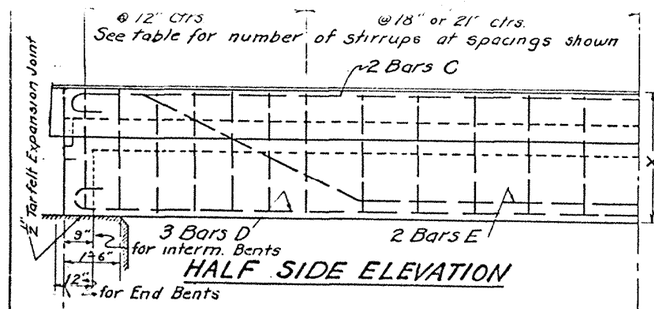
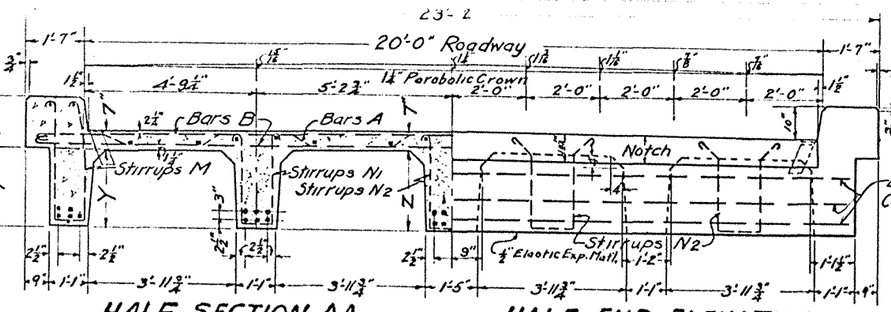
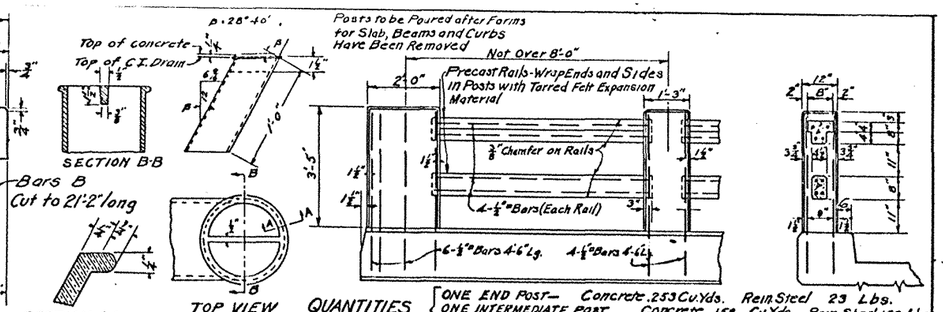


HALF SIDE ELEVATION



HALF SECTION AA

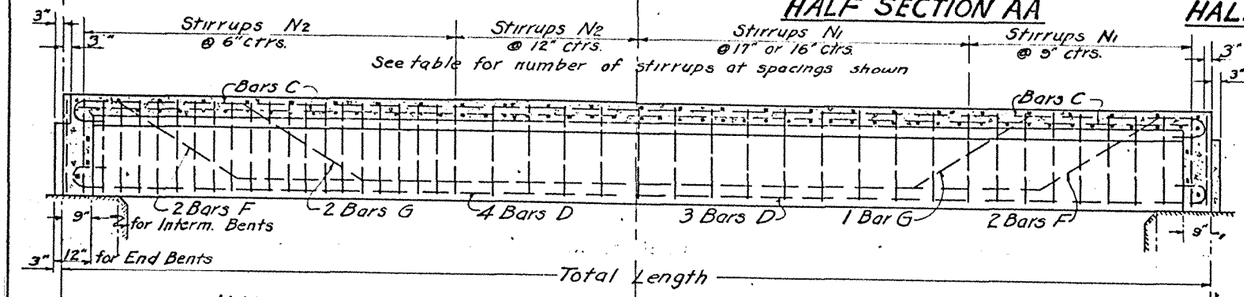
HALF END ELEVATION



BILL OF STEEL

QUANTITIES

ONE END POST—	Concrete .253 Cu.Yds.	Rein. Steel 23 Lbs.
ONE INTERMEDIATE POST	Concrete .158 Cu.Yds.	Rein. Steel 15.3 Lbs.
RAILING PER LIN. FT. (2 Sides)	Concrete .0433 Cu.Yds.	Rein. Steel 13.6 Lbs.
ONE POST AT EXP. JOINT	Concrete .253 Cu.Yds.	Rein. Steel 28 Lbs.



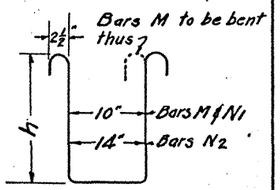
HALF SECTION BB

HALF SECTION CC

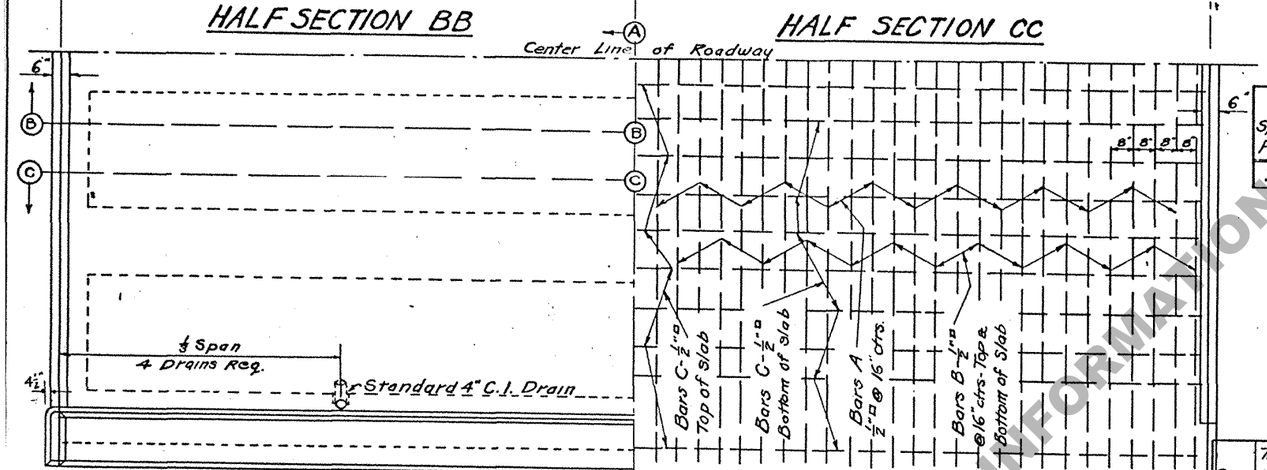
Span	Bars A-1/2" ⌀ Slab Reinf.		Bars B-1/2" ⌀ Slab Reinf.		Bars C-1/2" ⌀ Spacing Bar		Bars D Ext. & Int. Bm. Reinf.			Bars E Exterior Bm. Reinf.			Bars F Interior Bm. Reinf.			Bars G Interior Bm. Reinf.			Bars M-1/2" ⌀ Stirrup-Ext. Bm.		Bars N-1/2" ⌀ Stirrup-Int. Bm.	
FEET	No	Length	No.	Length	No.	Length	No.	Size	Length	No	Size	Length	No	Size	Length	No.	Size	Length	No.	Length	No.	Length
31	23	24'-0"	52	23'-4"	26	30'-6"	16	1 1/8" ⌀	32'-4"	4	1 1/8" ⌀	33'-3"	6	1 1/8" ⌀	33'-3"	4	1 1/8" ⌀	33'-3"	50	7'-6"	70 59	6'-0" 6'-6"

STEEL BENDING TABLE

Span Feet	Bars D f	Bars E a	b	c	d	e	Bars F a	b	c	d	e	Bars G a	b	c	d	e	Bars M h	Bars N1 h	Bars N2 h
31	30'-6"	1'-3"	6'-6"	15'-0"	2'-6"	6'-11 5/8"	1'-3"	3'-3"	21'-6"	1'-9"	3'-8 1/4"	4'-6"	3'-3"	15'-0"	1'-9"	3'-8 1/4"	2'-11"	2'-2"	2'-3"



BENDING DIAGRAM BARS M & N

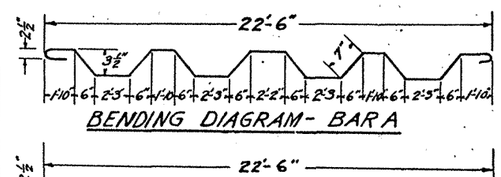


QUARTER PLAN

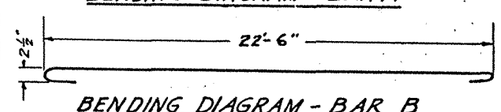
QUARTER PLAN
Showing Slab Reinforcement

DIMENSIONS & QUANTITIES

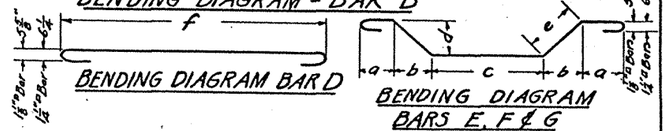
Span Feet	Total Length Ft. In.	Dimensions X	Y	Z	Stirrup Spacing Exterior Beam Stirrups M	Interior Beam Stirrups N1	Interior Beam Stirrups N2	Quantities Concrete Cu. Yds.	Steel Lbs.
31	31'-0"	3'-3 3/16"	1'-10 1/8"	2'-0"	6 Spcs. @ 12" 12 " " 18" 6 " " 12"	8 Spcs. @ 9" 18 " " 12" 8 " " 9"	20 Spcs @ 6" 10 " " 12" 20 " " 6"	34.18 Add 2.3 for End Span	7410



BENDING DIAGRAM- BAR A



BENDING DIAGRAM - BAR B



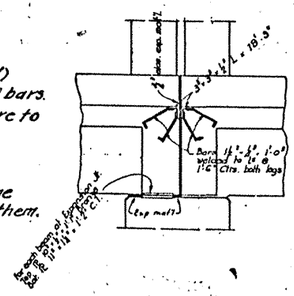
BENDING DIAGRAM BAR D

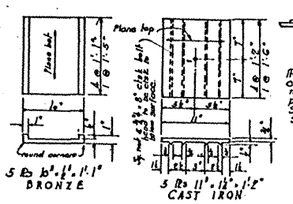
BENDING DIAGRAM BARS E, F & G

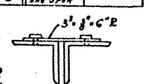
GENERAL NOTES & DESIGN DATA

Specifications :- Louisiana Hwy. Comm. 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 1/8" ⌀ = 1.2656 Sq. In. 1 1/4" ⌀ = 1.5625 Sq. In.

Concrete to be Class "AA"
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:
Curbs, slab and beam-stems must be poured at same time allowing no time for initial set to take place between them.
Quantities in table do not include Handrail.
Hand Rail to be paid for as Class A-A Concrete







Plates and bolts to be classified as erection material and not paid for as struct'l. Steel. Tap for 3/4" stud bolt @ 3'-0" ctrs

MAT'L FOR ONE EXPAN. JOINT

	Single Joint	Double Joint
Bronze	12.5#	25.0#
Struc. Steel	147#	253#
Cast Iron	173#	346#
Total	185#	1049#

To be paid for as struct'l Steel

CONCRETE DECK GIRDER SPANS

SPAN 31'-0" ROADWAY 20'-0"

TRACED FROM U.S.B.P.R. STAND. G 266 of March 1920
Revised Nov. 1930

Louisiana Highway Commission
Baton Rouge, La.

FOR INFORMATIONAL PURPOSES ONLY