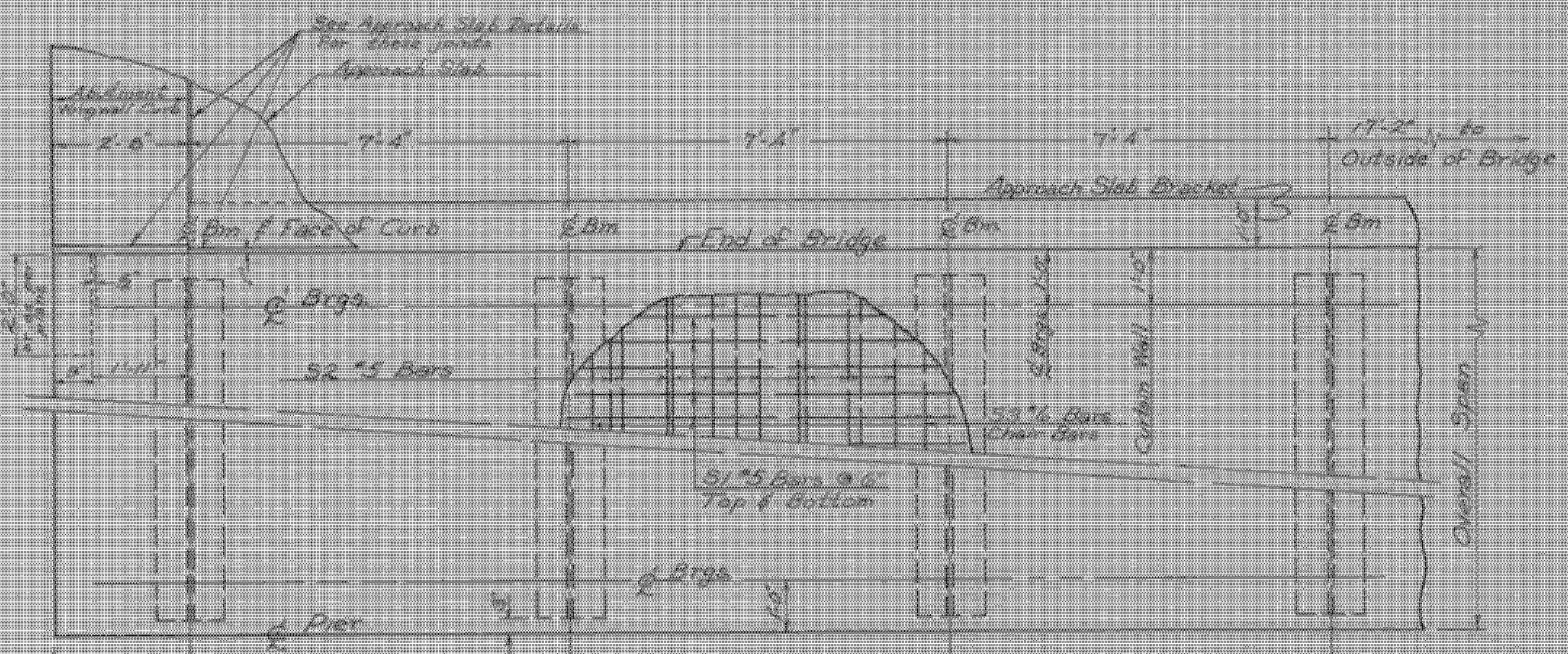
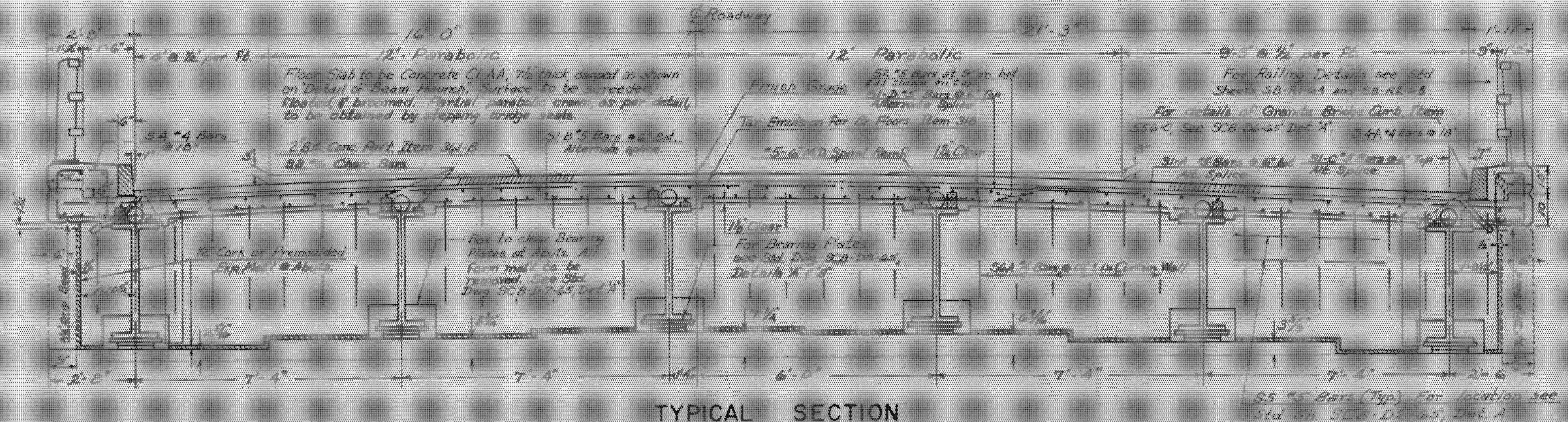


DETAIL OF PARTIAL PARABOLIC CROWN OF SLAB



PARTIAL PLAN



TYPICAL SECTION

TABLE OF QUANTITIES FOR SINGLE (SQUARE) SPAN (INCLUDES TWO CURTAIN WALLS)

Span - Out to Out	34'-0"	37'-0"	40'-0"	43'-0"	46'-0"	49'-0"	52'-0"	55'-0"	58'-0"	61'-0"	64'-0"	67'-0"	70'-0"	73'-0"	76'-0"	79'-0"	82'-0"	85'-0"	88'-0"	91'-0"	94'-0"	97'-0"	100'-0"
Span - E to E Bearings	34'-0"	37'-0"	40'-0"	43'-0"	46'-0"	49'-0"	52'-0"	55'-0"	58'-0"	61'-0"	64'-0"	67'-0"	70'-0"	73'-0"	76'-0"	79'-0"	82'-0"	85'-0"	88'-0"	91'-0"	94'-0"	97'-0"	100'-0"
Length of Beams	34'-0"	37'-0"	40'-0"	43'-0"	46'-0"	49'-0"	52'-0"	55'-0"	58'-0"	61'-0"	64'-0"	67'-0"	70'-0"	73'-0"	76'-0"	79'-0"	82'-0"	85'-0"	88'-0"	91'-0"	94'-0"	97'-0"	100'-0"
Size W Beams	36W280	36W243	36W230	36W230	36W194	36W170	36W150	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135	36W135
Lgth of Sae Cover @ (bot only)	44'-1 1/2"	45'-7 1/2"	46'-5 1/2"	47'-5 1/2"	48'-10 1/2"	49'-1 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"	49'-5 1/2"
Dead Load Deflection	3/8"	3/8"	2 3/8"	2 3/4"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"	1 7/8"
Diameter of Spiral Bars																							
Mean Diameter of Spiral																							
Spiral Pitch @ 10' from Strg	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	Double #5	Double #5	Double #5	Double #5	Double #5	Double #5	Double #5	Double #5	Double #5
" " 10'-20' or E Span	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	Double #5	Double #5	Double #5	Double #5	Double #5	Double #5	Double #5	Double #5	Double #5
" " 20'-30' "	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
" " 30'-40' "	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"	5"
" " 40' E Span	6 1/2"	6 1/2"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
* Total Struct Steel (1 Span) (lbs)	203,790	175,080	152,480	134,470	110,790	92,210	75,430	63,270	54,790	49,520	43,140	39,010	33,160	29,160	23,200	19,200	15,200	11,200	7,200	3,200	Non Composite	Non Composite	Non Composite
Reinforcing Bars S1-A	198	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	0	0	0
" S1-B	198	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	0	0	0
" S1-C	198	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	0	0	0
" S1-D	198	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	0	0	0	0
" S2	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261
" S3	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
" S4	67	64	60	57	54	50	47	44	40	37	34	30	27	24	20	17	14	10	7	4	1	0	0
" S4-A	67	64	60	57	54	50	47	44	40	37	34	30	27	24	20	17	14	10	7	4	1	0	0
" S5	32	32	32	32	32	32	32	32	32	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	64	64	64	64	64	64	64	64	64
" S7	54	54	54	54	54	54	54	54	54	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	9,200	7,200	5,200	3,200	1,200	0	0	0	0
Approx Weight Spiral Reinf (lbs)	3,150	3,050	2,850	2,620	2,390	2,130	1,890	1,630	1,400	1,200	1,000	800	600	400	200	0	0	0	0	0	0	0	0
Total Concrete Class AA (cu yds)	130	124	118	112	106	100	94	88	82	76	70	64	58	52	46	40	34	28	22	16	10	4	0
Total Weight Bit Conc Part. (Tons)	91	88	85	83	80	77	74	71	68	65	62	59	56	53	50	47	44	41	38	35	32	29	26
Tar Emulsion for Bridge Deck (Gals)	164	156	148	139	131	123	114	106	98	90	81	73	65	57	49	40	32	24	16	8	0	0	0
Approx Quantity 7/8" x 7" Studs	3,920	3,740	3,560	3,220	2,970	2,700	2,430	2,140	1,840	1,540	1,240	940	640	340	0	0	0	0	0	0	0	0	0
Approx Quantity 7/8" x 7" Studs	2,540	2,500	2,350	2,140	1,910	1,680	1,450	1,220	990	760	530	300	70	0	0	0	0	0	0	0	0	0	0
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 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
Comber	4 3/8	4 1/2	3 3/8	3 1/2	3 1/2	2 3/4	2 3/4	2	1 3/8	1 3/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8

* Excluding Scupper and Bearing Devices.

REINFORCING STEEL SCHEDULE

Span	Str.	Length	Str.	Length	S6A #4	Total Length	S4 #4	S4A #4	S6A #4
34	S1-A #5	17'-6"	S1-B #5	26'-0"	2'-6"	6'-6"	4'-8"	4'-8"	4'-8"
39	S1-C #5	13'-10"	S1-D #5	29'-8"	2'-9"	7'-0"	4'-8"	4'-8"	4'-8"
44	S5 #5	21'-0"	S1-D #5	29'-8"	2'-9"	7'-0"	4'-8"	4'-8"	4'-8"
49	S2 #5	33'-6"	S3 #5	33'-6"	3'-0"	7'-6"	4'-8"	4'-8"	4'-8"
54	S2 #5	20'-3"	S3 #5	20'-6"	3'-0"	7'-6"	4'-8"	4'-8"	4'-8"
59	S2 #5	22'-9"	S3 #5	23'-0"	3'-0"	7'-6"	4'-8"	4'-8"	4'-8"
64	S2 #5	25'-3"	S3 #5	25'-6"	3'-0"	7'-6"	4'-8"	4'-8"	4'-8"
69	S2 #5	27'-9"	S3 #5	28'-0"	3'-0"	7'-6"	4'-8"	4'-8"	4'-8"
74	S2 #5	30'-3"	S3 #5	30'-6"	3'-0"	7'-6"	4'-8"	4'-8"	4'-8"
79	S2 #5	32'-9"	S3 #5	33'-0"	3'-0"	7'-6"	4'-8"	4'-8"	4'-8"
84	S2 #5	24'-3"	S3 #5	24'-6"	3'-2"	7'-10"	4'-8"	4'-8"	4'-8"
89	S2 #5	26'-0"	S3 #5	26'-3"	3'-2"	7'-10"	4'-8"	4'-8"	4'-8"
94	S2 #5	27'-6"	S3 #5	27'-9"	3'-2"	7'-10"	4'-8"	4'-8"	4'-8"
99	S2 #5	29'-3"	S3 #5	29'-6"	3'-2"	7'-10"	4'-8"	4'-8"	4'-8"

Revisions & Corrections
 1. Original B.I.L. Cont. thickness from 12" to 2" revised 8-21-65
 2. Changed S1-A #5 to S1-B #5 8-21-65
 3. Revised Item #10 8-21-65

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] Date 11/65
 Recommended For Approval: [Signature] Date 11/65
 Approved By: [Signature] Chief Engineer Date 11/65

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-DI THRU D9-65

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 STANDARD STRUCTURES
SCB-37.25-65
 WESTMINSTER-NORWICH
 IM BPNT (8)
 SHEET 36 OF 58
 FOR REFERENCE ONLY