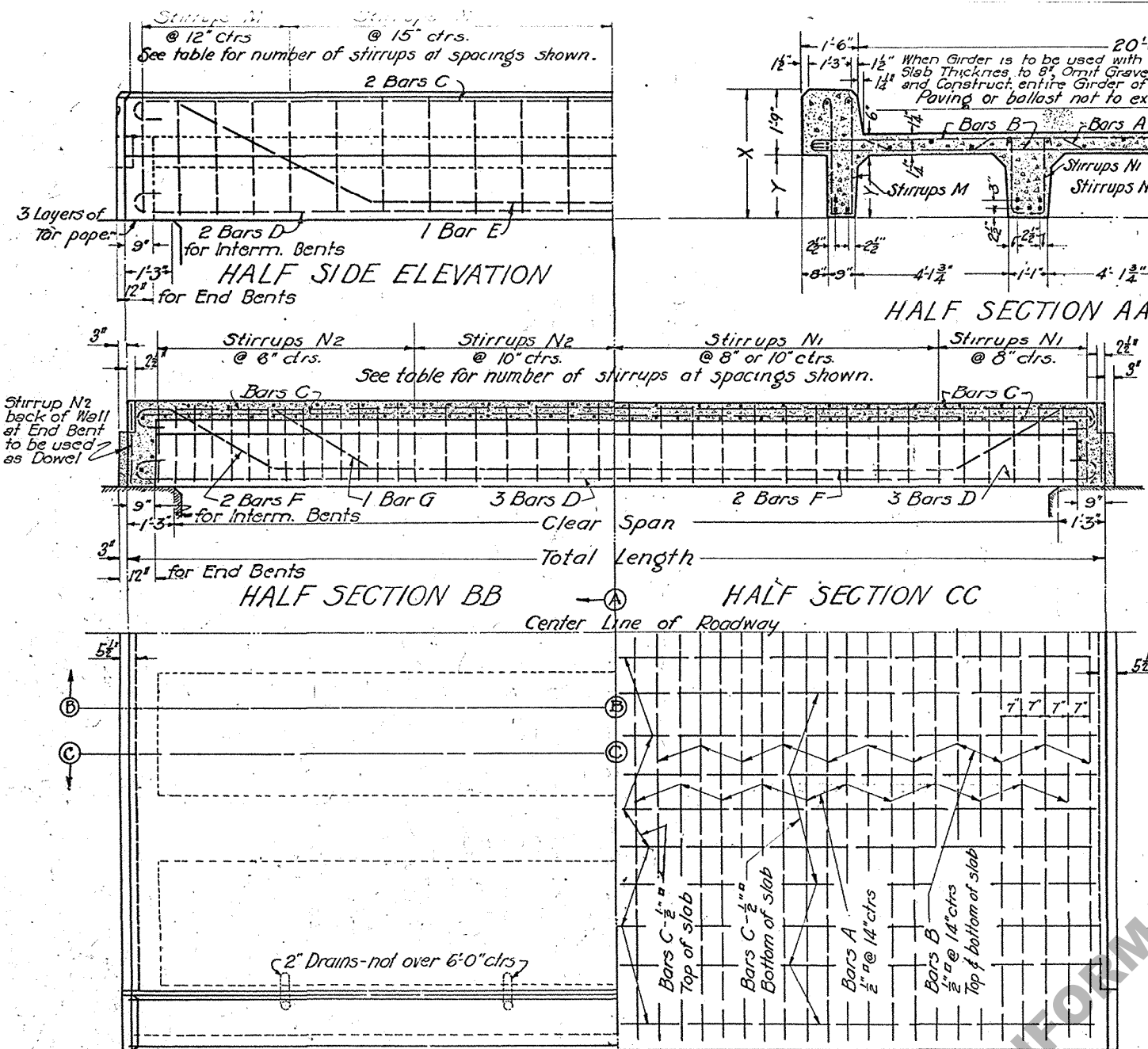




GENERAL NOTES & DESIGN DATA.

Specifications: Louisiana Highway Commission Sept. 1925
 Concentrated load Typical 15 ton truck.
 Impact allowance 30 per cent.
 Paving or ballast Not to exceed 80 lbs. per Sq. ft.
 Steel in tension 16000 " " Sq. in.
 Concrete in compression 650 " " "
 Reinforced concrete in shear 110 " " "
 The table is based on the net area of bars as follows:-
 1/2" = 0.25 sq. in. 1" = 1.00 sq. in. 1 1/8" = 1.2656 sq. in.
 1 1/4" = 1.5625 sq. in.

Concrete mixture to be as follows:-
 Maximum size of aggregate - 1 1/2"
 All reinforcing steel shall be deformed bars.
 (Square twisted bars not to be considered as deformed.)
 All dimensions relating to reinforcement are to centers of bars.
 Where splicing of reinforcement is necessary, bars are to be lapped 40 diameters.
 All exposed corners (except as indicated) to be chamfered thus:
 Railings designed to suit local conditions to be placed on curbs where necessary, and provision made therefore when pouring curb.
 Curbs, slab and beam-stems must be poured at same time, allowing no time for initial set to take place between them.

DIMENSIONS & QUANTITIES

Clear Total Span Length Feet	Dimensions Ft. In.	X	Y	Z	Stirrup Spacing			Quantities	
					Exterior Beam Stirrups M	Interior Beam Stirrups N1	Interior Beam Stirrups N2	Concrete Cu. Yds.	Steel Lbs.
16	18'-6"	2'-11"	1'-2"	1'-4"	3 Spcs @ 12"	15" 26 Spcs @ 8"	10 Spcs @ 6"	16.5	3510
18	20'-6"	3'-1"	1'-4"	1'-6"	4 " 12"	15" 29 " "	11 " 6"	19.0	3880
20	22'-6"	3'-2"	1'-5"	1'-7"	4 " 12"	15" 32 " "	11 " 6"	21.1	4760
22	24'-6"	3'-3"	1'-6"	1'-8"	4 " 12"	15" 35 " "	11 " 6"	23.3	5140
24	26'-6"	3'-4"	1'-7"	1'-9"	4 " 12"	15" 38 " "	11 " 6"	25.7	6230
26	28'-6"	3'-5"	1'-8"	1'-10"	4 " 12"	15" 41 " "	11 " 6"	28.0	6670

Note: When Girder is to be used with Concrete Wearing Surface, add 0.0611 Cu. Yds Conc. per lin. ft. of Bridge to Quantities shown in Table

BILL OF STEEL

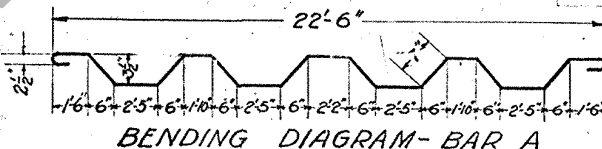
DETAIL OF ROADWAY DRAIN

Clear Span FEET	Bars A- $\frac{1}{2}''^{\phi}$		Bars B- $\frac{1}{2}''^{\phi}$		Bars C- $\frac{1}{2}''^{\phi}$		Bars D		Bars E		Bars F		Bars G		Bars M- $\frac{1}{2}''^{\phi}$		Bars N- $\frac{1}{2}''^{\phi}$	
																		
	Slab Reinf.	No. LGTH.	Slab Reinf.	No. LGTH.	Spacing Bars	No. LGTH.	Ext. & Int. Bm. Reinf.	No. SIZE LGTH.	Exterior Bm. Reinf.	No. SIZE LGTH.	Interior Bm. Reinf.	No. SIZE LGTH.	Interior Bm. Reinf.	No. SIZE LGTH.	Stirrup-Ext. Bm.	No. LGTH.	Stirrup-Int. Bm.	No. LGTH.
16	15	24'-0"	38	23'-4"	26	18'-0"	13	1" 19'-8"	2	1" 21'-0"	6	1" 20'-4"	1	1" 20'-4"	32	6'-6"	54	4'-8"
18	17	24'-0"	40	23'-4"	26	20'-0"	13	1" 21'-8"	2	1" 23'-0"	6	1" 22'-4"	1	1" 22'-4"	36	6'-10"	60	5'-2"
20	19	24'-0"	44	23'-4"	26	22'-0"	13	1 1/8" 23'-10"	2	1 1/8" 25'-0"	6	1 1/8" 24'-8"	1	1 1/8" 24'-8"	38	7'-0"	66	5'-0"
22	20	24'-0"	48	23'-4"	26	24'-0"	13	1 1/8" 25'-10"	2	1 1/8" 27'-0"	6	1 1/8" 26'-8"	1	1 1/8" 26'-8"	42	7'-2"	72	5'-6"
24	22	24'-0"	52	23'-4"	26	26'-0"	13	1 1/8" 28'-0"	2	1 1/8" 29'-3"	6	1 1/8" 28'-10"	1	1 1/8" 28'-10"	46	7'-4"	84	5'-10"
26	24	24'-0"	54	23'-4"	26	28'-0"	13	1 1/8" 30'-8"	2	1 1/8" 31'-3"	6	1 1/8" 30'-10"	1	1 1/8" 30'-10"	48	7'-6"	96	5'-8"

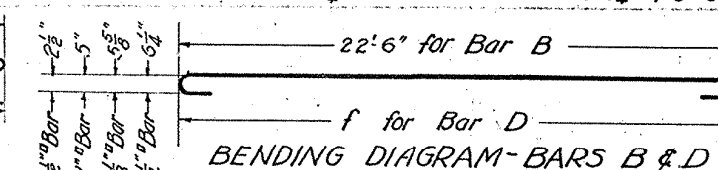
STEEL BENDING TABLE

Clear Span Feet	Bars D					Bars E					Bars F					Bars G					Bars M	Bars N1	Bars N2
	f	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e	h	h	h				
16	18'-0"	1'-0"	3'-6"	9'-0"	2'-2"	4'-13"	1'-0"	1'-9"	12'-6"	1'-1"	2'-0 ³ / ₄ "	2'-9"	1'-9"	9'-0"	1'-1"	2'-0 ³ / ₄ "	2'-7"	1'-6"	1'-7"				
18	20'-0"	1'-0"	4'-0"	10'-0"	2'-4"	4'-7 ⁵ / ₈ "	1'-0"	2'-0"	14'-0"	1'-3"	2'-4 ¹ / ₂ "	3'-0"	2'-0"	10'-0"	1'-3"	2'-4 ¹ / ₂ "	2'-9"	1'-8"	1'-9"				
20	22'-0"	1'-0"	4'-6"	11'-0"	2'-5"	5'-1 ¹ / ₄ "	1'-0"	2'-3"	15'-6"	1'-4"	2'-7 ³ / ₈ "	3'-3"	2'-3"	11'-0"	1'-4"	2'-7 ³ / ₈ "	2'-10"	1'-9"	1'-10"				
22	24'-0"	1'-0"	5'-0"	12'-0"	2'-6"	5'-7 ⁷ / ₈ "	1'-0"	2'-6"	17'-0"	1'-5"	2'-10 ¹ / ₂ "	3'-6"	2'-6"	12'-0"	1'-5"	2'-10 ¹ / ₂ "	2'-11"	1'-10"	1'-11"				
24	26'-0"	1'-0"	5'-6"	13'-0"	2'-7"	6'-0 ³ / ₈ "	1'-0"	2'-9"	18'-6"	1'-6"	3'-1 ⁵ / ₈ "	3'-9"	2'-9"	13'-0"	1'-6"	3'-1 ⁵ / ₈ "	3'-0"	1'-11"	2'-0"				
26	28'-0"	1'-0"	6'-0"	14'-0"	2'-8"	6'-6 ³ / ₄ "	1'-0"	3'-0"	20'-0"	1'-7"	3'-4 ³ / ₄ "	4'-0"	3'-0"	14'-0"	1'-7"	3'-4 ³ / ₄ "	3'-1"	2'-0"	2'-1"				

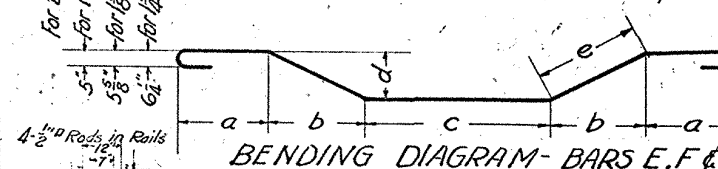
BENDING DIAGRAM-BAR A



BENDING DIAGRAM-BARS B & D



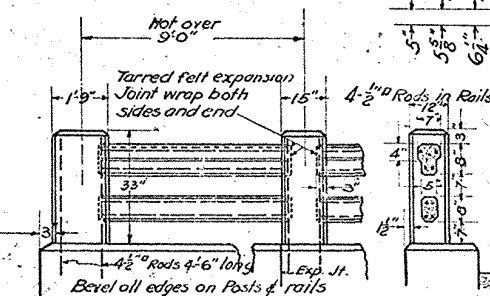
BENDING DIAGRAM-BARS E, F & G



QUANTITIES FOR RAILING

	Cu. Yds	Pounds Steel
One end post	0.18	10.0
Intermediate Post	0.13	10.0
Lineal Ft. of Hand Rail	0.045	13.5

DETAIL OF RAILING



CONCRETE DECK-GIRDER SPANS
 SPANS 16'-0" TO 26'-0" 20'-0" ROADWAY
 TRACED FROM B.P.R.S. PLG-265

LOUISIANA HIGHWAY COMMISSION

BATON ROUGE, LA.

Scale 1/2" = 1'-0"

Revised Sept. 1929
 Revised Sept. 1926

STATE HIGHWAY ENGINEER

(B-2-135) C-G-14