STUDS IN PLACE OF ONE 3/4" STUD. THE 3/4" STUDS SHALL BE USED AS THE BASIS OF PAYMENT OF 62.3 LBS. PER ONE HUNDRED STUDS.



COVER PLATE DETAIL
No Scale

SHEET 2 OF 2
DETAILS OF
54'-0" COMPOSITE W-BEAM SPANS
WOLF BAYOU
STONE COUNTY
ROUTE 14 SEC. 7
ARKANSAS STATE HIGHWAY COMMISSION

DRAWN BY: J.P.S. DATE: 3-18-83
CHECKED BY: C.P.B. DATE: 3/31/83 SCALE: as noted
DESIGNED BY: G.E.C. DATE: 2-14-83

BRIDGE NO. 6004 DRAWING NO. 25846