



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, $\frac{1}{2}$ to $\frac{1}{2}$ 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 W Beam	36WF280	36WF245	36WF230	36WF230	36WF194	36WF170	36WF150	36WF135	36WF135	36WF135	36WF135	36WF135	36WF118	30WF108
Lgth. & Size Cover (Bolt. only)	6'-1 1/2"	6'-7 1/2"	5'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"	4'-3 1/2"
Camber	4 1/8"	4 1/4"	3 3/8"	3 1/2"	3 1/8"	2 3/4"	2 3/8"	2 1/4"	2 1/8"	1 3/4"	1 3/8"	1 1/4"	1 1/8"	3/4"
Dead Load Deflection	3 1/2"	3 1/8"	2 3/8"	2 1/4"	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"
Dia. of Spiral Bars							5"							Non Composite
Mean Dia. of Spiral							6"							
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 $\frac{1}{2}$ 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' or $\frac{1}{2}$ Span	4"	4"	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' or $\frac{1}{2}$ Span	5"	5"	5"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
" " 40'- $\frac{1}{2}$ Span	6 1/2"	6 1/2"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
Tot. Struct. Steel (1span) (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	28,240	19,280
Reinforcing Bars - S1	396	376	356	336	316	296	276	256	236	216	196	176	156	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	134	128	120	114	108	100	94	88	80	74	68	60	54	48
" " - 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.)	25,490	24,260	23,070	21,830	20,610	19,420	18,180	16,740	15,520	14,310	13,090	11,870	10,640	9,420
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	Non Composite	Non Composite
Tot. Cu Yds. Conc. Class AA (approx)	114	109	104	99	93	88	82	77	72	67	61	56	51	46
Tot. Wt. Bitum. Conc. Pav't (Tons)	41	39	37	35	32	31	28	27	24	23	20	19	16	15
Tar Emulsion for Bridge Floors (Gals.)	132	125	119	112	105	99	92	85	79	72	65	59	52	46
Approx. Quantity #4 x 7" Studs	3180	3120	2940	2,680	2,640	2,500	2,440	2,280	2,120	1,900	1,760	Non Composite	Non Composite	Non Composite
Approx. Quantity #6 x 7" Studs	2,110	2,080	1,960	1,790	1,760	1,670	1,630	1,520	1,410	1,270	1,170	Non Composite	Non Composite	Non Composite
1 Cem 440-Water Repellent (Gals.)	2 1/4	2 1/4	2 2	2 1/2	2 1/4	2 1/4	2	2	1 3/4	1 1/2	1 1/2	1 1/4	1 1/4	1 1/4

REINFORCING STEEL SCHEDULE

Span	S1-#5 34'-10" Straight			S5-#5 33'-4" Straight		
	Str. Length	Str. Length	B & D	Total Length	T.L. = 5'-4"	T.L. Varies
34	33'-6"	33'-6"	2'-6"	6'-6"	B = 1'-5"	A-5" G-5"
39	20'-3"	20'-6"	2'-9"	7'-0"	D = 1'-5"	A G
44	22'-9"	23'-0"	3'-0"	7'-6"	C = 1'-8"	B D
49	25'-3"	25'-6"	3'-0"	7'-6"	H = 3"	B D
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"	A = 5" G = 5"	C = 6"
74	26'-0"	26'-3"	3'-2"	7'-10"	S7-#6	S6P-#5
79	27'-6"	28'-0"	3'-3"	8'-0"	T.L. = 3'-0"	T.L. = 4'-2"
84	29'-3"	29'-6"	3'-3"	8'-0"	B = 1'-8"	B = 2'-6"
89	31'-0"	31'-3"	3'-3"	8'-0"	J = 6"	
94	32'-6"	33'-0"	3'-4"	8'-2"		
99	34'-3"	34'-6"	3'-4"	8'-2"	A = 8" G = 8"	O = 7"

Revisions & Corrections
 1) Changed Bit. Conc. Thickness from 1 1/2 to 2 1/4 revised 1/21/66
 2) Changed S1-#5 Bars to S2-#5 Bars 1/21/66
 3) Changed S3-#6 Bars to S3-#5 Bars 2/21/66
 4) Revised Item # 40 2/21/66

Drawn By: R.S.H. June 1960, Rev. WBT, 1/65
 Traced By: R.S.H. June 1960, Rev. WBT, 1/65
 Checked By: R.T.B. & R.S.H. July 1960, Rev. WBT, 1/65
 Recommended For Approval: [Signature] 4/1/61
 Recommended For Approval: [Signature] 3/1/65
 Approved By: [Signature] 2/6/65

TYPICAL SECTION, PLAN VIEW, & QUANTITIES
30 FOOT ROADWAY W/ BEAM BRIDGES
 DESIGN LOADING - HS 20-44 (A.S.T.M. - A 36-82T STEEL)
34-44 NON-COMPOSITE, 49-99 COMPOSITE
 FOR ADDITIONAL DETAILS SEE STANDARD SPECIFICATIONS - 65

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES
SCB-30-65