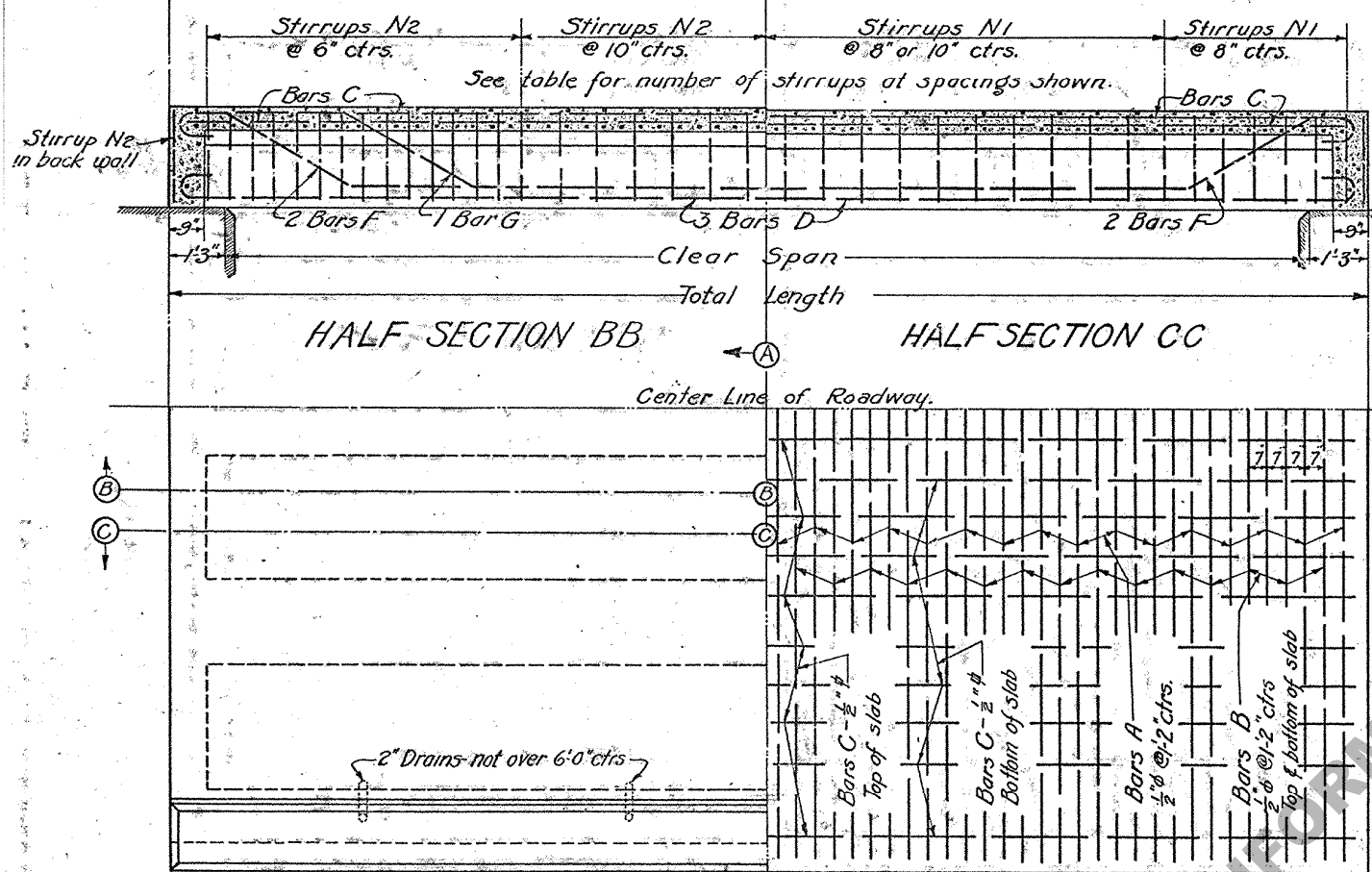
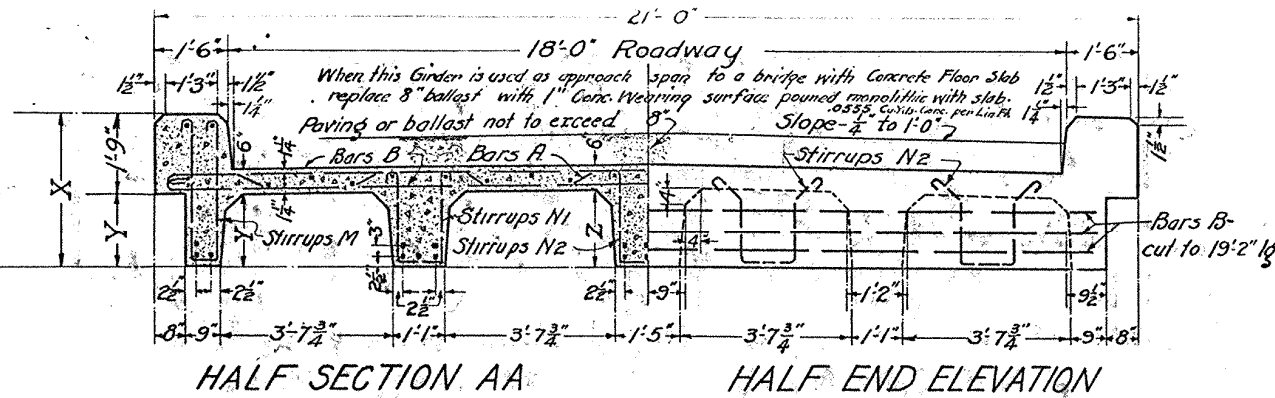
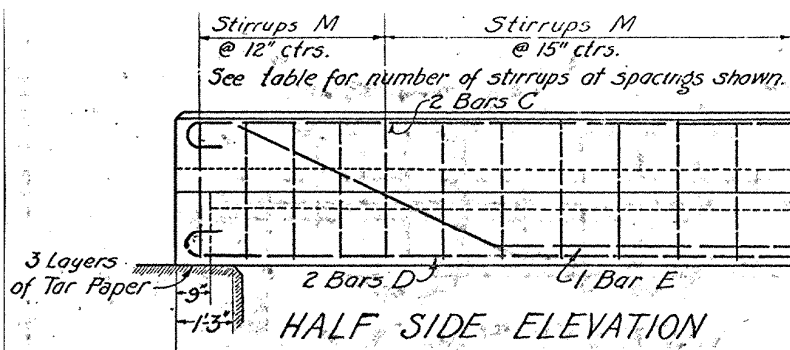




QUARTER PLAN

QUARTER PLAN

Showing Slab Reinforcement.

GENERAL NOTES & DESIGN DATA

Specifications ----- B.P.R. 1918
 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 " " " "
 This table is based on the net area of bars as follows:
 $\frac{1}{2}" = 0.1963 \text{ sq. in.}$ $\frac{3}{4}" = 0.25 \text{ sq. in.}$ $1" = 1.00 \text{ sq. in.}$
 $\frac{1}{8}" = 1.2656 \text{ "}$ $\frac{1}{4}" = 1.5625 \text{ "}$

Concrete Mixture ----- Concrete to be Class A mix when used with gravel paving
 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. For types of railing, see Drawing N° G-211.
 Curbs, slab and beam-stems must be poured at the same time, allowing no time for initial set to take place between them.

DIMENSIONS & QUANTITIES

Clear Span Feet	Total Length Ft. In.	Dimensions			Stirrup Spacing			Quantities	
		X	Y	Z	Exterior Bm. Stirrups M	Interior Bm. Stirrups N1	Interior Bm. Stirrups N2	Concrete Cu. Yds.	Steel Pounds
16	18'-6"	2'-10"	1'-1"	1'-3"	35 Sps. @ 12"	26 Sps. @ 8"	10 Sps. @ 6"	1.52	220
18	20'-6"	3'-0"	1'-3"	1'-5"	35 Sps. @ 12"	26 Sps. @ 8"	10 Sps. @ 6"	1.53	3160
20	22'-6"	3'-0"	1'-3"	1'-5"	35 Sps. @ 12"	26 Sps. @ 8"	10 Sps. @ 6"	1.53	3520
22	24'-6"	3'-0"	1'-3"	1'-5"	35 Sps. @ 12"	26 Sps. @ 8"	10 Sps. @ 6"	1.70	4330
24	26'-6"	3'-2"	1'-5"	1'-7"	35 Sps. @ 12"	26 Sps. @ 8"	10 Sps. @ 6"	2.02	4690
26	28'-6"	3'-3"	1'-6"	1'-8"	35 Sps. @ 12"	26 Sps. @ 8"	10 Sps. @ 6"	2.20	5710
								25.7*	6140

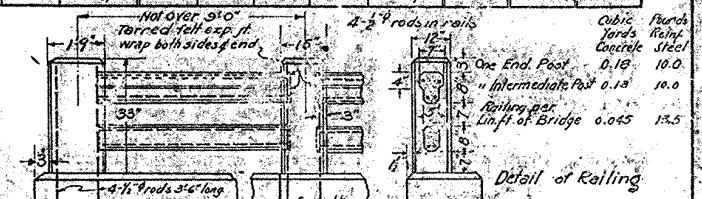
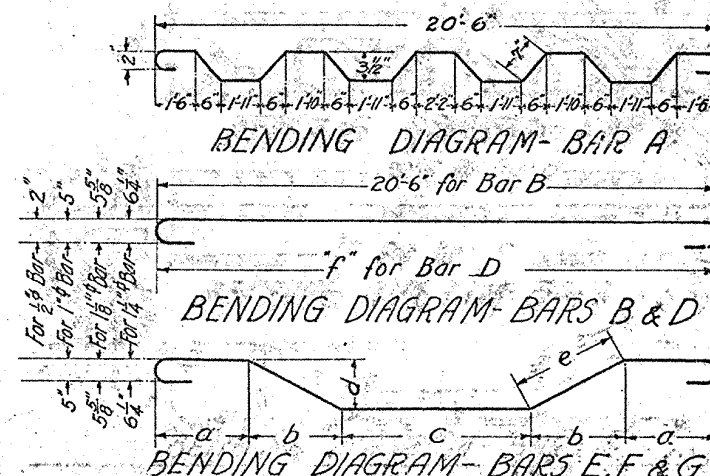
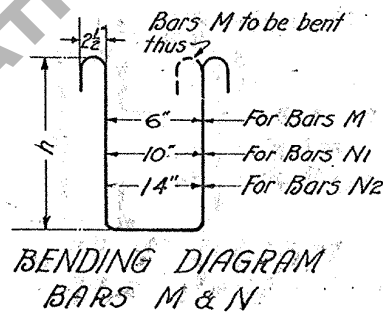
Note: Quantities exclusive of Posts and railing.
 Small figures give quantities in posts and railing for one panel complete.

BILL OF STEEL

Clear Span Feet	Bars A- $\frac{1}{2}"$ 		Bars B- $\frac{1}{2}"$ 		Bars C- $\frac{1}{2}"$ 		Bars D 			Bars E 			Bars F 			Bars G 			Bars M- $\frac{1}{2}"$ 		Bars N- $\frac{1}{2}"$ 	
	No.	Length	No.	Length	No.	Length	No.	Size	Length	No.	Size	Length	No.	Size	Length	No.	Size	Length	No.	Length	No.	Length
16	16	21'-10"	36	21'-2"	26	18'-0"	13	1" ϕ	19'-8"	2	1" ϕ	20'-10"	6	1" ϕ	20'-3"	1	1" ϕ	20'-3"	32	6'-4"	54	4'-6"
18	18	21'-10"	40	21'-2"	26	20'-0"	13	1" ϕ	21'-8"	2	1" ϕ	22'-10"	6	1" ϕ	22'-3"	1	1" ϕ	22'-3"	36	6'-8"	38	5'-0"
20	19	21'-10"	42	21'-2"	26	22'-0"	13	1 $\frac{1}{8}"$ ϕ	23'-10"	2	1 $\frac{1}{8}"$ ϕ	25'-0"	6	1 $\frac{1}{8}"$ ϕ	24'-6"	1	1 $\frac{1}{8}"$ ϕ	24'-6"	38	6'-8"	40	4'-10"
22	21	21'-10"	46	21'-2"	26	24'-0"	13	1 $\frac{1}{8}"$ ϕ	25'-10"	2	1 $\frac{1}{8}"$ ϕ	27'-0"	6	1 $\frac{1}{8}"$ ϕ	26'-6"	1	1 $\frac{1}{8}"$ ϕ	26'-6"	42	7'-0"	43	5'-2"
24	23	21'-10"	50	21'-2"	26	26'-0"	13	1 $\frac{1}{4}"$ ϕ	28'-0"	2	1 $\frac{1}{4}"$ ϕ	29'-0"	6	1 $\frac{1}{4}"$ ϕ	28'-8"	1	1 $\frac{1}{4}"$ ϕ	28'-8"	46	7'-0"	46	5'-8"
26	25	21'-10"	54	21'-2"	26	28'-0"	13	1 $\frac{1}{2}"$ ϕ	30'-0"	2	1 $\frac{1}{2}"$ ϕ	31'-0"	6	1 $\frac{1}{2}"$ ϕ	30'-8"	1	1 $\frac{1}{2}"$ ϕ	30'-8"	48	7'-2"	68	5'-4"
																				50	5'-8"	
																				72	5'-4"	
																				54	5'-10"	

STEEL BENDING TABLE

Clear Span Feet	Bar D	Bars E					Bars F					Bars G					Bar M	Bar N	Bar 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'-1"	4'-0 3/4"	1'-0"	1'-9"	12'-6"	1'-0"	2'-0 3/4"	2'-9"	1'-9"	9'-0"	1'-0"	2'-0 3/4"	2'-6"	1'-5"	1'-6"
18	20'-0"	1'-0"	4'-0"	10'-0"	2'-3"	4'-7 1/8"	1'-0"	2'-0"	14'-0"	1'-2"	2'-3 3/4"	3'-0"	2'-0"	10'-0"	1'-2"	2'-3 3/4"	2'-8"	1'-7"	1'-8"
20	22'-0"	1'-0"	4'-6"	11'-0"	2'-3"	5'-0 3/8"	1'-0"	2'-3"	15'-6"	1'-2"	2'-6 3/8"	3'-3"	2'-3"	11'-0"	1'-2"	2'-6 3/8"	2'-8"	1'-7"	1'-8"
22	24'-0"	1'-0"	5'-0"	12'-0"	2'-5"	5'-6 3/8"	1'-0"	2'-6"	17'-0"	1'-4"	2'-10"	3'-6"	2'-6"	12'-0"	1'-4"	2'-10"	2'-10"	1'-9"	1'-10"
24	26'-0"	1'-0"	5'-4"	13'-0"	2'-5"	6'-0 3/8"	1'-0"	2'-9"	18'-6"	1'-4"	3'-0 3/8"	3'-9"	2'-9"	13'-0"	1'-4"	3'-0 3/8"	2'-10"	1'-9"	1'-10"
26	28'-0"	1'-0"	6'-0"	14'-0"	2'-6"	6'-6"	1'-0"	3'-0"	20'-0"	1'-5"	3'-3 3/4"	4'-0"	3'-0"	14'-0"	1'-5"	3'-3 3/4"	2'-11"	1'-10"	1'-11"



CONCRETE DECK GIRDER SPANS

SPANS 16'-0" TO 26'-0" ROADWAY 18'-0"
 TRACED FROM B.P.R. STD. PL. G-263

LOUISIANA HIGHWAY COMMISSION
 BATON ROUGE, LA.

B.P.R. April 1923
 Approved: [Signature]
 State Highway Engineer