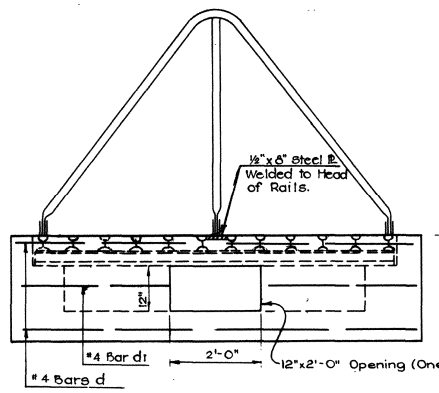
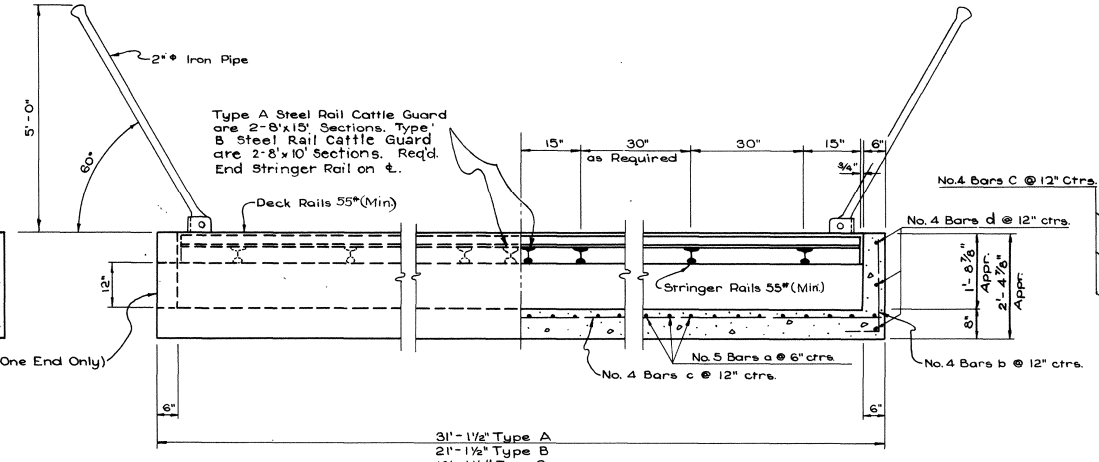
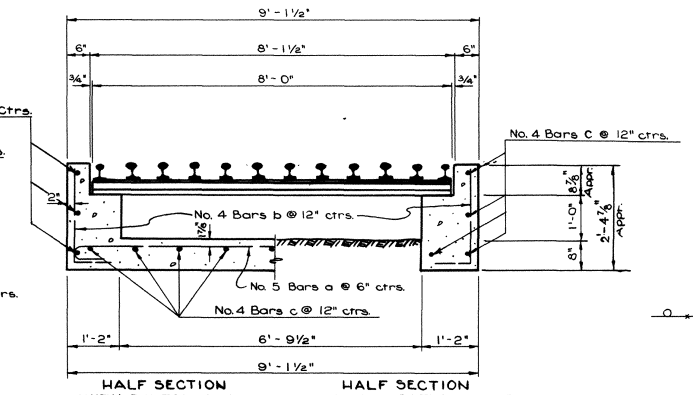


ELEVATION A-A

Showing Horizontal Steel in Wall

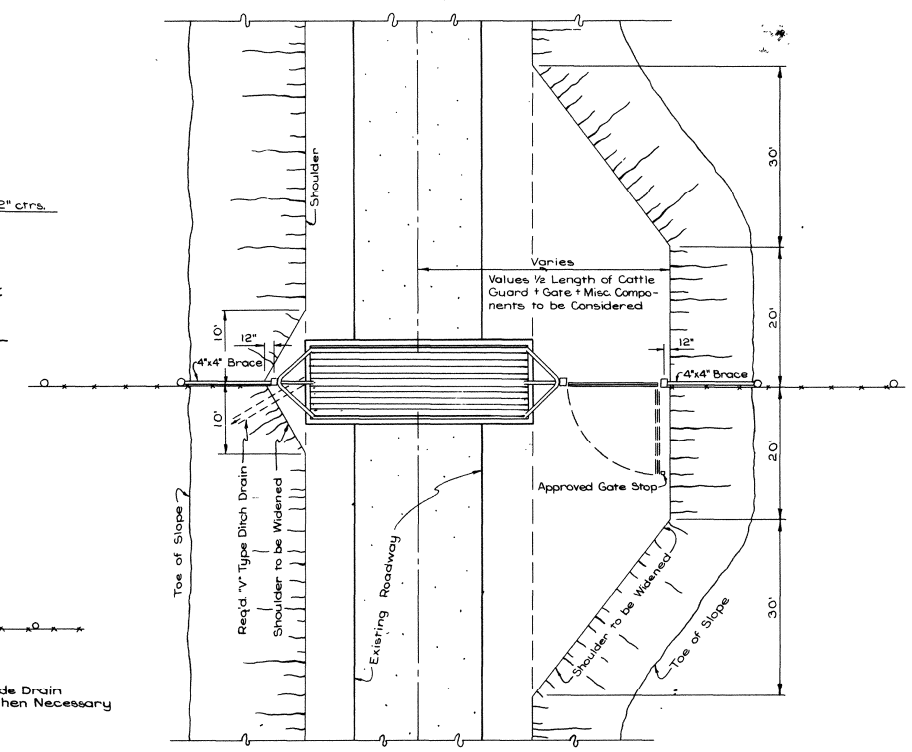


PART ELEVATION B-B



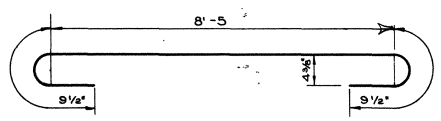
PART SECTION C-C

SECTION D-D

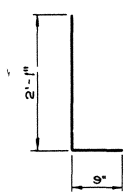


PLAN OF CATTLE GUARD ON STATE SECONDARY OR PARISH ROADS

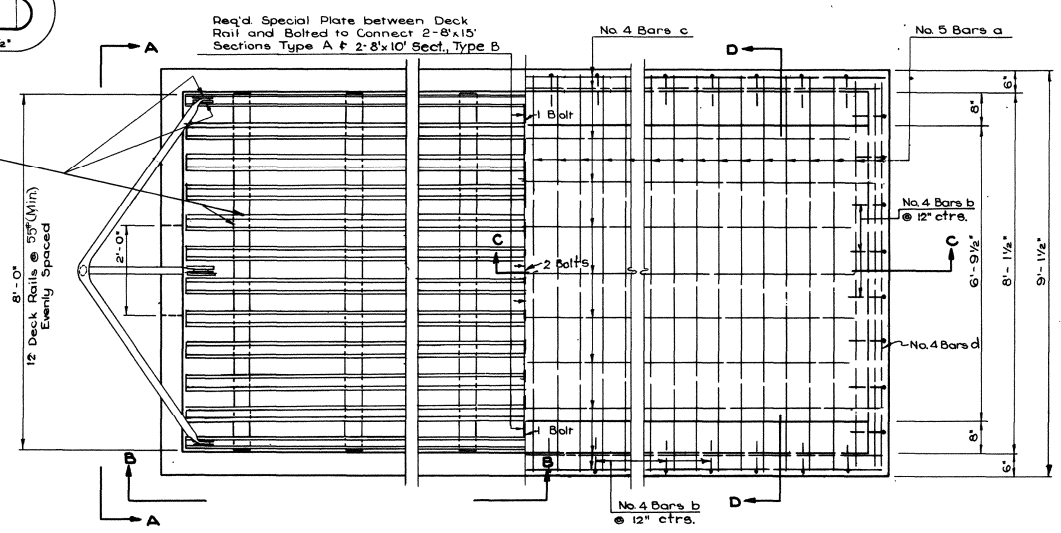
Type A or B Steel Rail Cattle Guard to be used.



Detail No. 5 Bars a



Detail No. 4 Bars b

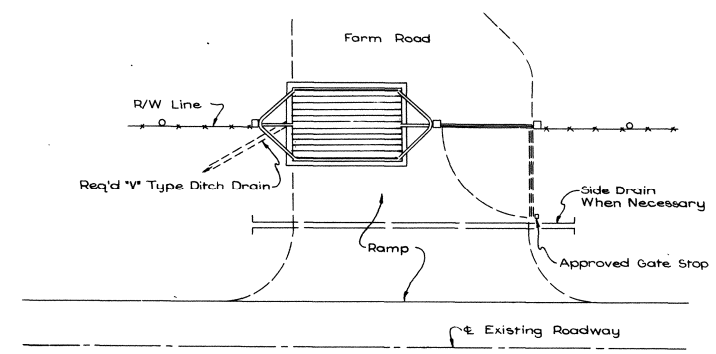


PART PLAN

Showing Steel Rail Cattle Guard

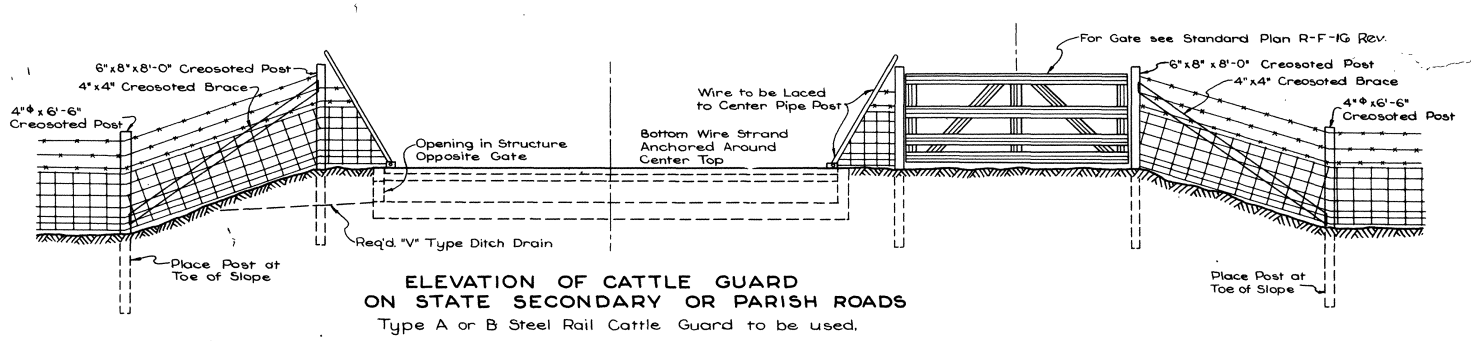
PART PLAN

Showing Reinforcing in Walls and Slab



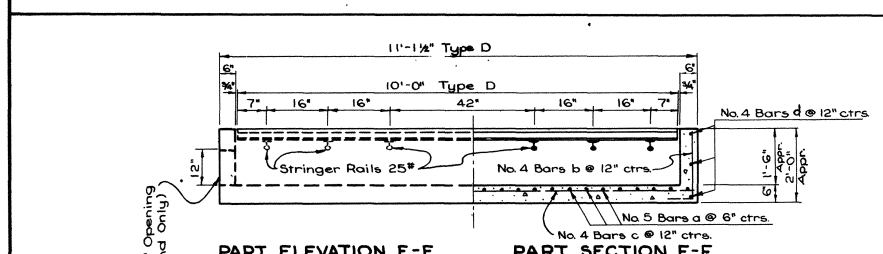
PLAN OF CATTLE GUARD ON R/W LINE

Type C or D Steel Rail Cattle Guard to be used.



ELEVATION OF CATTLE GUARD ON STATE SECONDARY OR PARISH ROADS

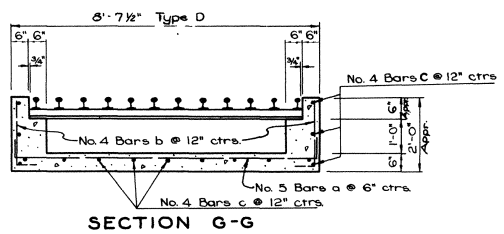
Type A or B Steel Rail Cattle Guard to be used.



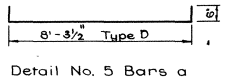
PART ELEVATION E-E

Note: End Posts on Type D to be similar to End Posts on Type A, B, and C

PART SECTION F-F

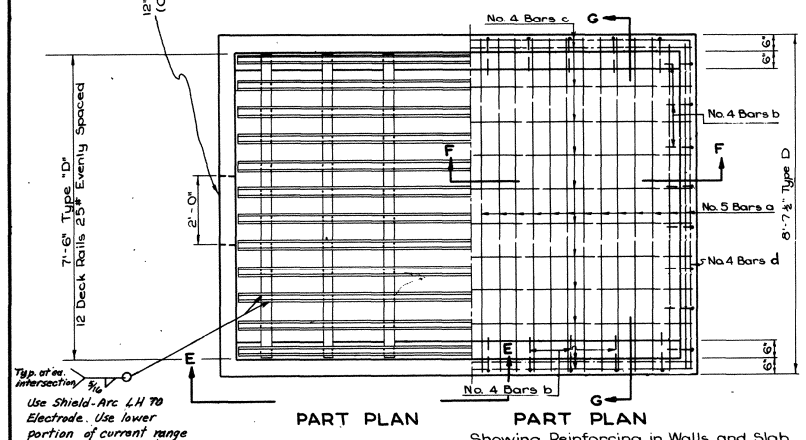


SECTION G-G



Detail No. 5 Bars a

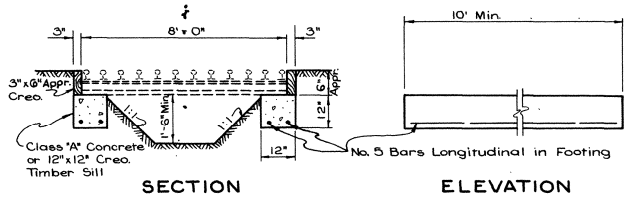
Detail No. 4 Bars b



PART PLAN

PART PLAN

Showing Reinforcing in Walls and Slab

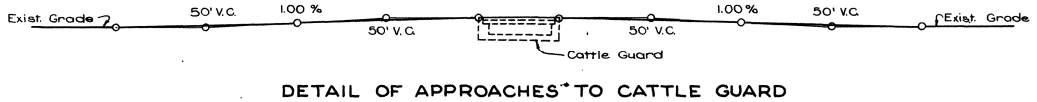


SECTION

ELEVATION

Note: Above Footing to be used where Cattle Guard is Temporary and Traffic is Light. Creosoted Timber, Reinforcing Steel and Class "A" Concrete to be included in Bid Price for Steel Rail Cattle Guard.

To Be Used With Type D Steel Rail Cattle Guard.



DETAIL OF APPROACHES TO CATTLE GUARD

To be used on all Gravel Roads or as directed by Project Engineer.

STEEL RAIL CATTLE GUARD		CONCRETE STRUCTURE	BILL OF MATERIAL														
			NO. 5 BARS a			NO. 4 BARS b			NO. 4 BARS C			NO. 4 BARS d			NO. 4 BARS d1			DEFORMED REINFORC. STEEL	FABRICATED CARBON STEEL	CLASS A CONCRETE
TYPE	DIMENSIONS	OVERALL DIMENSIONS	NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.	NO.	FT.	IN.	POUNDS	POUNDS	CU. YDS.
A	8' x 30'	9'-1½" x 31'-1½"	62	10	0	74	2	10	15	30	10	5	8	10	2	3	3	1130	* 10069	10.99
B	8' x 20'	9'-1½" x 21'-1½"	42	10	0	54	2	10	15	20	10	5	8	10	2	3	3	783	* 6827	7.60
C	8' x 15'	9'-1½" x 16'-1½"	32	10	0	44	2	10	15	15	10	5	8	10	2	3	3	610	* 4864	5.91
D	7'-6" x 10'	8'-7½" x 11'-1½"	22	9	3½	34	2	5	15	10	10	5	8	4	2	3	0	408	1375	3.16

Note: Proj. Engineer to check size of Rails and Dimensions before permitting Materials to be ordered.
Quantities shown above are for Cattle Guards with Bottom Slab.
Cattle Guard to be paid for as a Unit, Complete in Place.
Quantities shown for Fab. Carbon Steel do not include Pls, Fastenings, Bolts, Welds, etc.

* Based on 64# Deck Rails and 64# Stringer Rails.

R-M-37MOD.

APPROVED: Original Signed by Chief Engineer DATE
CHIEF ENGINEER

STANDARD PLAN

PORTABLE STEEL RAIL CATTLE GUARD

8' SPAN; 15', 20' AND 30' LENGTHS
7'-6" SPAN; 10' LENGTH

DATED JULY 19, 1961 55# (Min) DECK RAILS

DATE	DESCRIPTION	BY
1/19/66	Stringer Rail Weight	M.J.C.
4/10/67	Deck Rail Weight	M.I.H.
8/21/68	Add welding size & note	W.E.M.
11/20/68	Gate Std. Revised	W.E.M.

REVISIONS

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED	DETAILED B. L. B.	TRACED Rollo
CHECKED	CHECKED Q.A.H. & W.E.M.	CHECKED Q.A.H.
IN CHARGE OF		

R-M-37 MOD.