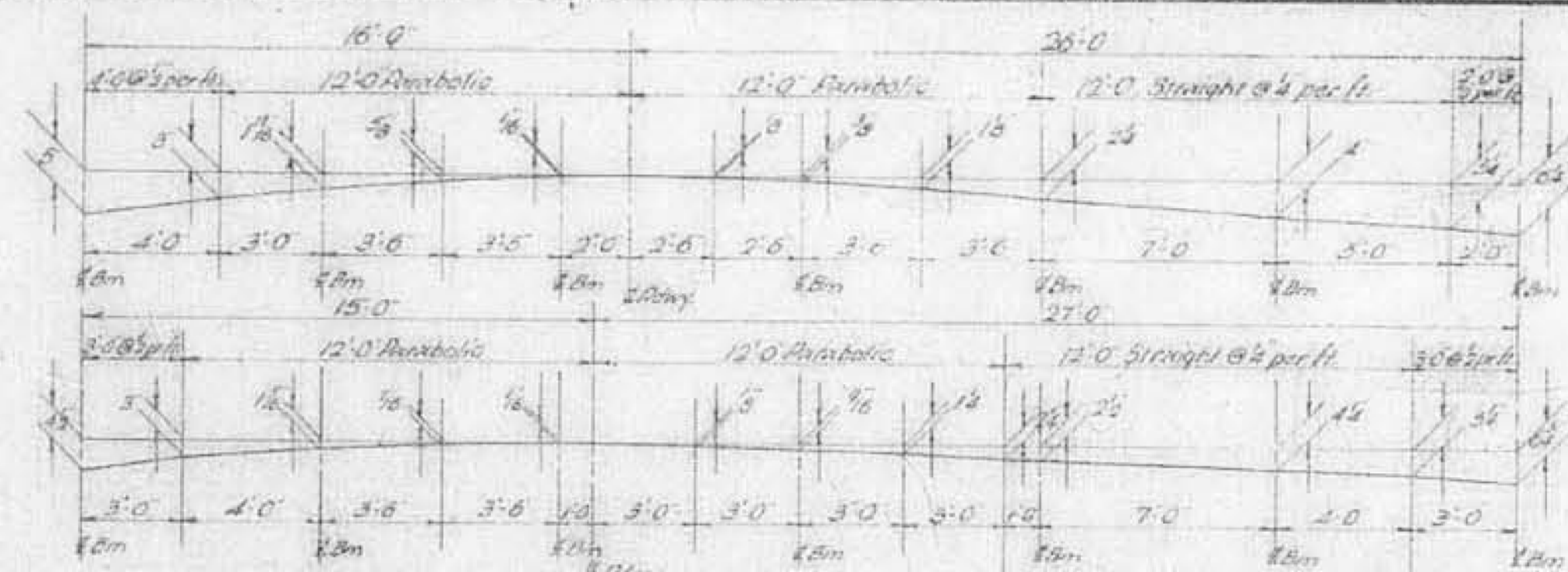
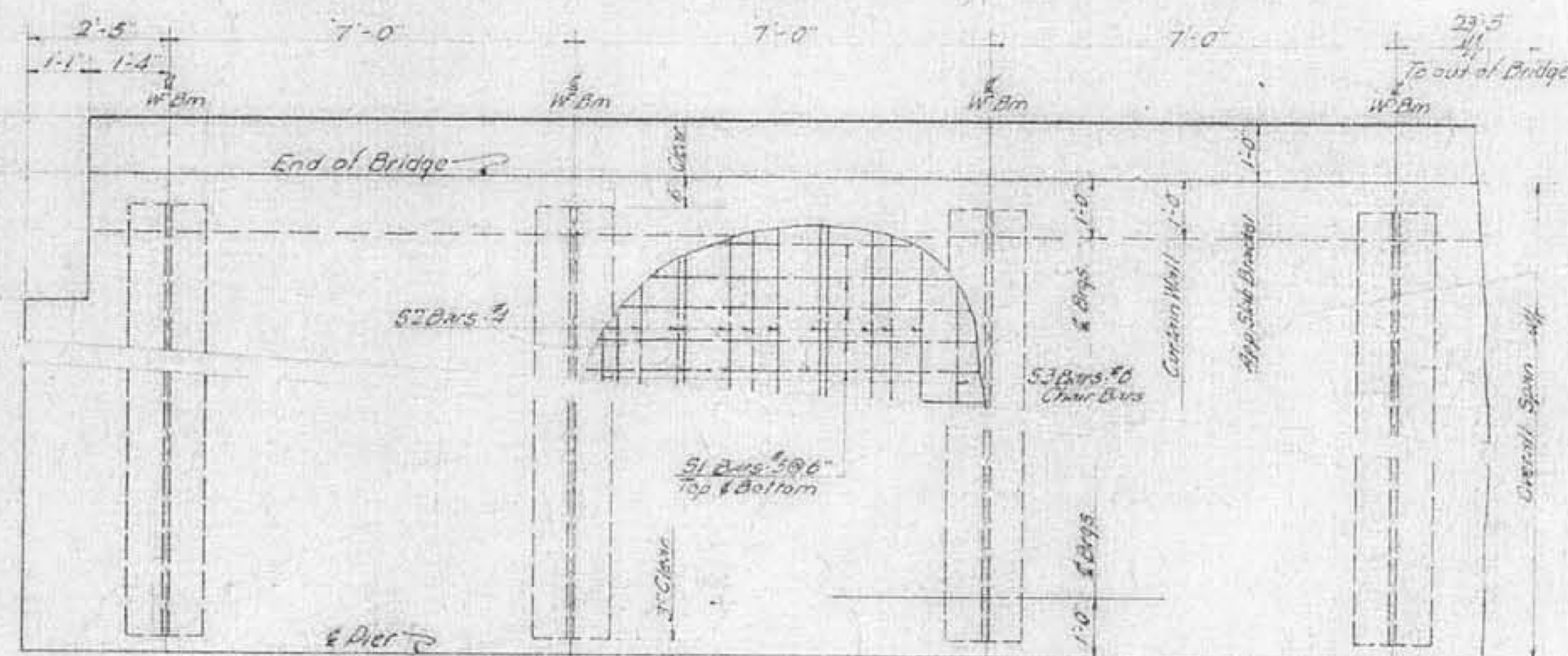
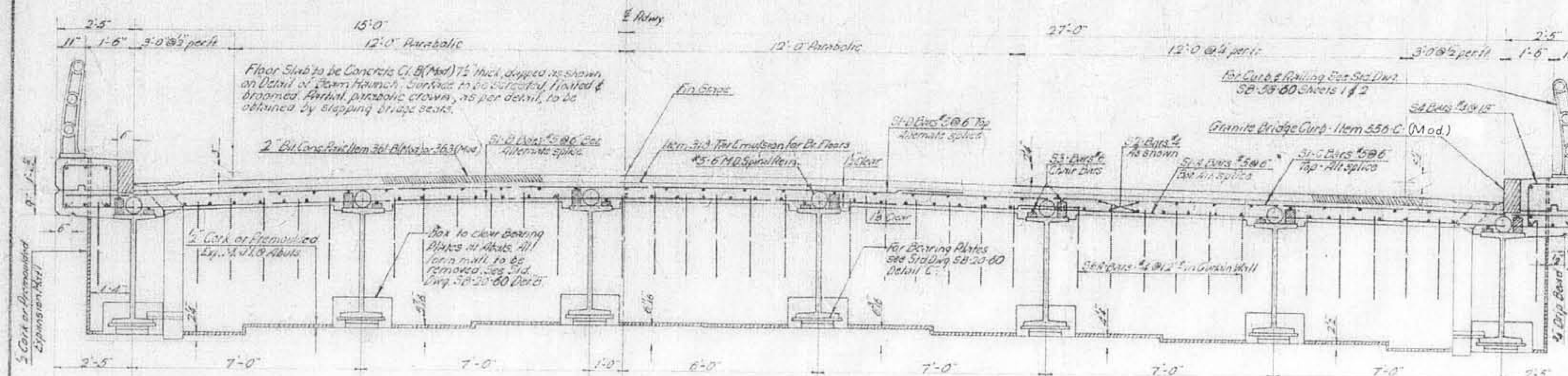




DETAIL OF PARTIAL PARABOLIC CROWN OF SLAB



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 - E to E 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 of Beams	36W300	36W300	36W300	36W245	36W194	36W170	36W160	36W150	36W150	36W150	36W150	36W150	36W150	36W116
Length of Size Top Cover	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"
Length of Size Top Cover	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"
Dead Load Deflection	5"	2 1/2"	2 1/2"	2 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Diameter of Spiral Bars	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Mean Diameter of Spiral	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Spiral Pitch 0'-10" from Brng	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"	Double @ 5"
10'-20" or E Span	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"	Double @ 6"
20'-30"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
30'-40"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"
40'-E Span	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"	7"
Length of 2" Studs (Alt to Spirals)	65'	65'	65'	65'	65'	65'	65'	65'	65'	65'	65'	65'	65'	65'
Total Struct Steel (1 Span) (lbs)	289,740	237,590	218,700	172,320	138,420	115,910	97,140	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	264	264	264	264	264	264	264
S3	42	42	42	42	42	42	42	42	42	42	42	42	42	42
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	3,180	3,310	3,250	3,070	2,920	2,740	2,600	2,360	2,170	Non Composite		
Total Concrete Class B (Cords)	151	144	137	131	124	117	110	103	95	89	82	75	67	59
Total Weight Curved Conc. Pile (Tons)	59	56	53	50	47	44	41	38	35	32	29	26	23	20
Tar Emulsion for Bridge Deck (Gals)	185	176	166	157	148	138	129	120	110	101	92	82	73	64
Approx Quantity 1/2" 16's Studs	4,150	4,050	3,630	3,000	3,130	3,500	3,300	3,100	3,000	2,700	2,500	Non Composite		

REINFORCING STEEL SCHEDULE

S1-A #5	17'-3"	Straight	S1-B #5	31'-3"	Straight
S1-C #5	20'-9"	Straight	S1-D #5	27'-9"	Straight
S5 #5	23'-3"	Straight			
S2 #4	33'-6"	33'-6"	S6A #4	34'-6"	34'-6"
S3 #6	20'-6"	20'-6"	S4 #4	27'-9"	27'-9"
S6A #4	20'-6"	20'-6"	S4 #4	27'-9"	27'-9"
S4 #4	27'-9"	27'-9"	S4 #4	27'-9"	27'-9"
S5 #5	25'-3"	25'-3"	S4 #4	27'-9"	27'-9"
S6A #4	27'-9"	27'-9"	S4 #4	27'-9"	27'-9"
S4 #4	30'-3"	30'-3"	S4 #4	27'-9"	27'-9"
S5 #5	24'-3"	24'-3"	S4 #4	27'-9"	27'-9"
S6A #4	26'-0"	26'-0"	S4 #4	27'-9"	27'-9"
S4 #4	27'-6"	27'-6"	S4 #4	27'-9"	27'-9"
S5 #5	29'-3"	29'-3"	S4 #4	27'-9"	27'-9"
S6A #4	31'-0"	31'-0"	S4 #4	27'-9"	27'-9"
S4 #4	32'-6"	32'-6"	S4 #4	27'-9"	27'-9"
S5 #5	34'-3"	34'-3"	S4 #4	27'-9"	27'-9"

DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES

SCB-42-60

RICHMOND
IM BPNT (3)
SHEET 15 OF 18
ALL BRIDGES
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