

Highway Safety Corporation 239 Commerce Street Glastonbury, CT 06033-0358		Project: Highway Safety		By: APB		Checked: JAR			
		Date: 7/20/2007							
		Sheet No. _____		of _____					
Overhead Truss Sign Support Program		Tri-Chord Truss		Single Post Support					
State: Vermont									
Project: _____									
Sign Location: MM 10.970 NB									
Overall Dimensions (all in feet)		Truss Section Lengths			Miscellaneous Data				
Span	Left Post Height	Rt. Post Height	Section 1 (feet)	Section 2 (feet)	Section 3 (feet)	Number of Truss Pieces	Wind Speed (mph)	Sign Weight (pcf)	Ice Load? (yes/no)
58.07	22.86	25.16	29.04	29.04	0.00	2	90	3.65	yes
Sign Dimensions (all in feet)		Sign 1			Sign 2			Sign 3	
Length	Width	Location	Length	Width	Location	Length	Width	Location	
L1	W1	D1	L2	W2	D2	L3	W3	D3	
19.19	10.33	16.16	17.72	9.50	34.62	0.00	0.00	0.00	
Overhead Truss Chords		1st Truss Section		2nd Truss Section		3rd Truss Section		Chord Yield Str.	Number of Chords
Height of Truss (ft)	Width of Truss (ft)	Outside Dia. (inches)	Wall Thick. (inches)	Outside Dia. (inches)	Wall Thick. (inches)	Outside Dia. (inches)	Wall Thick. (inches)	(ksi)	1, 3 or 4
3.00	3.00	4.000	0.226	4.000	0.226	4.000	0.226	42.0	3
← Values Used in Computations									
Overhead Truss Diagonals		Round Pipe		Diagonal Yield Str.	Vertical diag. angle (deg)	Horizontal diag. angle (deg)	Drilled Shafts for foundation	Circular Footing Stem?	
Leg Size (inches)	Thickness (inches)	Outside Dia. (inches)	Thickness (inches)	(ksi)	(deg)	(deg)	?	(yes/no)	
2.00	0.250	0.00	0.000	36.0	38	39	no	yes	
No. of Posts per end	Left Post Verticals		Post Yield Str.		Vertical diag. angle (deg)	Right Post Verticals		Post Yield Str.	
1 or 2	Spacing Sp (Feet)	Outside Dia. (inches)	Wall Thick. (inches)	(ksi)	(deg)	Spacing Sp (Feet)	Outside Dia. (inches)	Wall Thick. (inches)	(ksi)
1	0.00	14.000	0.500	42.0	48	0.000	14.000	0.500	42.000
Post Diagonals		Round Pipe		Diagonal Yield Str.					
Leg Size (inches)	Thickness (inches)	Outside Dia. (inches)	Thickness (inches)	(ksi)					
0.00	0.000	0.00	0.000	36.0					
0.00	0.000	0.00	0.000	0.00					
← Values Used in Computations									
Results		D/C or CSR		OK / NG ?					
Truss	Section 1 Chords	0.64		OK					
	Section 2 Chords	0.64		OK					
	Section 3 Chords	NA		N/A					
	Truss Diagonals	0.54		OK					
Posts	Left Post	0.74		OK					
	Right Post	0.66		OK					
	Left Post Diagonals	N/A		N/A					
Right Post Diagonals	N/A		N/A						
Truss Deflections in Inches	Defl. Under DL + Ice	0.57							
	Allowable (L/150)	4.65		OK					
	Camber	1.05							
Deflection OK									