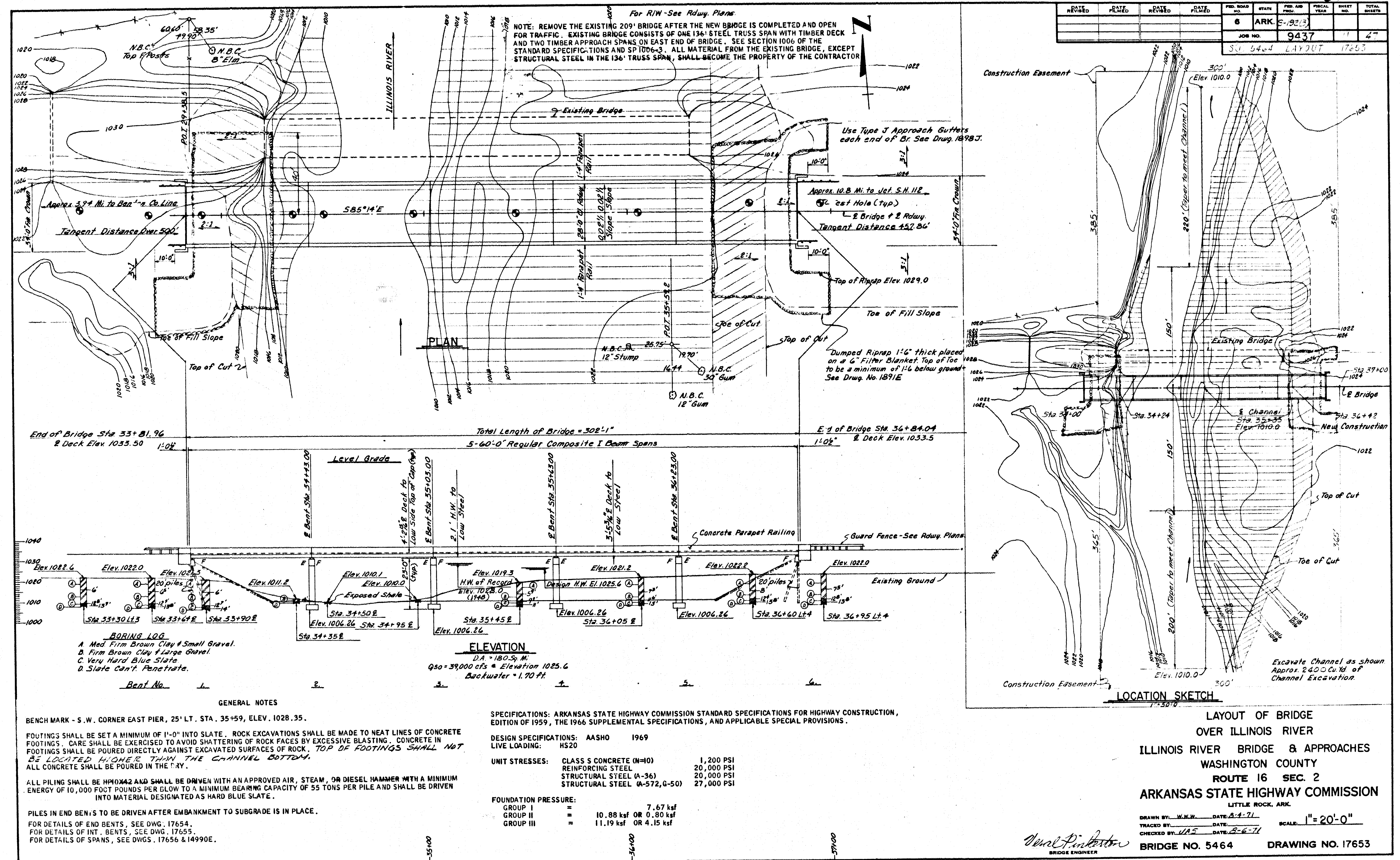
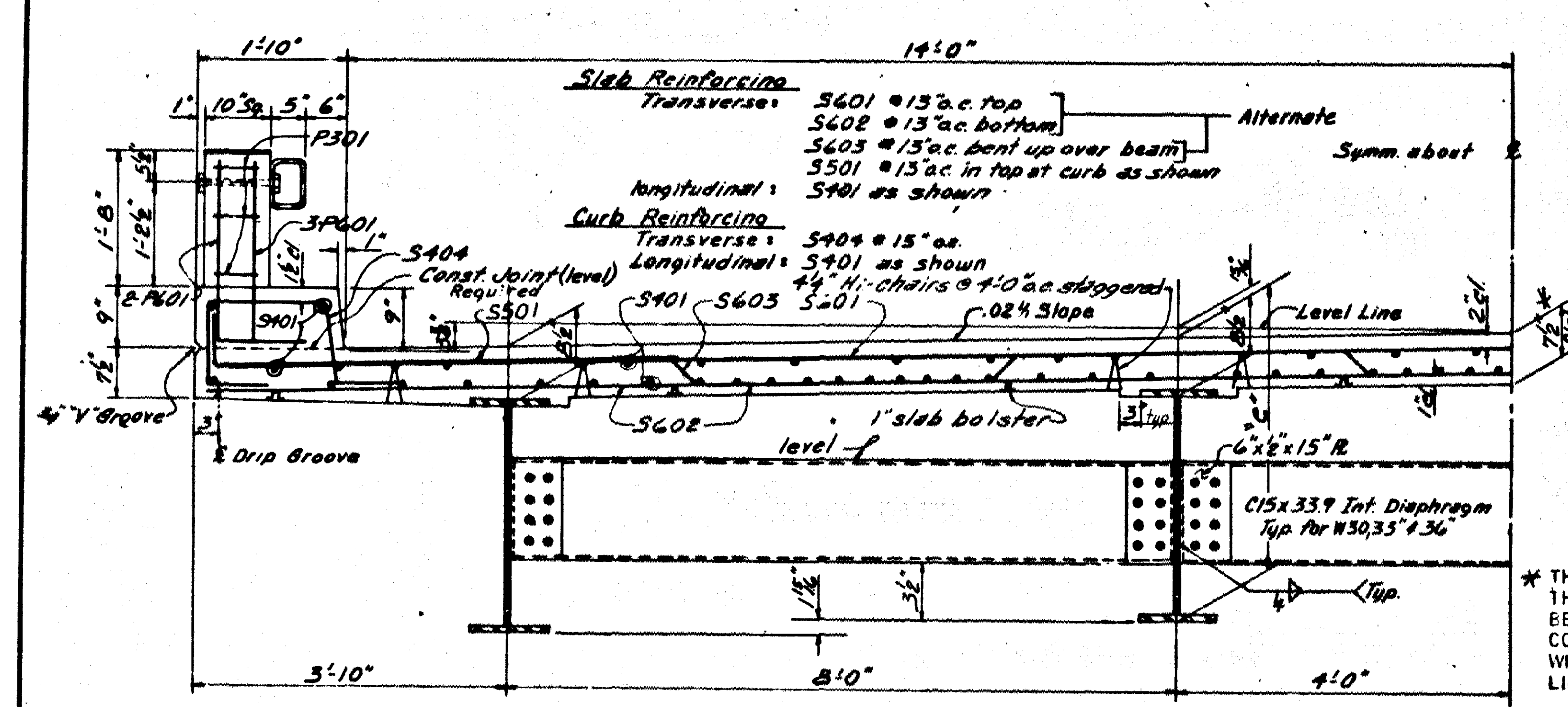


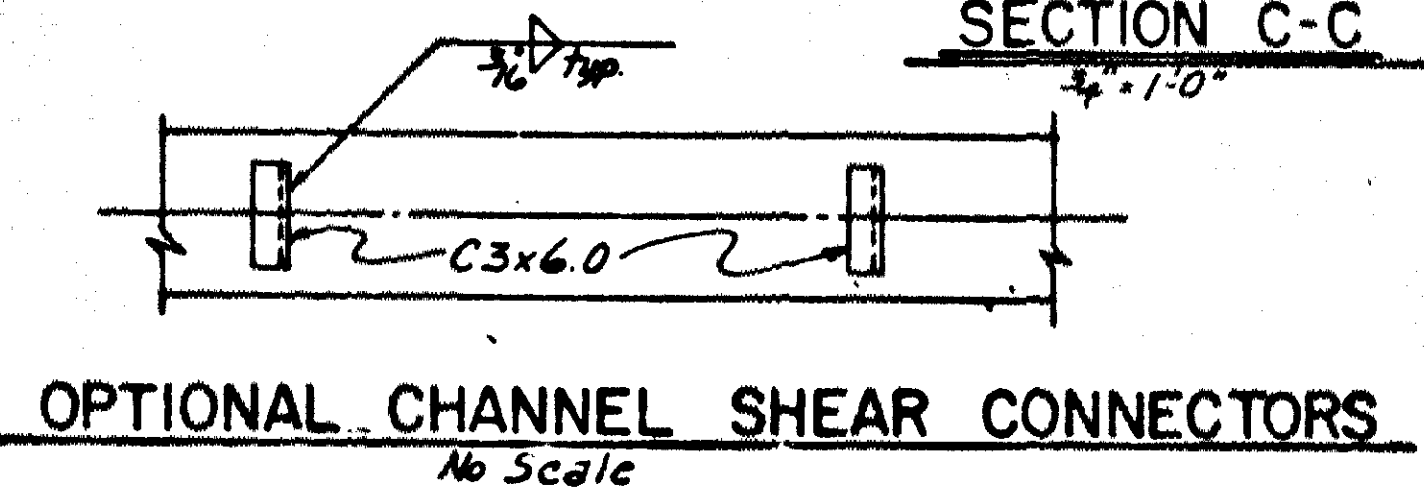
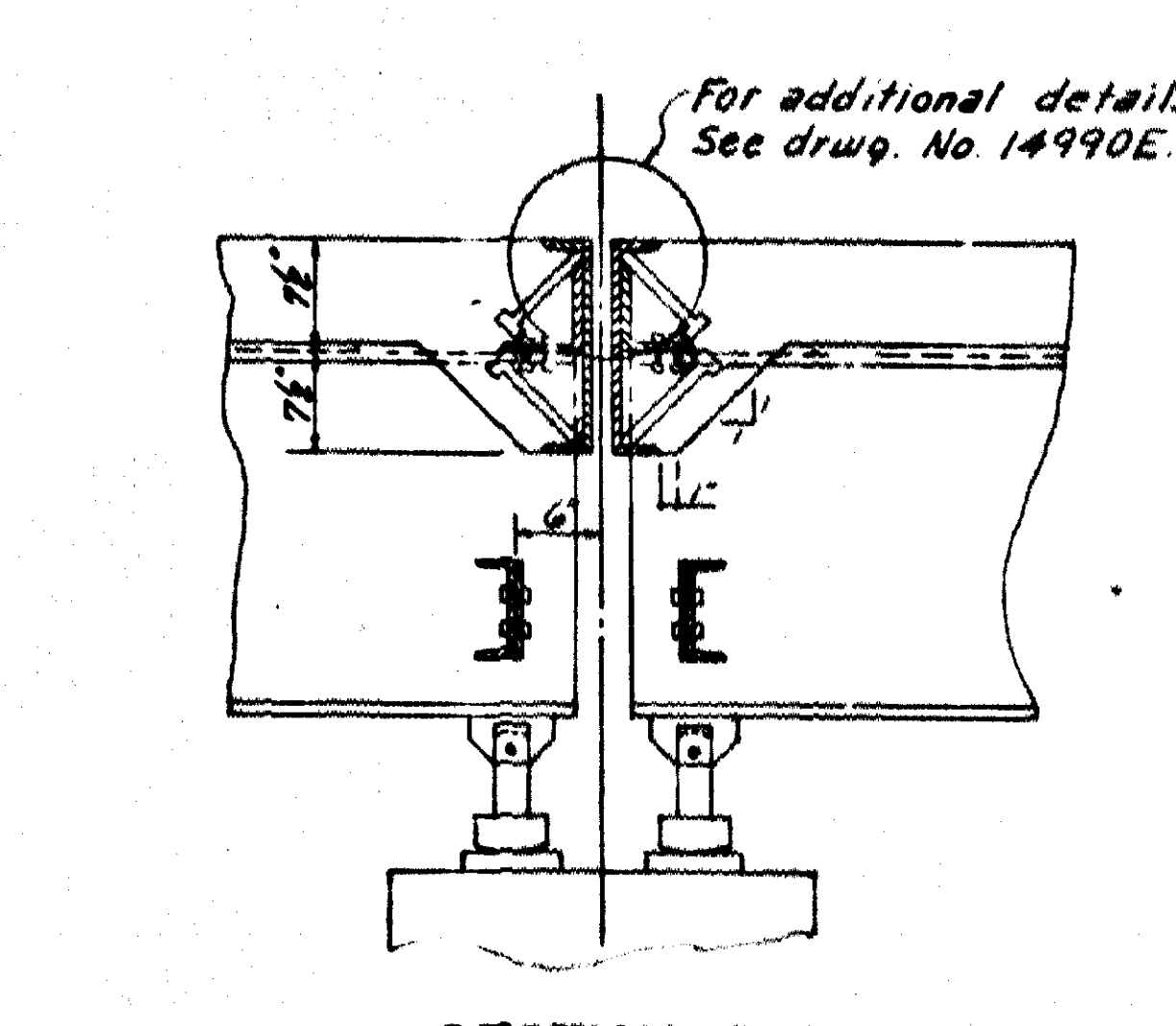
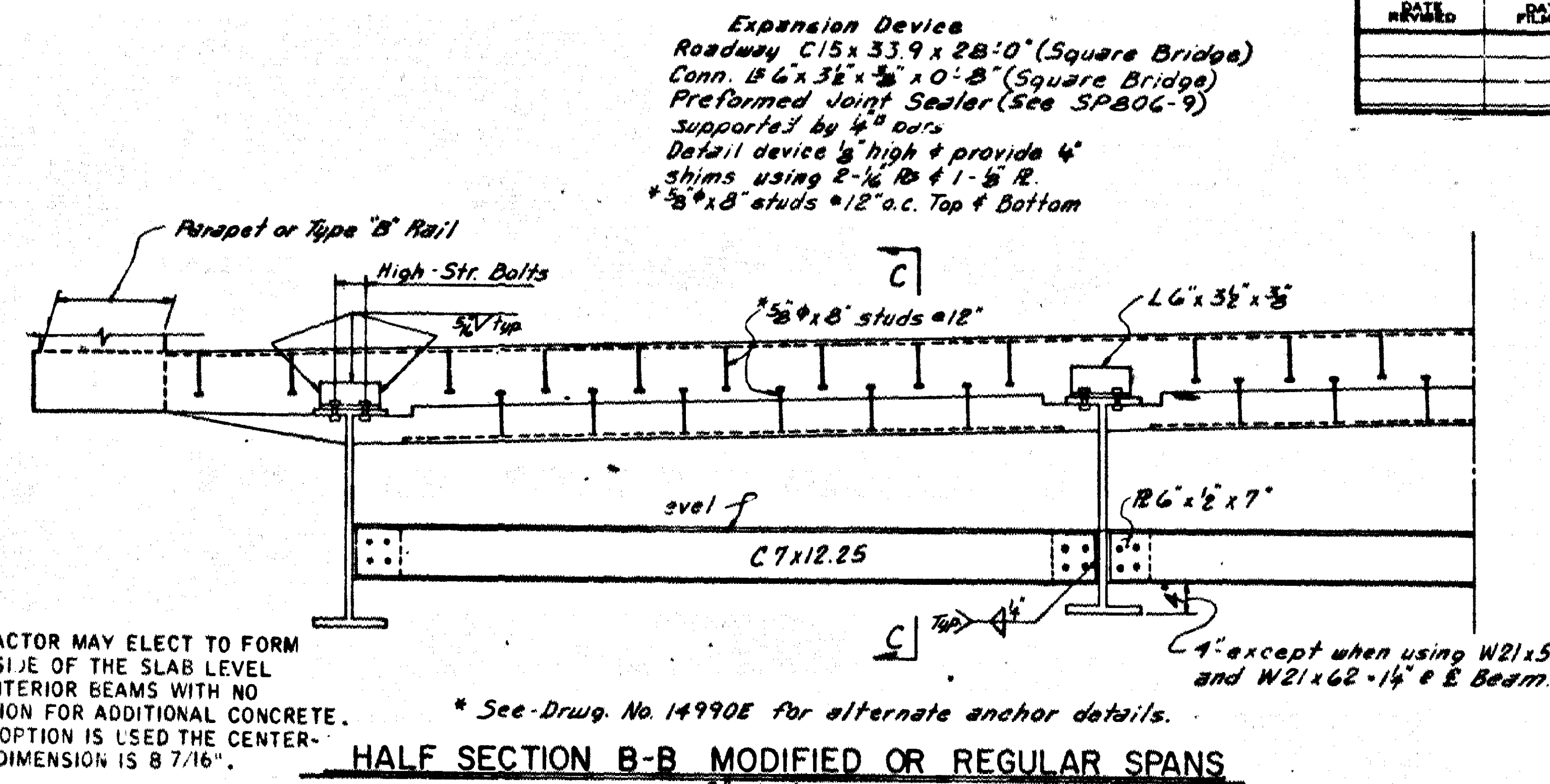
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROG.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				6	ARK.	5-9013			
				JOB NO.	9437			11	47
					SR. 64-64	LAYOUT		17653	



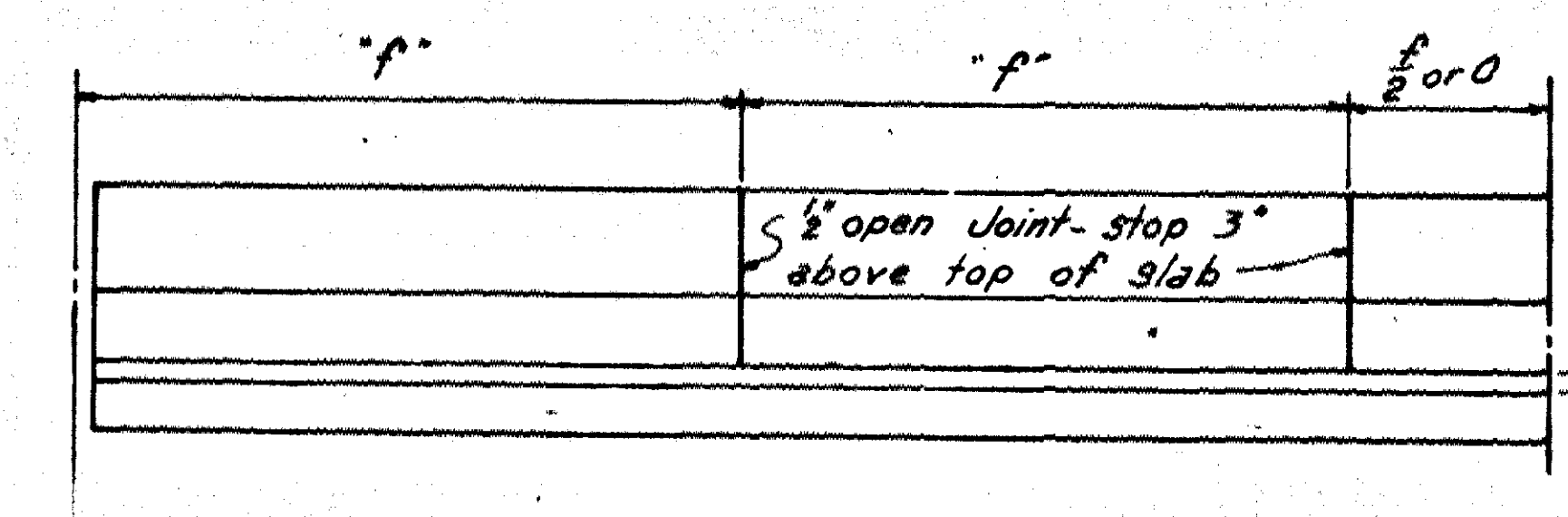
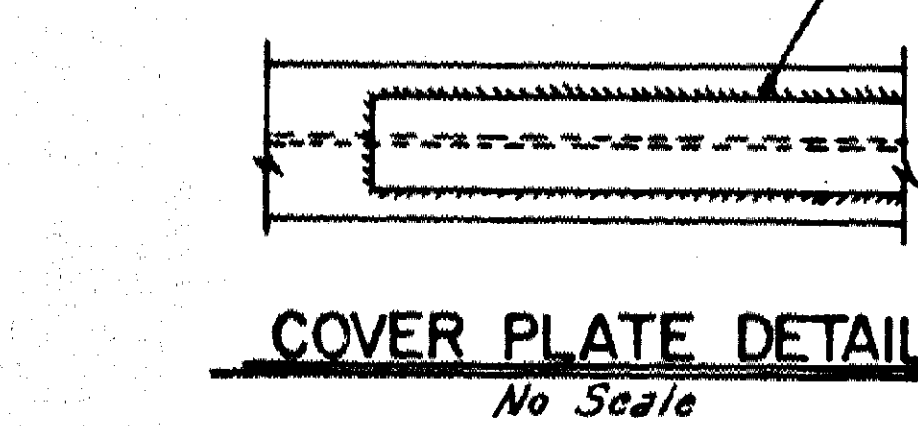
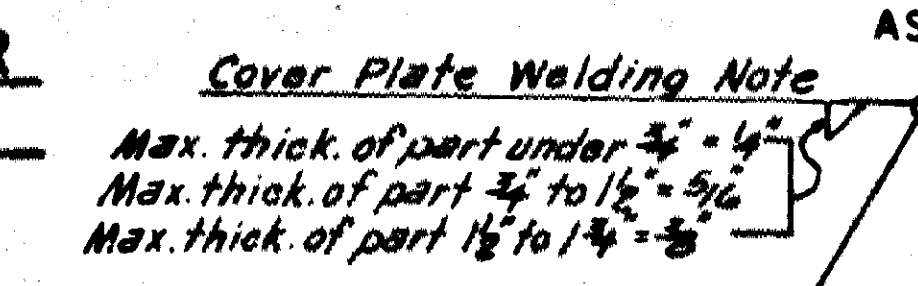
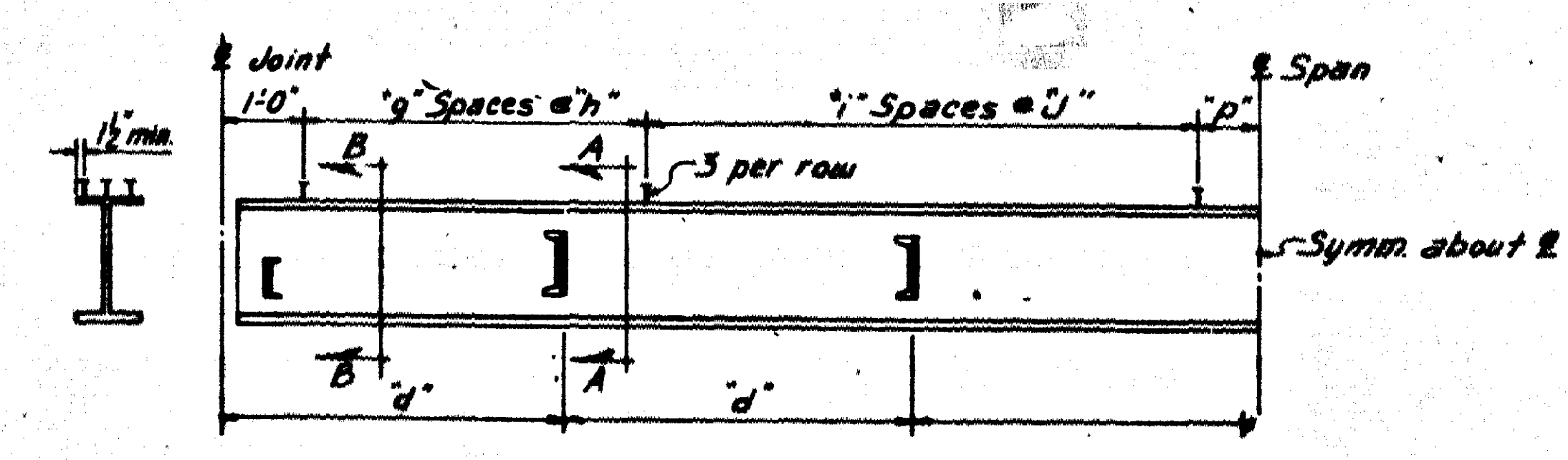
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				6	ARK.	S-92(3)			
				JOB NO		7237		14	4
				S@ 5464 SPAN					1745



* THE CONTRACTOR MAY ELECT TO FORM THE UNDERSIDE OF THE SLAB LEVEL BETWEEN INTERIOR BEAMS WITH NO COMPENSATION FOR ADDITIONAL CONCRETE WHEN THIS OPTION IS USED THE CENTER-LINE SLAB DIMENSION IS 8 7/16".



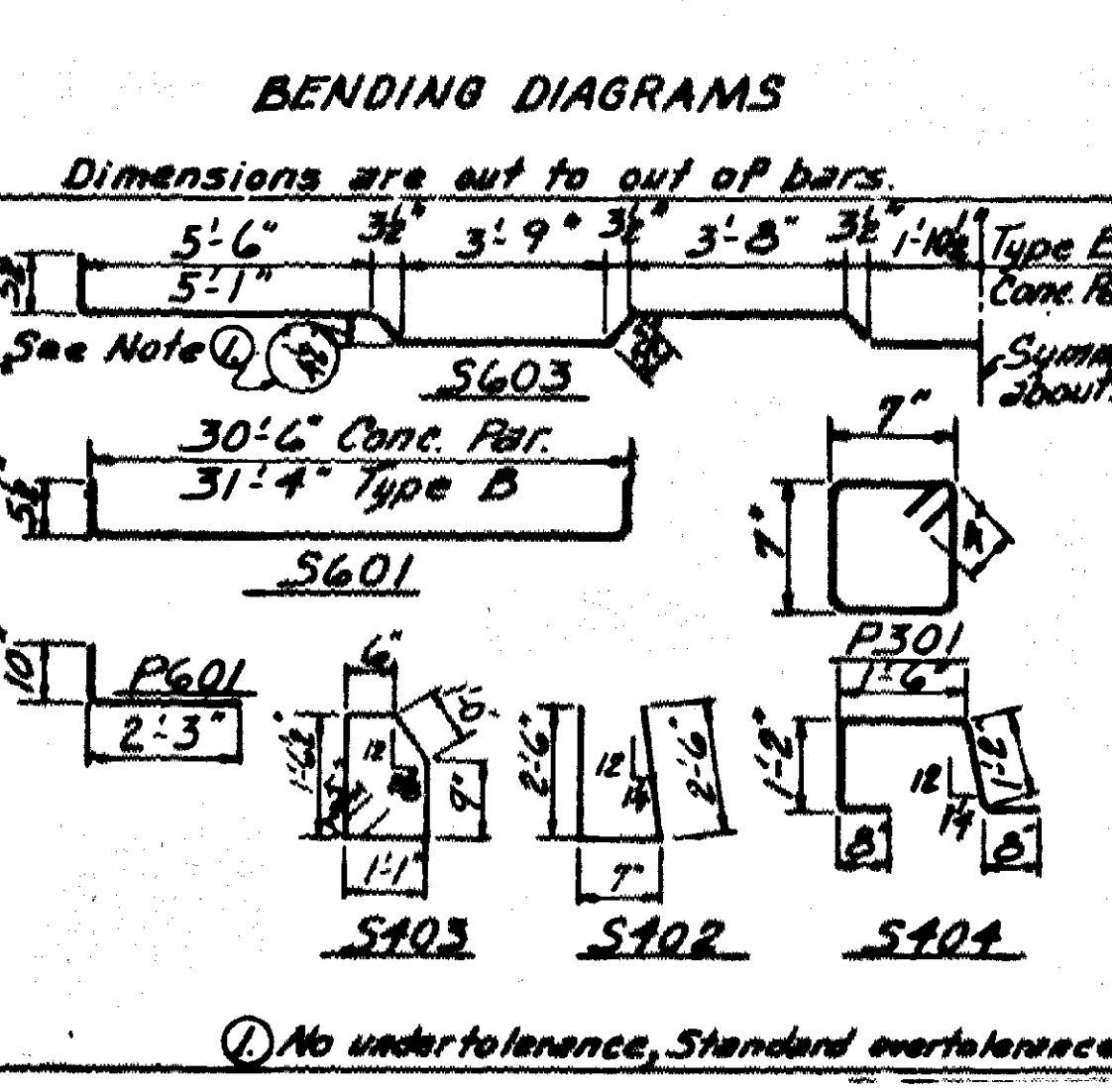
NOTE: 7/8" STUDS OR C36 CHANNELS MAY BE USED IN PLACE OF THE 3/4" STUDS THAT ARE SHOWN, AT THE RATIO OF 0.735-7/8" STUD OR 2.0 INCHES OF C36 CHANNEL IN PLACE OF ONE 3/4" STUD. THE STUD CONNECTORS SHALL BE 5" LONG AND MAY BE GRANULAR FLUX FILLED, SOLID FLUXED, OR EQUAL, AND AUTOMATICALLY WELD TO THE BEAM FLANGES IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER. 3/4" STUDS WILL BE USED AS BASIS FOR MEASUREMENT OF STRUCTURAL STEEL IN SHEAR CONNECTORS.

[illegible]

HALF SECTION A-A CONCRETE PARAPET RAIL
 $\frac{1}{2} = 1'-0"$
 Note: For additional diaphragm details - See Half Section A-A Type "B" Rail.

[illegible]

REINFORCING STEEL PER SPAN									
MARK	SIZE	LENGTH		PIN DIA.	SPAN LENGTH				
		CONCRETE PARAPET RAIL	TYPE B RAIL		GO				
						NUMBER REQUIRED			
S601	6	31'-3"	32'-1"	3"	55				
S602	6	30'-6"	31'-4"	5/8"	55				
S603	6	32'-1"	32'-11"	3"	54				
S401	4	5'-6"	5'-6"	5/8"	-				
S401	4	5'-9"	5'-9"	5/8"	176				
S402	4	5'-9"	-	2"	136				
S403	4	5'-4"	-	2"	136				
S404	4	-	5'-0"	2"	-				
S406	4	4'-6"	-	5/8"	48				
S501	5	5'-3"	5'-8"	5/8"	108				
P301	3	-	2'-9"	1 1/2"	-				
P601	6	-	3'-1"	3"	-				



11. STRUCTURAL STEEL SHALL BE PAID FOR AT THE PRICE BID PER POUND FOR STRUCTURAL STEEL IN BEAM SPANS (A572, GRADE 50)".

SEE DRAWING 14993B FOR DETAILS OF TYPE B RAIL.
THIS DRAWING TO BE USED WITH DRAWING 14990E.

LOADING: H2O or HS20 SEE LAYOUT

TYPE B RAIL DEAD LOAD:		INTERIOR BEAM	EXTERIOR BEAM
a. TO WF BEAM	761lb/' + 1.15(WT/FT OF WF)	851lb/' + 1.15(WT/FT OF WF)	
b. TO COMPOSITE BEAM	210lb/'	210lb/'	
LIVE LOAD:			
TO EACH COMPOSITE BEAM	1.455 WHEELS + IMPACT	1.333 WHEELS + IMPACT	
<u>CONCRETE PARAPET RAIL</u>			
DEAD LOAD:			
a. TO WF BEAM	761lb/' + 1.15(WT/FT OF WF)	790lb/' + 1.15(WT/FT OF WF)	
b. TO COMPOSITE BEAM	257lb/'	257lb/'	
LIVE LOAD:			
TO EACH COMPOSITE BEAM	1.455 WHEELS + IMPACT	1.333 WHEELS + IMPACT	

UNIT STRESSES:

CLASS 5 OR 5(AE) CONCRETE (N=10)	1,200 PSI
STRUCTURAL STEEL (A572, GRADE 50)	27,000 PSI (BEAM AND COVER PLATES
REINFORCING STEEL	20,000 PSI ONLY)
STRUCTURAL STEEL (A36)	20,000 PSI

BEAM AND COVER PLATES SHALL BE A572 GRADE 50, ALL OTHER STRUCTURAL STEEL SHALL BE A36.

DETAILS OF STANDARD
35'-90' COMPOSITE I-BEAM SPANS
28'-0" CLEAR RDWY.
0.02% PEAKED CROWN
ROUTE 16 SEC. 2
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: N.W.W. DATE: 9-23-82
TRACED BY: _____ DATE: _____
CHECKED BY: FMH DATE: 10-5-70 SCALE: AS NOTED
BRIDGE NO. 5464 DRAWING NO. 17656