

ESTIMATED BRIDGE QUANTITIES

ITEM NUMBER		801	801	SP&802	SP&802	803	804	SP 805-7	SP&806	812	SP	SP		
UNIT OF BRIDGE		COMMON EXCAVATION FOR STRUCTURES	ROCK EXCAVATION FOR STRUCTURES	CLASS A CONCRETE	CLASS S CONCRETE	REINFORCING STEEL	STEEL BEARING PILING (12 BP 53)	STEEL OR ALUM. PLATE GUARD BRIDGE RAILING	STRUCTURAL STEEL IN BEAM SPANS	BRIDGE NAME PLATES (TYPE C)	REMOVAL OF EXISTING BRIDGE STRUCTURE (ILLINOIS BAYOU) (ILL. BAY. RELIEF)	REMOVAL OF EXISTING BRIDGE STRUCTURE (MILL CREEK)		
		UNIT	CU.YD.	CU.YD.	CU.YD.	LB.	LIN.FT.	LIN.FT.	LB.	PLATE	COMPL. ITEM	COMPL. ITEM		
ILLINOIS BAYOU BRIDGE NO. 3643	WEST ABUTMENT		100	-	31.90	19.53	7765	468	-	639	1			
	PIER NO. 1		93	-	57.29	12.31	9710	336	-	-	-			
	PIER NO. 2		69	-	57.29	12.31	9710	348	-	-	-			
	PIER NO. 3		147	43	133.44	18.94	17192	-	-	-	-			
	PIER NO. 4		165	45	133.44	18.94	11514	-	-	-	-			
	PIER NO. 5		58	-	61.70	12.31	11684	300	-	-	-			
	PIER NO. 6		88	-	60.85	12.31	11628	252	-	-	-			
	PIER NO. 7		72	-	57.29	12.31	9710	288	-	-	-			
	EAST ABUTMENT		80	-	39.90	19.52	7765	336	-	639				
	ONE 61'-10", 77'-0", 77'-0", 61'-10" CONTINUOUS I-BEAM SPAN		-	-	-	209.31	50011	-	576.8	240531	-			
	ONE 61'-10", 77'-0", 77'-0", 61'-10" CONTINUOUS I-BEAM SPAN		-	-	-	209.31	50011	-	576.8	240531	-			
	TOTALS BRIDGE NO. 3643		867	88	641.1	557.1	196700	23.0	1153.6	482340	1	100%		
MILL CREEK BRIDGE NO. 3644	WEST ABUTMENT		122	14	22.59	18.05	6037	-	-	639	1			
	PIER NO. 1		217	16	44.91	15.49	8833	-	-	-	-			
	PIER NO. 2		151	12	35.51	15.19	7002	-	-	-	-			
	EAST ABUTMENT		46	6	11.99	18.05	3877	-	-	639				
	TWO 40'-8" COMPOSITE I-BEAM SPAN		-	-	-	60.05	14435	-	168.5	61328	-			
	ONE 98'-7" COMPOSITE I-BEAM SPAN		-	-	-	78.07	17316	-	198.7	150414	-			
	TOTALS BRIDGE NO. 3644		539	48	115.3	204.9	51500	-	367.2	213020	1	100%		
TOTALS, BRIDGES NO. 3643, 3644			1406	136	756.4	762.0	254,200	2,328	1520.8	695,360	2	100%	100%	

BRIDGES NO. 3643, 3644 DRAWING NO. 11914

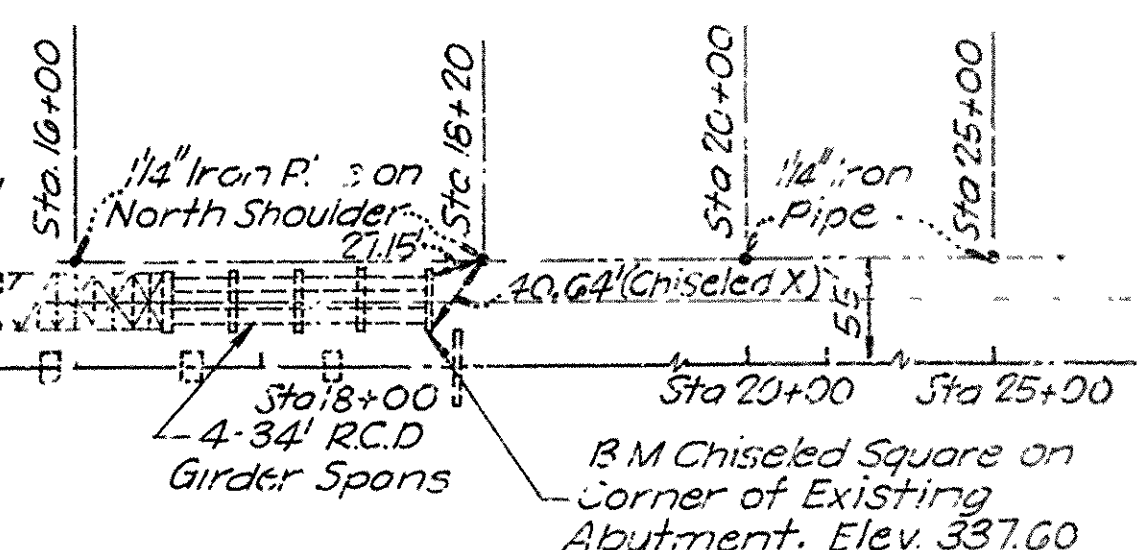
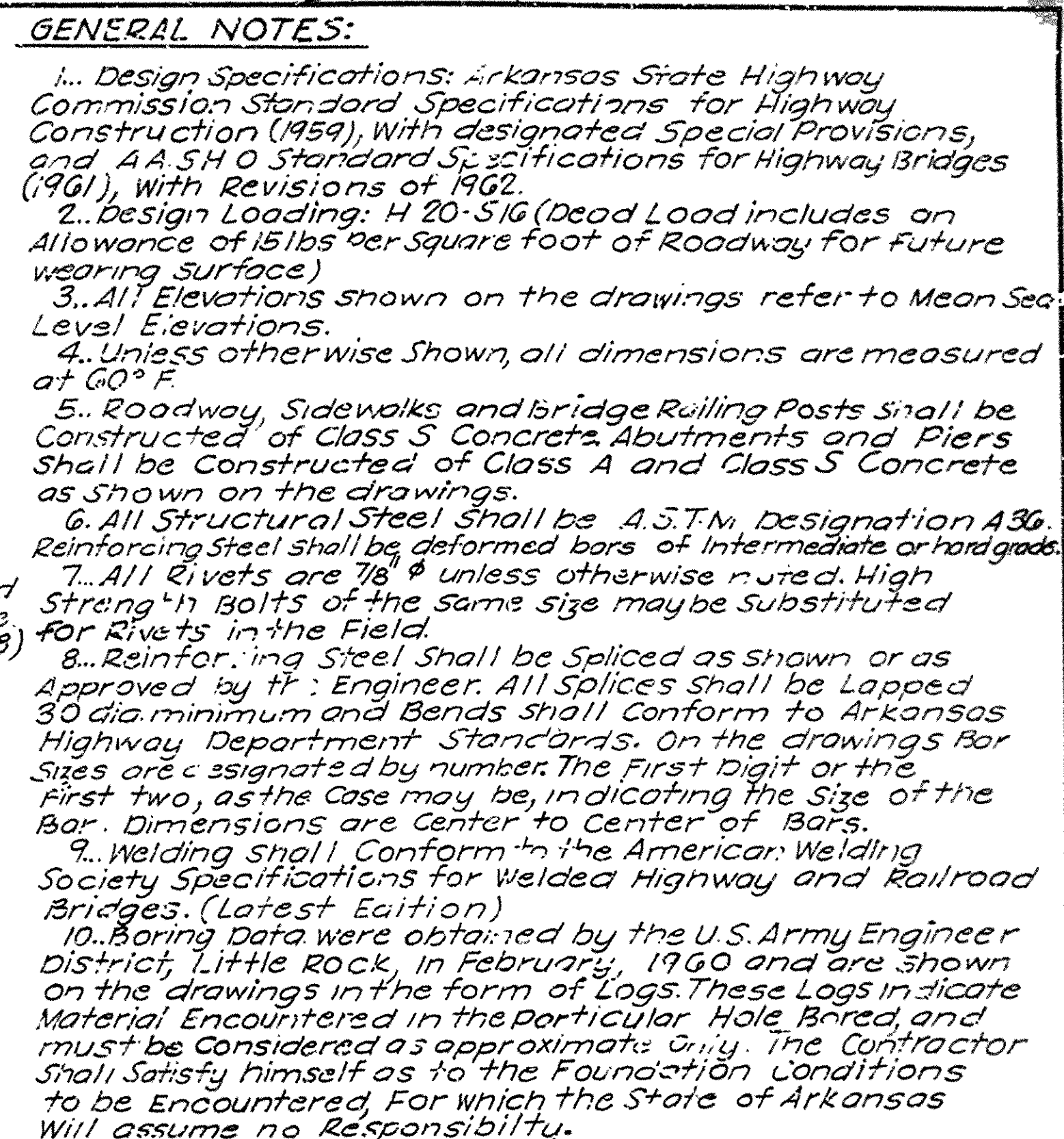
NO.	MADE	DATE	REVISIONS

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

JOB 8516
ILLINOIS BAYOU BRIDGE
MILL CREEK BRIDGE

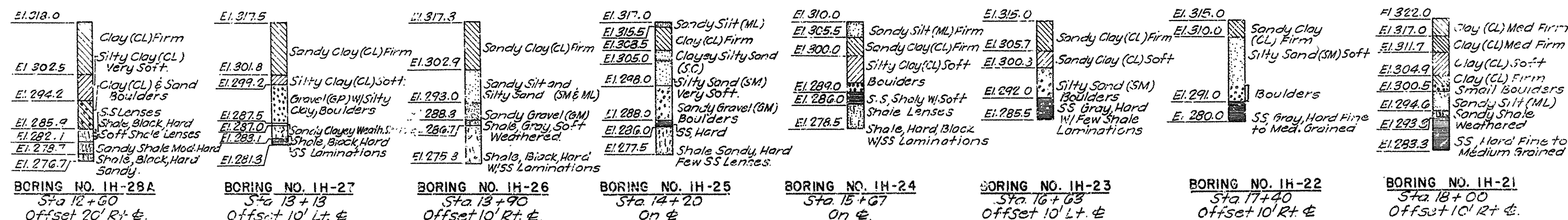
ESTIMATED BRIDGE QUANTITIES

DRAWN BY GWB	GARVER & GARVER, Inc. ENGINEERS LITTLE ROCK, ARKANSAS	SCALE None
CHECKED BY JPB		SHEET No.
DATE Aug 1962		58 OF 69



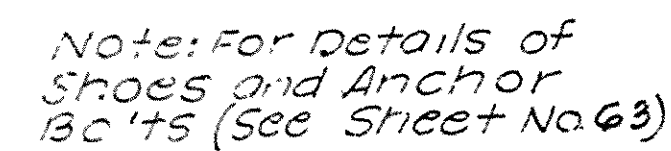
11... The Existing Highway G4 Bridge described generally on the Ground Plan above shall be removed in the manner and to the extent set forth in the Special Provision included in the Specifications.

12... Lengths of 12 BP53 Piles Shown shall be ordered and driven to refusal, or to a minimum depth of 2 feet into the material designated as rock on the borings. The minimum bearing capacity per pile shall be 47 Tons. Cutoff and/or buildup shall be measured and paid for as provided in the Specifications.



Note: Footings for Piers 3 & 4 to be carried at least 2'-0" into Rock.

5		ADJGE NO. 3643		DRAWING NO. 1315	
NO.		MADE		DATE	
				REVISIONS	
<p align="center">ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARKANSAS</p>					
<p align="center">JOB 3516</p>					
<p align="center">ILLINOIS BAYOU BRIDGE</p>					
<p align="center">GENERAL PLAN AND ELEVATIONS</p>					
DRAWN BY		G.W.B.		SCALE	
CHECKED BY		W.U.D.		As Noted	
DATE		Aug 1967		1:10 P.L.C.	
		GARVER & GARVER, Inc		57 OF 69	
		ENGINEERS			
		LITTLE ROCK, ARKANSAS			



Note: West and East
Apartment identical



REINFORCEMENT SCHEDULE			
BENT BARS EACH ABUTMENT			
MARK	NO.	LENGTH	BENDING DIAGRAM
901	18	14'-0"	
1006	24	8'-2 7/8"	
413 TO 428	2 Ea	Varies 14'-3" TO 9'-11"	
431	23	11'-9"	
1032	4	31'-3"	
436	28	3'-11"	
445 TO 450	2 Ea	Varies 3'-5 7/8" TO 6'-9 7/8"	
353	8	6'-9"	

<u>ABUTMENT LOADS</u>	
Dead Loads From Superstructure	105.6 K
Live Load	58.7 K Lane
Base Pressures	
GROUP I Max	74.9 K/Pile
Min.	25.0 K/Pile
GROUP II Max.	74.1 K/Pile
Min.	21.1 K/Pile
GROUP III Max	77.9 K/Pile
Min.	29.1 K/Pile
Allowable Base Pressures	
GROUP I	93.5 K/Pile
GROUP II and III	116.8 K/Pile

BRIDGE NO. 43 DRAWING NO. 11916

NO.	MADE	DATE	REVISIONS		
ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARKANSAS					
JOB 9516					
ILLINOIS BAYOU BRIDGE WEST AND EAST ABUTMENTS					
DRAWN BY J. R. B.			SCALE 3/8" = 1'-0"		
CHECKED BY W. J. D.			GARVER & GARVER, Inc. ENGINEERS		
DATE Aug. 1962			LITTLE ROCK, ARKANSAS SHEET NO 28 OF 29		

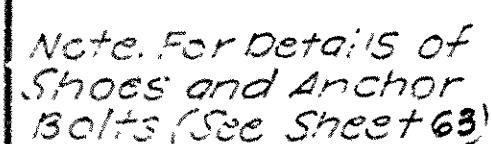


Top of Pier Elev
Piers 1 and 7 547.36
Pier 2 348.79
Pier 5 349.23
Pier 6 348.79



FOOTING PLAN

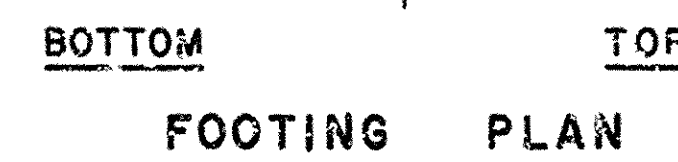
SCALE
3/8" = 1'-0"
SHEET No
59 of 69

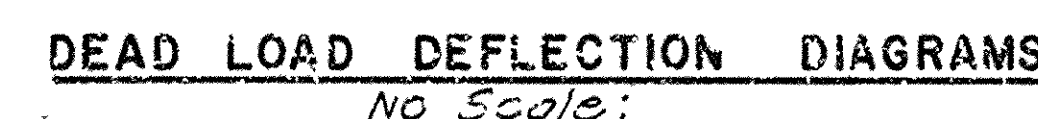
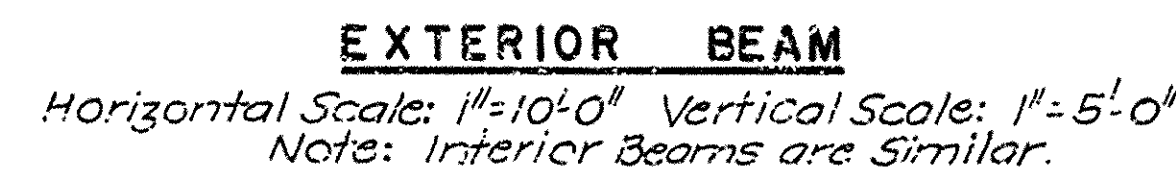
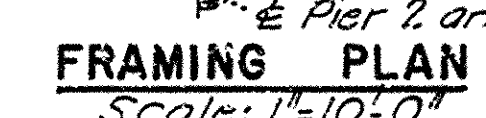


	353.0 K	241.2 K
Dead Load From Superstructure		
Live Load	19.6 K/lane	58.7 K/lane
Base Pressures		
GROUP I Max.	5.2 K.S.F.	4.5 K.S.F.
Min.	2.5 K.S.F.	2.2 K.S.F.
GROUP II Max.	7.2 K.S.F.	6.6 K.S.F.
Min.	0.6 K.S.F.	0.0 K.S.F.
GROUP III Max.	7.8 K.S.F.	6.6 K.S.F.
Min.	0.0 K.S.F.	0.1 K.S.F.
Allowable Base Pressures		
GROUP I	20.0 K.S.F.	20.0 K.S.F.
GROUP II and III	25.0 K.S.F.	25.0 K.S.F.

REINFORCEMENT			SCHEDULE		
STRAIGHT			BARS		
PIER 3			PIER 4		
MAPK	NO.	LENGTH	MARK	NO.	LENGTH
503	11	21'-6"	503	11	21'-6"
504	18	13'-6"	504	18	13'-6"
1106	26	32'-7"	906	26	31'-9"
1107	4	24'-0"	907	4	24'-0"
1110	22	33'-10"	910	22	33'-10"
1111	4	22'-0"	911	4	22'-0"
1044	9	16'-0"	Not Used		
445	2	14'-4"	445	2	14'-4"
446	2	22'-4"	446	2	22'-4"
447	6	28'-3"	447	6	28'-3"

REINFORCEMENT SCHEDULE						BENT BARS
PIER 3			PIER 4			BENDING DIAGRAM
MARK	NO.	LENGTH	MARK	NO.	LENGTH	
701	21	23'-2"	601	21	22'-11"	
702	26	15'-2"	602	26	14'-11"	
1105	30	10'-3 7/8"	905	30	9'-2 7/8"	
408	21	19'-11 1/4"	408	21	19'-11 1/4"	
409	42	8'-9 1/4"	409	42	8'-9 1/4"	
412	21	15'-11 3/4"	15'-11 1/4"	
413	42	7'-7 3/4"	413	42	7'-7 3/4"	
814	4	29'-4 1/2"	814	4	29'-4 1/2"	
415 To 429	2Ea	Varies 11'-0 1/2" To 13'-11 1/2"	415 To 429	2Ea	Varies 11'-0 1/2" To 13'-11 1/2"	
430 To 442	2Ea	Varies 14'-2" To 16'-1"	430 To 442	2Ea	Varies 14'-2" To 16'-1"	
1043	9	31'-3"	843	10	30'-9"	
448	9	4'-9 1/2"	448	9	4'-9 1/2"	



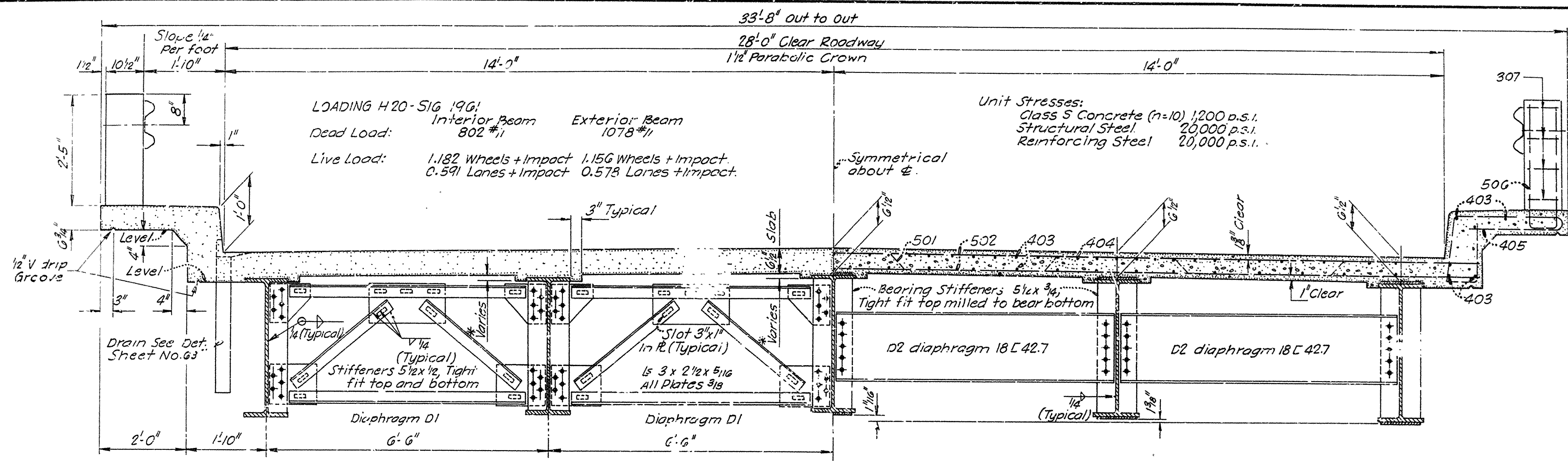


SLAB POURING SEQUENCE AND
JOINT LOCATION DIAGRAM
No Scale.

NOTE: Camber Beams for
Dead Load Deflection
and Vertical Curve.

BRIDGE NO. 3643 DRAWING NO. 11919

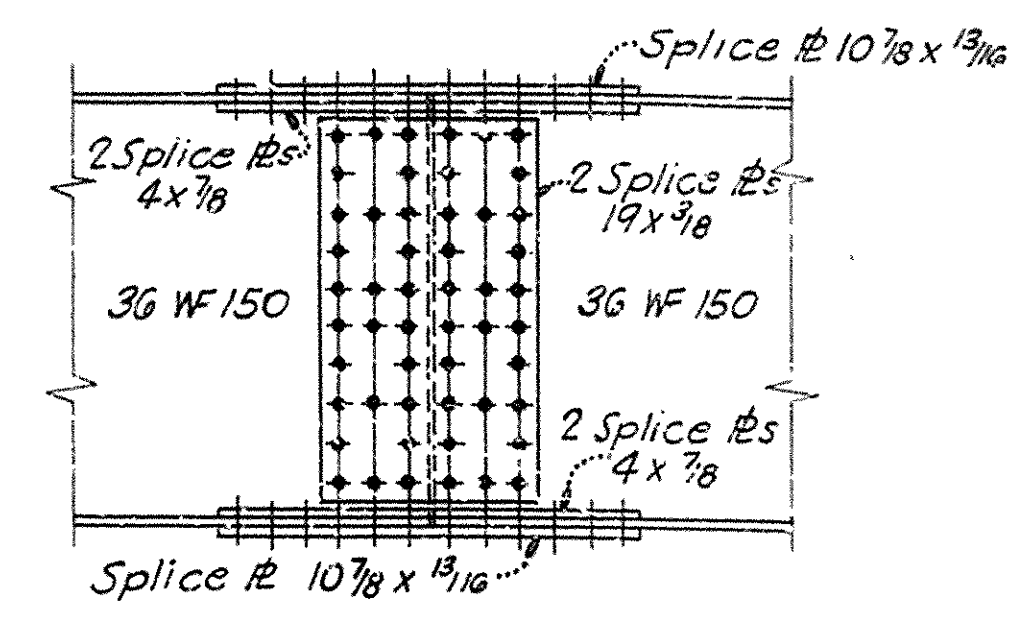
NO.	MADE	DATE	REVISION
<p>ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARKANSAS</p>			
<p>JOB 8513</p>			
<p>ILLINOIS BAYOU BRIDGE</p>			
<p>SLAB PLAN FRAMING PLAN DEFORMATION DIAGRAMS</p>			
<p>DRAWN BY M.G.G. CHECKED BY G.W.B. DATE Aug 1962</p>	<p>GARVER & GARVER Inc. ENGINEERS LITTLE ROCK, ARKANSAS</p>		<p>SCALE As Noted SHEET N. 61 OF 62</p>



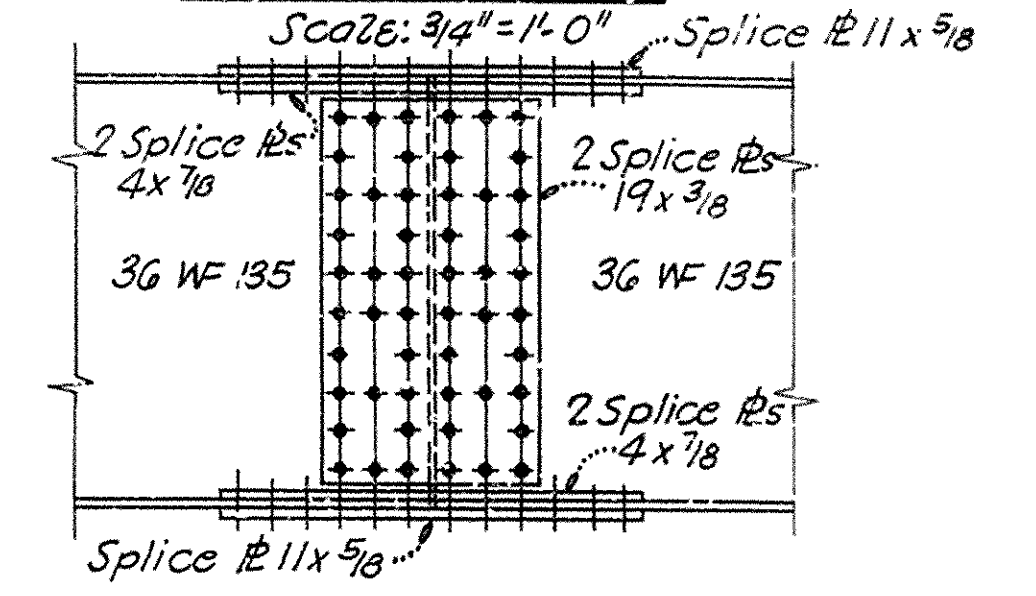
HALF SECTION AT INTERMEDIATE DIAPHRAGM
Scale: 3/4" = 1'-0"

HALF SECTION AT PIER
Scale: 3/4" = 1'-0"

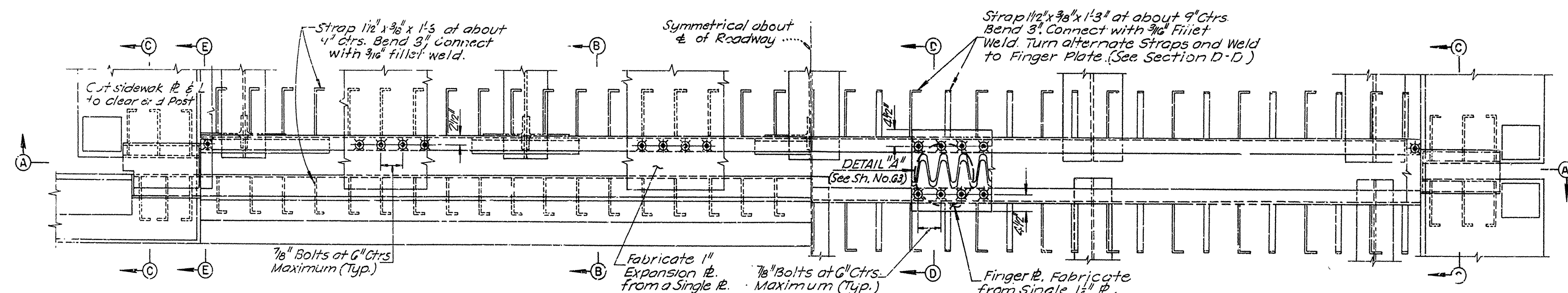
* Varies from the final position of the cambered beam in order to maintain the planned grade and the constant slab thickness.



FS1
FIELD SPLICES
Scale: 3/4" = 1'-0"

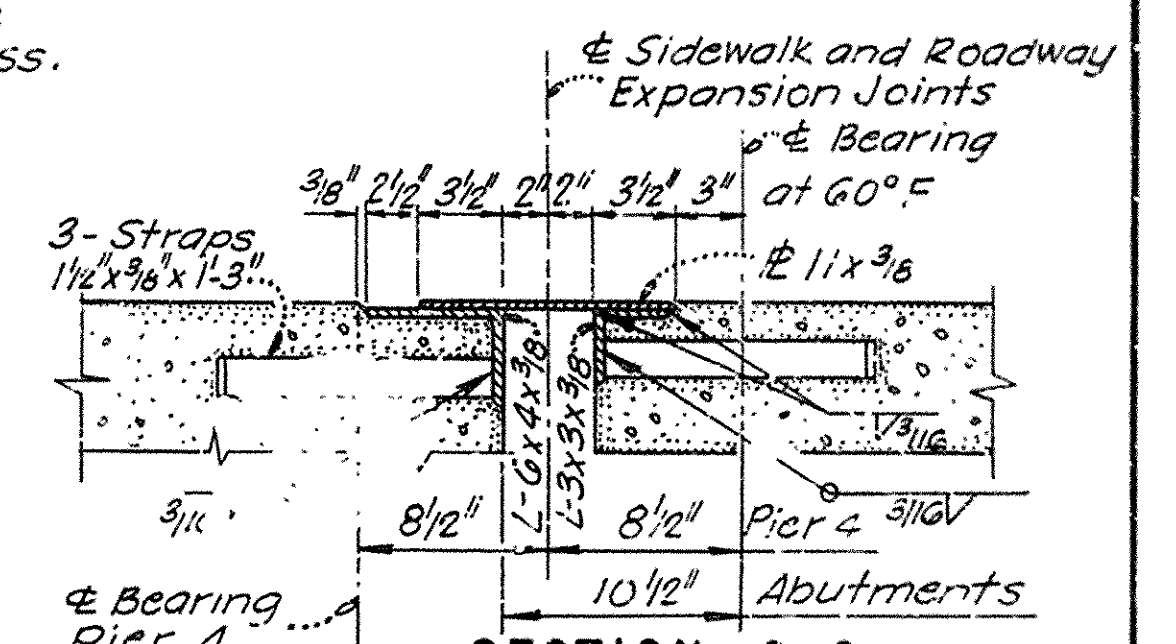


FS2

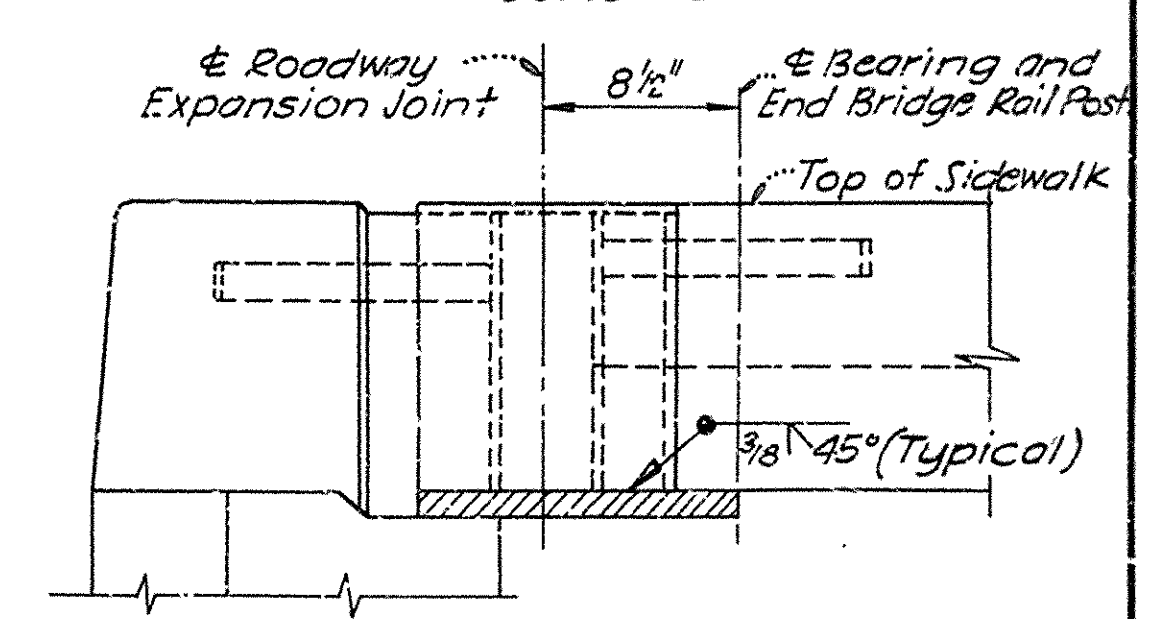


HALF PLAN OF EXPANSION JOINTS AT ABUTMENTS
Scale: 3/4" = 1'-0"

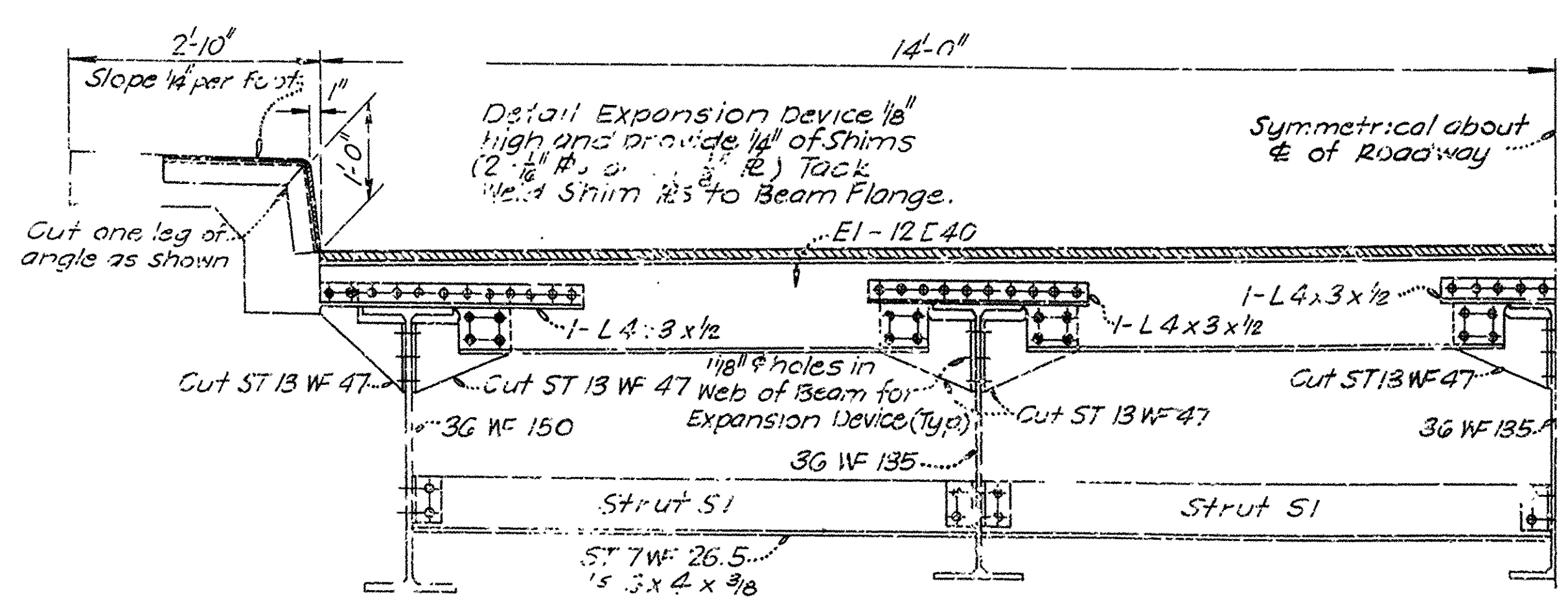
HALF PLAN OF EXPANSION JOINTS AT PIER 4
Scale: 3/4" = 1'-0"



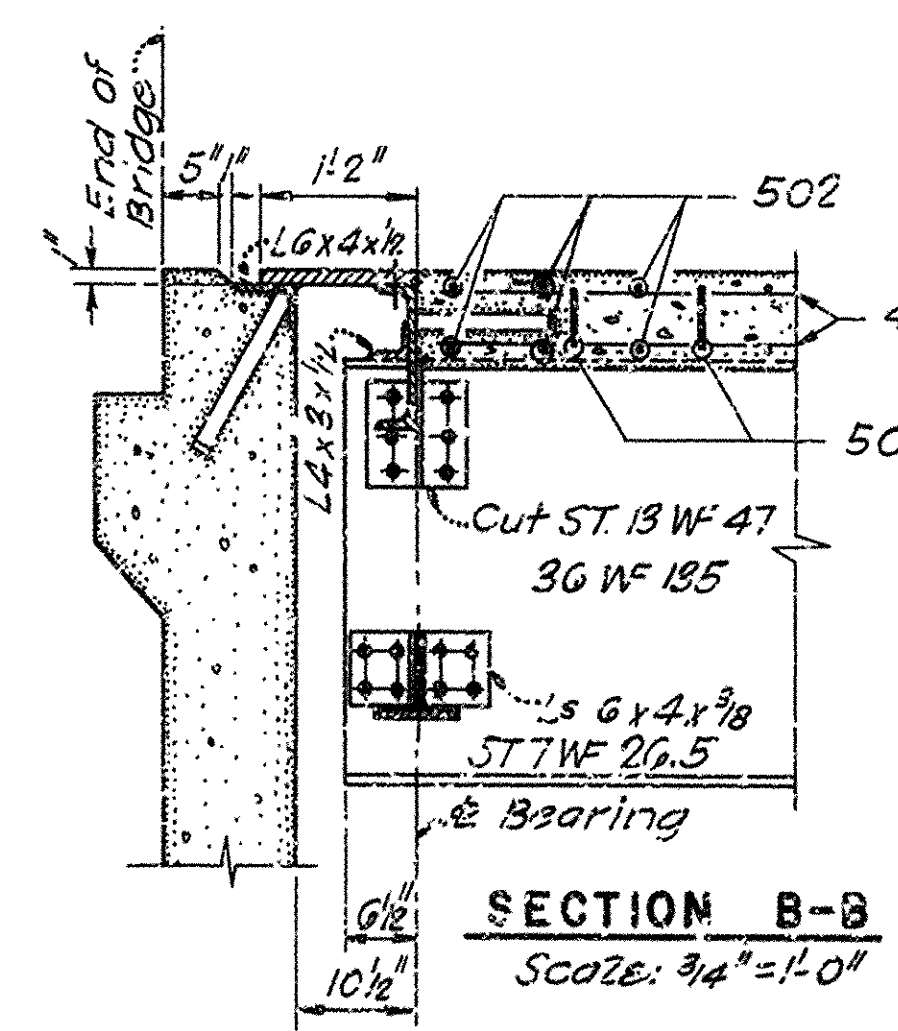
SECTION C-C
Scale: 1 1/2" = 1'-0"



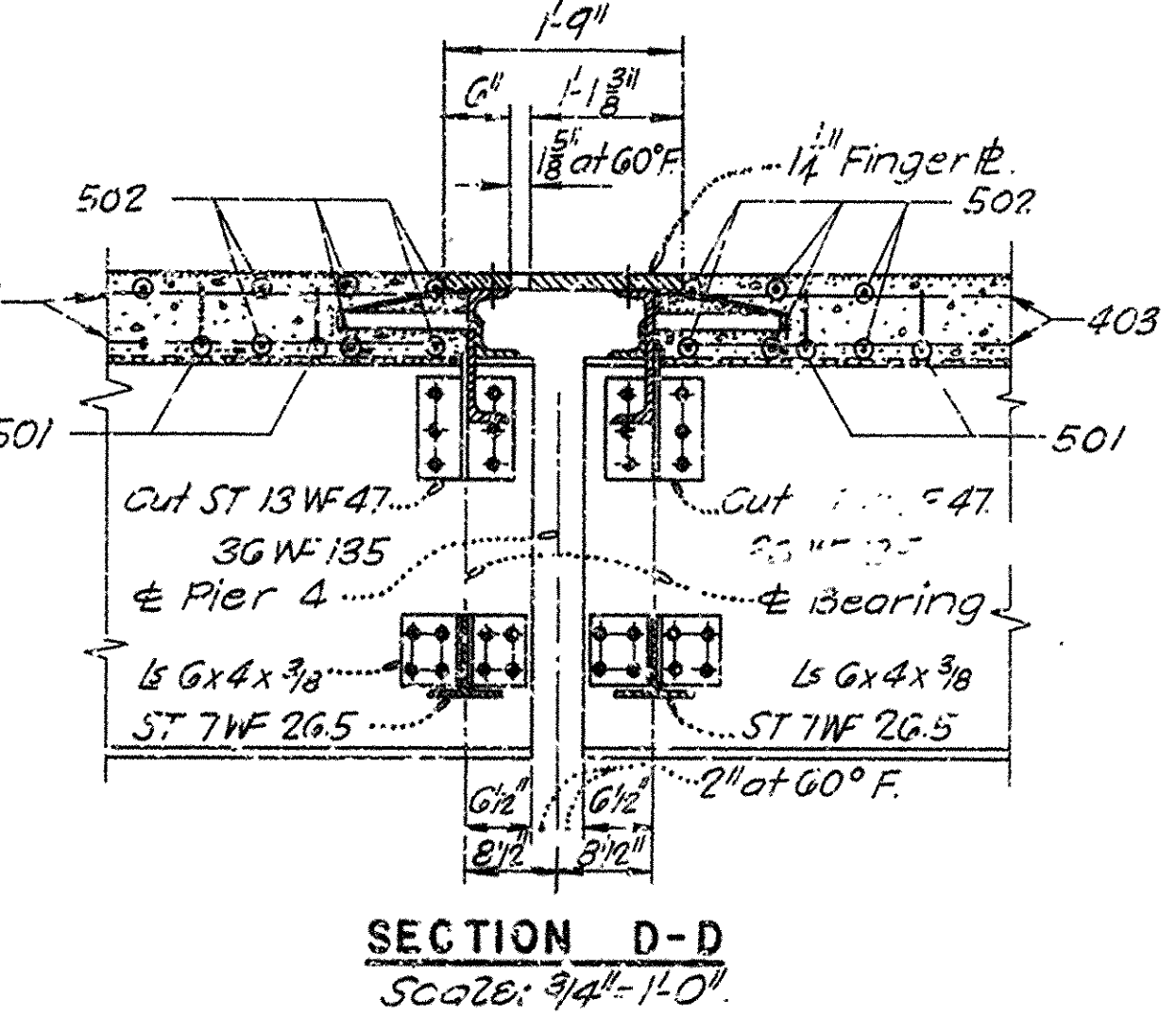
SECTION E-E
Scale: 1 1/2" = 1'-0"



HALF SECTION A-A
Scale: 3/4" = 1'-0"

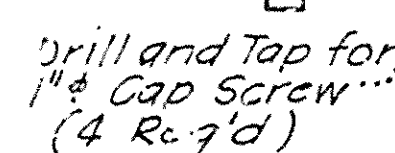


SECTION B-B
Scale: 3/4" = 1'-0"



SECTION D-D
Scale: 3/4" = 1'-0"

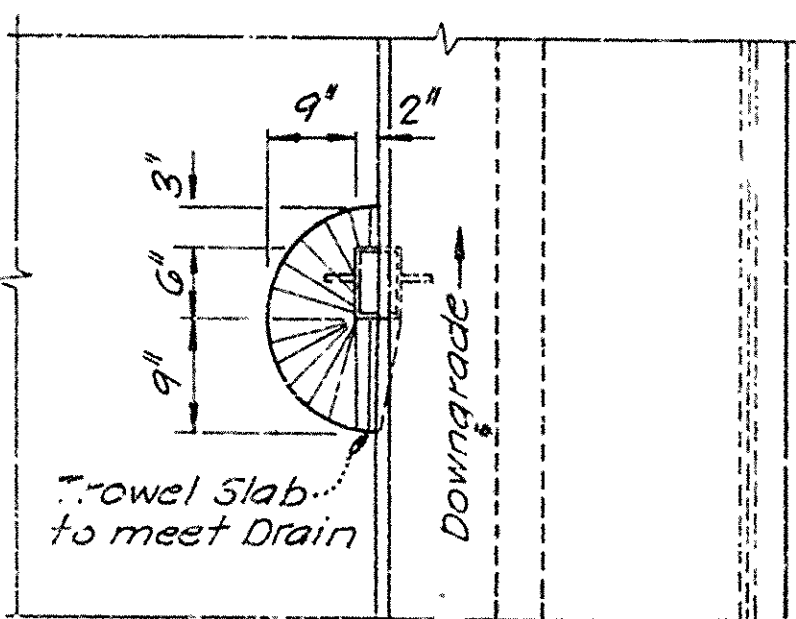
BRIDGE NO. 3643 DRAWING NO. 11920			
NO.	MADE	DATE	REVISION
ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARKANSAS			
JOB 8516 ILLINOIS BAYOU BRIDGE			
CROSS SECTIONS EXPANSION DAMS DIAPHRAGMS			
DRAWN BY M. G. G.	GARYER & GARYER, Inc. ENGINEERS LITTLE ROCK, ARKANSAS		
CHECKED BY B.	DATE 3.1962		
SCALE As Noted.			SHEET NO. 62 OF 69



Note: Material to be Cast Steel Except Links and Screws which are to be Structural Steel.

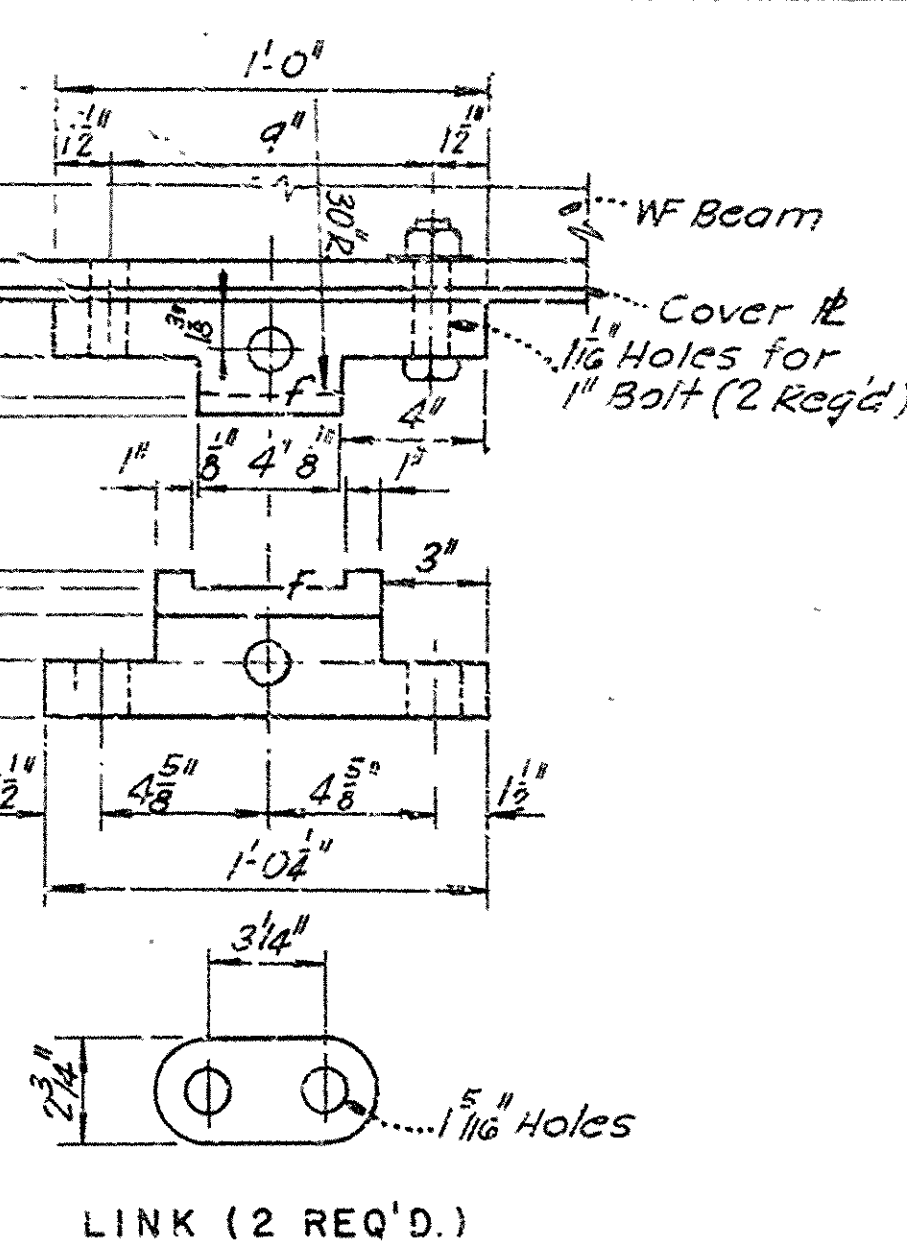
FIXED SHOE AT PIERS 2,3,5 AND 6

Score: $3/16'' = 0.1875''$



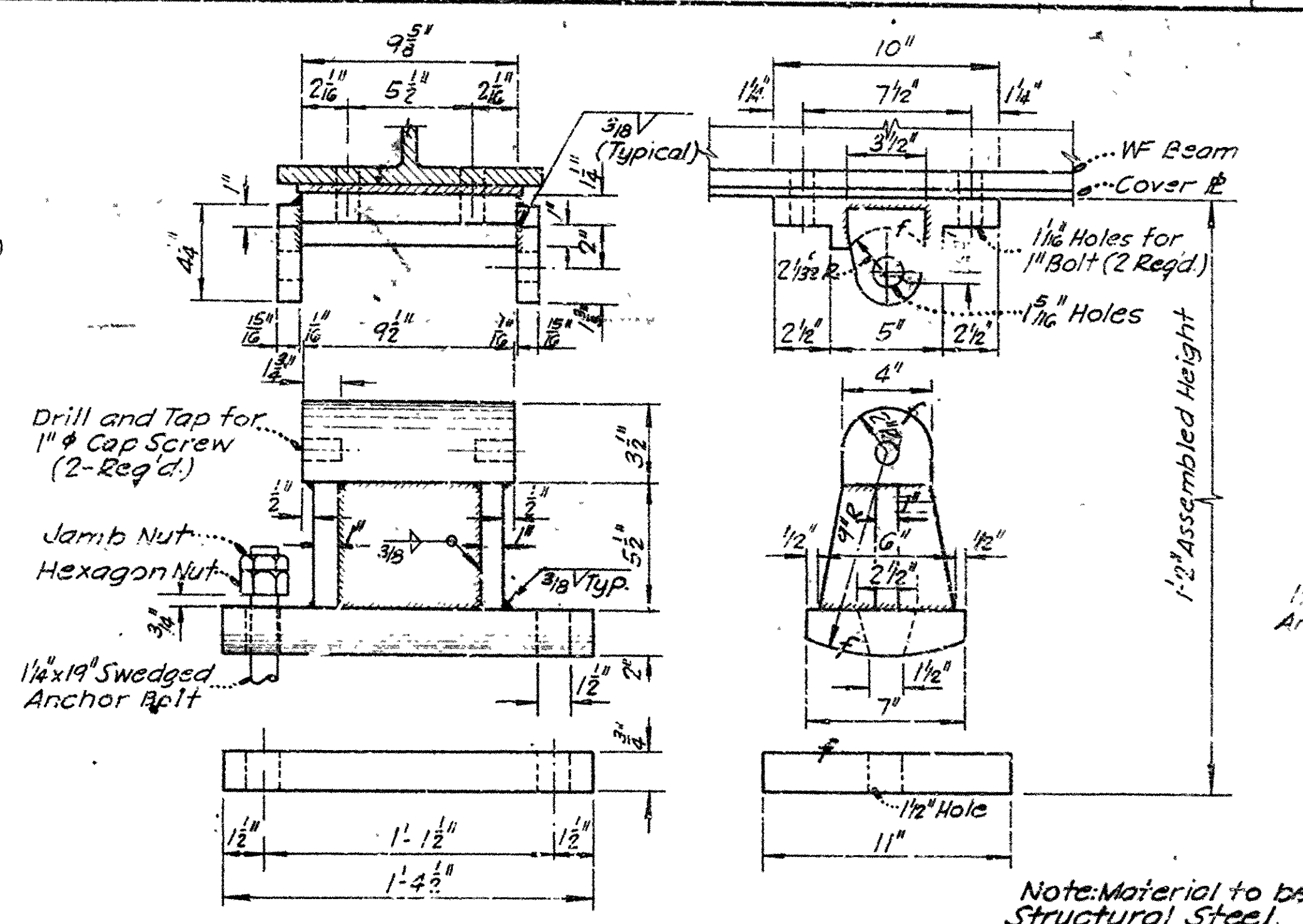
DETAILS OF ROADWAY DRAINS

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



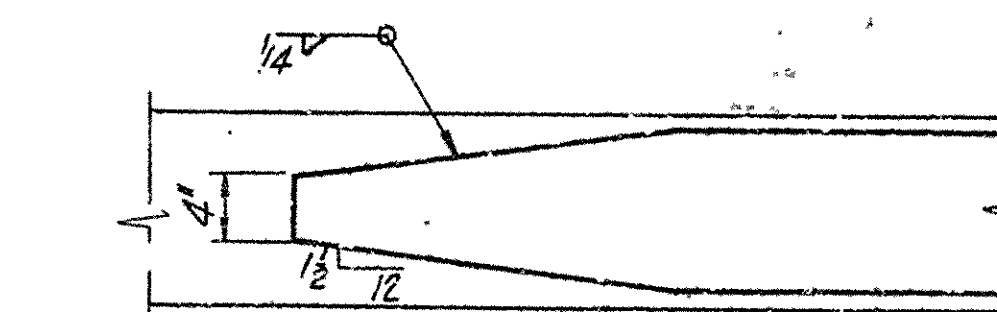
EXPANSION SHOE AT PIERS 1 AND 7

SCQZE: $3/16^H = C^1 - 1''$



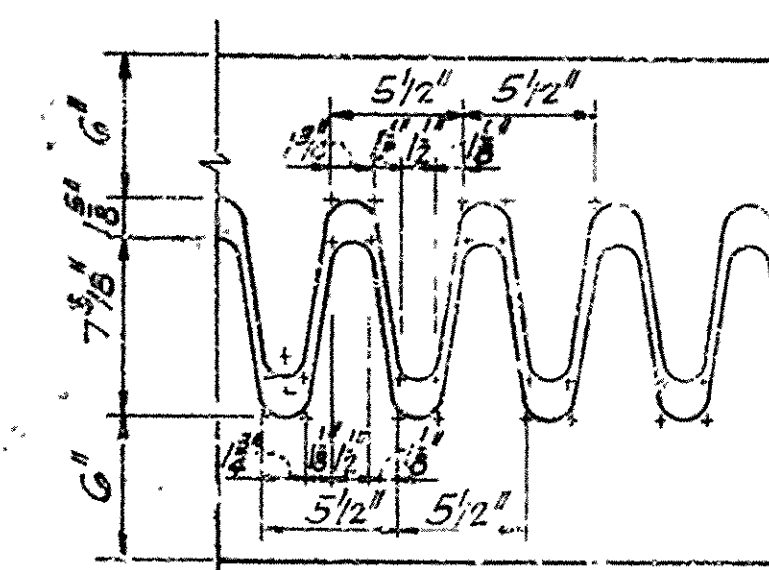
COVER PLATE DETAILS

SCALE: 1" = 1'-0"



TYPICAL DECK
CONSTRUCTION JOINT

5028: $3/4'' = 1.0''$

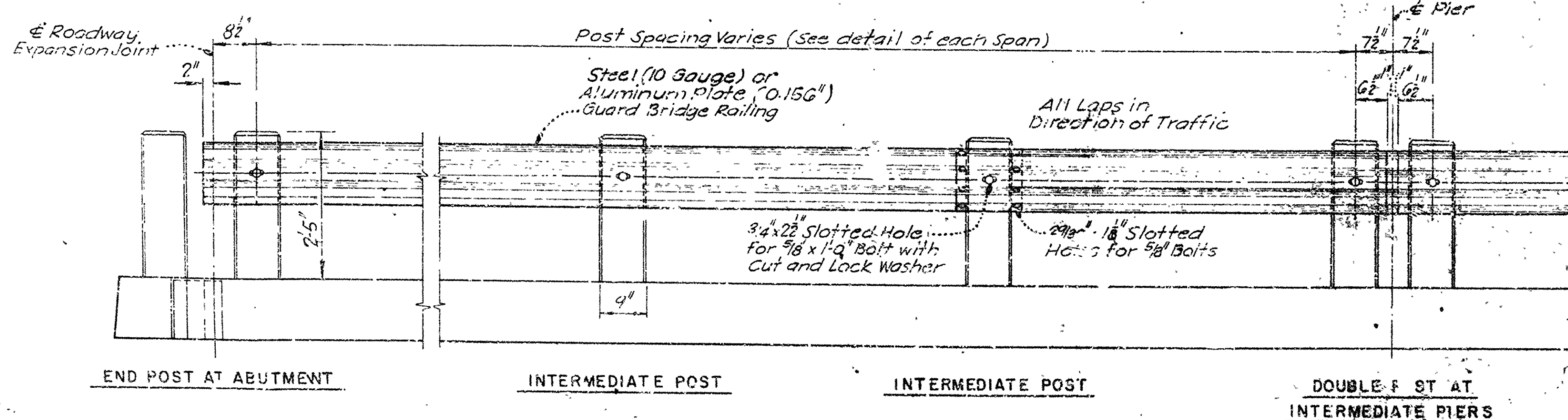


Note: Fabricate Finger 2 from one $1\frac{1}{4}$ " fl.

Note: Dummy Joint
Same Except No Break
in Slob Pour.

REINFORCEMENT SCHEDULE			
MARK	NUMBER	LENGTH	BENDING DIAGRAM
501	301	30'-5"	<p>501</p> <p>Symm. about C</p>
502	608	25'-4"	Straight
403	810	32'-4"	Straight
404	81	23'-0"	Straight
405	606	7'-8 1/2"	<p>405</p>
506	192	5'-9"	<p>506</p>
307	384	2'-8"	<p>307</p>

* This Number exists
in each 279-1"
Continuous Unit



BRIDGE RAILING DETAILS

Scale: $3\frac{1}{2}'' = 1'-0''$

NOTES:

placed and accepted shall be measured and paid for as Structural Steel in Beam Spans.
Place three layers of Red Lead and Canvas or an approved preformed Fabric Pad, beneath each base Plate.
In Case Aluminum Plate Guard is used, all Surfaces in Contact with Concrete Bridge Rail Posts shall be Coated with Alumilastic Compound or equal.
For location of Drains (See Sheet No. 61)
Anchor Bolts shall be galvanized in accordance with A.S.T.M. Specification Designation A153.

BRIDGE NO. 3643 DRAWING NO. 11921

NO	MADE	DATE	REVISIONS
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ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

JOB 8516
ILLINOIS BAYOU BRIDGE
BRIDGE RAILING
SHOES
DRAINS
COVER PLATES

DRAWN BY <i>G.W.B.</i> CHECKED BY <i>W.J.D.</i> DATE <i>Aug. 1962</i>	GARVER & GARVER, Inc. ENGINEERS LITTLE ROCK, ARKANSAS	SCALE <i>As Noted</i> SHEET NO. <i>4</i> <i>63 OF 60</i>
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