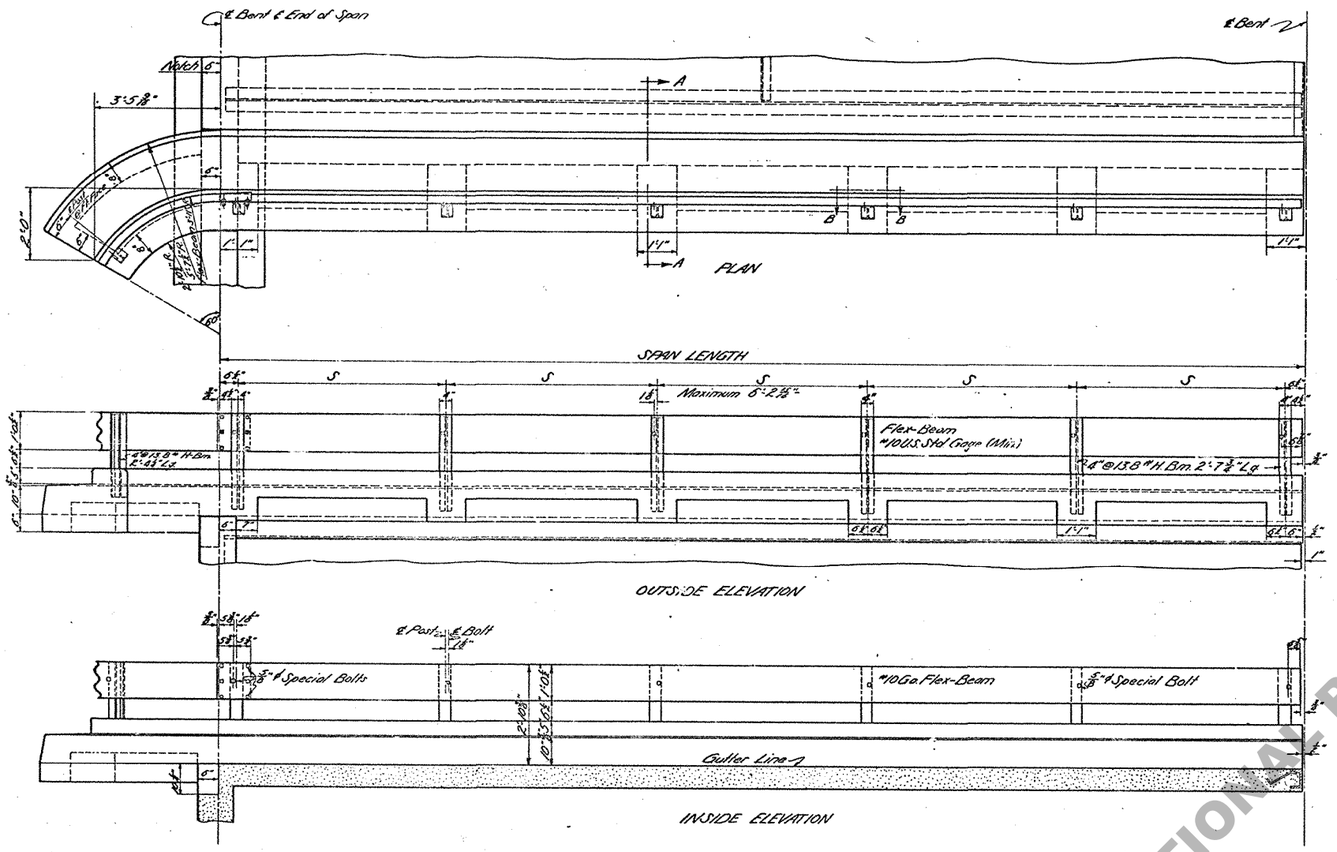

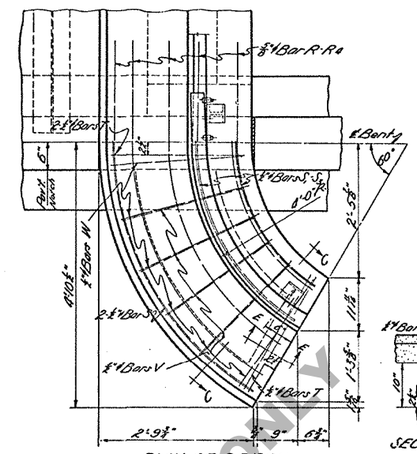

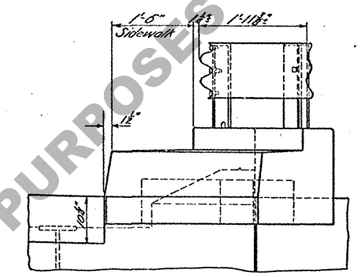

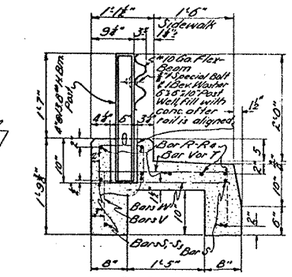

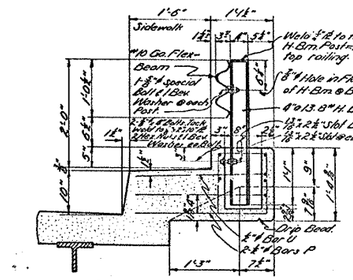

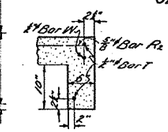

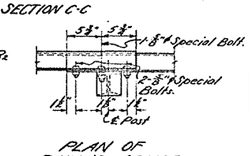

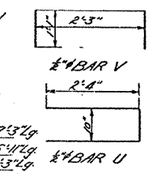

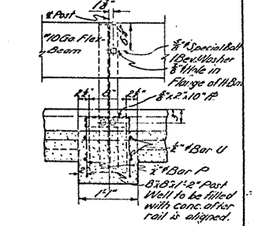

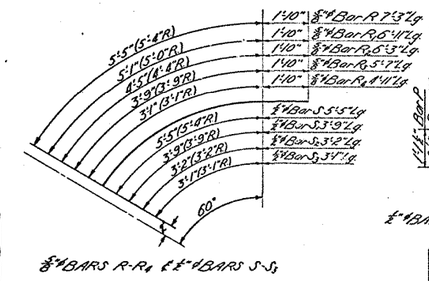

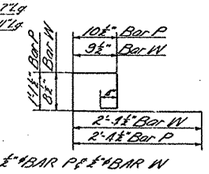

BILL OF MATERIAL FOR ONE BRIDGE END FLARE									
BAR	NO.	SIZE	UNIT LENGTH	TOTAL LENGTH	BAR	NO.	SIZE	UNIT LENGTH	TOTAL LENGTH
R	1	5/8"	7'-3"	7'-3	S_2	1	5/8"	3'-2"	3'-2"
R_1	1	"	6'-11	6'-11	S_3	1	"	3'-1	3'-1
R_2	1	"	6'-3	6'-3	T	4	"	2'-5	9'-8
R_3	1	"	5'-7	5'-7	V	4	"	4'-5	17'-8
R_4	1	"	4'-11	4'-11	W	6	"	4'-11	29'-6
TOTAL 5/8" ϕ BARS 301'-32 LBS.									
S	2	5/8"	3'-5"	10'-10"					
S_5	1	"	3'-9"	3'-9"	Total 5/8" ϕ Bars 77'-8" = 2 Lbs.				
Total Reinforcing Steel									84 Lbs.
Total Class "A" Concrete									4.4 Cu. Yds.
Total Fabricated Carbon Steel									35 Lbs.
Total #10 Ga. Flex-Beam									5.0 Lin. Ft.

QUANTITIES FOR STD. PLAN S.C.54											
			END SPAN ⊕				INTERMEDIATE SPAN				
SPAN LENGTH	NO. POSTS	S	REINF. STEEL LBS.	CLASS "A" CONC. C.Y. PER	BOARD BEAM LIN. FT.	FABRICATED STEEL LBS.	REINF. STEEL LBS.	CLASS "A" CONC. CU. YDS.	BOARD BEAM LIN. FT.	FABRICATED STEEL LBS.
16	4	4'-11 1/2"	289	1.10	41.94	430	121	.25	31.75	360
18	4	5'-7 1/2"	289	1.10	45.94	430	121	.25	35.75	360
20	5	4'-8 1/2"	319	1.18	49.94	520	151	.31	39.75	450
22	5	5'-2 1/2"	319	1.18	53.94	520	151	.31	43.75	450
24	5	5'-8 1/2"	319	1.18	57.94	520	151	.31	47.75	450
26	5	6'-2 1/2"	319	1.18	61.94	520	151	.31	51.75	450
28	6	5'-4 1/2"	350	1.23	65.94	610	182	.37	55.75	540
30	6	5'-9 1/2"+	350	1.23	69.94	610	182	.37	59.75	540
32	6	6'-2 1/2"+	350	1.23	73.94	610	182	.37	63.75	540
34	7	5'-5 1/8"	380	1.29	77.94	700	212	.44	67.75	630
36	7	5'-9 1/8"+	380	1.29	81.94	700	212	.44	71.75	630
38	7	6'-1 1/8"+	380	1.29	85.94	700	212	.44	75.75	630
40	8	5'-6 1/8"+	410	1.35	89.94	790	242	.50	79.75	720
42	8	5'-10 1/8"+	410	1.35	93.94	790	242	.50	83.75	720
44	8	6'-2 1/8"+	410	1.35	97.94	790	242	.50	87.75	720
46	9	5'-7 1/8"	441	1.42	101.94	880	273	.56	91.75	810
48	9	5'-10 1/8"	441	1.42	105.94	880	273	.56	95.75	810
50	9	6'-1 1/8"	441	1.42	109.94	880	273	.56	99.75	810
52	10	5'-7 1/8"+	471	1.48	113.94	970	303	.63	103.75	900
54	10	5'-10 1/8"+	471	1.48	117.94	970	303	.63	107.75	900
56	10	6'-1 1/8"+	471	1.48	121.94	970	303	.63	111.75	900
58	11	5'-8 1/8"+	501	1.54	125.94	1060	333	.69	115.75	990
60	11	5'-10 1/8"+	501	1.54	129.94	1060	333	.69	119.75	990
62	11	6'-1 1/8"+	501	1.54	133.94	1060	333	.69	123.75	990
64	12	5'-8 1/8"+	531	1.61	137.94	1150	363	.75	127.75	1080
66	12	5'-10 1/8"+	531	1.61	141.94	1150	363	.75	131.75	1080
68	12	6'-1	531	1.61	145.94	1150	363	.75	135.75	1080
70	13	5'-8 1/8"+	562	1.67	149.94	1240	394	.82	139.75	1170
72	13	5'-10 1/8"+	562	1.67	153.94	1240	394	.82	143.75	1170
74	13	6'-0 1/8"+	562	1.67	157.94	1240	394	.82	[illegible]	1170
76	13	6'-2 1/8"+	562	1.67	161.94	1240	394	.82	[illegible]	1170
78	14	5'-11	592	1.73	165.94	1330	424	.88	[illegible]	1260
80	14	6'-0 1/8"+	592	1.73	169.94	1330	424	.88	153.75	1260

⊕ Includes Bridges End Flares.

GENERAL NOTES:

Specifications: La. Highway Comm. 1940
Design Specification: A.A.S.H.O. 1941
All concrete to be Class "A".
All Structural Steel to be Fabricated Carbon.
Dimensions to Reinforcing Steel are to Bar Centers.
Exposed Concrete Corners to have 3/4" Chamfer.
No paint will be required on portion of posts imbedded in conc.
Post wells to be filled with concrete after rail is aligned.
#10 U.S. Std. Gage (Min.) Flex-Beam railing and all bolts connected there to shall be galvanized.
Railing splice not permitted in spans 50' and less in length, except at end flares and shall lap in direction of traffic. See plan.
Give railing (2) field coats of paint in accordance with the specifications.
All special connecting bolts & railing to be included in price bid on lin. ft. #10 Ga. Flex-Beam.

STANDARD PLAN
TYPE "G" HANDRAIL AND
BRIDGE END FLARE
TO BE USED WITH STD. PLANS
S.C-54 & S.C.

DATED Dec. 5, 1944

DATE	DESCRIPTION	BY
	REVISIONS	

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED [illegible] DETAILED [illegible] TRACED [illegible]
CHECKED CHECKED CHECKED
IN CHARGE OF HEAD BRIDGE DIVISION

C-M-108

FOR INFORMATIONAL PURPOSES ONLY