SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

PROJ. NO. UPN IM 90-1 (161) 11
PROJ. TITLE Saltese - Deborgia Haugan Interchange

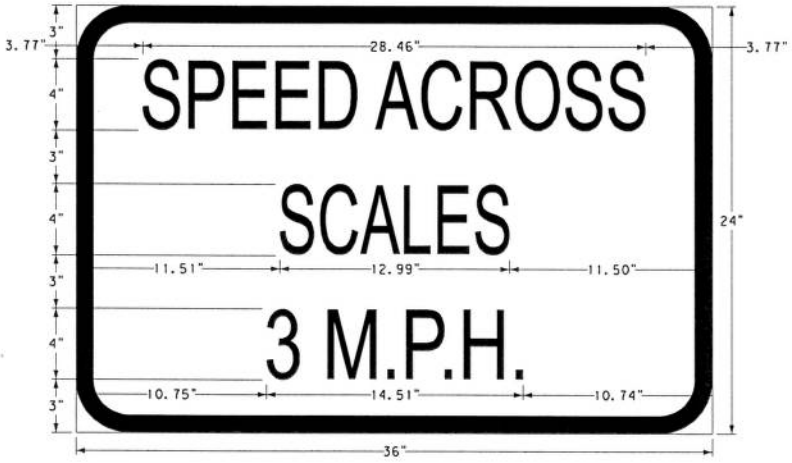


LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. R99-2
C	2.57	3" D	S	5.15	6" D	B	2.14	3" C	W	2.81	3" D	STA. 790+00 791+90
O	2.87		T	4.78		E	1.90		A	3.17		
M	3.02		O	5.63		F	1.90		I	1.03		PANEL MAT'L SHT ALUM
E	1.83		P	4.03		O	2.23		T	1.83		
	2.51					R	2.14			1.51		WIDTH 4'-0"
T	2.39	3" D				E	1.50		F	2.39	3" D	
O	2.11						1.50		O	2.81		HEIGHT 2'-0"
	2.51					D	2.14	3" C	R	2.01		
C	2.57	3" D				R	2.14			2.51		AREA 8sq'
O	2.81					I	0.82		S	2.72	3" D	
M	3.02					V	2.23		I	1.17		MARGIN
P	2.72					I	0.92		G	2.72		
L	2.39					N	2.14		N	2.57		BORDER 1"
E	2.20					G	1.64		A	3.07		
T	2.39						1.50		L	1.83		CORNER R 3"
E	1.83					O	2.23	3" C				
						N	1.64					LEGEND ☐ REFL. "I" ☐ REFL. "IV" COLOR BLACK
							1.50					
						S	2.04	3" C				
						C	1.91					
						A	2.27					BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
						L	1.90					
						E	1.90					
						S	1.64					
TOTAL TEMP.	39.74		TOTAL TEMP.	19.59		TOTAL TEMP.	43.87		TOTAL TEMP.	35.15		LETTER SERIES C & D
LEFT EDGE	4.13		LEFT EDGE	14.21		LEFT EDGE	2.07		LEFT EDGE	6.43		ARROW SIZE
RIGHT EDGE	4.13		RIGHT EDGE	14.21		RIGHT EDGE	2.07		RIGHT EDGE	6.43		DESIGNED: RDS DATE: 04-09
SIGN WIDTH	48.00		SIGN WIDTH	48.00		SIGN WIDTH	48.00		SIGN WIDTH	48.00		CHECKED: JHC DATE: 04-09

SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

PROJ. NO. IM 90-1 (161) 11
PROJ. TITLE SALTESE - DEBORGIA
CN#5831000



LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. R99-2b
S	2.44	4"	S	2.29	4"	3	1.69	4"				STA. 790+00 791+90Med
P	2.44		C	2.09			4.00					
E	2.10		A	2.72		M	2.44	4"				PANEL MAT'L SHT ALUM
E	2.10		L	2.10		.	1.00					
D	1.69		E	2.10		P	1.69					WIDTH 3'
	4.00		S	1.69		.	1.00					
A	2.72	4"				H	2.19					HEIGHT 2'
C	2.29					.	0.50					
R	2.29											AREA 6sq'
O	2.41											
S	2.29											MARGIN
S	1.69											
												BORDER 1"
												CORNER R 3"
												LEGEND ☐ REFL. "I" ☐ REFL. "IV" COLOR BLACK
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
TOTAL TEMP.	28.46		TOTAL TEMP.	12.99		TOTAL TEMP.	14.51		TOTAL TEMP.			LETTER SERIES "B"
LEFT EDGE	3.77		LEFT EDGE	11.51		LEFT EDGE	10.75		LEFT EDGE			ARROW SIZE
RIGHT EDGE	3.77		RIGHT EDGE	11.50		RIGHT EDGE	10.74		RIGHT EDGE			DESIGNED: RDS DATE: 04-09
SIGN WIDTH	36.00		SIGN WIDTH	36.00		SIGN WIDTH	36.00		SIGN WIDTH			CHECKED: JHC DATE: 04-09

SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

PROJ. NO. UPN IM 90-1 (161) 11
PROJ. TITLE Saltese - Deborgia Haugan Interchange

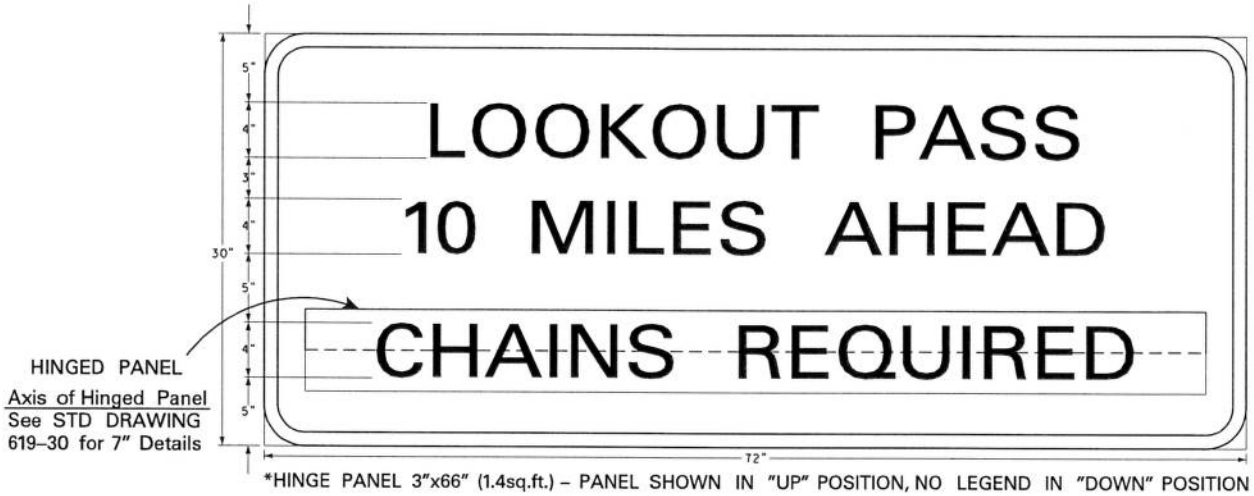


LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. R99-3
P	4.54	6"C	I	2.10	6"C	P	4.54	6"C	H	4.54	6"C	STA. 793+00
U	4.54		D	4.29		E	4.01		E	4.01		
R	4.29		A	4.76		R	4.54		R	4.54		PANEL MAT'L SHT ALUM
C	4.29		H	4.54		M	5.15		E	3.00		
H	4.29		O	3.47		I	1.85					WIDTH 3'-6"
A	4.76					T	4.01					
S	4.54					S	3.28					HEIGHT 3'-6"
E	3.00											AREA 12.3sq'
TOTAL TEMP.	34.25		TOTAL TEMP.	19.16		TOTAL TEMP.	27.38		TOTAL TEMP.	16.09		MARGIN
LEFT EDGE	3.87		LEFT EDGE	11.42		LEFT EDGE	7.31		LEFT EDGE	12.95		BORDER 5/8"
RIGHT EDGE	3.88		RIGHT EDGE	11.42		RIGHT EDGE	7.31		RIGHT EDGE	12.96		CORNER R 1 1/2"
SIGN WIDTH	42.00		SIGN WIDTH	42.00		SIGN WIDTH	42.00		SIGN WIDTH	42.00		LEGEND ☐ REFL. "I" ☐ REFL. "IV" COLOR BLACK
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
												LETTER SERIES "C"
												ARROW SIZE
												DESIGNED: RDS DATE: 05/10
												CHECKED: JTA DATE: 05/10

SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

PROJ. NO. UPN IM 90-1 (161) 11
PROJ. TITLE Saltese - Deborgia Haugan Interchange



*HINGE PANEL 3"x66" (1.4sq.ft.) – PANEL SHOWN IN "UP" POSITION, NO LEGEND IN "DOWN" POSITION

LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER		LEGEND	LETTER		LEGEND	LETTER		LEGEND	LETTER		SIGN NO.
	WIDTH	HEIGHT		WIDTH	HEIGHT		WIDTH	HEIGHT		WIDTH	HEIGHT	R99-4
L	3.76	4.00	I	2.22	4.00	C		4.00				STA.
O	4.13		O	3.31		H						788+60
O	4.34			4.00		A						PANEL MAT'L
K	4.07		M	4.72	4.00	I						ALUM INCR
O	4.34		I	1.82		N						WIDTH
U	4.01		L	3.76		S						6'-0"
T	2.94		E	3.76								HEIGHT
	4.00		S	3.19		R		4.00				2'-6"
P	4.01			4.00		E						AREA
A	4.82	4.00	A	4.82	4.00	Q						15sq'
S	4.01		H	4.22		U						MARGIN
S	3.19		E	3.49		I						
			A	4.82		R						BORDER
			D	3.19		E						1"
						D						CORNER R
												3"
												LEGEND ☐ REFL. "I" ☐ REFL. "IV" COLOR BLACK
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
TOTAL TEMP.	47.62		TOTAL TEMP.	51.32		TOTAL TEMP.	55.60		TOTAL TEMP.			LETTER SERIES Emod
LEFT EDGE	12.19		LEFT EDGE	10.34		LEFT EDGE	8.20		LEFT EDGE			ARROW SIZE
RIGHT EDGE	12.19		RIGHT EDGE	10.34		RIGHT EDGE	8.20		RIGHT EDGE			DESIGNED: RDS DATE: 05/10
SIGN WIDTH	72.00		SIGN WIDTH	72.00		SIGN WIDTH	72.00		SIGN WIDTH			CHECKED: JTA DATE: 05/10

SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

PROJ. NO. UPN IM 90-1 (161) 11
PROJ. TITLE Saltese - Deborgia Haugan Interchange



LINE 1			LINE 2			LINE 3			LINE 4			LINE 5			LINE 6			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. R13-3
W	2.75	3"C	F	2.67	4"C	P	5.15	6"D	B	2.72	3"D	P	2.58	3"D				STA. 788+60 792+50
H	2.27	|	L	2.22	|	A	6.14	|	R	2.72	|	A	3.07	|				
E	2.00	|	A	3.17	|	R	5.45	|	I	1.17	|	P	2.72	|				PANEL MAT'L SHT ALUM
N	1.64	|	S	3.03	|	K	4.13	|	N	2.72	|	E	2.39	|				
	1.88		H	3.03	|				G	2.02	|	R	2.58	|				WIDTH 2'-0"
L	2.00	3"C	I	1.40	|					2.51		S	2.02	|				
I	1.05	|	N	3.03	|				I	1.17	3"D							HEIGHT 2'-6"
G	2.27	|	G	2.19	|				N	2.02	|							AREA 5sq'
H	2.15	|																	
T	1.50	|																	MARGIN
																			BORDER 5/8"
																			CORNER R 1-1/2"
																			LEGEND ☐ REFL. "I" ☐ REFL. "IV" COLOR BLACK
																			BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
TOTAL TEMP.	19.51		TOTAL TEMP.	20.74		TOTAL TEMP.	20.87		TOTAL TEMP.	17.05		TOTAL TEMP.	15.36		TOTAL TEMP.			LETTER SERIES C & D
LEFT EDGE	2.25		LEFT EDGE	1.63		LEFT EDGE	1.57		LEFT EDGE	3.48		LEFT EDGE	4.32		LEFT EDGE			ARROW SIZE
RIGHT EDGE	2.25		RIGHT EDGE	1.63		RIGHT EDGE	1.57		RIGHT EDGE	3.48		RIGHT EDGE	4.32		RIGHT EDGE			DESIGNED: RDS DATE: 06/10
SIGN WIDTH	24.00		SIGN WIDTH	24.00		SIGN WIDTH	24.00		SIGN WIDTH	24.00		SIGN WIDTH	24.00		SIGN WIDTH			CHECKED: JTA DATE: 06/10