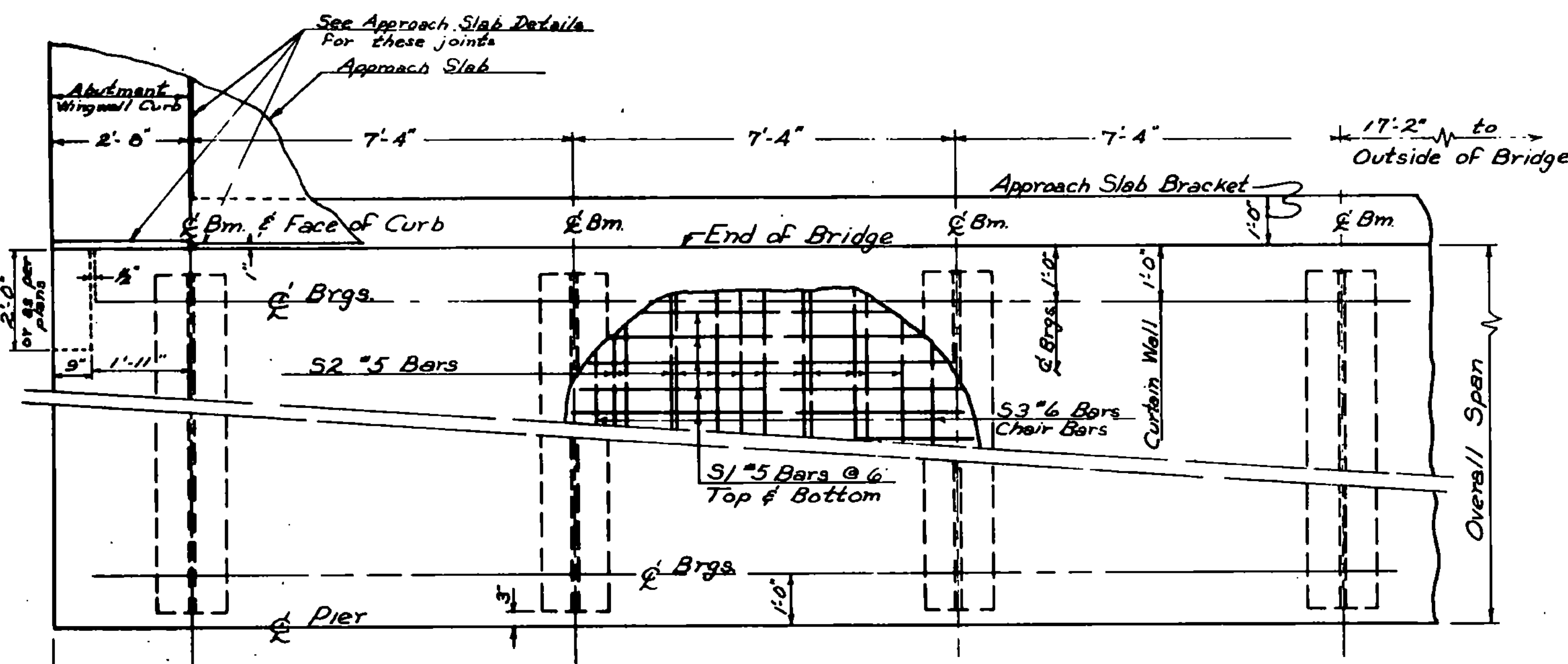
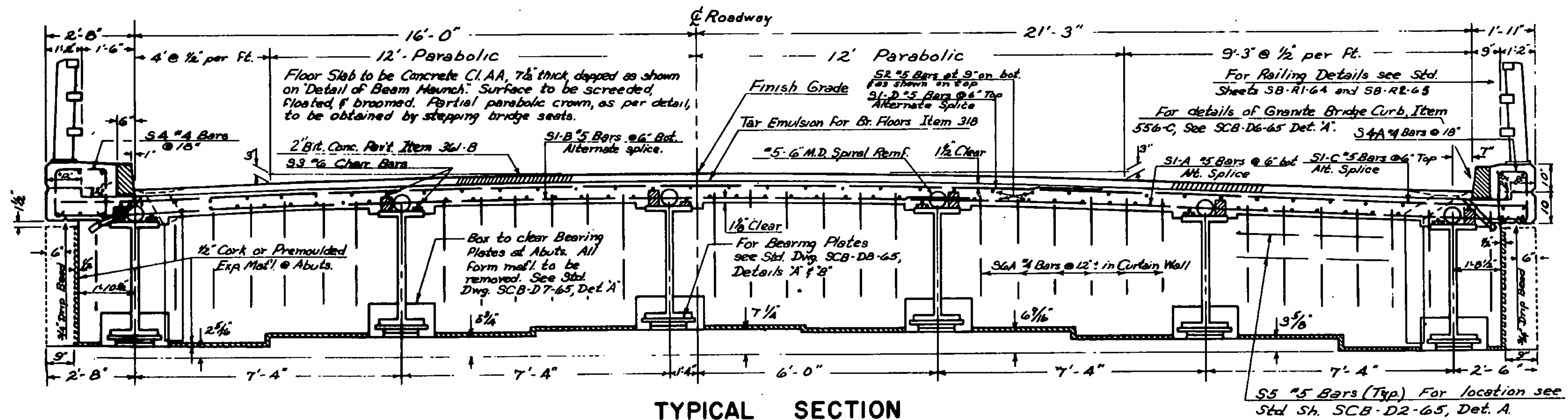


DETAIL OF PARTIAL PARABOLIC CROWN OF SLAB



PARTIAL PLAN



TYPICAL SECTION

TABLE OF QUANTITIES FOR SINGLE (SQUARE) SPAN (INCLUDES TWO CURTAIN WALLS)														
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	99'-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 W Beams	36WF280	36WF245	36WF230	36WF230	36WF194	36WF170	36WF150	36WF135	36WF135	36WF135	36WF135	36WF135	33WF118	30WF108
Lgth of Size Cover (Bot. only)	66'-1 1/2"	65'-7 1/2"	59'-5 1/2"	49'-5 1/2"	49'-10 1/2"	47'-1 1/2"	45'-9 1/2"	42'-5 1/2"	31'-11 1/2"	27'-1 1/2"				
Dead Load Deflection	3 1/2"	3 1/2"	2 7/8"	2 1/4"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	7/8"	5/8"	1/2"	3/8"	1/4"	1/4"
Diameter of Spiral Bars														Non Composite
Mean Diameter of Spiral														
Spiral Pitch 0'-10" From Brng	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Double @ 5 1/2"	Non Composite
" " 10'-20" or E Span	Double @ 6 1/2"	Double @ 6 1/2"	Double @ 6 1/2"	Double @ 7"	Double @ 7"	Double @ 7 1/2"	Double @ 7 1/2"	Double @ 7 1/2"	Double @ 7 1/2"	Double @ 7 1/2"	Double @ 7 1/2"	Double @ 7 1/2"	Double @ 7 1/2"	
" " 20'-30" "	4"	4"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	5"	5 1/2"	6"	6"	6"	6"	
" " 30'-40" "	5"	5"	5"	5"	6"	6"	6"	6"	6"					
" " 40'-E Span	6 1/2"	6 1/2"	6"	6"										
*Total Struct. Steel (1 span) (lbs)	203,790	175,080	152,480	134,670	110,790	92,210	75,430	63,270	54,730	49,520	43,140	39,010	29,160	23,200
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	261	261	261	261	261	261	261	174	174	174	174	174	174	87
" " S3	36	36	36	36	36	36	36	24	24	24	24	24	24	12
" " S4	67	64	60	57	54	50	47	44	40	37	34	30	27	24
" " S4-A	67	64	60	57	54	50	47	44	40	37	34	30	27	24
" " S5	32	32	32	32	32	32	32	32	32	32	32	32	32	32
" " S6-A	64	64	64	64	64	64	64	64	64	64	64	64	64	64
" " S7	54	54	54	54	54	54	54	54	54	54	54	54	54	54
Total Weight Reinf. Bars (lbs)	30,900	29,410	27,970	26,470	24,990	23,540	22,040	20,310	18,830	17,360	15,890	14,410	12,920	11,200
Approx. Weight Spiral Reinf. (lbs)	3,150	3,050	2,850	2,620	2,590	2,430	2,390	2,230	2,040	1,860	1,730	Non Composite	Non Composite	
Total Concrete Class 'AA' (Cu. yds)	130	124	118	112	106	100	94	88	82	76	70	64	58	51
Total Weight Bit. Conc. Part. (Tons)	51	48	45	43	40	37	36	33	31	28	25	23	20	17
Tar Emulsion for Bridge Floors (Gals)	164	156	148	139	131	123	114	106	98	90	81	73	65	57
Approx. Quantity 3/4" x 7" Studs	3,820	3,740	3,520	3,220	3,170	3,000	2,930	2,740	2,540	2,280	2,110	Non Composite	Non Composite	
Approx. Quantity 1/2" x 7" Studs	2,540	2,500	2,350	2,140	2,110	2,000	1,950	1,820	1,700	1,520	1,410	Non Composite	Non Composite	
Item 440-Water Repellent (Gals.)	2 1/2	2 1/2	2 1/2	2 1/2	2	2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1
Camber	4 3/8"	4 3/8"	3 7/8"	3 7/8"	3 3/8"	2 7/8"	2 7/8"	2"	1 7/8"	1 7/8"	1 1/2"	1 1/2"	1"	3/4"

* Excluding Scuppers and Bearing Devices.

REINFORCING STEEL SCHEDULE

S1-A #5 17'-6" Straight		S1-B #5 26'-0" Straight	
S1-C #5 13'-10" Straight		S1-D #5 29'-8" Straight	
S5 #5 21'-0" Straight			
Span	Str.	Str.	S6A-#4
	Length	Length	B&D Total Length
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
 1) Changed Bit. Conc. thickness from 1 1/2" to 2" revised 11-21-66
 2) Changed SB-R3-64 to SB-R2-65 11-21-66
 3) Revised Item #10 11-21-66

Drawn By: W.B.T. Aug. 1964. Revised Jan. '65
 Traced By: W.B.T. Aug. 1964. Revised Jan. '65
 Checked By: T.K.-W.M.S. Oct. 1964. Rev. Jan. '65
 Recommended For Approval: [Signature] 2/4/65
 Recommended For Approval: [Signature] 2/4/65
 Approved By: [Signature] 2/4/65
 Chief Engineer

TYPICAL SECTION, PLAN VIEW, & QUANTITIES
 37.25 FOOT ROADWAY W/ BEAM BRIDGES
 DESIGN LOADING - HS20-44 (A.S.T.M.-A36-62T STEEL)
 34-44 NON COMPOSITE, 49-99 COMPOSITE
 FOR ADDITIONAL DETAILS SEE STANDARDS SCB-DK THRU DP-68

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 STANDARD STRUCTURES
SCB-37.25-65
 IR-DECK (15) I-89, BR. 15 N&S
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