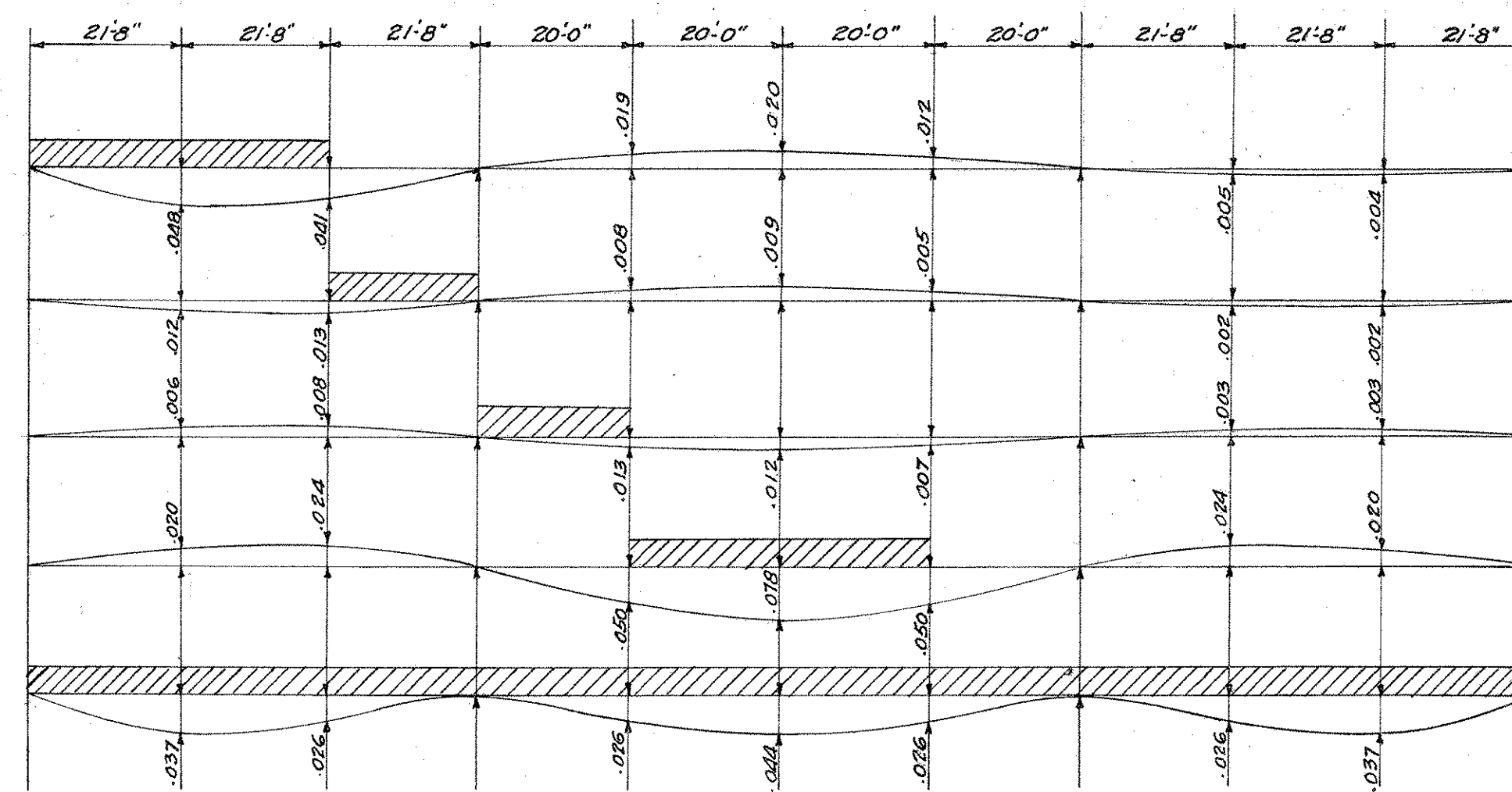
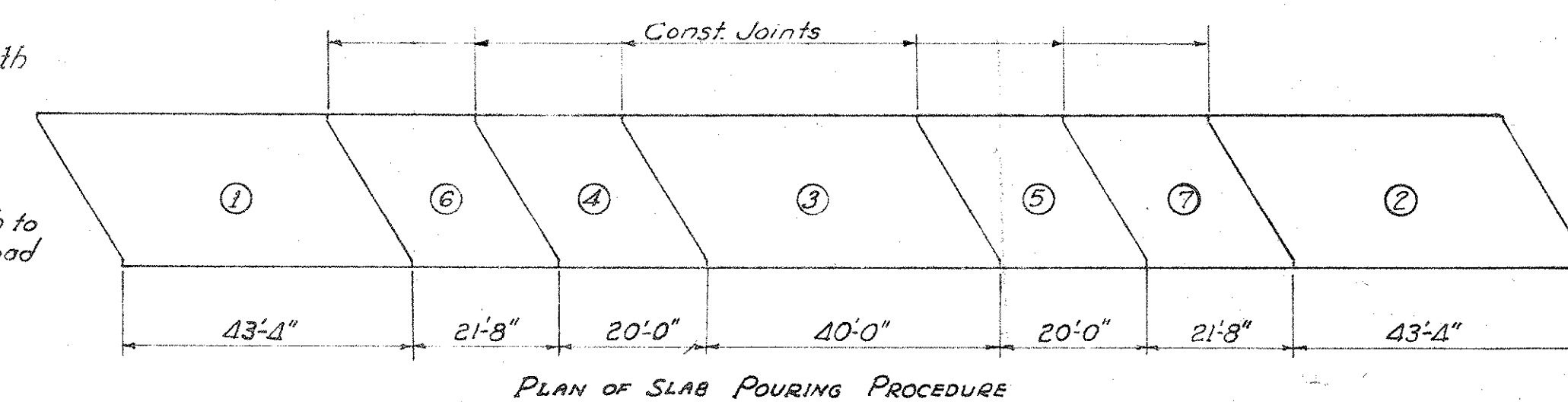


FED. ROAD DIST. NO.	STATE	COUNTY	ROUTE NO.	S.C. DOCKET	SHEET NO.	TOTAL SHEETS
12	S.C.	ABBEVILLE	184	1,220	9	9

NOTES
Deflection Diagrams are intended for use in allowing for successive deflections produced by the different slab pourings.
The deflections were figured assuming that all four beams deflect together. The uniform load of 3000 # per lin.ft. of bridge is made up of the weight of brackets, curbs, slab, and build-downs only.

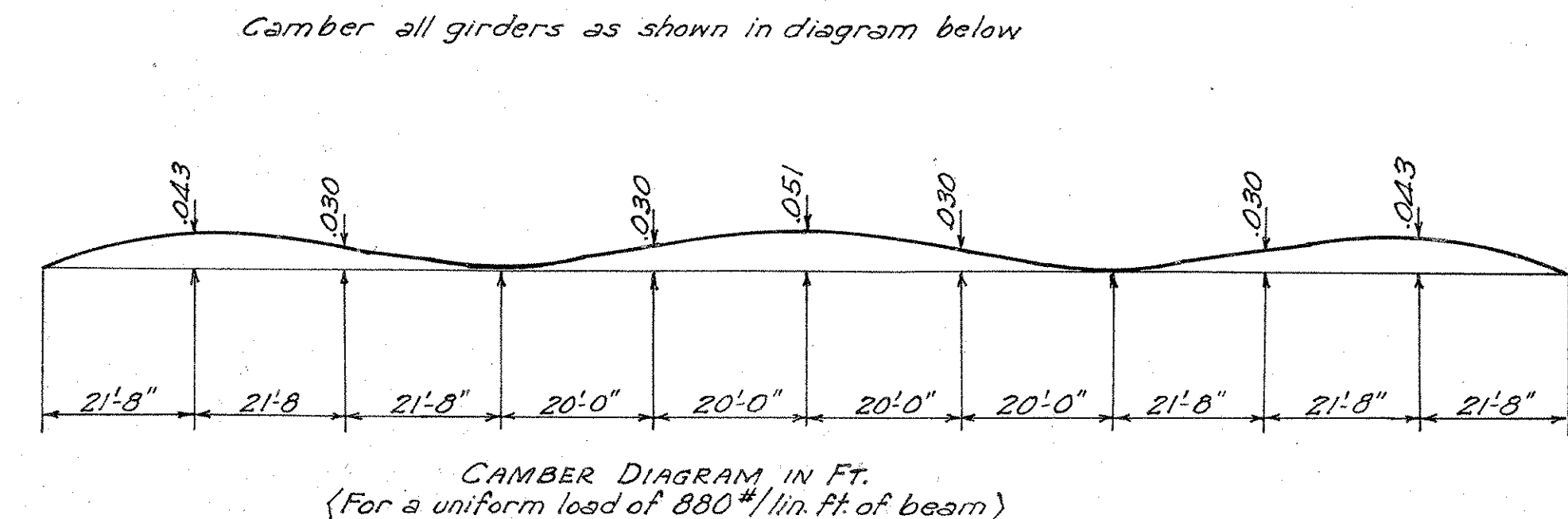


DEAD LOAD DEFLECTION DIAGRAMS (in feet)
(For a uniform load of 750 lbs/lin.ft. of beam)



The slab shall be poured in the order shown above except that pourings 1 and 2 shall preferably be poured simultaneously also 4 and 5, and 6 and 7. There shall be an interval of at least two days between pourings.
No deck concrete shall be poured until superstructure falsework has been struck.
Diaphragms, curbs, and brackets shall be poured monolithic with slab. Posts and rail not to be poured until all slab concrete is in place.

Design Data AASHO Specifications 1935 H-15 Equiv L.L. plus impact $f_c = 13,000$ (Struct. Steel) $f_s = 16,000$ (Reinf. Steel) $f_c = 900$ $n = 10$
All welds unless noted otherwise are to be 3/8" continuous bead.
All exposed corners to be chamfered 3/8" unless noted otherwise.
All dimensions relating to reinforcing steel are to centers of bars.
All concrete to be Class "A"
Rivets 3/8"
Holes 1/8" unless noted otherwise.
Nuts and bevelled washers for threaded bars are to be paid for at the unit price bid for structural steel.
See sheet No 7 for paint notes.



CAMBER DIAGRAM IN FT.
(For a uniform load of 880 #/lin.ft. of beam)

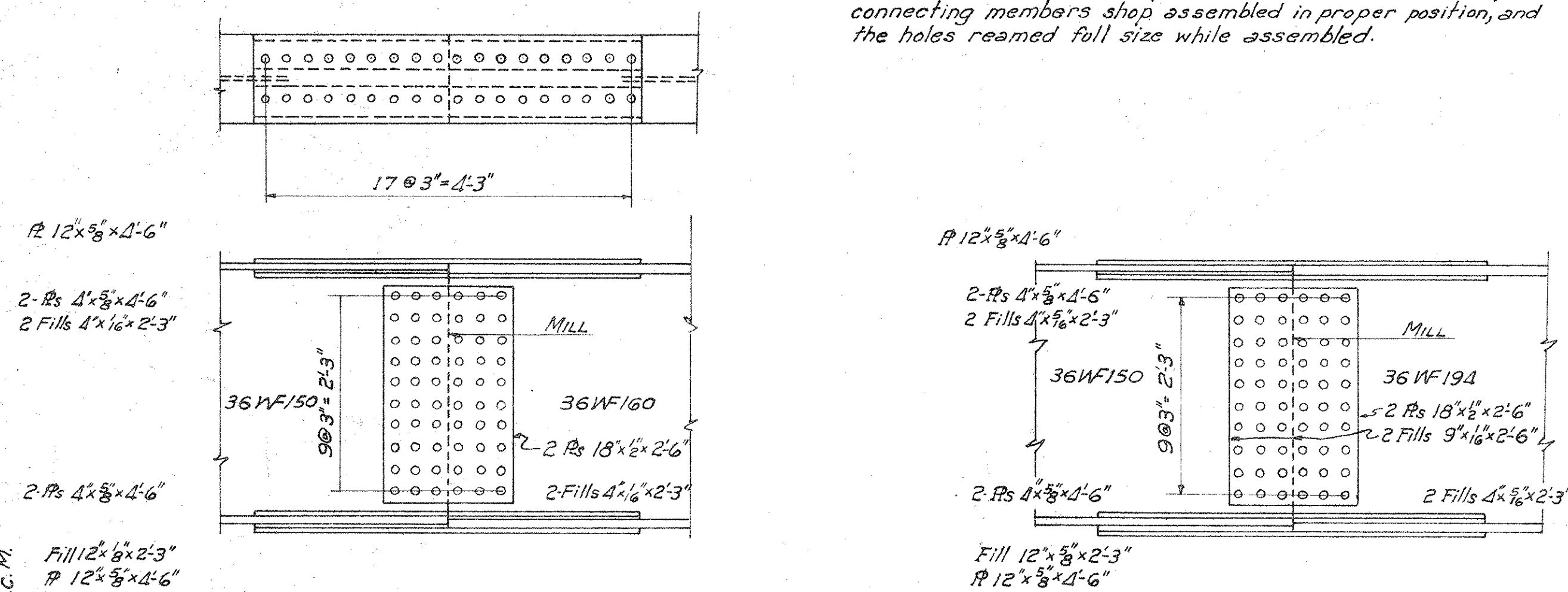
No.	DESCRIPTION	SIZE	WEIGHT
2	ANGLES	6"x4"x3/8"x27'-4"	672.3
1	"	7"x4"x3/8"x27'-4"	371.7
3	"	4"x3"x3/8"x27'-4"	697.0
2	PLATES	7/8"x1/2"x27'-4"	120.5
1	"	8/16"x1/2"x27'-4"	395.0
3	"	1/2"x1/2"x27'-4"	209.1
138	STRAFS	2"x1/2"x12'	2346
12	Angles	6"x4"x3/8"x10'-9"	110.7
12	"	5"x3 1/2"x3/8"x10'-9"	104.6
17	"	5"x3 1/2"x3/8"x0'-7"	60.9
48	Boils	3/4"x2 1/2"	322
48	"	5/8"x1 1/2"	15.8
TOTAL FOR 3 EXPANSION JOINTS			3694
TOTAL FOR 2 SUPERSTRUCTURES (LESS EXPR. JTS)			309,850 LB.
TOTAL FOR 2 SUPERSTRUCTURES			313,544 LB.

For 1/2" bars add 6" per hook
For 3/8" bars add 8" per hook
Hook DETAILS

SUMMARY OF QUANTITIES FOR 2-210' SUPERSTRUCTURES	
CLASS "A" CONCRETE	341.56 Cu.Yds.
STRUCTURAL STEEL	313,544 LBS.
REINFORCING STEEL	74,259 LBS.

S.C. STATE HIGHWAY DEPARTMENT
COLUMBIA
S.C.
DETAILS OF
210 FT. SUPERSTRUCTURE
FOR BRIDGE OVER
ROCKY RIVER
S.C. DOCKET 1,220 COUNTY-ABBEVILLE
ROUTE No. 184 DATE Nov. 1939.
SCALE 3/8"=1'-0"

Note: Rivet holes in all splices shall be sub-punched, the connecting members shop assembled in proper position, and the holes reamed full size while assembled.



SPlice DETAILS
At all double posts, place piece of well greased sheet metal, 1/8" thick in curb as outlined by cross-hatch. After adjacent concrete has hardened remove the sheet metal. All costs of performing this work to be included in the unit price bid for Class "A" Concrete.
DETAIL OF BREAK IN CURB

DETAIL OF BUILD DOWN OVER BEAMS
Constant depth
Vary this depth to offset Dead Load deflection.

Note: Steel Table is for One 210 Ft. Superstructure
Double Table for Total.

STEEL TABLE				BENDING DETAILS	
Mark	No	Size	Length		
TA	240	5/8"	31'-8"	B	
TB	242	5/8"	30'-5"	"	
TC	242	5/8"	31'-9"	"	
TD	152	1/2"	22'-6"	S	
TD ₂	76	1/2"	21'-4"	"	
TD ₃	76	1/2"	19'-8"	"	
TD ₄	38	1/2"	39'-8"	"	
TE	160	1/2"	6'-4"	B	
TF ₁	40	1/2"	5'-8"	"	
TF ₂	40	1/2"	7'-8"	"	
TF ₄	80	1/2"	0'-11"	S	
TG	160	1/2"	8'-8"	B	
TH	160	4 wire	3'-4"	"	
TI ₁	48	1/2"	21'-5"	S	
TI ₂	32	1/2"	19'-7"	"	
TJ	360	4 wire	2'-10"	B	
TK ₂	24	3/4"	21'-4"	"	
TK ₃	8	2 1/4"	19'-8"	"	
TK ₄	4	3/4"	39'-8"	"	
TL	36	1/2"	5'-3"	B	
TM	8	3/4"	25'-10"	"	
TN	24	5/8"	31'-0"	B	

