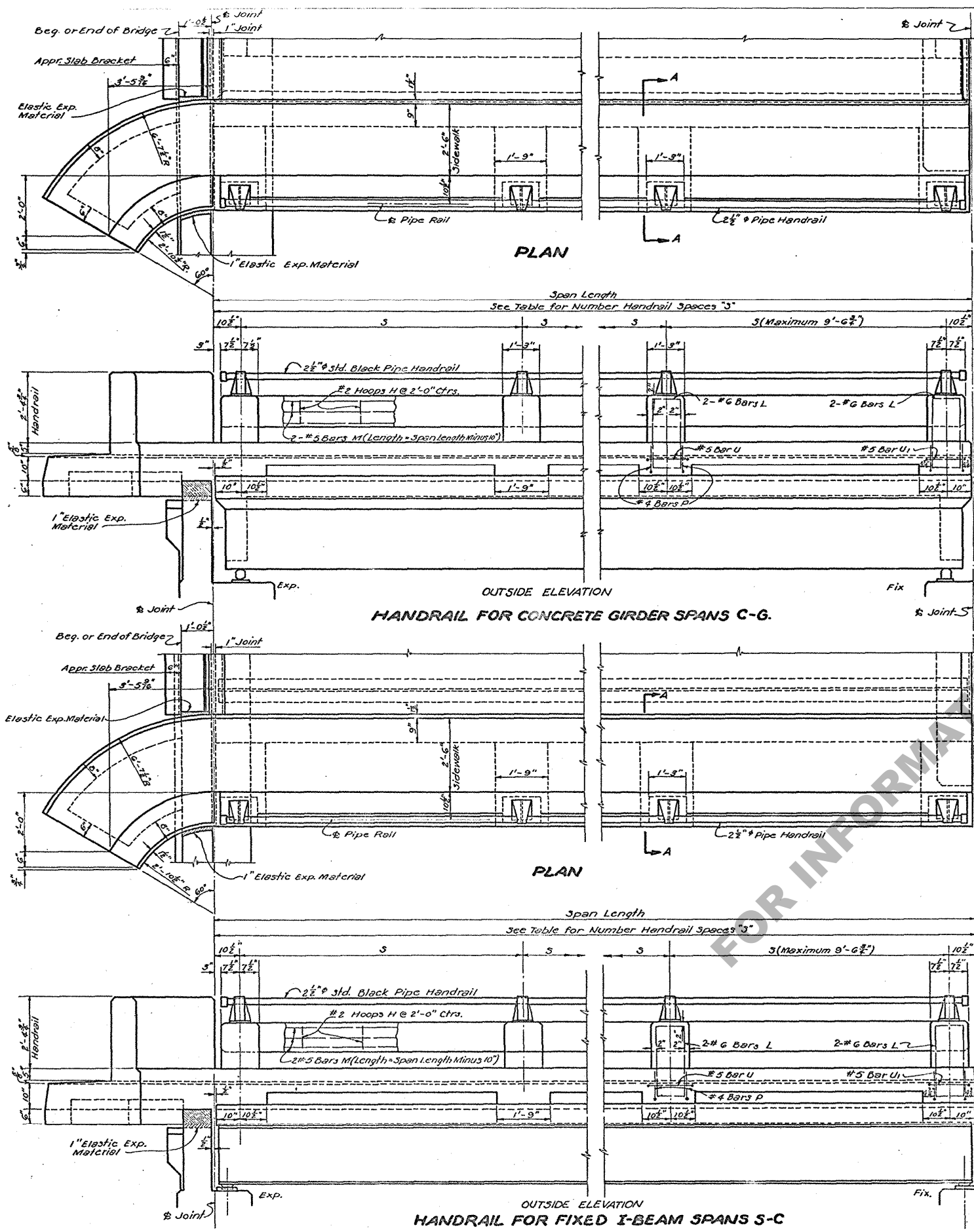
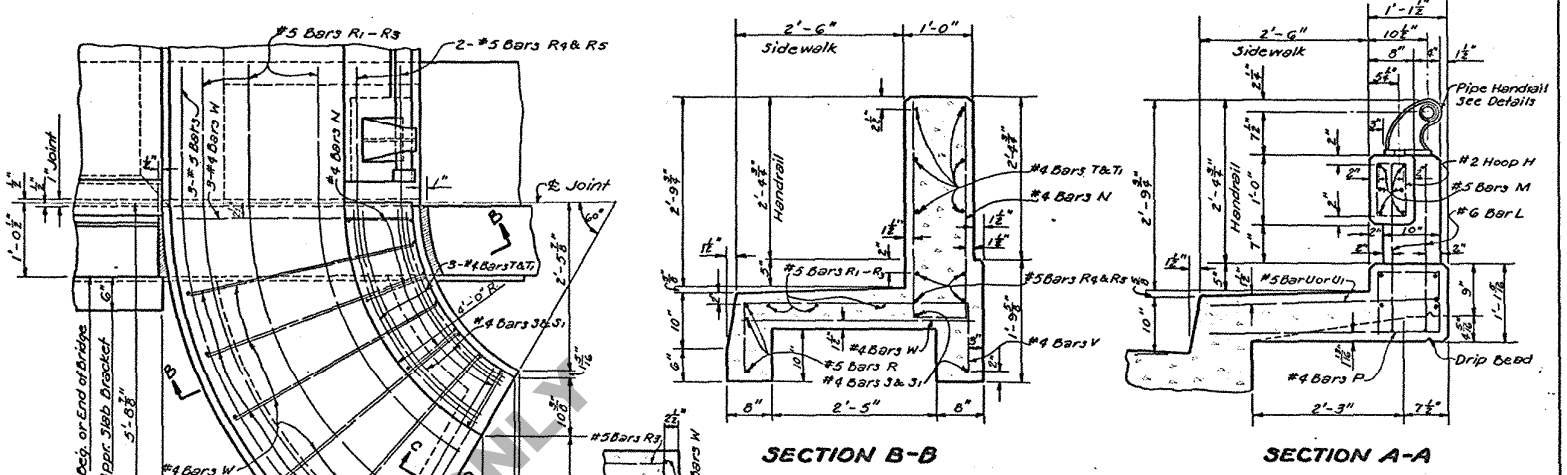




NOTE: ALL CONCRETE HANDRAIL POSTS INCLUDING BRIDGE END FLARES TO BE PERPENDICULAR TO 5" SIDEWALK CURB AND ALSO CAST STEEL BRACKETS FOR PIPE RAILING TO BE PERPENDICULAR TO CONCRETE RAILING.



END FLARES, BRACKETS & HANDRAIL QUANTITIES TO BE ADDED TO STD. PLAN C-C										END FLARES, BRACKETS & HANDRAIL QUANTITIES TO BE ADDED TO STD. PLAN C-G									
END OR INT. SPAN					INTERMEDIATE SPAN					END OR INT. SPAN					INTERMEDIATE SPAN				
SPAN LENGTH		HANDRAIL SPACES	REIN. STEEL	CLASS "A" CONCRETE	PIPE RAIL	SPAN LENGTH		HANDRAIL SPACES	REIN. STEEL	CLASS "A" CONCRETE	PIPE RAIL	SPAN LENGTH		HANDRAIL SPACES	REIN. STEEL	CLASS "A" CONCRETE	PIPE RAIL		
FT.	Nº	FT./IN.	LBS.	CY/IN.	LN/FT.	FT.	Nº	FT./IN.	LBS.	CY/IN.	LN/FT.	FT.	Nº	FT./IN.	LBS.	CY/IN.	LN/FT.		
20	2	9-12	346	1.72	47.50	106	0.24	39.0				20	2	9-12	346	1.72	47.50		
25	3	7-9	382	1.80	57.88	142	0.32	49.0				22	3	6-9	382	1.80	53.98		
30	3	9-5	382	1.80	67.38	142	0.32	59.0				24	3	7-5	382	1.80	53.98		
35	4	8-8	417	1.88	77.90	177	0.40	69.0				26	3	8-1	382	1.80	53.98		
40	4	9-6	417	1.88	87.98	177	0.40	79.0											
45	5	8-7	453	1.97	97.98	213	0.49	89.0											
50	6	8-0	488	2.05	107.98	248	0.57	99.0											
55	6	8-10	488	2.05	117.98	248	0.57	109.0											
60	7	8-3	524	2.13	127.98	284	0.65	119.0											
65	7	9-0	524	2.13	137.98	284	0.65	129.0											
70	8	8-6	559	2.21	147.98	319	0.73	139.0											
75	8	9-1	559	2.21	157.98	319	0.73	149.0											
80	9	8-6	595	2.29	167.98	355	0.81	159.0											

* Includes Two Bridge End Flares

END FLARES, BRACKETS & HANDRAIL QUANTITIES TO BE ADDED TO STD. PLAN C-G											
END OR INT. SPAN					INTERMEDIATE SPAN						
SPAN LENGTH		HANDRAIL SPACES	REIN. STEEL	CLASS "A" CONCRETE	PIPE RAIL	SPAN LENGTH		HANDRAIL SPACES	REIN. STEEL	CLASS "A" CONCRETE	PIPE RAIL
FT.	Nº	FT./IN.	LBS.	CY/IN.	LN/FT.	FT.	Nº	FT./IN.	LBS.	CY/IN.	LN/FT.
20	2	9-12	346	1.72	47.50	106	0.24	39.0			
22	3	6-9	382	1.80	53.98	142	0.32	43.0			
24	3	7-5	382	1.80	53.98	142	0.32	47.0			
26	3	8-1	382	1.80	53.98	142	0.32	51.0			

* Includes Two Bridge End Flares

BILL OF MATERIAL FOR ONE BRIDGE END FLARE **									
BAR	SIZE	NZ	UNIT LENGTH	TOTAL LENGTH	BAR	SIZE	NZ	UNIT LENGTH	TOTAL LENGTH
R	#5	3	8'-6"	25'-6"	S	#4	1	3'-8"	3'-8"
R ₁	#5	1	8'-1"	8'-1"	S ₁	#4	1	3'-0"	3'-0"
R ₂	#5	1	7'-5"	7'-5"	V	#4	5	5'-5"	27'-1"
R ₃	#5	1	6'-5"	6'-5"	W	#4	11	3'-5"	37'-7"
R ₄	#5	2	5'-10"	11'-8"					
R ₅	#5	2	5'-2"	10'-4"					
Total #5 Bars = 69'-5" = 72 Lbs.				Total #4 Bars = 71'-4" = 98 Lbs.					
TOTAL REINFORCING STEEL =				120 LBS.					
TOTAL CLASS "A" CONCRETE =				0.74 CU. YDS.					
TOTAL HANDRAIL =				4.19 LIN. FT.					

** Includes Quantities Below Top of Sidewalk Curb Only.

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Latest Approved Louisiana Dept. of Highways Standard Specifications.

DESIGN SPECIFICATIONS: A.A.S.H.O. 1949 As Amended to Dec. 1950. Concrete, Fab. Carbon Steel, Pipe, and Reinforcing Steel in Handrail (Including Flare Handrail) Above Top of 5" Sidewalk Curb to be Built for Per Lin. Ft. of Handrail. This includes Bars X, Y, L & N that Project into Solid 5" Curb.

All Concrete to be Class "A".

All Structural Steel to be Fabricated Carbon.

Reinforcing Steel to be Structural, Intermediate or Hot Rolled A.S.T.M. A36 or Reinforcing Steel A.S.T.M. A616.

Dimensions Relating to Reinforcing Steel are to Bar Centers.

Exposed Concrete Corners to have 3" Chamfer.

Concrete Rail and Concrete Posts to be Paired in One Operation. Handrail Pipe and Castings to be Painted with One Shop Coat and Three Field Coats in Accordance with the "Special Provisions for Painting of Metal Surfaces". Shop Coat to be Applied Before Erection.

For Spans Above 40' Allow 1'-10" for Splice for #5 Bars M.

STANDARD PLAN TYPE "I" HANDRAIL & BRIDGE END FLARE 2'-6" SIDEWALKS TO BE USED WITH STD. PLANS C-G & S-C									
DATED: Sept. 1952									
STATE OF LOUISIANA DEPARTMENT OF HIGHWAYS									
DESIGNED		CHECKED		DETAILED P.C. Pavides		CHECKED H. H. H. H.		TRACED & C. H. H. H.	
BRIDGE DESIGN SECTION									
12-30-52	Substitute Bar L for Bars X and Y								
DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE
REVISIONS									