Job	Truss	Truss Type	Qty	Ply	ABC Const/Lot 295
99999	T1	COMMON	1	1	Hometown, USA
					Job Reference (optional)

Lumber Specialties, 1700 BeltLine Rd., Dyersville, Iowa 52040, JH

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A -2-0-0 **B** 2-0-0 0-0-0 7-9-14 7-9-14 7-2-2 15-0-0 7-2-2 22-2-2 7-9-14 30-0-0 2-0-0 32-0-0

Scale = 1:55.6

C 5.00 ⌐12

E 6-7-1 7-4-13

F 0-4-1 0-4-1

5x6 (joint 4)

D 2x4 12 2x4 13

W2 W3

T1 T2

W1 W4

B1 B2

10 9 8

4x4 3x6 4x4

5x6 5x6

A 2-0-0 29-5-0 2-0-0 **G**

0-3-8 0-0-0 10-2-10 10-2-10 9-6-13 19-9-6 10-2-10 0-3-8 30-0-0

B 30-0-0 **H**

Plate Offsets (X,Y): [2:0-2-5,Edge], [6:0-2-5,Edge]
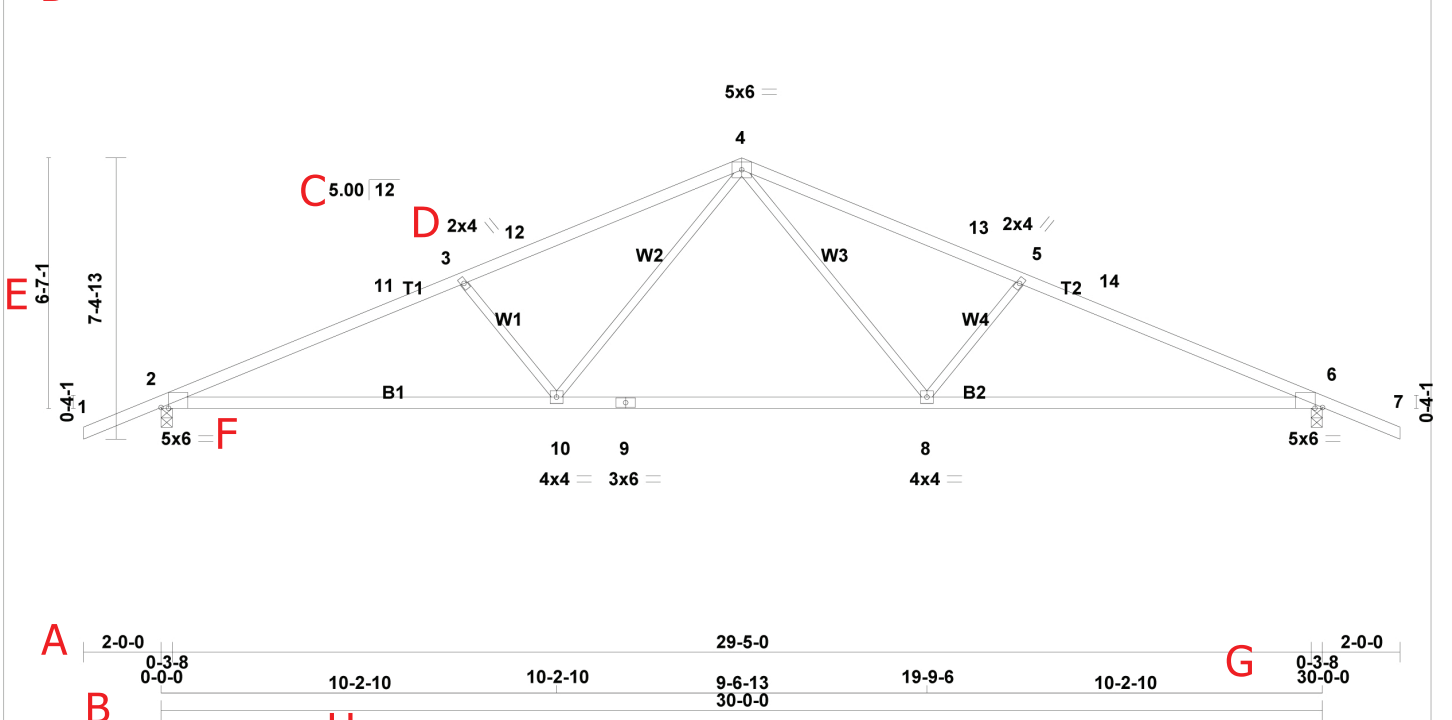
LOADING (psf) **I**		SPACING 2-0-0 **K** **J** **L**		CSI **M**		DEFL **N**	in	(loc)	l/defl	L/d	PLATES **P**	GRIP
TCLL	30.0	Plates Increase	1.15	TC	0.85	Vert(LL)	-0.28	6-8	>999	240	MT20	197/144
TCDL	10.0	Lumber Increase	1.15	BC	0.84	Vert(TL)	-0.63	6-8	>568	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(TL)	0.12	6	n/a	n/a		
BCDL	10.0	Code IBC2006/TPI2002		(Matrix)		**O**					Weight: 95 lb	

LUMBER
TOP CHORD 2 X 4 SPF 1450F 1.3E
BOT CHORD 2 X 4 SPF 1450F 1.3E
WEBS   2 X 3 SPF 1650F 1.5E
BRACING
TOP CHORD **Q**
Structural wood sheathing directly applied or 2-2-0 oc purlins. **U**
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) **R**
2   =   1553/0-3-8
6   =   1553/0-3-8
Max Horz
2   =   45(LC 9) **S**
Max Uplift **T**
2   =   -80(LC 9)
6   =   -80(LC 10)
Max Grav
2   =   1657(LC 2) **V**
6   =   1657(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD
1-2 =   0/60   2-11 = -2967/278   3-11 = -2751/310   3-12 = -2585/267
4-12 = -2469/297   4-13 = -2469/297   5-13 = -2585/267   5-14 = -2751/310
6-14 = -2967/278   6-7   =   0/60
BOT CHORD
2-10 = -166/2627   9-10 = -34/1771   8-9   = -34/1771   6-8   = -166/2627
WEBS
3-10 = -624/185   4-10 = -33/887   4-8   = -33/887   5-8   = -624/185

NOTES **W**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 90mph; h=20ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=35.0 psf (ground snow); Ps=26.9 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 26.9 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Plates checked for a plus or minus 5 degree rotation about its center.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 80 lb uplift at joint 6.
10) This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss does not include any time dependant deformation for long term loading (creep) in the total load deflection. The building designer shall verify that this parameter fits with the intended use of this component.

LOAD CASE(S) Standard **X**

ROOF KEY

A - Cumulative Dimensions
B - Panel Length (feet - inches - sixteenths)
C - Slope
D - Plate Size and Orientation
E - Overall Height
F - Bearing Locations
G - Truss Span (feet - inches - sixteenths)
H - Plate Offsets
I - Design Loading (PSF)
J - Spacing O.C. (feet - inches - sixteenths)
K - Duration of Load for Plate and Lumber Design
L - Code
M - TC, BC, and Web Maximum Combined Stress Indices
N - Deflections (inches) and Span to Deflection Ratio
O - Input Span to Deflection Ratio
P - MiTek Plate Allowables (PSI)
Q - Lumber Requirements
R - Reaction (pounds)
S - Minimum Bearing Required (inches)
T - Maximum Uplift and/or Horizontal Reaction if applicable
U - Required Member Bracing
V - Member Axial Forces for Load Case 1
W - Notes
X - Additional Load/Load Cases