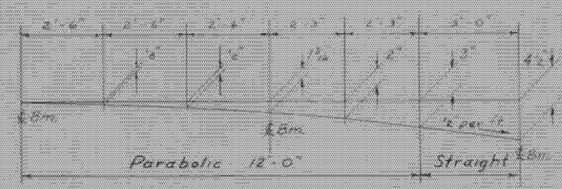
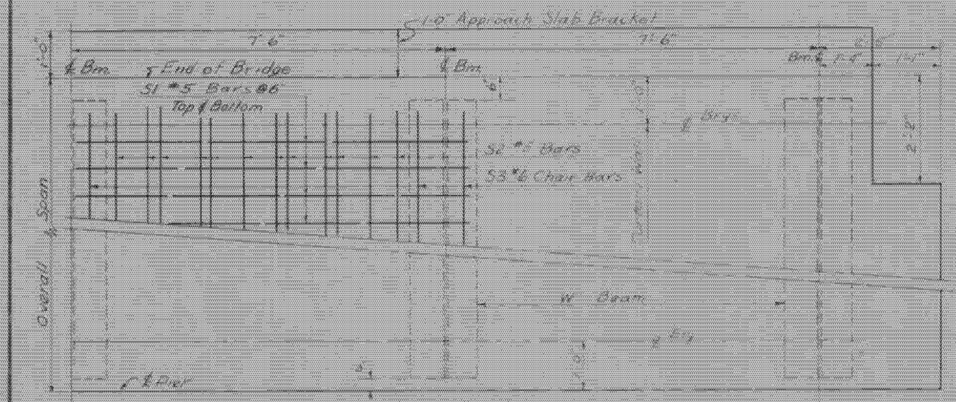
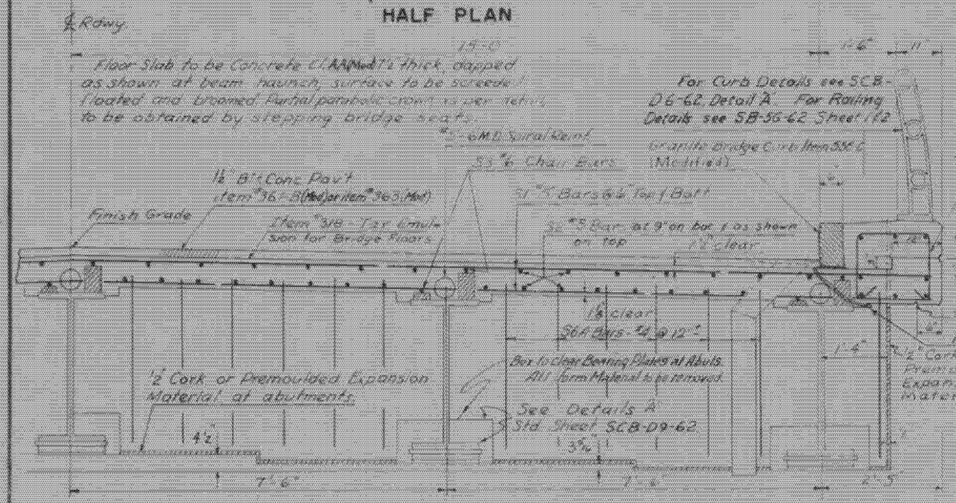


*Excluding Scuppers & Bearing Devices

DETAIL OF PARTIAL PARABOLIC CROWN OF SLAB



HALF PLAN



TYPICAL HALF SECTION

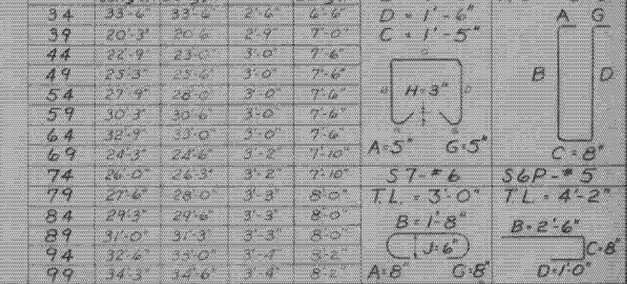
TABLE OF QUANTITIES FOR SINGLE (SQUARE) SPAN

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 ℄ Brngs.	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 Bms.	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 Beam	36WF280	36WF245	36WF230	36WF230	36WF194	36WF170	36WF150	36WF135	36WF135	36WF135	36WF135	36WF135	33WF118	30WF108
Lgth & Size Cover Pl (Bott. only)	42'-1½" - 14"x½"	43'-7½" - 14"x½"	39'-5½" - 14"x½"	45'-2½" - 14"x½"	45'-2½" - 18"x½"	47'-1½" - 18"x½"	45'-2½" - 18"x½"	42'-8½" - 18"x½"	37'-7½" - 18"x½"	27'-1½" - 8"x½"	—	—	—	—
Dead Load Deflection	3½"	3⅛"	2⅝"	2¼"	1⅞"	1⅝"	1⅜"	1⅛"	⅞"	⅝"	½"	⅜"	¼"	¼"
Dia. of Spiral Bars	—	—					⅝"				←	Non Composite		
Mean Dia. of Spiral	→						6"				←	"	"	
Spiral Pitch 0'-10' from Brng.	Double @ 5½	Double @ 5½	Double @ 5½	Double @ 5½	Double @ 5	Double @ 5	Double @ 5	Double @ 5	Double @ 5	Double @ 5½	Double @ 5½	"	"	
" " 10'-20' or ℄ Span	Double @ 6½	Double @ 6	Double @ 6½	Double @ 7	Double @ 7	Double @ 7½	Double @ 7	Double @ 7	Double @ 7	Double @ 7	Double @ 7½	"	"	
" " 20'-30' or ℄ Span	4"	4"	4½	4½"	4½	4½"	4½"	5	5½"	6"	6"	"	"	
" " 30'-40' or ℄ Span	5"	5"	5"	6"	6"	6"	6"	5"	—	—	—	"	"	
" " 40' ℄ Span	6½"	6½"	6"	6"	—	—	—	—	—	—	—	"	"	
*Tot. Struct. Steel (1 span) (lbs.)	169,590	145,670	126,840	112,050	92,150	76,670	62,740	52,610	45,490	41,150	35,830	32,390	24,240	19,280
Reinforcing Bars - S1	378	378	342	336	318	296	278	238	234	216	196	174	158	136
" " - S2	225	225	225	225	225	225	225	150	150	150	150	150	150	75
" " - S3	30	30	30	30	30	30	30	20	20	20	20	20	20	10
" " - S4	132	116	120	112	106	100	92	86	80	72	66	60	52	46
" " - S5	16	16	16	16	16	16	16	16	16	16	16	16	16	16
" " - S6A	52	52	52	52	52	52	52	52	52	52	52	52	52	52
" " - S7	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Tot. Weight - Reinf. Bars (lbs.)	25,300	24,100	22,900	21,700	20,400	19,300	18,000	16,600	15,400	14,200	13,000	11,800	10,600	9,200
Approx. Wt. Spiral Reinf. (lbs.)	2,580	2,550	2,380	2,190	2,160	2,040	1,990	1,860	1,700	1,560	1,440	Non Composite		
Tot. Cu. Yds. Conc. Class AA* (Cu. yds.)	116	111	106	101	96	90	85	79	73	68	63	58	51	45
Tot. Wt. Bitum. Conc. Pav't (Mod.) (Tons)	32	30	29	27	26	24	22	21	19	18	16	15	13	12
Tot. Emulsion for Bridge Floors (Gals.)	132	125	119	112	105	99	92	85	79	72	65	59	52	45
Approx. Quantity ¾"x7" Studs	3,180	3,120	2,940	2,680	2,640	2,500	2,440	2,280	2,120	1,900	1,760	Non Composite		
Approx. Quantity ½"x7" Studs	2,112	2,080	1,960	1,790	1,760	1,670	1,630	1,520	1,410	1,270	1,170	Non Composite		

REINFORCING STEEL SCHEDULE

S1-#5 34'-4" Straight | S5-#5 32'-2" Straight

Span	S2-#5 Str. Length	S3-#6 Str. Length	S6A-#4 B & D	S6A-#4 Total Length	S4-#4 T.L. = 5'-3" B = 1'-6" D = 1'-6" C = 1'-5"	S6A-#4 T.L. Varies A=5" G=5"
34	33'-6"	33'-6"	2'-6"	6'-6"		
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	24'-3"	24'-6"	3'-2"	7'-10"		
74	26'-0"	26'-3"	3'-2"	7'-10"		
79	27'-6"	28'-0"	3'-3"	8'-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

Drawn By: R.S.H. June 1960
Traced By: R.S.H. June 1960
Checked By: R.T.B. & R.S.H. July 1960

Recommended For Approval: Bridge Engineer — Date
Recommended For Approval: Asst. Chief Engineer — Date
Approved By: Chief Engineer — 1/14/63 Date

TYPICAL SECTION, PLAN VIEW, & QUANTITIES
30 FOOT ROADWAY WF BEAM BRIDGES
DESIGN LOADING - H-20-S16-44 (A.S.T.M. - A36-62T STEEL)
34-44 NON COMPOSITE, 49-99 COMPOSITE
FOR ADDITIONAL DETAILS SEE STANDARD SCB-D-62

DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES

SCB-30-62

WESTMINSTER-NORWICH
IM BPNT (8)
SHEET 37 OF 58
FOR REFERENCE ONLY