

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
TC/BC(Knee L)	Plate - 0.1017"	0.00	4.17T	0.00	#12 Drivall	0.459	12
Web # 1	362S162-54(50)	4.01	0.76C	0.14	#12 Drivall	0.459	4
Web # 2	362S162-54(50)	10.68	1.50C	0.35	#12 Drivall	0.459	4
Web # 3	362S162-54(50)	10.93	1.26C	0.98	#12 Drivall	0.459	4
Web # 4	362S162-54(50)	11.98	0.72C	0.68	#12 Drivall	0.459	4
Web # 5	362S162-54(50)+TB17.48	2.39T	0.27	#12 Drivall	0.459	6	
Web # 6	362S162-54(50)+TB17.69	2.26C	0.45	#12 Drivall	0.459	5	
Web # 7	362S162-54(50)+TB19.95	0.61T	0.12	#12 Drivall	0.459	4	
BC Lateral Brace	250S162-33(33)	2.00	0.33C	0.11	#12 Drivall	0.223	2
BC Diagonal Brace	250S162-33(33)	4.47	0.74C	0.54	#12 Drivall	0.223	4

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Chord-Wall				2.13	#12 Drivall	0.678	4
Truss Chord	MTS12	1	0.66		#12 Drivall	0.678	4
Steel Stud				0.66	#12 Drivall	0.678	4
Truss Chord	CS18x16L	1	1.16		#12 Drivall	0.381	5
Steel Stud				1.16	#12 Drivall	0.381	5

### GENERAL NOTES

- Trusses require lateral bracing. See Truss Layout and Detail sheets.
- Top Chord continuously sheathed.
- Brace Webs (5 6 7) with T-Brace entire length of minor axis.
- Number of fasteners noted in chart installed on each end of Web
- Allowable fastener values based on LGSEA Research Note No. 1-00 and Grabber Chart.
- (ws) denotes web stiffener required at support.
- Member design based on sections in SSMA-RCD Library.

### Maximum Deflections

Vertical	0.322 in ( L / 1491 )
Horizontal	0.036 in
Top Overhang	0.052 in ( L / 692 )
Vertical	0.177 in ( L / 2712 ) [Dead Load Only]
Vertical	0.144 in ( L / 3334 ) [Live Load Only]

### Support Reactions

	Down	Uplift*	Horizontal	Bearing
Left	2.41 (2.32)	-0.66 [-1.28]	2.13	3.63
Right	2.52 (2.29)	-1.16 [-1.79]	0.00	3.63

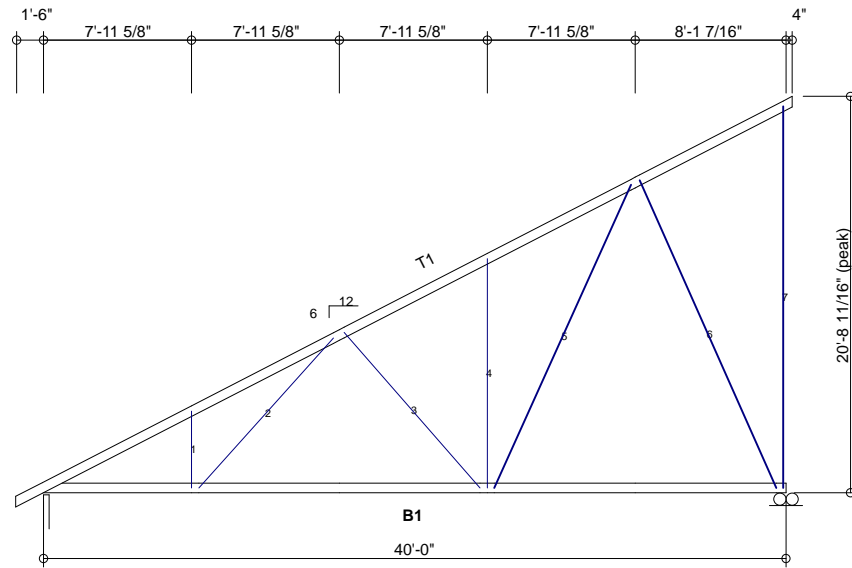
\* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind

{ } Denotes 'Dead+Live Only'

[ ] Denotes 'Wind Only' Uplift Reaction

### DESIGN DATA

Number of Trusses = 10 each  
 Plate Style : Out-Of-Plane  
 Eave Height : 10.00 ft (top of wall)  
 Bearing : 3.625 in  
 Spacing : 2.00 ft  
 Dead Load : 10.00 psf (top chord)  
 Dead Load : 10.00 psf (bottom chord)  
 Live Load : 20.00 psf (top chord)  
 Live Load : 0.00 psf (bottom chord)  
 Snow Load : 43.00 psf (ground)  
 Snow Load : 30.10 psf (design) [Is = 1.00, Ce = 1.00]  
 Wind Load : 23.75 psf (design) [Iw = 1.00]  
 Wind Speed : 110 mph (Exposure C)  
 Open Category: E  
 Topography (Kz): 1  
 Building Category: (2) General  
 Seismic Coefficient: 0.044



Per AISI S100-2007		Actual			Allowable			Ratio
Member	Section	Po	Vo	Mo	Pa	Va	Ma	
Bottom Chord	1-600S162-97(50)	1.05C	0.21	7.83	4.40	10.70	15.02	0.76
Top Chord	1-600S162-54(50)	0.29T	1.80	11.92	16.65	2.83	27.75	0.77
Web	1-362S162-54(50)	0.45T	0.41	0.62	12.63	3.37	2.60	0.98

International Building Code 2009: PASSED  
 Design Method - (ASD)  
 Component Wind Pressure Design (Interior)

| denotes Web + T-Brace



### Rusk Component and Design

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### Roof Trusses

Lafayette, Co

Truss D&E, V25.011  
 Date: 04-26-2015  
 Time: 10:50  
 Designer: BJR  
 File: M-4-40  
 Job Number: RoofTruss

M-4-40