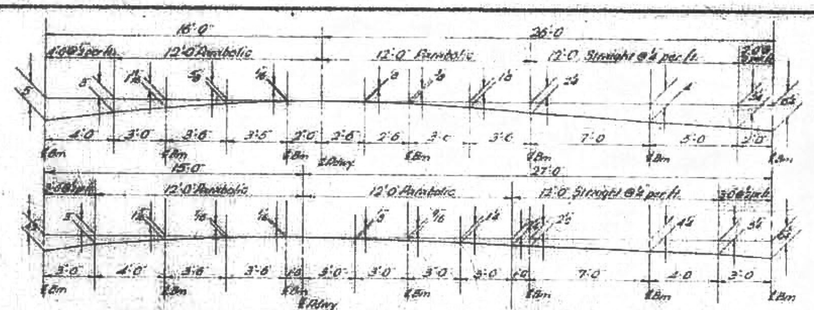
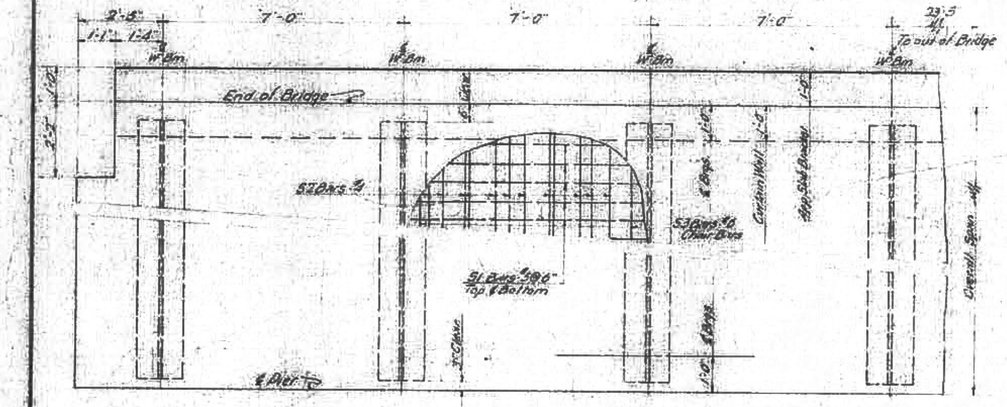
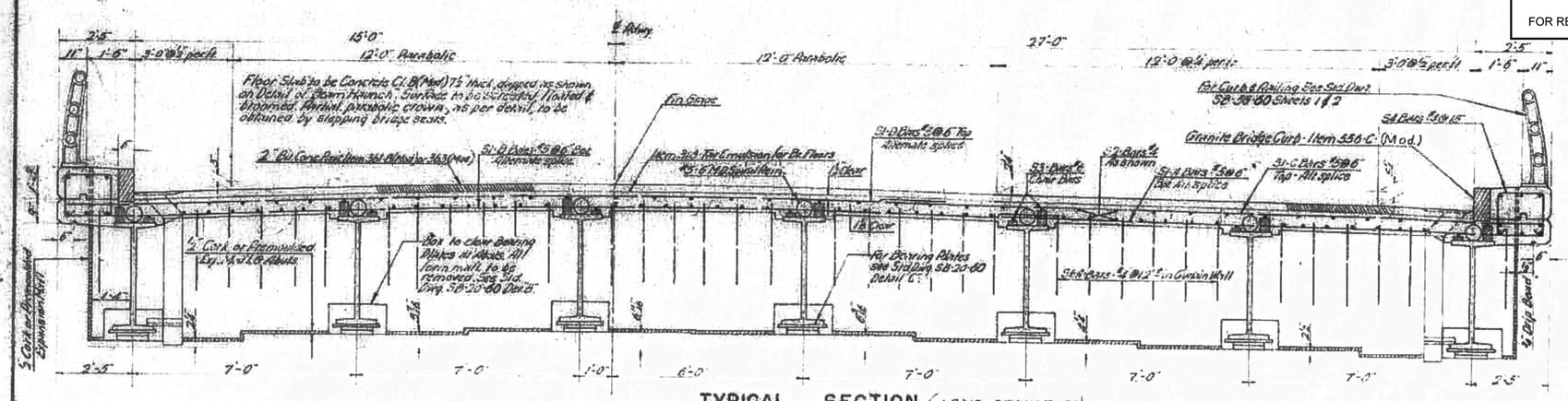


DETAIL OF PARTIAL PARABOLIC CROWN OF SLAB



PARTIAL PLAN



TYPICAL SECTION (LONG STRUCTURE)

TABLE OF QUANTITIES FOR SINGLE (SQUARE) SPAN

Span - Out to Out	99'-0"	94'-0"	89'-0"	84'-0"	79'-0"	74'-0"	69'-0"	64'-0"	59'-0"	54'-0"	49'-0"	44'-0"	39'-0"	34'-0"
Span - ℄ to ℄ Bearings	97'-0"	92'-0"	87'-0"	82'-0"	77'-0"	72'-0"	67'-0"	62'-0"	57'-0"	52'-0"	47'-0"	42'-0"	37'-0"	32'-0"
Length of Beams	98'-0"	93'-0"	88'-0"	83'-0"	78'-0"	73'-0"	68'-0"	63'-0"	58'-0"	53'-0"	48'-0"	43'-0"	38'-0"	33'-0"
Size WF Beams	36WF300	36WF300	36WF300	36WF245	36WF194	36WF170	36WF160	36WF150	36WF150	36WF150	36WF150	36WF150	33WF130	30WF116
Lgth & Size Bot. Cover Pl.	68'-0" Lg. 18"x1⅛"	57'-0" Lg. 18"x1"	52'-0" Lg. 18"x1"	50'-0" Lg. 18"x1"	50'-0" Lg. 18"x⅞"	34'-0" Lg. 14"x1"	46'-3" Lg. 12"x⅞"	36'-6" Lg. 10"x⅞"	33'-8" Lg. 10"x⅞"	33'-0" Lg. 9"x¾"	———	———	———	———
Lgth & Size Top Cover Pl.	63'-6" Lg. 13"x⅝	———	———	———	———	———	None	———	———	———	———	———	———	———
Dead Load Deflection	3"	2¾"	2⅜"	2"	1⅞"	1½"	1¼"	1"	⅞"	⅝"	½"	⅜"	¼"	¼"
Diameter of Spiral Bars	———	———	———	———	———	———	⅜"	———	———	———	———	Non Composite		
Mean Diameter of Spiral	———	———	———	———	———	———	6"	———	———	———	———	"	"	
Spiral Pitch 0'-10' from Brng.	Double@5½	Double@5½	Double@6"	Double@5½	Double@5"	Double@5"	Double@5	Double@5"	Double@5½	Double@5½	Double@5½	Non Composite		
" " 10'-20' or ℄ Span	Double@6½	Double@6½	Double@7"	Double@6½	Double@6"	Double@6½	Double@6½	Double@6½	Double@7"	Double@7½	Double@8"	"	"	
" " 20'-30' " "	4½"	4"	4½"	4"	4½"	4½"	4½"	5"	5½"	6"	6½	"	"	
" " 30'-40' " "	5½"	5½"	5½"	5½"	6"	6"	7"	7½"	———	———	———	"	"	
" " 40' ℄ Span	7"	7"	6"	8"	———	———	———	———	———	———	———	"	"	
Lgth. of ½" ⌀ Studs (Alt. to Spirals)	———	6½" Long unless otherwise specified on the Plans. 2 Studs required per Pitch										"	"	
Total Struct. Steel (1 Span) (lbs.)	269,740	237,590	218,700	172,520	138,420	115,910	97,180	82,550	72,740	65,010	58,080	52,730	39,290	30,930
Reinforcing Bars - S1-A	198	188	178	168	158	148	138	128	118	108	98	88	78	68
" " S1-B	198	188	178	168	158	148	138	128	118	108	98	88	78	68
" " S1-C	198	188	178	168	158	148	138	128	118	108	98	88	78	68
" " S1-D	198	188	178	168	158	148	138	128	118	108	98	88	78	68
" " S2	264	264	264	264	264	264	264	176	176	176	176	176	176	88
" " S3	42	42	42	42	42	42	42	28	28	28	28	28	28	14
" " S4	128	122	114	108	102	94	88	82	74	68	62	54	48	42
" " S5	32	32	32	32	32	32	32	32	32	32	32	32	32	32
" " S6A	76	76	76	76	76	76	76	76	76	76	76	76	76	76
" " S7	62	62	62	62	62	62	62	62	62	62	62	62	62	62
Total Weight Reinf. Bars (lbs.)	30,140	28,710	27,290	25,840	24,400	22,980	21,530	19,900	18,460	17,030	15,600	14,160	12,710	11,080
Approx Weight Spiral Reinf. (lbs.)	3,570	3,530	3,490	3,310	3,250	3,070	2,920	2,740	2,600	2,360	2,170	Non Composite		
Total Concrete Class B (Cu. yds.)	151	144	137	131	124	117	110	103	95	89	82	75	67	59
Total Weight Bitum. Conc. Reinf. (Tons)	59	56	53	50	47	44	41	38	35	32	29	26	23	20
Tar Emulsion for Bridge Floors (Gals.)	185	176	166	157	148	138	129	120	110	101	92	82	73	64
Approx. Quantity ½" ⌀ Studs	4,150	4,050	3,650	3,000	3,750	3,300	3,300	3,100	3,000	2,700	2,500	Non Composite		

RICHMOND
IM BPNT (7)
SHEET 13 OF 15
BRIDGE 57

FOR REFERENCE ONLY

REINFORCING STEEL SCHEDULE

S1-A #5	17'-3"	Straight	S1-B #5	31'-3"	Straight
S1-C #5	30'-9"	Straight	S1-D #5	27'-9"	Straight
S5 #5	23'-3"	Straight			

Span	S2 - ½" Straight Length	S3 - ⅝" Straight Length	S6A - #4 B & D	S6A - #4 Total Length	S4 - #4	S6A - #4
34	33'-6"	33'-6"	2'-6"	6'-6"	TL = 5'-3" B = 1'-6" D = 1'-6" C = 1'-5"	TL Varies 4.5 @ 5" A G H3 B D C'-8"
39	20'-3"	20'-6"	2'-9"	7'-0"		
44	22'-9"	23'-0"	3'-0"	7'-6"		
49	25'-3"	25'-6"	3'-0"	7'-6"		
54	27'-9"	28'-0"	3'-0"	7'-6"		
59	30'-3"	30'-6"	3'-0"	7'-6"		
64	32'-9"	33'-0"	3'-0"	7'-6"		
69	25'-3"	24'-6"	3'-2"	7'-10"		
74	26'-0"	26'-3"	3'-2"	7'-10"	S7 = #6	S6D = #5
79	27'-6	28'-0	3'-3"	8'-0"	TL = 3'-0" B = 1'-8" J = 6" A = 6" G = 6"	TL = 4'-2" B = 2'-6 C = 8" D = 1'-0"
84	29'-3"	29'-6"	3'-3	8'-0"		
89	31'-0"	31'-3"	3'-3"	8'-0"		
94	32'-6	33'-0"	3'-4	8'-2"		
99	34'-3"	34'-6"	3'-4"	8'-2"		

Revisions & Corrections
Changed To 12" Curb 9/7/60

Drawn By: A.B.M. 6-17-60
Traced By: A.B.M. 6-17-60
Checked By: R.T.B. & R.S.H. July 1960
Correct: 13 July 1960
Bridge Engineer
Approved: 13 July 1960
Chief Engineer

TYPICAL SECTION, PLAN VIEW, & QUANTITIES
42 FOOT ROADWAY WF BEAM BRIDGES

34-44 NON COMPOSITE, 49-99 COMPOSITE

FOR ADDITIONAL DETAILS SEE STANDARD SCB-D-60

DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES

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SCB-42-60

269A