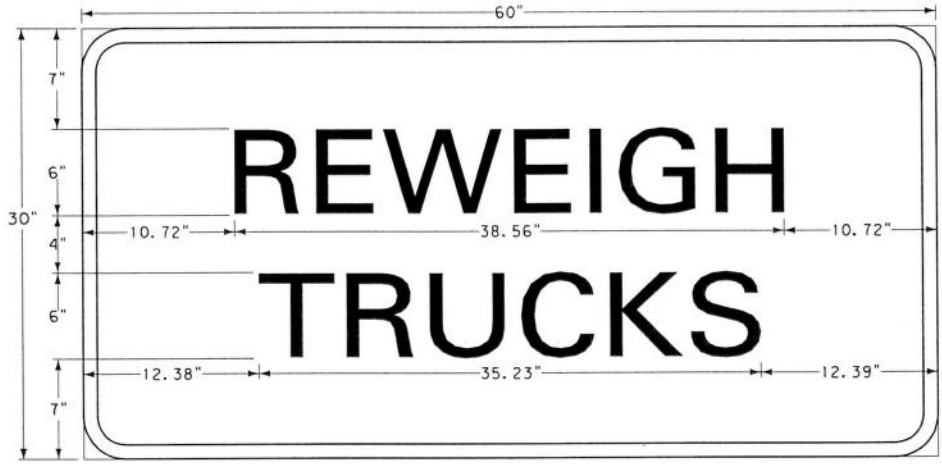
SIGN DESIGN CALCULATIONS

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. G13-6
R	6.33	6"	T	5.65	6"							STA. 788+30 792+60
E	5.23		R	6.33								PANEL MAT'L ALUM INCR
W	7.52		U	6.33								WIDTH 5'-0"
E	5.65		C	6.02								HEIGHT 2'-6"
I	2.72		K	6.12								AREA 12.5sq'
G	6.33		S	4.78								MARGIN
H	4.78											BORDER 1"
												CORNER R 3"
												LEGEND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
TOTAL TEMP.	38.56		TOTAL TEMP.	35.23		TOTAL TEMP.			TOTAL TEMP.			LETTER SERIES E mod
LEFT EDGE	10.72		LEFT EDGE	12.38		LEFT EDGE			LEFT EDGE			ARROW SIZE
RIGHT EDGE	10.72		RIGHT EDGE	12.39		RIGHT EDGE			RIGHT EDGE			DESIGNED: RDS DATE: 05/10
SIGN WIDTH	60.00		SIGN WIDTH	60.00		SIGN WIDTH			SIGN WIDTH			CHECKED: JTA DATE: 05/10

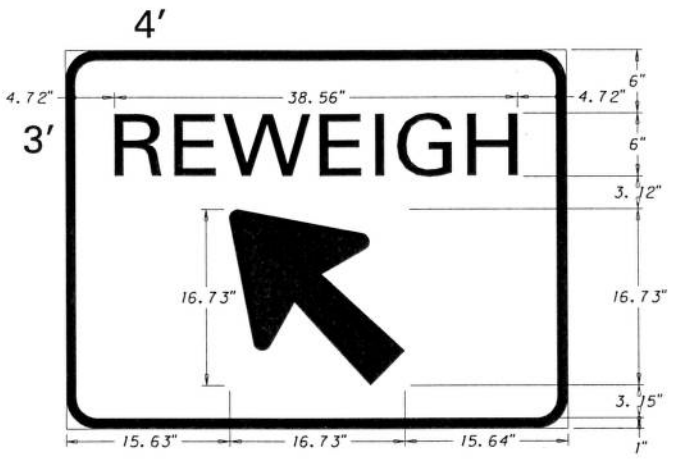
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SHEET 1
MONTANA CADD 6:50:12 AM 10/15/2010 u4044

5831000SIsdc001.dgn

SIGN DESIGN CALCULATIONS

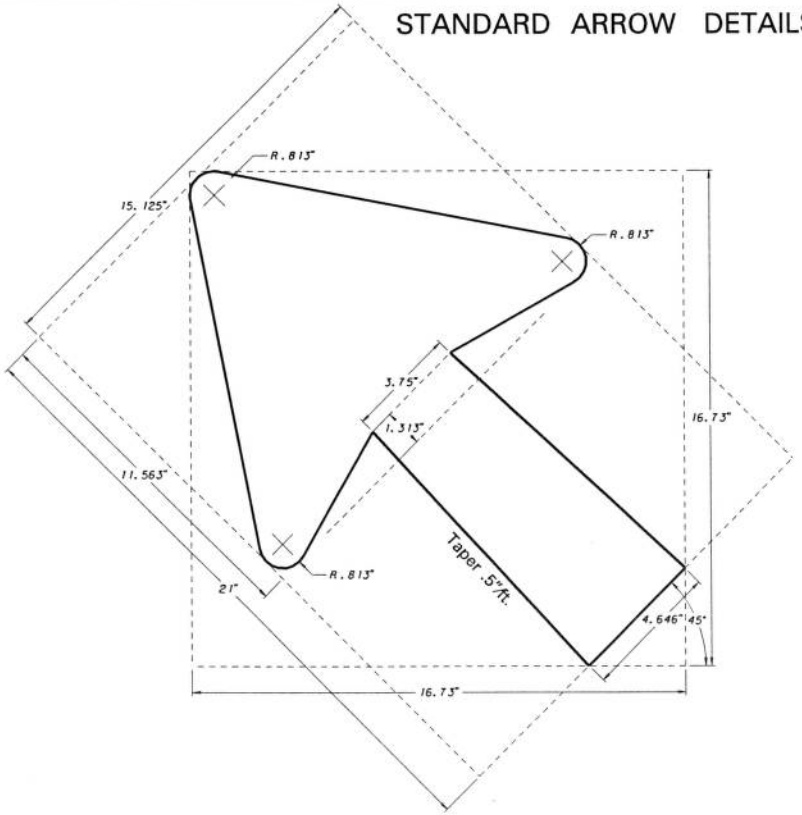
MONTANA DEPARTMENT OF TRANSPORTATION

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



LINE 1			LINE 2			LINE 3			LINE 4		
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT
R	6.33	6"	↖	16.73	16.73						
E	5.23										
W	7.52										
E	5.65										
I	2.72										
G	6.33										
H	4.78										
TOTAL TEMP.	38.56		TOTAL TEMP.	16.73		TOTAL TEMP.			TOTAL TEMP.		
LEFT EDGE	4.72		LEFT EDGE	15.63		LEFT EDGE			LEFT EDGE		
RIGHT EDGE	4.72		RIGHT EDGE	15.64		RIGHT EDGE			RIGHT EDGE		
SIGN WIDTH	48.00		SIGN WIDTH	48.00		SIGN WIDTH			SIGN WIDTH		

STANDARD ARROW DETAILS



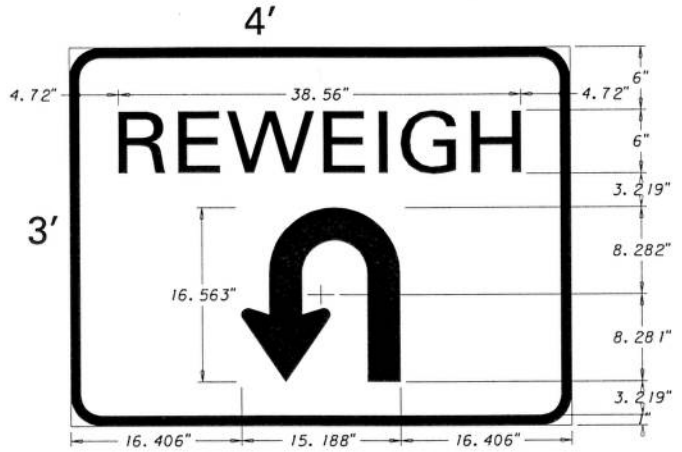
SPEC'S

SIGN NO. G13-7L
STA. 792+70 787+46
PANEL MAT'L SHT ALUM
WIDTH 4'-0"
HEIGHT 3'-0"
AREA 12sq'
MARGIN
BORDER 1"
CORNER R 3"
LEGEND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
LETTER SERIES "Emod"
ARROW SIZE 15.125x21
DESIGNED: RDS DATE: 10-08
CHECKED: JHC DATE: 10-08

SIGN DESIGN CALCULATIONS

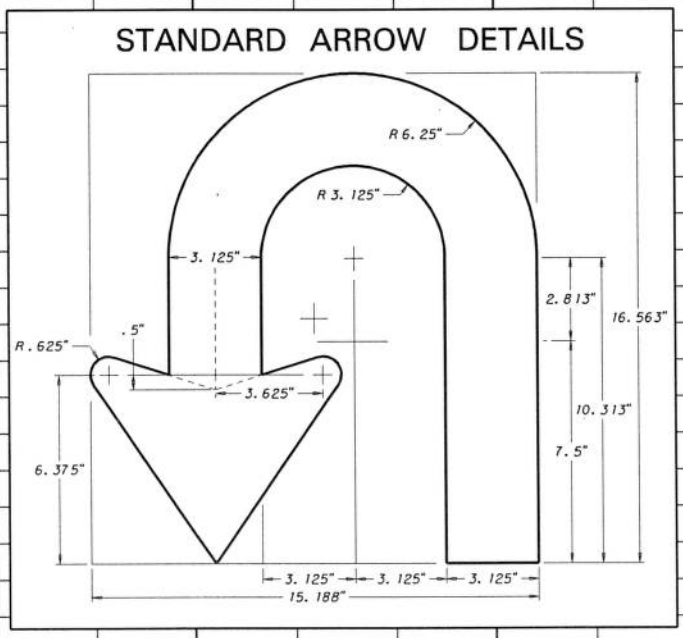
MONTANA DEPARTMENT OF TRANSPORTATION

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. G13-7bL
R	6.33	6"	↶	15.188	16.563							STA.
E	5.23											
W	7.52											PANEL MAT'L SHT ALUM
E	5.65											
I	2.72											WIDTH 4'-0"
G	6.33											HEIGHT 3'-0"
H	4.78											AREA 12sq'
												MARGIN
												BORDER 1"
												CORNER R 3"
												LEGEND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
TOTAL TEMP.	38.56		TOTAL TEMP.			TOTAL TEMP.			TOTAL TEMP.			LETTER SERIES "Emod"
LEFT EDGE	4.72		LEFT EDGE			LEFT EDGE			LEFT EDGE			ARROW SIZE SEE DETAIL
RIGHT EDGE	4.72		RIGHT EDGE			RIGHT EDGE			RIGHT EDGE			DESIGNED: RDS DATE: 10-08
SIGN WIDTH	48.00		SIGN WIDTH			SIGN WIDTH			SIGN WIDTH			CHECKED: JHC DATE: 10-08

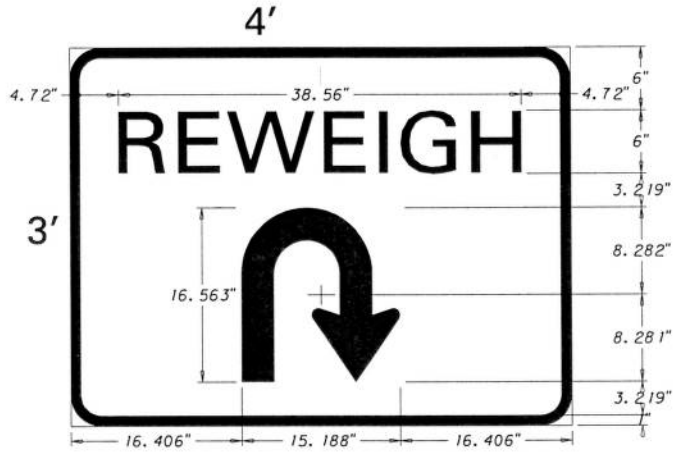
STANDARD ARROW DETAILS



SIGN DESIGN CALCULATIONS

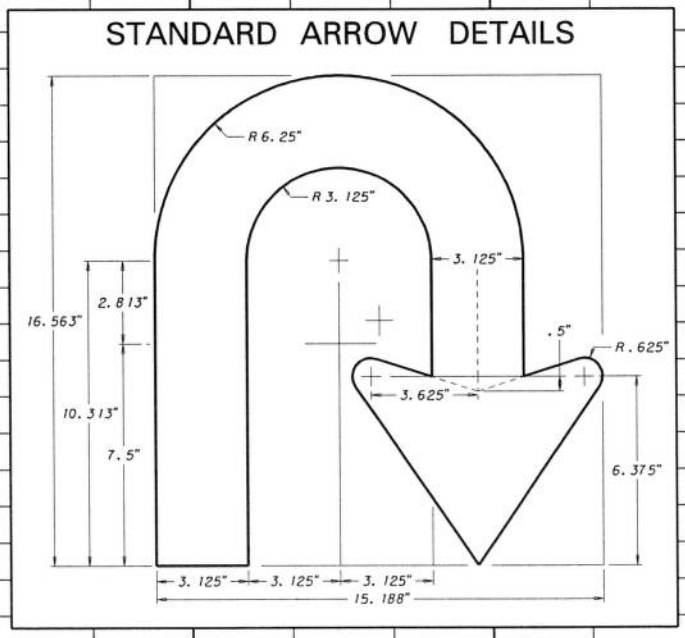
MONTANA DEPARTMENT OF TRANSPORTATION

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



LINE 1			LINE 2			LINE 3			LINE 4		
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT
R	6.33	6"	↩	15.188	16.563						
E	5.23										
W	7.52										
E	5.65										
I	2.72										
G	6.33										
H	4.78										
TOTAL TEMP.	38.56		TOTAL TEMP.			TOTAL TEMP.			TOTAL TEMP.		
LEFT EDGE	4.72		LEFT EDGE			LEFT EDGE			LEFT EDGE		
RIGHT EDGE	4.72		RIGHT EDGE			RIGHT EDGE			RIGHT EDGE		
SIGN WIDTH	48.00		SIGN WIDTH			SIGN WIDTH			SIGN WIDTH		

STANDARD ARROW DETAILS

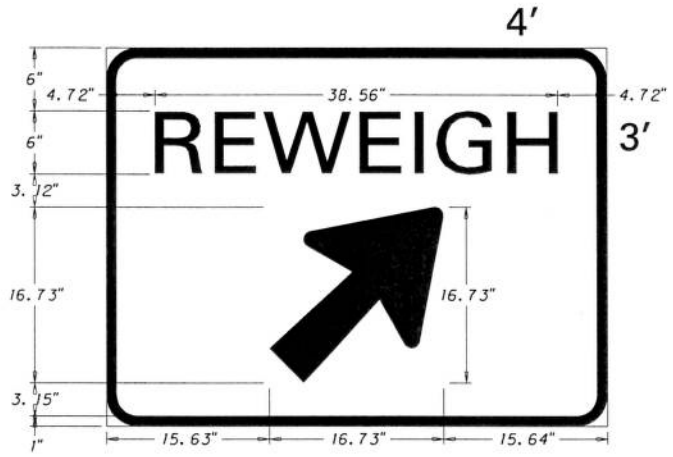


SPEC'S	
SIGN NO.	G13-7bR
STA.	794+10 787+50
PANEL MAT'L	SHT ALUM
WIDTH	4'-0"
HEIGHT	3'-0"
AREA	12sq'
MARGIN	
BORDER	1"
CORNER R	3"
LEGEND	☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
BACKGROUND	☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
LETTER SERIES	"Emod"
ARROW SIZE	SEE DETAIL
DESIGNED:	RDS
DATE:	10-08
CHECKED:	JHC
DATE:	10-08

SIGN DESIGN CALCULATIONS

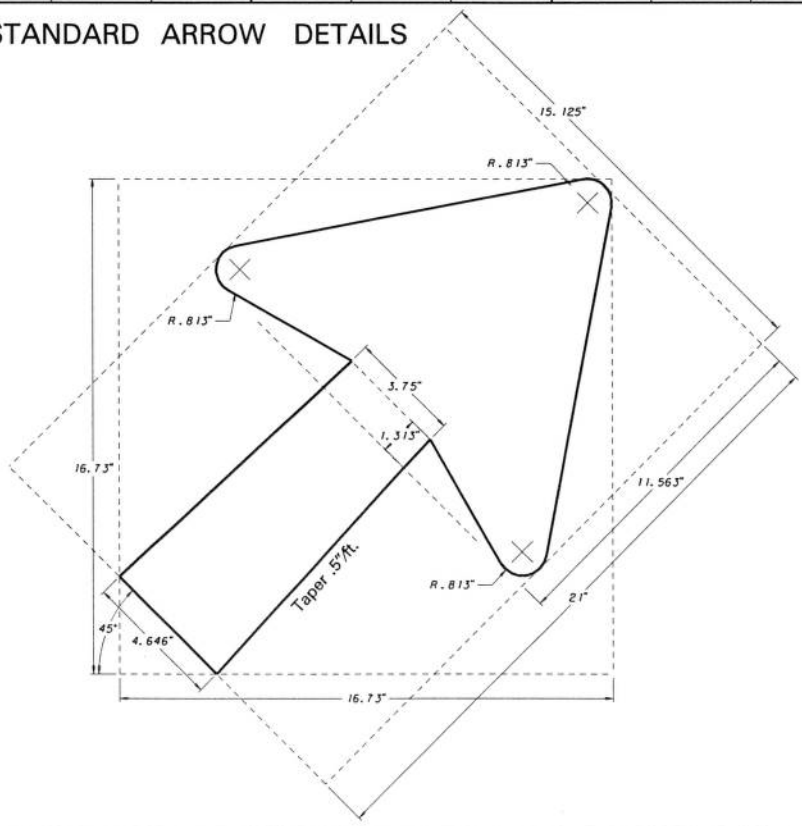
MONTANA DEPARTMENT OF TRANSPORTATION

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. G13-7R
R	6.33	6"	↗	16.73	16.73							STA.
E	5.23											
W	7.52											PANEL MAT'L SHT ALUM
E	5.65											WIDTH 4'-0"
I	2.72											HEIGHT 3'-0"
G	6.33											AREA 12sq'
H	4.78											MARGIN
												BORDER 1"
												CORNER R 3"
												LEGEND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
TOTAL TEMP.	38.56		TOTAL TEMP.	16.73		TOTAL TEMP.			TOTAL TEMP.			LETTER SERIES "Emod"
LEFT EDGE	4.72		LEFT EDGE	15.63		LEFT EDGE			LEFT EDGE			ARROW SIZE 15.125x21
RIGHT EDGE	4.72		RIGHT EDGE	15.64		RIGHT EDGE			RIGHT EDGE			DESIGNED:RDS DATE: 10-08
SIGN WIDTH	48.00		SIGN WIDTH	48.00		SIGN WIDTH			SIGN WIDTH			CHECKED: JHC DATE: 10-08

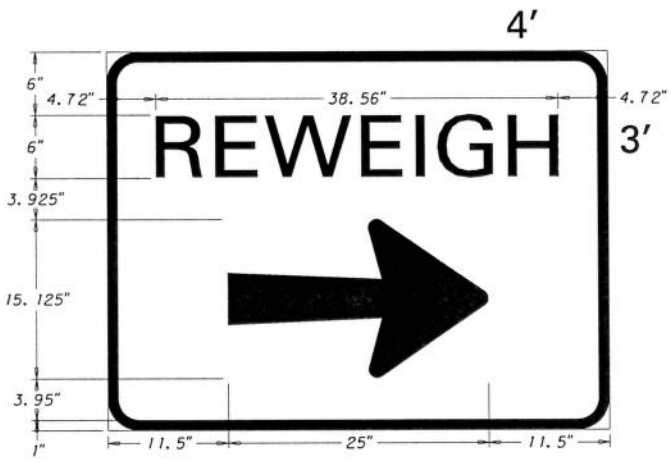
STANDARD ARROW DETAILS



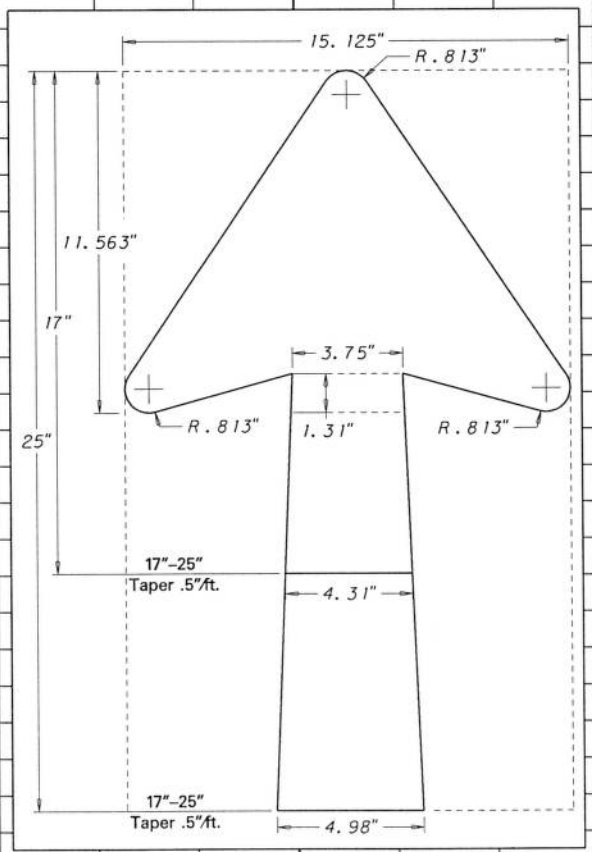
SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

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



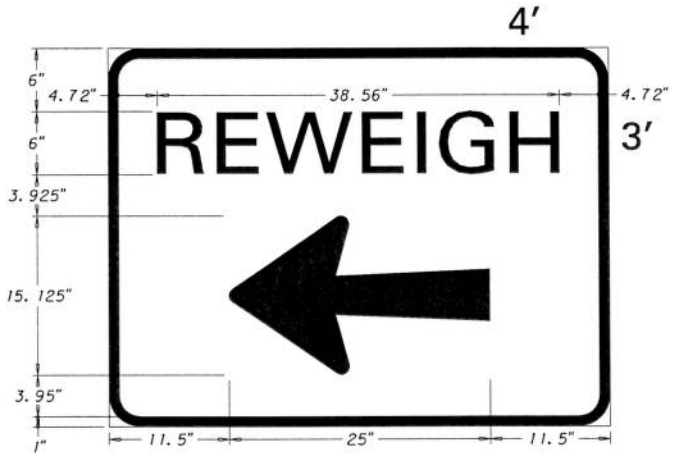
LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. G13-7R
R	6.33	6"	→	15.125	25.00							STA.
E	5.23											PANEL MAT'L SHT ALUM
W	7.52											WIDTH 4'-0"
E	5.65											HEIGHT 3'-0"
I	2.72											AREA 12sq'
G	6.33											MARGIN
H	4.78											BORDER 1"
												CORNER R 3"
												LEGEND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
TOTAL TEMP.	38.56		TOTAL TEMP.	25.00		TOTAL TEMP.			TOTAL TEMP.			LETTER SERIES "Emod"
LEFT EDGE	4.72		LEFT EDGE	11.50		LEFT EDGE			LEFT EDGE			ARROW SIZE 15.125x25
RIGHT EDGE	4.72		RIGHT EDGE	11.50		RIGHT EDGE			RIGHT EDGE			DESIGNED:RDS DATE: 12/08
SIGN WIDTH	48.00		SIGN WIDTH	48.00		SIGN WIDTH			SIGN WIDTH			CHECKED: JHC DATE: 12/08



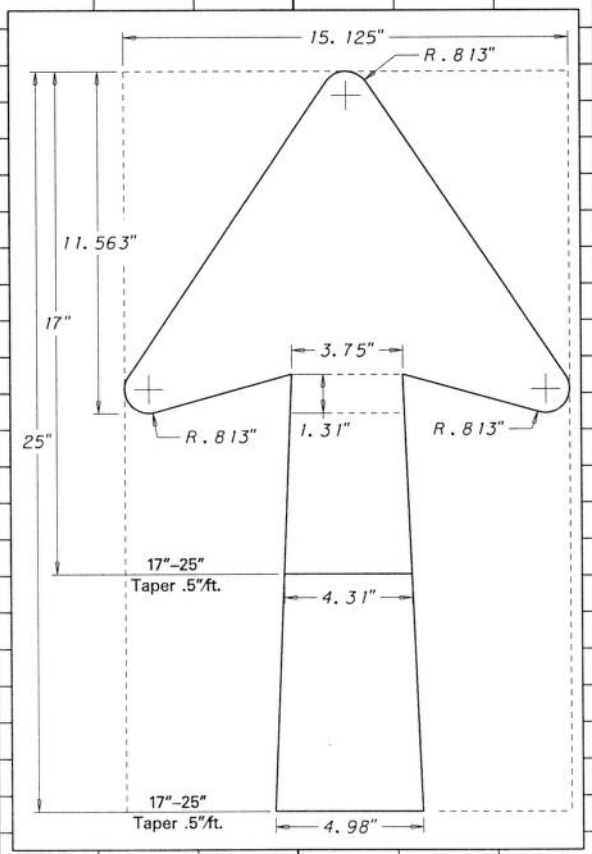
SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

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



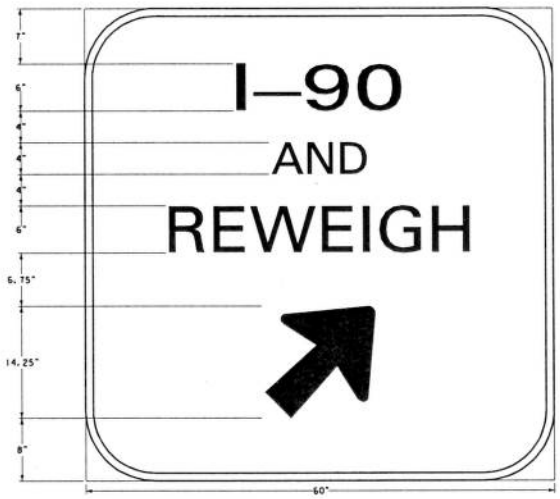
LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. G13-7a
R	6.33	6"	←	15.125	25.00							STA.
E	5.23											PANEL MAT'L SHT ALUM
W	7.52											WIDTH 4'-0"
E	5.65											HEIGHT 3'-0"
I	2.72											AREA 12sq'
G	6.33											MARGIN
H	4.78											BORDER 1"
												CORNER R 3"
												LEGEND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
TOTAL TEMP.	38.56		TOTAL TEMP.	25.00		TOTAL TEMP.			TOTAL TEMP.			LETTER SERIES "Emod"
LEFT EDGE	4.72		LEFT EDGE	11.50		LEFT EDGE			LEFT EDGE			ARROW SIZE 15.125x25
RIGHT EDGE	4.72		RIGHT EDGE	11.50		RIGHT EDGE			RIGHT EDGE			DESIGNED: RDS DATE: 12/08
SIGN WIDTH	48.00		SIGN WIDTH	48.00		SIGN WIDTH			SIGN WIDTH			CHECKED: JHC DATE: 12/08



SIGN DESIGN CALCULATIONS

MONTANA DEPARTMENT OF TRANSPORTATION

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

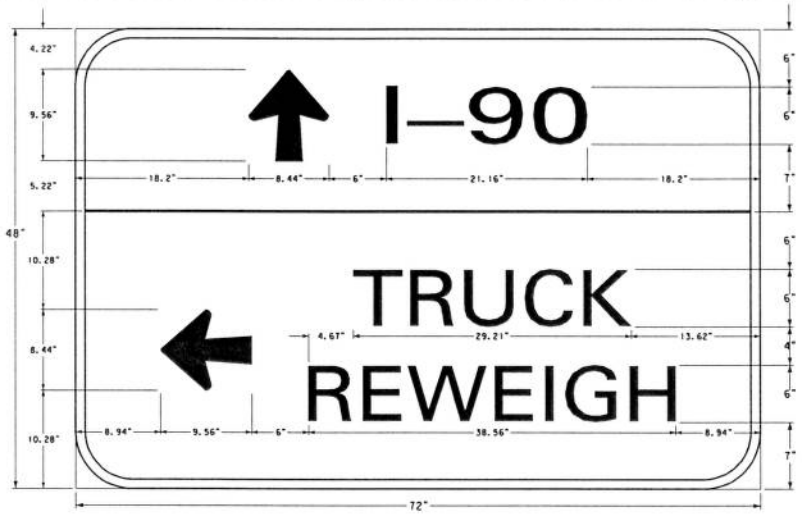


LINE 1			LINE 2			LINE 3			LINE 4			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. G13-5
I	4.17	6"	A	4.82	4"	R	6.33	6"				STA. 788+30 792+60
-	6.00	|	N	4.22	|	E	5.23	|				
9	6.02	|	D	3.19	|	W	7.52	|				PANEL MAT'L ALUM INCR
0	4.97	|				E	5.65	|				
						I	2.72	|				WIDTH 5'-0"
						G	6.33	|				
						H	4.78	|				HEIGHT 5'-0"
												AREA 25sq'
												MARGIN
												BORDER 1"
												CORNER R 9"
												LEGEND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
TOTAL TEMP.	21.16		TOTAL TEMP.	12.23		TOTAL TEMP.	38.56		TOTAL TEMP.			LETTER SERIES E Mod
LEFT EDGE	19.42		LEFT EDGE	23.88		LEFT EDGE	10.72		LEFT EDGE			ARROW SIZE
RIGHT EDGE	19.42		RIGHT EDGE	23.89		RIGHT EDGE	10.72		RIGHT EDGE			DESIGNED: RDS DATE: 05/10
SIGN WIDTH	60.00		SIGN WIDTH	60.00		SIGN WIDTH	60.00		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			SPEC'S
LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	LEGEND	LETTER WIDTH	LETTER HEIGHT	SIGN NO. G13-9
↑	8.44	9.56	T	5.65	6.00	←	9.56	8.44				STA. 784+80 799+50
	6.00		R	6.33			6.00					
I	4.17	6.00	U	6.33		R	6.33	6.00				PANEL MAT'L ALUM INCR
-	6.00		C	6.02		E	5.23					
9	6.02		K	4.88		W	7.52					WIDTH 6'-0"
0	4.97					E	5.65					
						I	2.72					HEIGHT 4'-0"
						G	6.33					
						H	4.78					AREA 24sq'
												MARGIN
												BORDER 1"
												CORNER R 6"
												LEGEND ☐ REFL. "I" ☒ REFL. "IV" COLOR WHITE
												BACKGROUND ☐ REFL. "I" ☒ REFL. "IV" COLOR GREEN
TOTAL TEMP.	35.60		TOTAL TEMP.	29.21		TOTAL TEMP.	54.12		TOTAL TEMP.			LETTER SERIES Emod
LEFT EDGE	18.20		LEFT EDGE	29.17		LEFT EDGE	8.94		LEFT EDGE			ARROW SIZE 9.56x8.44
RIGHT EDGE	18.20		RIGHT EDGE	13.62		RIGHT EDGE	8.94		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