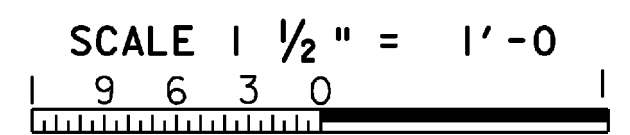


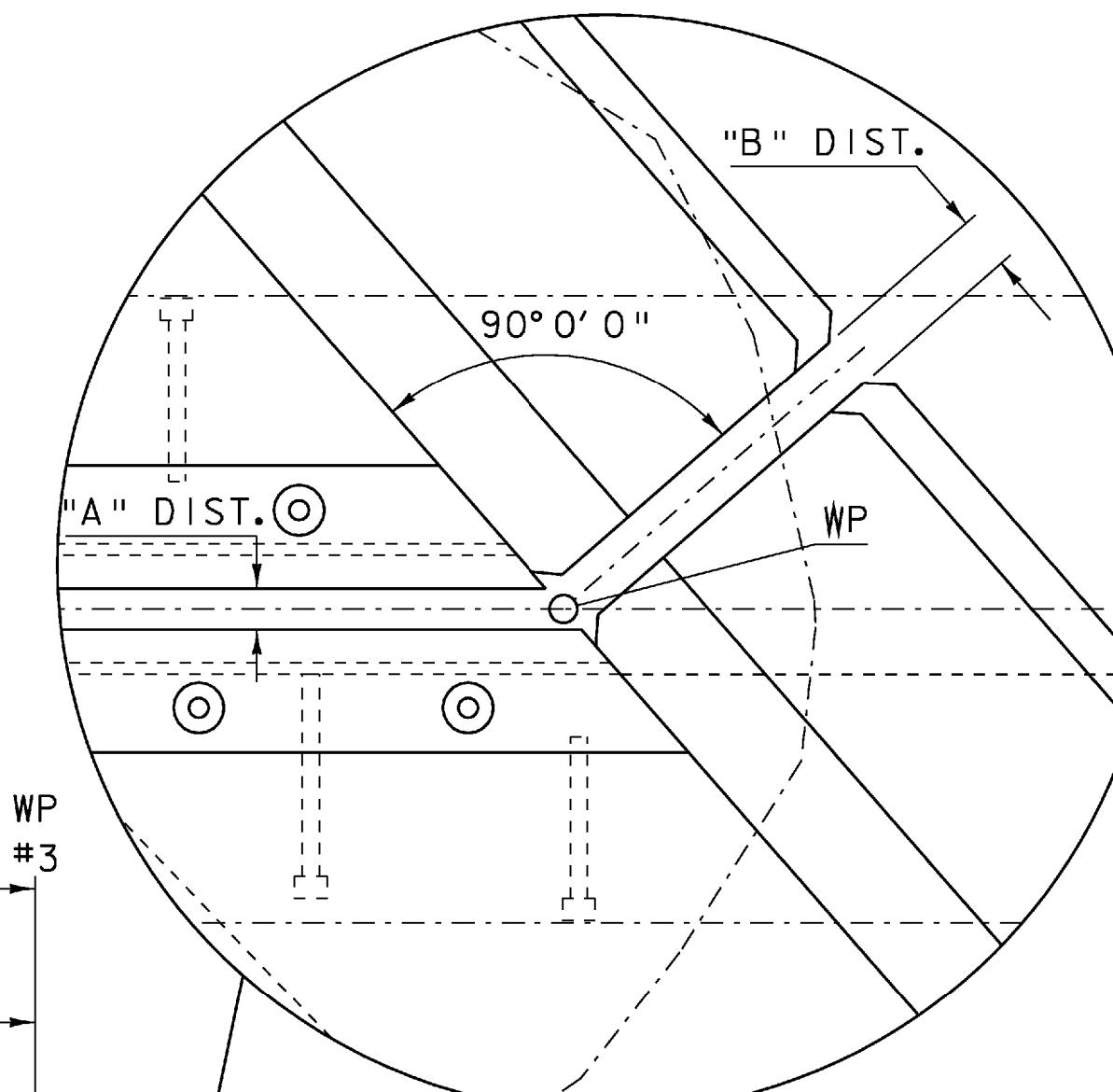
TYPICAL BRACKET DETAIL



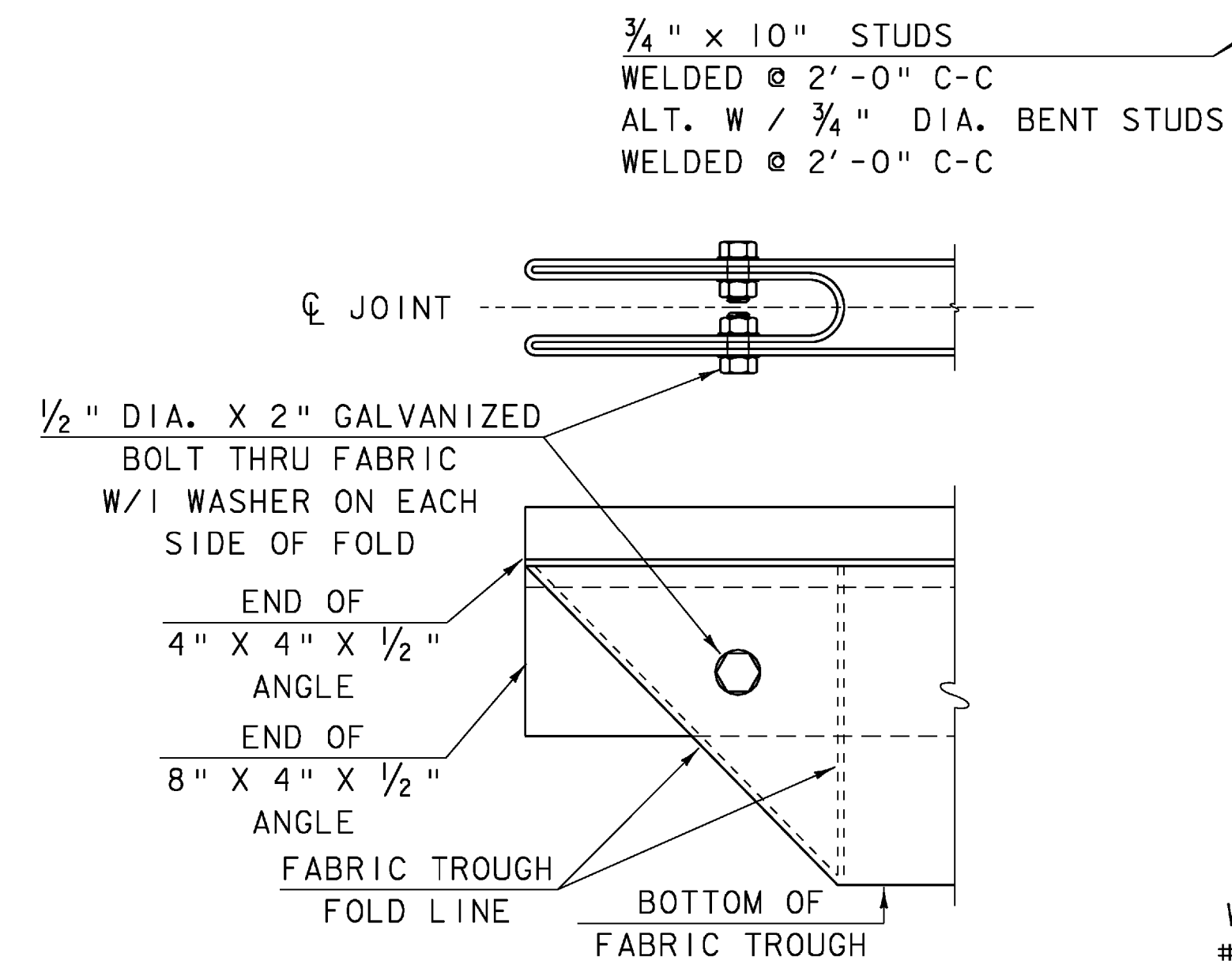
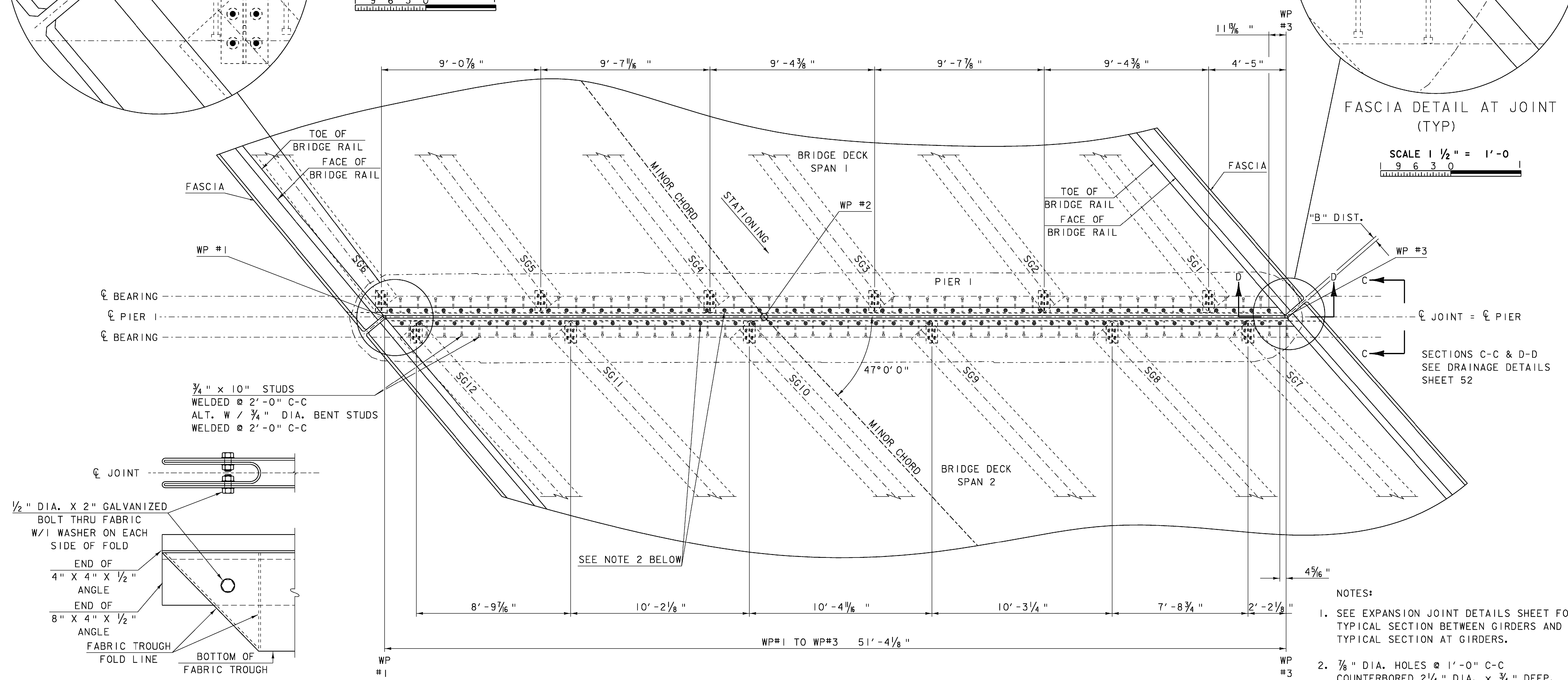
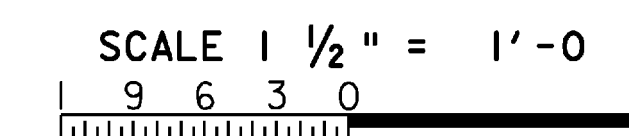
JOINT WORK POINTS						
WORK PT.	PIER	STATION	ELEV.	OFFSET	COORDINATES	
					N	E
#1	1	392+32.80	697.71	RT. 16'-6 1/4"	36790.35	17135.53
#2	1	392+46.67	695.74	0	36785.55	17114.45
#3	1	392+66.21	693.01	LT. 22'-6 1/4"	36778.95	17085.47

TEMP	"A" DIST.	"B" DIST.
105°F	1/2"	1 1/16"
90°F	3/4"	1"
75°F	1"	1 5/16" 3/8"
60°F	1 5/16"	1 3/4" 1/16"
45°F	1 9/16"	2 1/16"
30°F	1 11/16"	2 3/8"
15°F	2 1/16"	2 3/4"
0°F	2 3/8"	3 1/8" 1/16"
-15°F	2 5/8"	3 1/2" 1/16"

"A" IS THE SETTING AFTER DEAD LOADS ARE PUT IN PLACE.



FASCIA DETAIL AT JOINT (TYP)

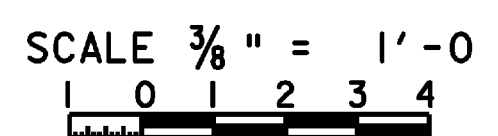


FOLDED TROUGH END DETAILS

NOT TO SCALE

NOTE: TROUGH FOLDED ON HIGH SIDE OF BRIDGE ONLY

EXPANSION JOINT @ PIER 1



- NOTES:
- SEE EXPANSION JOINT DETAILS SHEET FOR TYPICAL SECTION BETWEEN GIRDERS AND TYPICAL SECTION AT GIRDERS.
 - 7/8" DIA. HOLES @ 1'-0" C-C COUNTERBORED 2 1/4" DIA. x 3/4" DEEP.

PROJECT: BERLIN	PROJECT NO.: IM 089-1 (20)
DESIGN FILE NAME: 99a270\structures\s99a270vt\joint.dgn	PLOT DATE: 05-DEC-2007
IPARM FILE NAME: S99a270vt\joint.l.i	DRAWN BY: M. FESSEL
DESIGNED BY: VAOT	CHECKED BY: R.S. YOUNG
SQUAD LEADER: C.P. WILLIAMS	SHEET: 48 OF 104
EXPANSION JOINT @ PIER 1	