

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / ROOF
L265361	T16	SPECIAL	1	2	J1926991

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:30:14 2008 Page 1

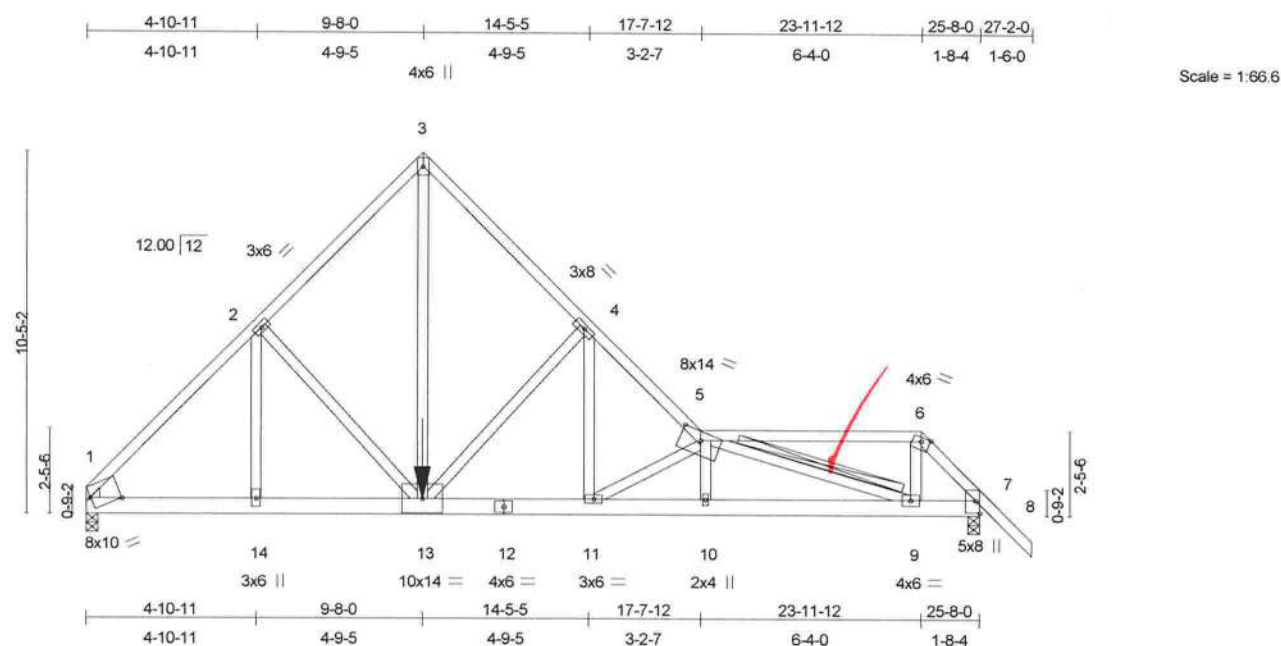


Plate Offsets (X,Y): [1:0-10-4,Edge], [5:0-7-0,0-3-4], [7:Edge,0-1-5]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.40	Vert(LL)	-0.21 10-11	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.66	Vert(TL)	-0.40 10-11	>763	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.99	Horz(TL)	0.07 7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 366 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 6 SYP No.1D
 WEBS 2 X 4 SYP No.3
 WEDGE
 Left: 2 X 4 SYP No.3, Right: 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2 X 4 SYP No.3 - 5-9
 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS (lb/size) 1=5133/0-4-0, 7=2617/0-4-0
 Max Horz 1=-299(load case 3)
 Max Uplift 1=-1584(load case 4), 7=-776(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-5999/1838, 2-3=-4646/1464, 3-4=-4643/1534, 4-5=-6479/2012, 5-6=-2271/684, 6-7=-3357/982, 7-8=0/52
 BOT CHORD 1-14=-1413/3983, 13-14=-1413/3983, 12-13=-1392/4580, 11-12=-1392/4580, 10-11=-2544/8397, 9-10=-2535/8378, 7-9=-617/2105
 WEBS 2-14=-609/1739, 2-13=-1139/543, 3-13=-2075/6159, 4-13=-1998/666, 4-11=-742/2566, 5-11=-4528/1367, 5-10=-275/129, 5-9=-6431/1972, 6-9=-642/2325

Julius Lee
 Truss Design Engineer
 Florida P.E. No. 34888
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 Doynton Beach, FL 33435

JOINT STRESS INDEX

1 = 0.62, 1 = 0.00, 2 = 0.69, 3 = 0.82, 4 = 0.78, 5 = 0.85, 6 = 0.67, 7 = 0.58, 7 = 0.00, 9 = 0.89, 10 = 0.33, 11 = 0.81, 12 = 0.55, 13 = 0.45 and 14 = 0.27

Continued on page 2

January 28, 2008

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE
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Job	Truss	T16	SPECIAL	Qty	1	Ply	JAMES & ERICA COOK / ROOF	J1926991
L265361						2	Job Reference (optional)	

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6.300 s Feb 15 2006 Mittek Industries, Inc. Tue Jan 15 14:30:14 2008 Page 2

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section.
- Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1584 lb uplift at joint 1 and 776 lb uplift at joint 7.
- Girder carries tie-in span(s): 21-8-0 from 0-0-0 to 9-8-0

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 5-6=-54, 6-8=-54, 1-13=-319(F=-309), 7-13=-10

Concentrated Loads (lb)

Vert: 13=-3100(F)

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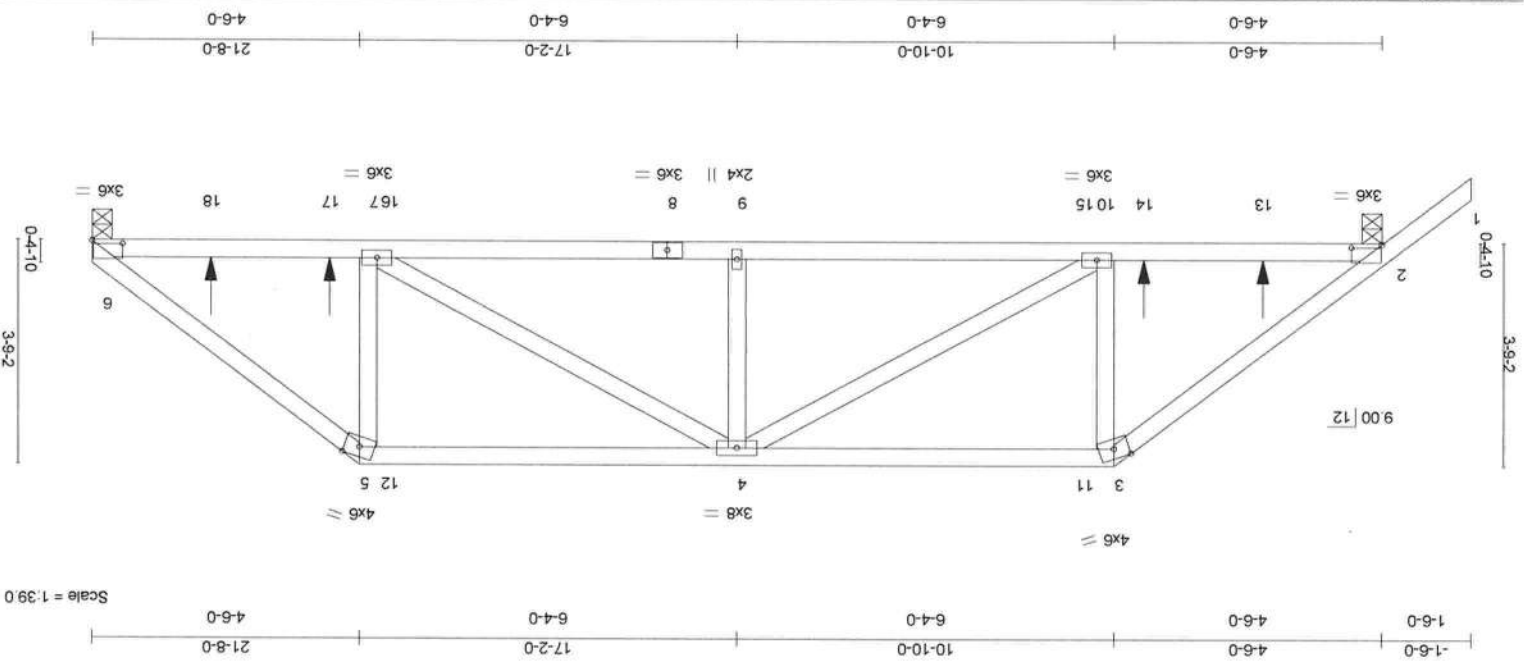
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Job	L265361	T17	Truss	Truss Type	HIP	Qty	1	Ply	JAMES & ERICA COOK / ROOF	J1926992
Job Reference (optional)										

6.300 s Apr 19 2006 Mittek Industries, Inc. Tue Jan 15 15:15:2008 Page 1



LOADING (psf)	SPACING	CSI	DEFLECT	VERT(TL)	HORIZ(TL)	IN (loc)	L/DEFL	L/D	PLATES	Weight: 105 lb
BCDL 5.0	Code FBC2004/TP12002	WB 0.47	Horz(TL)	0.04	6	n/a	n/a	240	MT20	244/190
BCLL 10.0	Rep Stress Incr	NO	Vert(TL)	-0.10	9-10	>999	360			
TCDL 7.0	Lumber Increase	1.25	Vert(LL)	-0.05	9	>999				
TCLL 20.0	Plates Increase	1.25								

LUMBER	BRACING	REACTIONS	FORCES
TOP CHORD 2 X 4 SYP No.2	TOP CHORD	(lb/size) 6=894/0-4-0, 2=991/0-4-0	(lb) - Maximum Compression/Maximum Tension
BOT CHORD 2 X 4 SYP No.2	BOT CHORD	Max Horz 2=116(load case 4)	
WEBS 2 X 4 SYP No.3		Max Uplift 6=-279(load case 3), 2=-299(load case 4)	

JOINT STRESS INDEX	NOTES
2 = 0.73, 3 = 0.55, 4 = 0.57, 5 = 0.55, 6 = 0.73, 7 = 0.35, 8 = 0.48, 9 = 0.34 and 10 = 0.35	1) Unbalanced roof live loads have been considered for this design.
	2) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft, TCCL=4.2psf, BCDL=3.0psf, Category II; Exp. B;
	enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
	3) Provide adequate drainage to prevent water ponding.
	4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
	5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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January 28, 2008

Job	Truss	T17	HIP	Qty	Ply	JAMES & ERICA COOK / ROOF	J1926992
				1			
						Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

6:300 s Apr 19 2006 Mittek Industries, Inc. Tue Jan 15 15:16:15 2008 Page 2

NOTES

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 279 lb uplift at joint 6 and 299 lb uplift at joint 2.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-11=-54, 11-12=-64(F=-10), 5-12=-54, 5-6=-54, 2-15=-10, 15-16=-12(F=-2), 6-16=-10

Concentrated Loads (lb)

Vert: 13=-79(F) 14=-70(F) 17=-70(F) 18=-79(F)

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January 28, 2008



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Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / ROOF
L265361	T18	HIP	1	1	J1926993

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:30:16 2008 Page 1

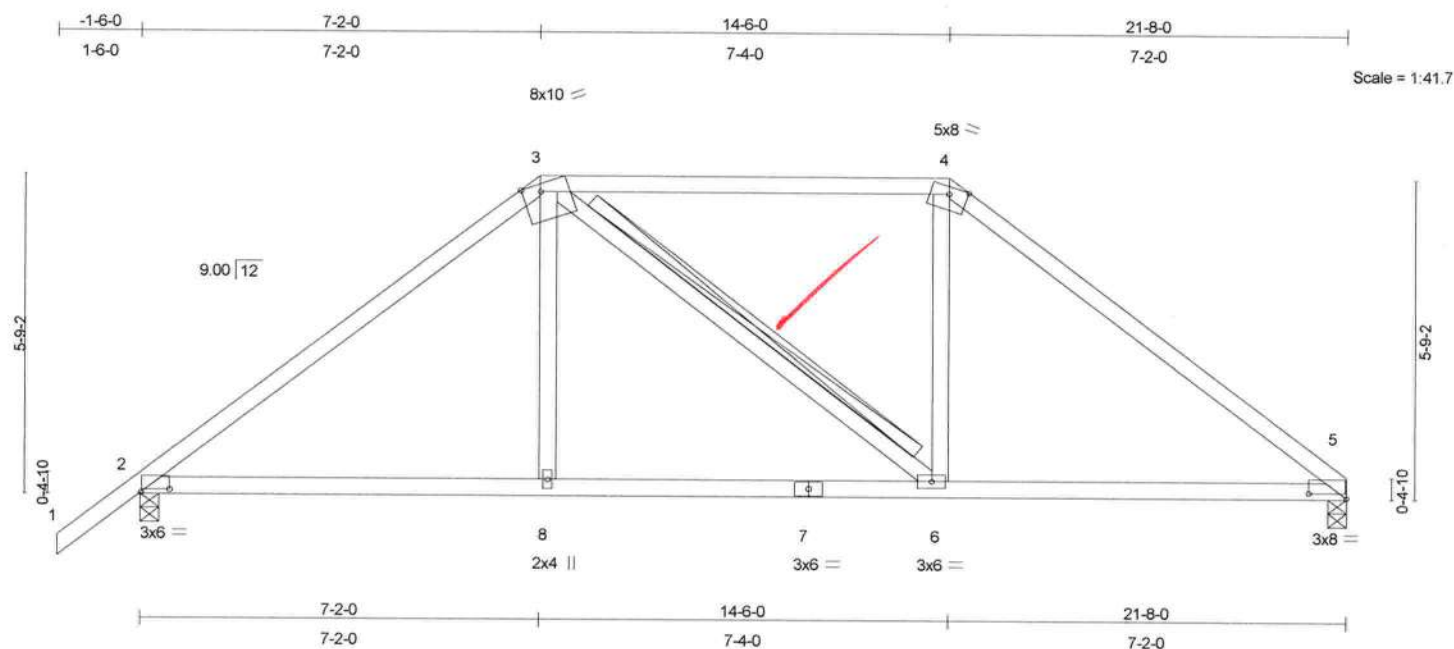


Plate Offsets (X,Y): [2:0-6-3,0-0-10], [3:0-3-14,Edge], [5:0-8-3,0-1-2]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.38	Vert(LL)	0.10	5-6	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.31	Vert(TL)	-0.13	5-6	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.07	Horz(TL)	0.02	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 101 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 5=679/0-4-0, 2=776/0-4-0
Max Horz 2=171(load case 5)
Max Uplift 5=-123(load case 7), 2=-198(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-909/408, 3-4=-646/439, 4-5=-917/419
BOT CHORD 2-8=-204/634, 7-8=-204/636, 6-7=-204/636, 5-6=-203/643
WEBS 3-8=0/226, 3-6=-132/124, 4-6=-16/228

JOINT STRESS INDEX

2 = 0.56, 3 = 0.81, 4 = 0.87, 5 = 0.70, 6 = 0.34, 7 = 0.22 and 8 = 0.33

NOTES

1) Unbalanced roof live loads have been considered for this design.

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Continued on page 2

January 28, 2008

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Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / ROOF
L265361	T18	HIP	1	1	J1926993
Job Reference (optional)					

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6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:30:16 2008 Page 2

NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; 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) Provide adequate drainage to prevent water ponding.
- 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 5 and 198 lb uplift at joint 2.

LOAD CASE(S) Standard

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January 28, 2008

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L265361	T19	HIP	1	1	J1926994
Job Reference (optional)					

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6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:30:16 2008 Page 1

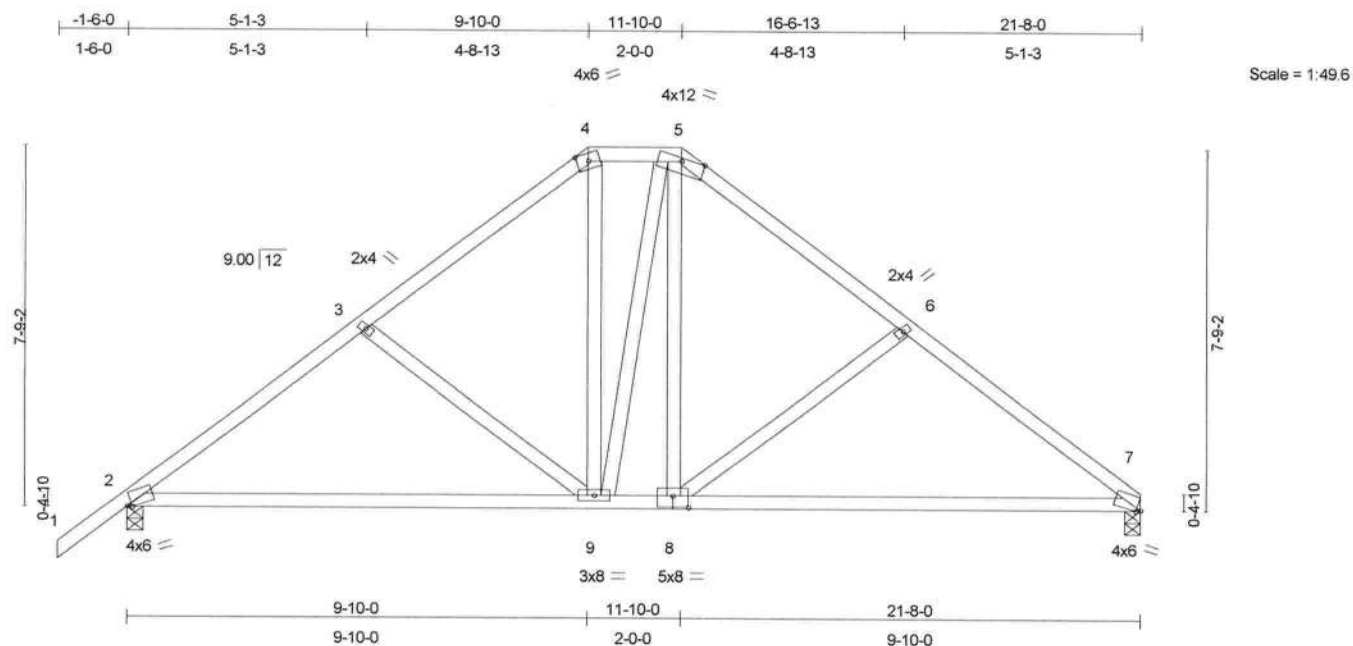


Plate Offsets (X,Y): [2:0-1-2,Edge], [7:0-1-2,Edge], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.27	Vert(LL)	-0.19	7-8	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.49	Vert(TL)	-0.34	7-8	>743	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.16	Horz(TL)	0.02	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 125 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or
6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (lb/size) 7=679/0-4-0, 2=776/0-4-0
Max Horz 2=228(load case 5)
Max Uplift 7=-135(load case 7), 2=-210(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/49, 2-3=-924/431, 3-4=-706/394, 4-5=-500/384, 5-6=-708/401, 6-7=-916/443
BOT CHORD 2-9=-242/672, 8-9=-62/499, 7-8=-261/684
WEBS 3-9=-224/232, 4-9=-101/227, 5-9=-136/141, 5-8=-135/238, 6-8=-239/254

JOINT STRESS INDEX

2 = 0.64, 3 = 0.33, 4 = 0.36, 5 = 0.58, 6 = 0.33, 7 = 0.62, 8 = 0.57 and 9 = 0.58

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; 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.
- Provide adequate drainage to prevent water ponding.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

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January 28, 2008

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L265361	T19	HIP	1	1	J1926994
					Job Reference (optional)

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6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:30:17 2008 Page 2

NOTES

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 7 and 210 lb uplift at joint 2.

LOAD CASE(S) Standard

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