

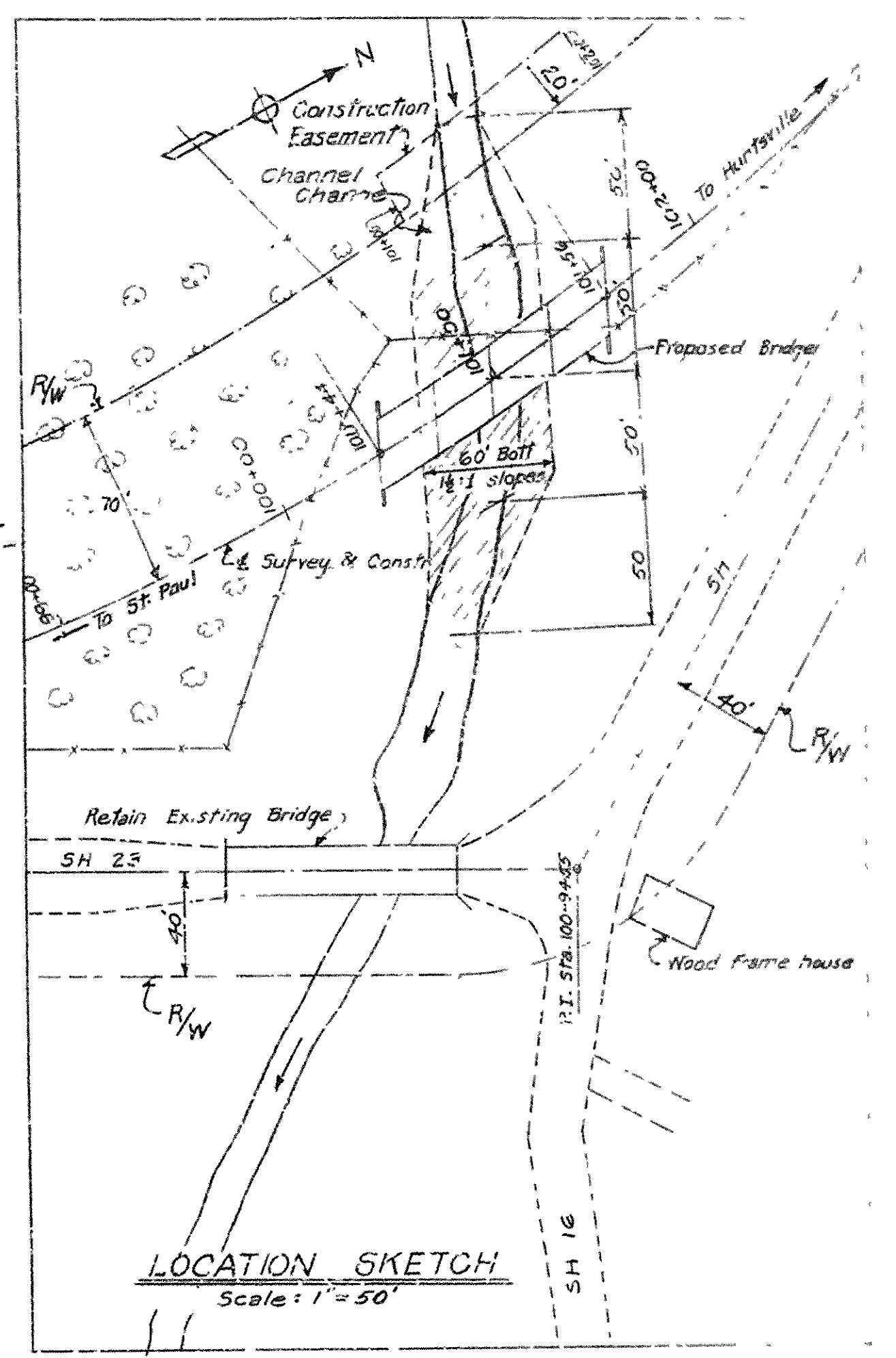
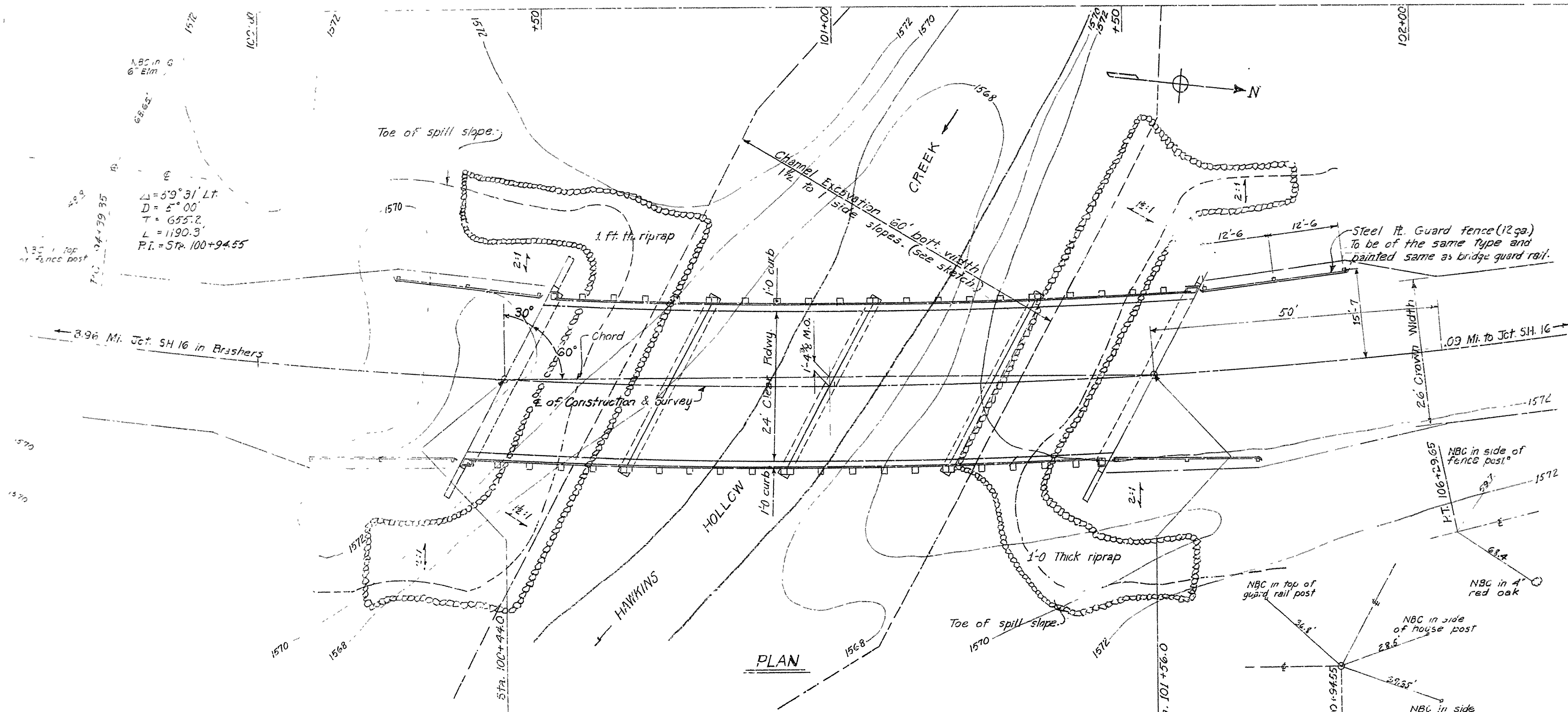
SUMMARY OF BRIDGE QUANTITIES CODE NO. X020

ITEM NO.	ITEM	UNIT	BRIDGE No. 2946						BRIDGE No. 2947				TOTAL	JOB NO. 9338
			BENT No. 1	BENTS No. 2-4 INCL.	BENT No. 5	SPANS No. 1 & 4	SPANS No. 2 & 3	TOTAL	BENT No. 1	BENT No. 2	BENT No. 3	SPANS No. 1 & 2		
103	DRY EXCAVATION FOR STRUCTURES	CU. YD.	30		36			66	28		28		56	122
103	WET EXCAVATION FOR STRUCTURES	CU. YD.	28	47	13			88						88
103	SOLID ROCK EXCAVATION FOR STRUCTURES	CU. YD.	8	20	10			38						38
SP#802	CLASS "A" CONCRETE FOR BRIDGES	CU. YD.	10.17	21.33	10.17			41.67						41.67
SP#802	CLASS "S" CONCRETE FOR BRIDGES	CU. YD.	8.58	21.17	9.04	78.77	77.72	195.28	6.80	5.78	6.80	77.88	97.26	292.54
SP#803	REINFORCING STEEL	L.B.	2,599	6,738	2,671	13,000	13,010	38,018	1,029	1,015	1,029	13,494	16,567	54,585
SP805-3	STEEL PLATE GUARD RAIL (10 GAGE)	LIN. FT.				114.66	112.00	226.66				116	116	342.66
SP807-7	STEEL BEARING PILING (12")	LIN. FT.							55	93	85		263	263
909	RIPRAP	CU. YD.	69		70			139	60		54		114	253
929	BRIDGE NAME PLATES (TYPE "C")	EACH	1					1	1				1	2
SP1052-9	REMOVAL OF EXISTING BRIDGES AND MAINTENANCE OF TRAFFIC	COMP. ITEM											* 42 %	** 42 %

* Temporary detour structure required at this bridge site.
 ** For balance of Item No.SP-1052-9 see Roadway Items.

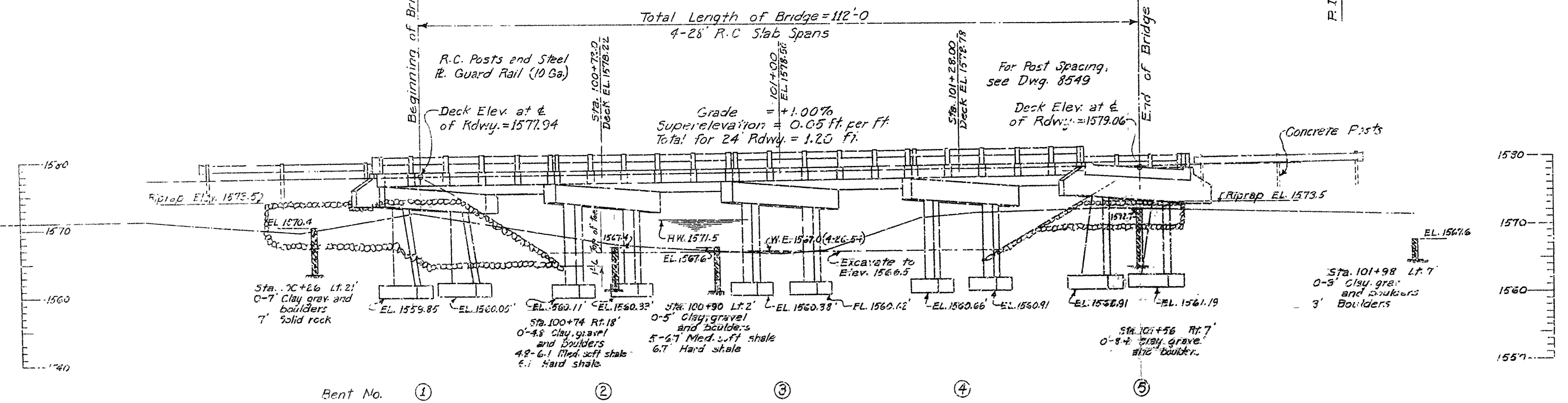
SUMMARY OF BRIDGE QUANTITIES
 ST. PAUL -- WITTER
 MADISON COUNTY
 ROUTE 23 SECTION 8
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By L.P.C. Date 6-2-54
 Traced By F.E.B. Date 6-9-54
 Checked By [Signature] Date 6-17-54
 BRIDGE NO. 2946-2947 DRAWING NO. 8546

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	5-168(1)	23	55	
JOB No.		9338			



NOTES
 E.M. U.S.C. & G. "A-3" 100 Rt. Sta. 100+50 Elev. = 1591.33
 For details, see Drawings 5367-A, 5368-A, 5492, 8549 and 8550

Loading: H-15 (A.A.S.H.O. 1953)
 Stresses:
 Class "A" Concrete (f_c = 15)
 Class "S" Concrete (f_c = 10)
 Reinforcing Steel
 8.40 K/ft.
 1200 #/ft.
 20,000 #/ft.

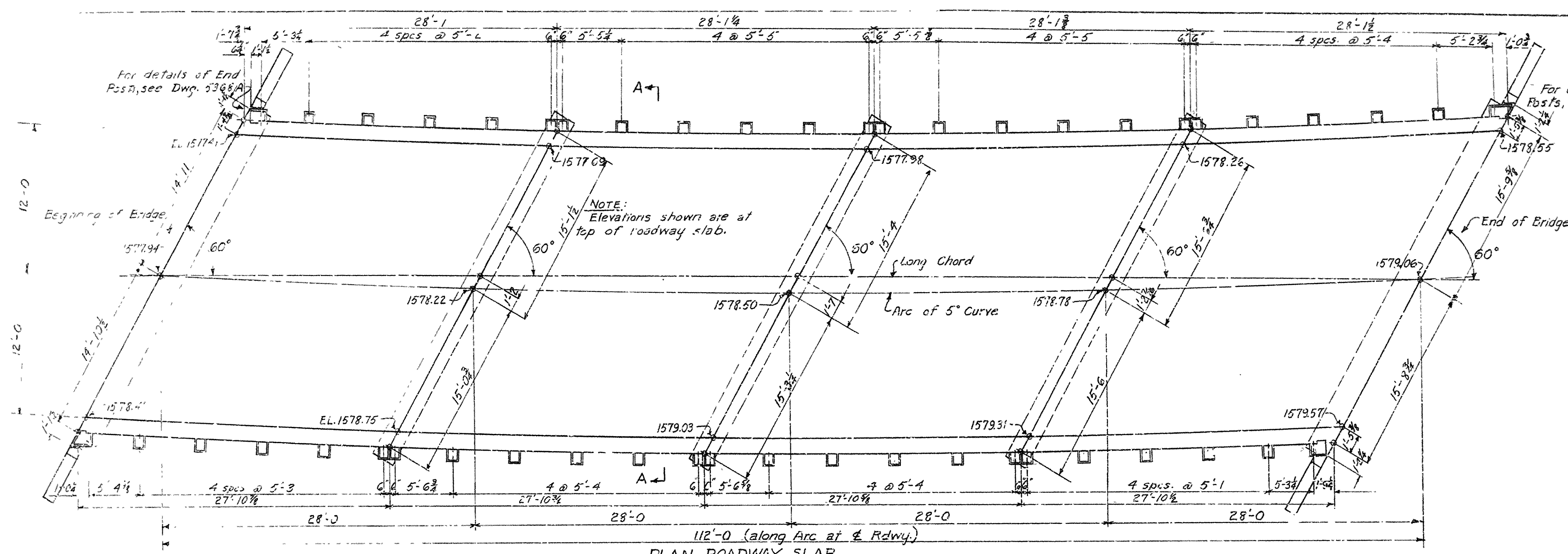


ELEVATION
 Drainage Area = 3.2 sq mi
 C = 1.0 Opening Req. = 394 sq ft

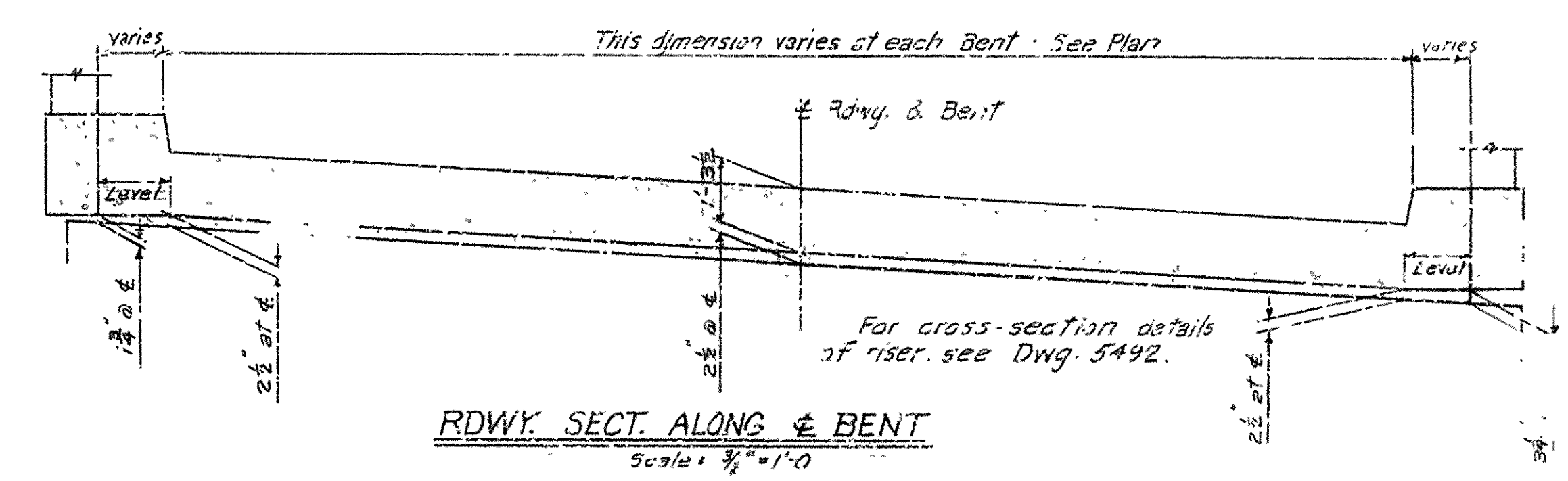
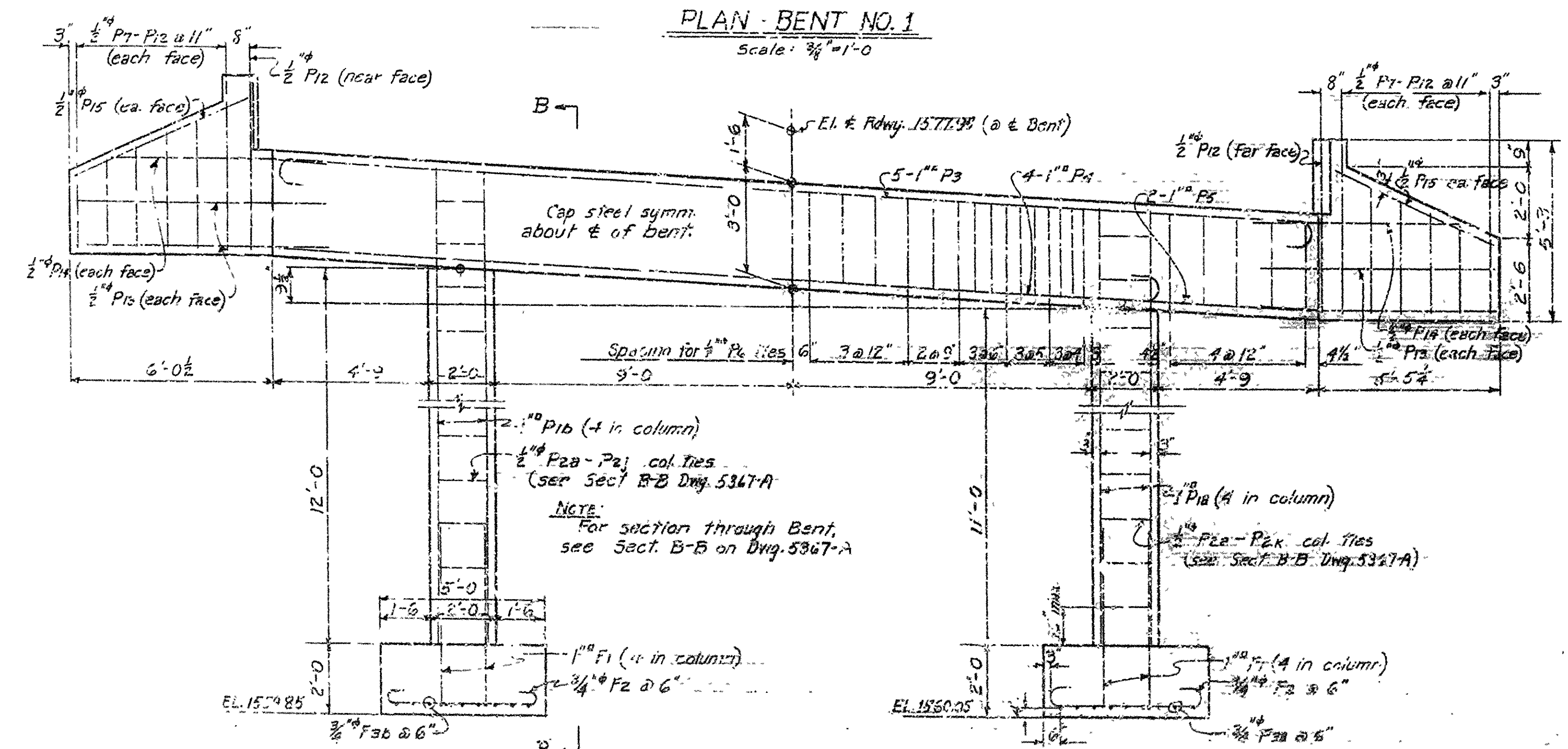
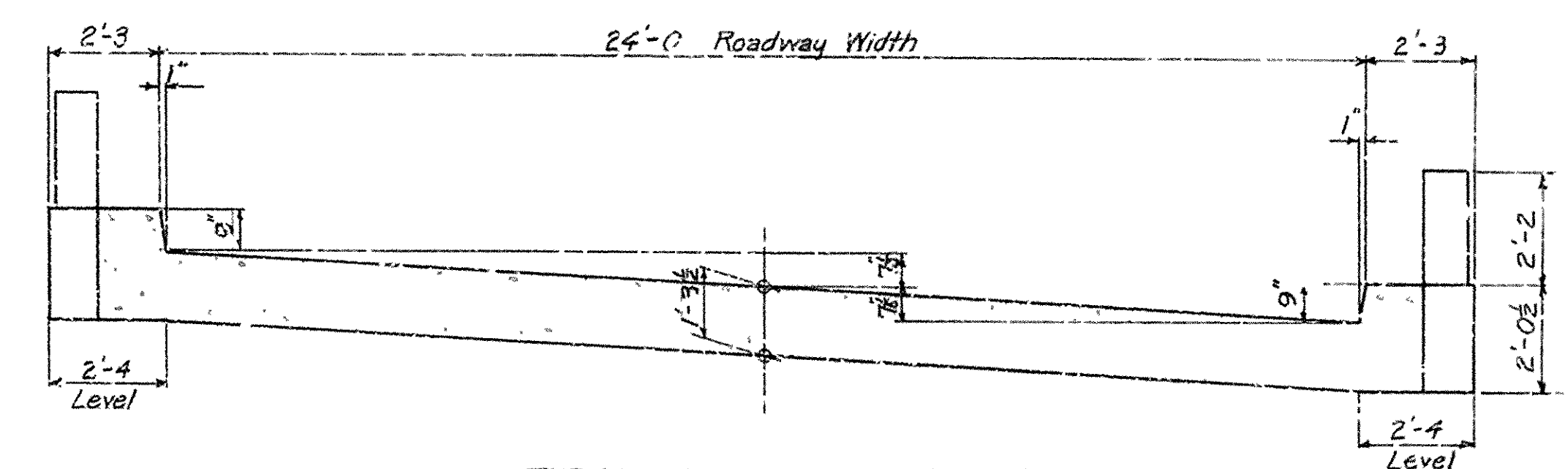
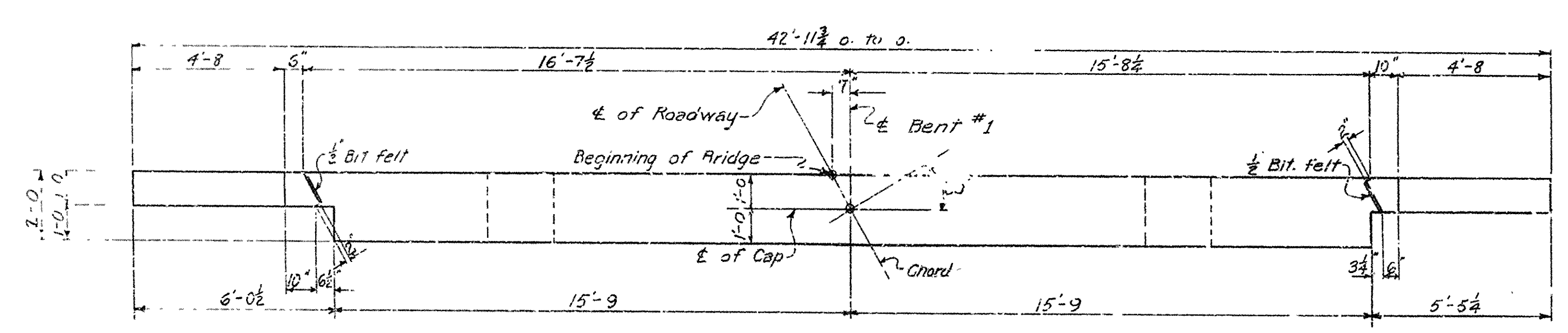
LAYOUT OF BRIDGE
 OVER HAWKINS HOLLOW CREEK
 ST. PAUL — WITTER
 MADISON COUNTY
 ROUTE 23 SEC. 8

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 DRAWN BY: W.W.M. DATE: 5-17-54
 TRACED BY: DATE: 5-17-54
 CHECKED BY: F.B.R. DATE: 5-27-54
 BRIDGE NO. 2946 DRAWING NO. 8547

FED. ROAD No.	STATE	FED. AID PROJECT YEAR	SHEET No.	TOTAL SHEETS
5	ARK.	5-168 (U)	29	55
JOB No.	9338			

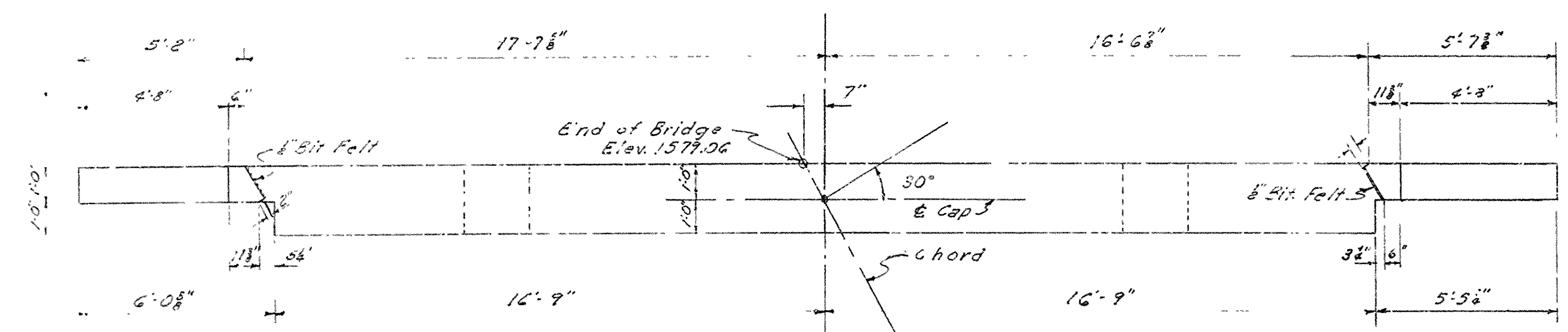


NOTES
For General Notes and details of slab, see Dwg. 5368-A and 5492.
For sections of bents, concrete notes and stresses for concrete and steel see Dwg. 5367-A.
For reinforcing steel list, details of intermediate bents (2, 3, & 4) and End Bent #5, see Dwg. 8550.

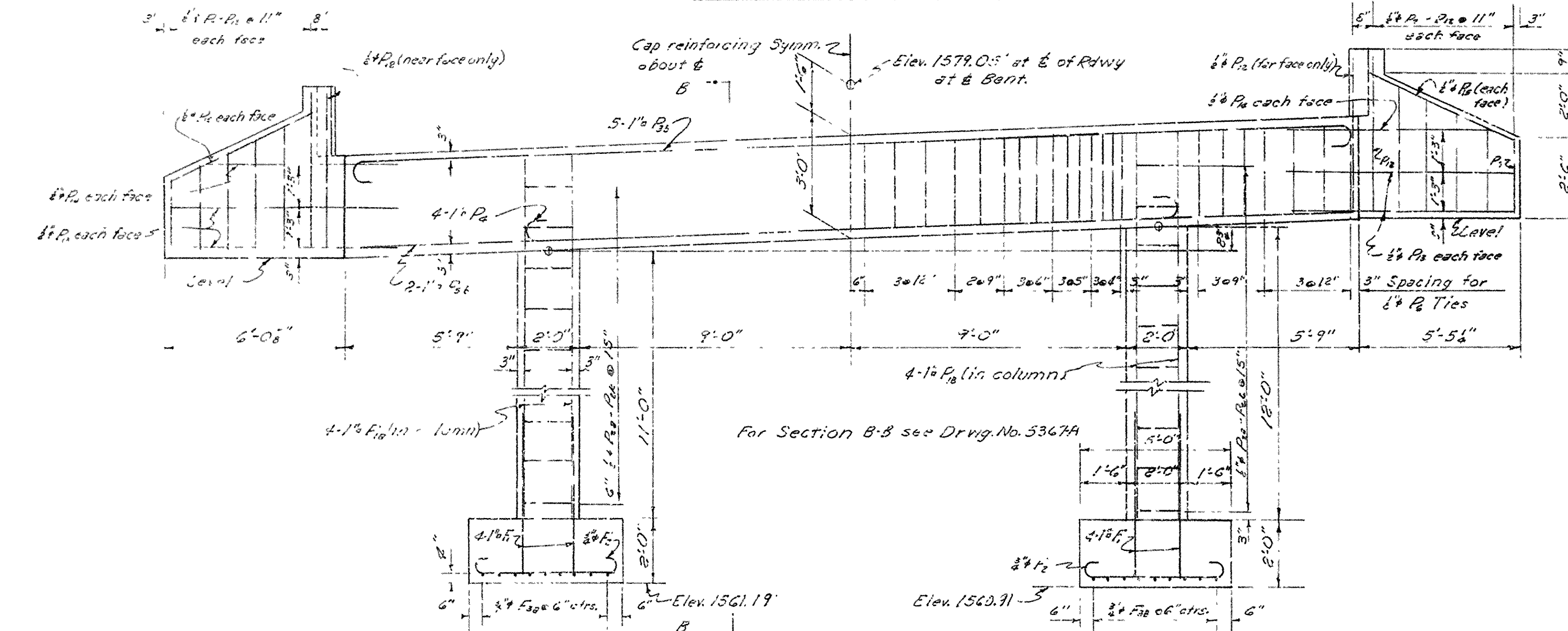


DETAILS OF 28' R.C. SLAB SPAN
AND BENT NO. 1
BRIDGE OVER HAWKINS HOLLOW CREEK
ST. PAUL-WITTER
MADISON COUNTY
ROUTE 23 SEC. 8
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

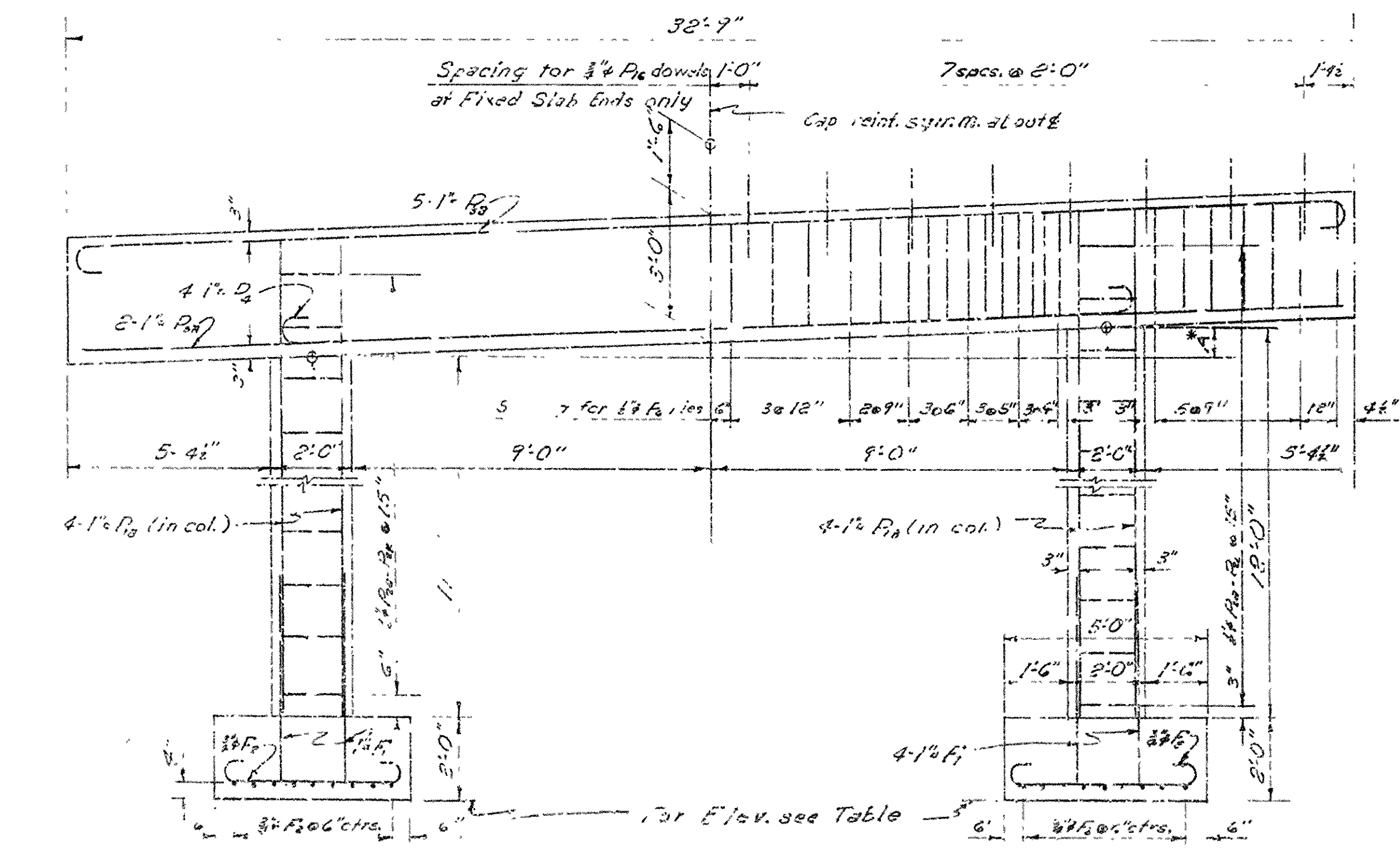
Drawn By: WMM Date: 6-8-54
Yfaced By: Date:
Checked By: Date: 6-10-54
BRIDGE NO. 2946 DRAWING NO. 8549



PLAN OF END BENT NO. 5



ELEVATION OF END BENT NO. 5



ELEVATION OF INTER. BENTS NO. 2, 3 & 4

INTER. BENT DATA

BENT NO.	VALUE A	FOOTING C.E.V.	LEFT	RIGHT
2	0'-9 3/4"	1560.33	1560.11	
3	0'-9 3/8"	1560.62	1540.38	
4	0'-9"	1560.91	1560.66	

BAR LIST

MARK	SIZE	NUMBER	REIN.	LENGTH	A	B	BENDING DIAGRAM
F1	1"	3	8	8	6'-0"	5'-0"	8'
P2	3/4"	26	36	26	6'-0"	1'-6"	6'
F2	3/4"	9			7'-10"	5'-8"	6'
F3	3/4"	9			9'-0"	6'-6"	6'
P3	1"	4	4	4	13'-6"		
P4	1"	4	4	4	14'-6"		
P5	1"	4	4	4	14'-6"		
P6	1"	4	4	4	14'-6"		
P7	1"	4	4	4	14'-6"		
P8	1"	4	4	4	14'-6"		
P9	1"	4	4	4	14'-6"		
P10	1"	4	4	4	14'-6"		
P11	1"	4	4	4	14'-6"		
P12	1"	4	4	4	14'-6"		
P13	1"	4	4	4	14'-6"		
P14	1"	4	4	4	14'-6"		
P15	1"	4	4	4	14'-6"		
P16	1"	4	4	4	14'-6"		
P17	1"	4	4	4	14'-6"		
P18	1"	4	4	4	14'-6"		
P19	1"	4	4	4	14'-6"		
P20	1"	4	4	4	14'-6"		
P21	1"	4	4	4	14'-6"		
P22	1"	4	4	4	14'-6"		
P23	1"	4	4	4	14'-6"		
P24	1"	4	4	4	14'-6"		
P25	1"	4	4	4	14'-6"		
P26	1"	4	4	4	14'-6"		
P27	1"	4	4	4	14'-6"		
P28	1"	4	4	4	14'-6"		
P29	1"	4	4	4	14'-6"		
P30	1"	4	4	4	14'-6"		
P31	1"	4	4	4	14'-6"		
P32	1"	4	4	4	14'-6"		
P33	1"	4	4	4	14'-6"		
P34	1"	4	4	4	14'-6"		
P35	1"	4	4	4	14'-6"		
P36	1"	4	4	4	14'-6"		
P37	1"	4	4	4	14'-6"		
P38	1"	4	4	4	14'-6"		
P39	1"	4	4	4	14'-6"		
P40	1"	4	4	4	14'-6"		
P41	1"	4	4	4	14'-6"		
P42	1"	4	4	4	14'-6"		
P43	1"	4	4	4	14'-6"		
P44	1"	4	4	4	14'-6"		
P45	1"	4	4	4	14'-6"		
P46	1"	4	4	4	14'-6"		
P47	1"	4	4	4	14'-6"		
P48	1"	4	4	4	14'-6"		
P49	1"	4	4	4	14'-6"		
P50	1"	4	4	4	14'-6"		
P51	1"	4	4	4	14'-6"		
P52	1"	4	4	4	14'-6"		
P53	1"	4	4	4	14'-6"		
P54	1"	4	4	4	14'-6"		
P55	1"	4	4	4	14'-6"		
P56	1"	4	4	4	14'-6"		
P57	1"	4	4	4	14'-6"		
P58	1"	4	4	4	14'-6"		
P59	1"	4	4	4	14'-6"		
P60	1"	4	4	4	14'-6"		
P61	1"	4	4	4	14'-6"		
P62	1"	4	4	4	14'-6"		
P63	1"	4	4	4	14'-6"		
P64	1"	4	4	4	14'-6"		
P65	1"	4	4	4	14'-6"		
P66	1"	4	4	4	14'-6"		
P67	1"	4	4	4	14'-6"		
P68	1"	4	4	4	14'-6"		
P69	1"	4	4	4	14'-6"		
P70	1"	4	4	4	14'-6"		
P71	1"	4	4	4	14'-6"		
P72	1"	4	4	4	14'-6"		
P73	1"	4	4	4	14'-6"		
P74	1"	4	4	4	14'-6"		
P75	1"	4	4	4	14'-6"		
P76	1"	4	4	4	14'-6"		
P77	1"	4	4	4	14'-6"		
P78	1"	4	4	4	14'-6"		
P79	1"	4	4	4	14'-6"		
P80	1"	4	4	4	14'-6"		
P81	1"	4	4	4	14'-6"		
P82	1"	4	4	4	14'-6"		
P83	1"	4	4	4	14'-6"		
P84	1"	4	4	4	14'-6"		
P85	1"	4	4	4	14'-6"		
P86	1"	4	4	4	14'-6"		
P87	1"	4	4	4	14'-6"		
P88	1"	4	4	4	14'-6"		
P89	1"	4	4	4	14'-6"		
P90	1"	4	4	4	14'-6"		
P91	1"	4	4	4	14'-6"		
P92	1"	4	4	4	14'-6"		
P93	1"	4	4	4	14'-6"		
P94	1"	4	4	4	14'-6"		
P95	1"	4	4	4	14'-6"		
P96	1"	4	4	4	14'-6"		
P97	1"	4	4	4	14'-6"		
P98	1"	4	4	4	14'-6"		
P99	1"	4	4	4	14'-6"		
P100	1"	4	4	4	14'-6"		

* Number for Fix-Fix Bent only.

GENERAL NOTES:
For Notes, Details and Sections of Bents see Drwg. 5367-A & 5354-A.

DETAILS OF BENTS 2, 3 & 4
BRIDGE OVER HAWKINS HOLLOW CREEK
ST. PAUL - WITTER
MADISON COUNTY
ROUTE 23 SECTION 8
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn by F.R.B. Date 8-6-54
Checked by J.H.H. Date 8-11-54
Scale 3/8" = 1 ft.
BRIDGE NO. 2946 DRAWING NO. 8550



- * When Per Height exceeds 15', charge A to 6-0 and length to 7'-3" in Interm Bents
- ** When Per Height exceeds 15', charge A to 5'-6 and length to 6'-11, and number in Int Bent will be 44.
- *** When strut is required, use 8 each bent.
- **** 16 for Fix-Exp, 32 for Fix-Fix, or 16 when entire bent is Exp.

For General Notes and details, see Dwg. 5368-A & 5492.
All concrete in footings and columns to be class A.
Concrete. All concrete in caps and slab to be class S.
All exposed corners to have $\frac{3}{4}$ " chamfer unless noted otherwise.
Maximum bearing = 7200 ^{psi} at End Beris and 6200 ^{psi} at Interm. Beris



ELEV. INTERMEDIATE BENT
SUPERELEVATED SPANS.
Scale: $\frac{1}{8}" = 1'-0"$

DRAWING NO. 5367-A



For Bending diagram of
S5, S6, S7 P01, P02 and P03,
see DWG. 5492

-Not a pay item

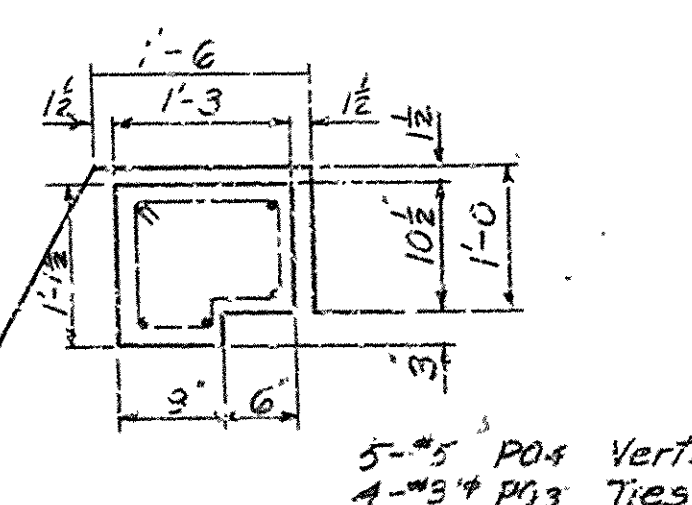
Dimensions are to centers of bars

NOTES

For sections through roadway, drain opening details,
bending diagrams and General Notes, see Dwg. 5492

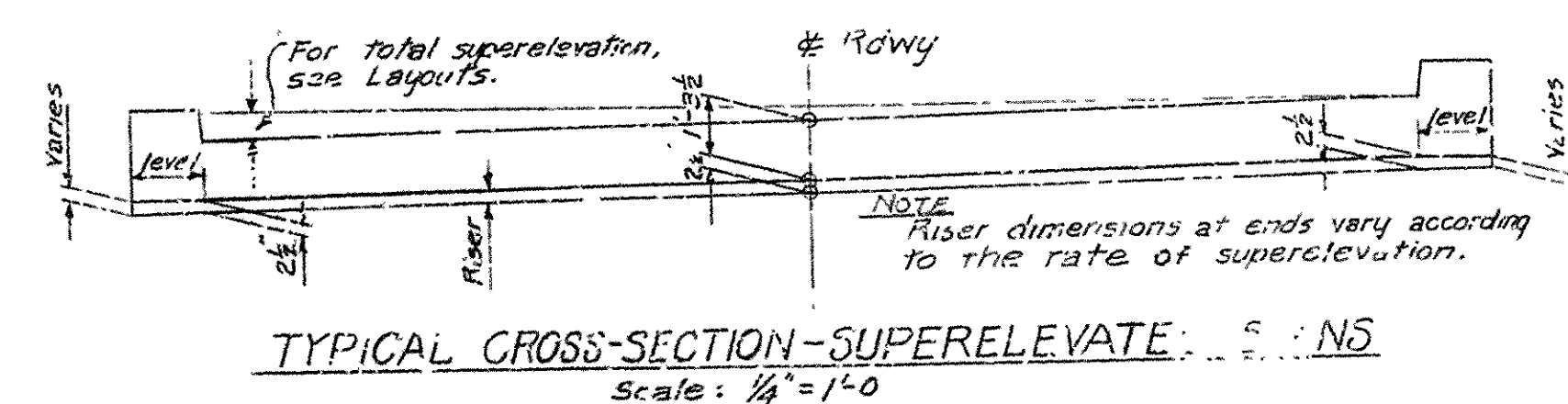
HALF PLAN-INTERMEDIATE SPAN

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



DETAIL "B"

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



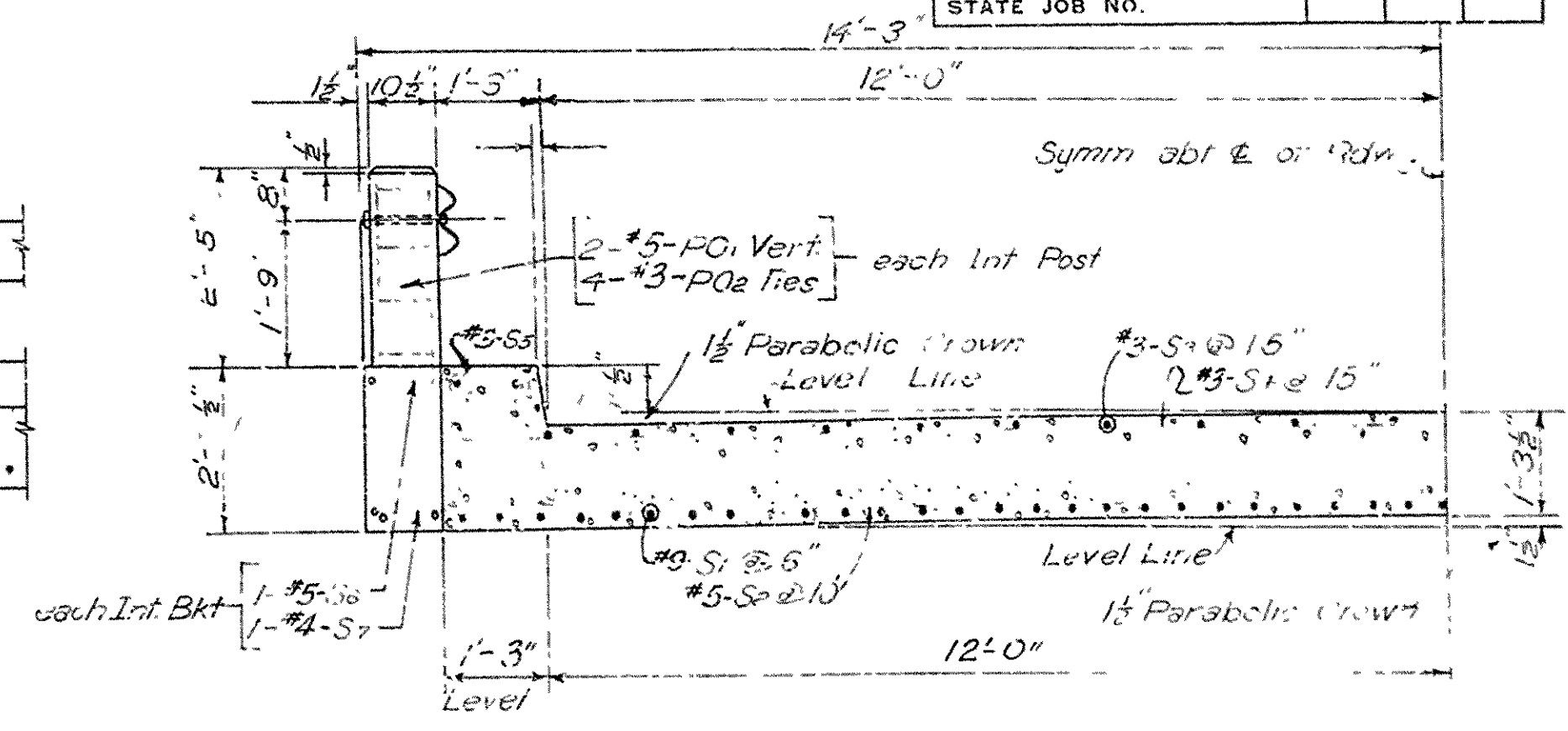
TYPICAL CROSS-SECTION-SUPERELEVATE: S: NS

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

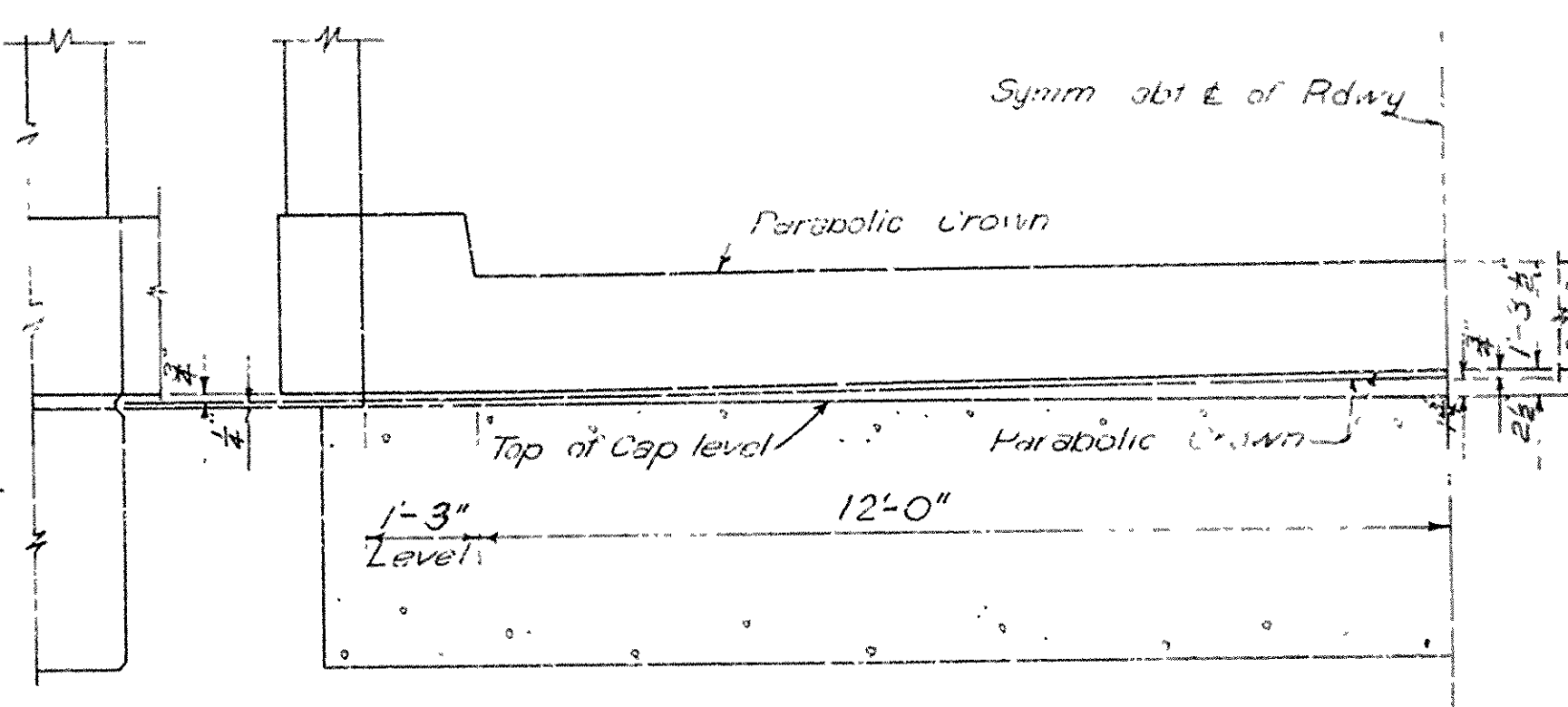
Revised to show super-elevated roadway. WMM (2-19-54)
Revised: Added 4" to S4 bar. WMM (11-1-54) JMK
Revised Bar Length and Bar designation. B-30-60 JMK

DETAILS OF STANDARD
 28'-0" R.C. SLAB SPAN
 24'-0" CLEAR RDW. 1'-0" CURBS
 30° SKEW LT. FORWARD
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.
 Drawn By: WKM Date: 5-21-58
 Traced By: Date:
 Checked By: gmk Date: 5-22-58
 Case: As noted
 DRAWING NO. 5368-A

DRAWING NO. 5368-A



TYPICAL CROSS SECTION
SCALE $\frac{1}{2}'' = 1'-0''$



SECTION AT BENT

SHOWING STEEL IN TOP OF SLAB
B.C.T. SLAB STEEL SAME AS SHOWN FOR EN. SPAN

LIST OF REINFORCING STEEL

[illegible]

SECT. OF GUARD RAIL

DETAIL B
SECTION THRU DRAIN OPENING
SCALE: $\frac{3}{4}" = 1'-0"$

9-15-59 24'-0" CLEAR RDWY. 1'-0" CURBS
7-15-60

Drawn By: W. W. M. Date: 5-5-52 Scale: As noted
Traced By: L. W. H. Date: 6-15-55 and PPF 6-17-55
Checked By: W. C. L. Date: 5-13-56
BRIDGE NO. DRAWING NO. 5492