


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 10.050 NB									
Overall Dimensions (all in feet)						Miscellaneous Data			
Span	Left Post Height	Rt. Post Height	Truss Section Lengths			Number of Truss Pieces	Wind Speed (mph)	Sign Weight (psf)	Ice Load?
L	H1	H2	Section 1 (feet)	Section 2 (feet)	Section 3 (feet)				(yes/no)
58.07	22.2	23.19	29.04	29.04	0.00	2	90	3.85	yes
Sign Dimensions (all in feet)			Sign 2			Sign 3			
Length	Width	Location	Length	Width	Location	Length	Width	Location	
L1	W1	D1	L2	W2	D2	L3	W3	D3	
38.39	10.83	25.10	0.00	0.00	0.00	0.00	0.00	0.00	
Overhead Truss Chords									
Height of Truss	Width of Truss	1st Truss Section		2nd Truss Section		3rd Truss Section		Chord Yield Str.	Number of Chords
Dt (ft)	Wt (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	0.228	4.000	0.228	4.000	0.228	42.0	3
4.000 0.228 -- Values Used in computations									
Overhead Truss Diagonals									
Equal Leg Angles		Round Pipe		Diagonal	Vertical	Horizontal	Drilled Shafts for foundation	Circular Footing Stem?	
Leg Size (inches)	Thickness (inches)	Outside Dia. (inches)	Thickness (inches)	Yield Str. (ksi)	diag. angle (deg)	diag. angle (deg)	?	(yes/no)	
2.00	0.250	0.00	0.000	36.0	38	38	no	yes	
No. of Posts per end									
Left Post Verticals	Post Yield Str. (ksi)	Vertical diag. angle (deg)	Right Post Verticals	Post Yield Str. (ksi)					
Spacing Sp (Feet)	Outside Dia. (inches)	Wall Thick. (inches)	Spacing Sp (Feet)	Outside Dia. (inches)	Wall Thick. (inches)				
1	0.00	14.000	0.500	42.0	45	0.000	14.000	0.500	42.000
Post Diagonals									
Equal Leg Angles		Round Pipe		Diagonal					
Leg Size (inches)	Thickness (inches)	Outside Dia. (inches)	Thickness (inches)	Yield Str. (ksi)					
0.00	0.000	3.00	0.125	36.0					
0.00	0.000	0.00	0.000	0.00					
-- Values Used in Computations									
Results									
Truss		D/C or CSR		OK / NG ?					
Section 1 Chords		0.96		OK					
Section 2 Chords		0.00		OK					
Section 3 Chords		NA		N/A					
Truss Diagonals		0.60		OK					
Left Post		0.79		OK					
Right Post		0.68		OK					
Left Post Diagonals		N/A		N/A					
Right Post Diagonals		N/A		N/A					
Truss Deflections in Inches		Defl. Under DL + Ice		0.66					
		Allowable (L/150)		4.65					
		Camber		1.10					
Deflection OK									