

Date: 9/21/2006
Start Number: 1128
SEI Ref: L210383

Building Code: FBC2004

Building Code: FBC2004

ASCE 7-02

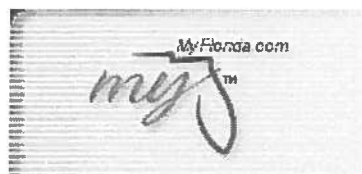
110

Designer: 180

Phone: 813-849-5769

5. Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitability and use of Carrying Member hanger capacity.

SEP 21 2006

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10:00:13 AM

Licensee Details**Licensee Information**

Name: **ZECHER, BRYAN CHRISTIAN (Primary Name)**
BRYAN ZECHER CONSTRUCTION INC (DBA)
Main Address: **P O BOX 815**
LAKE CITY, Florida 32056
Lic. Location: **465 NW ORANGE ST**
LAKE CITY, FL 32055 United States
Columbia

License Information

License Type: **Certified Building Contractor**
Rank: **Cert Building**
License Number: **CBC054575**
Status: **Current, Active**
Licensure Date: **12/05/1991**
Expires: **08/31/2006**

Special Qualifications

Effective Date

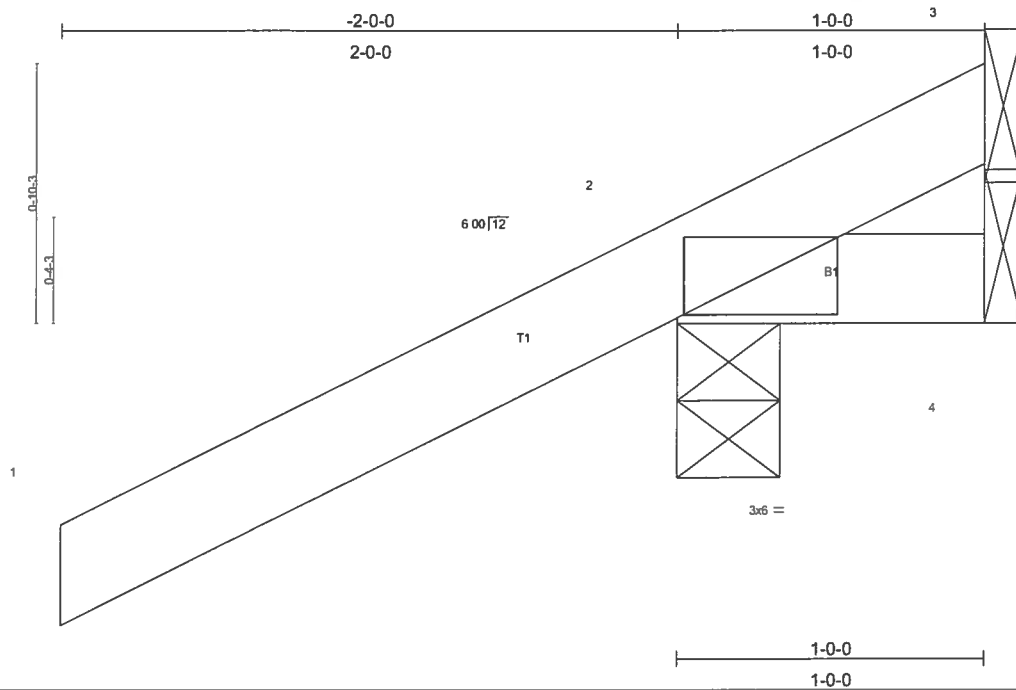
Bldg Code Core Course Credit

Qualified Business License
Required

04/13/2004

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Job L210383	Truss CJ1	Truss Type JACK	Qty 6	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6,300 s Apr 19 2006 Mitek Industries, Inc. Thu Sep 21 07:12:02 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.01	Vert(LL) -0.00 2 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.00 2 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 7 lb	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=267/0-4-0, 4=14/Mechanical, 3=91/Mechanical

Max Horz 2=87(load case 5)
Max Uplift 2=-275(load case 5), 3=-91(load case 1)
Max Grav 2=267(load case 1), 4=14(load case 1), 3=128(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-69/76
BOT CHORD 2-4=0/0

JOINT STRESS INDEX

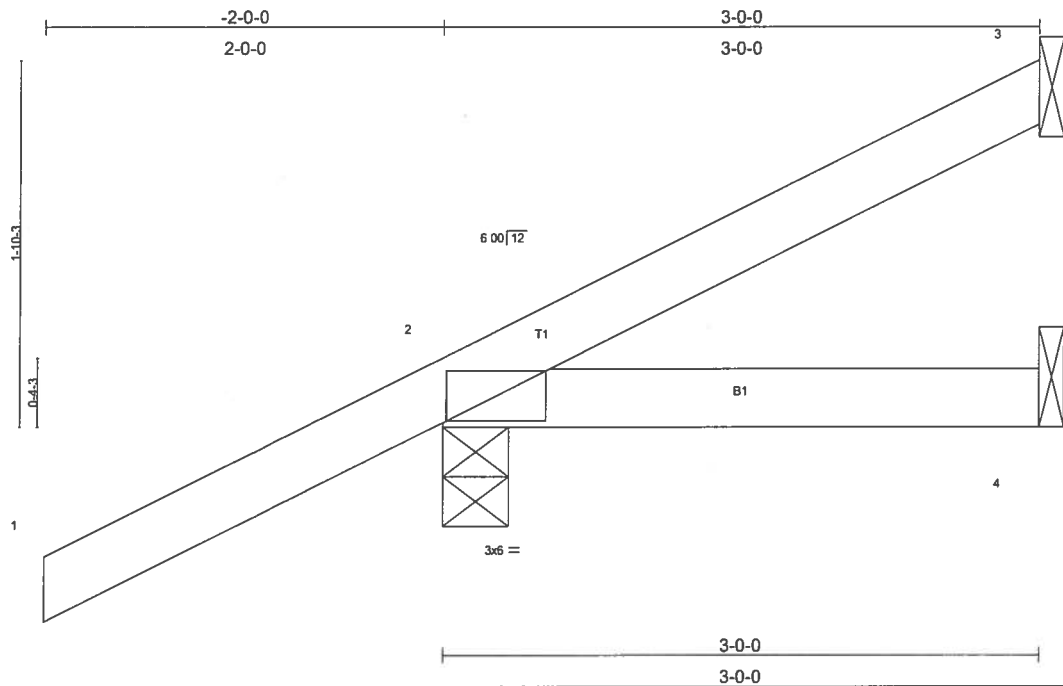
2 = 0.14

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 2 and 91 lb uplift at joint 3.

LOAD CASE(S) Standard

Job L210383	Truss CJ3	Truss Type JACK	Qty 6	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055					
6.300 s Apr 19 2006 Mitek Industries, Inc. Thu Sep 21 07:12:03 2006 Page 1					



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.30	Vert(LL) -0.00	2-4 >999	240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.05	Vert(TL) -0.01	2-4 >999	180		
BCLL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3 n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)					
Weight: 13 lb							

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=29/Mechanical, 2=279/0-4-0, 4=42/Mechanical
 Max Horz 2=132(load case 5)
 Max Uplift 3=-27(load case 6), 2=-205(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-58/7
 BOT CHORD 2-4=0/0

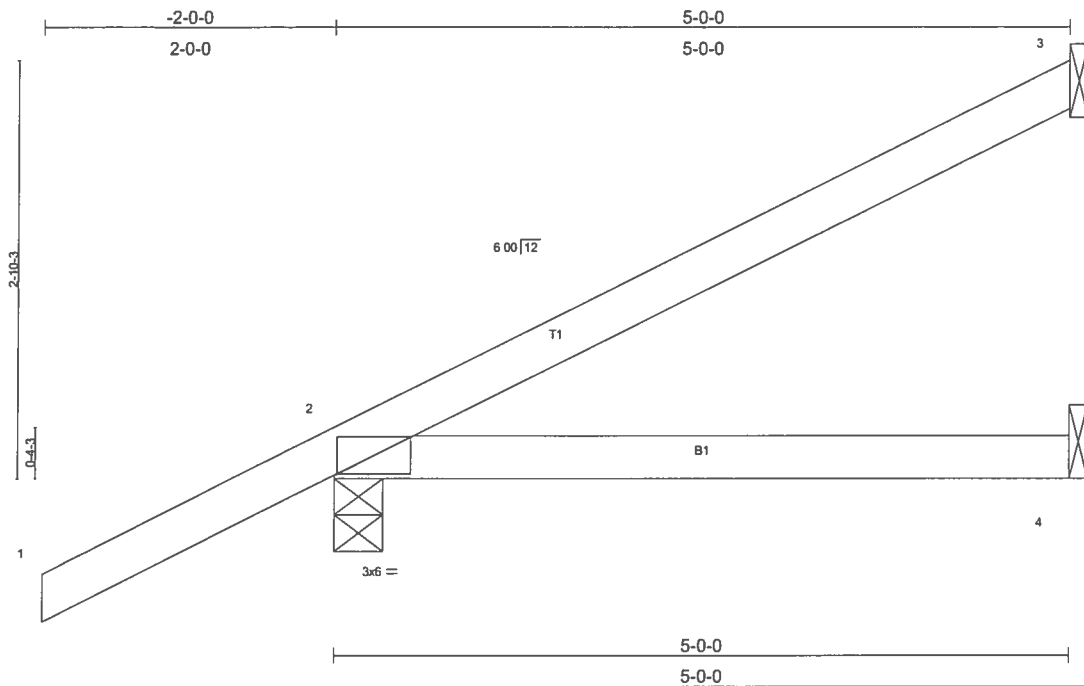
JOINT STRESS INDEX
 2 = 0.13

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3 and 205 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L210383	Truss CJ5	Truss Type JACK	Qty 6	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:04 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.16	Vert(LL) -0.03 2-4 >999 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.05 2-4 >999 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 19 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=102/Mechanical, 2=344/0-4-0, 4=72/Mechanical
Max Horz 2=178(load case 5)
Max Uplift 3=-86(load case 5), 2=-201(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-87/36
BOT CHORD 2-4=0/0

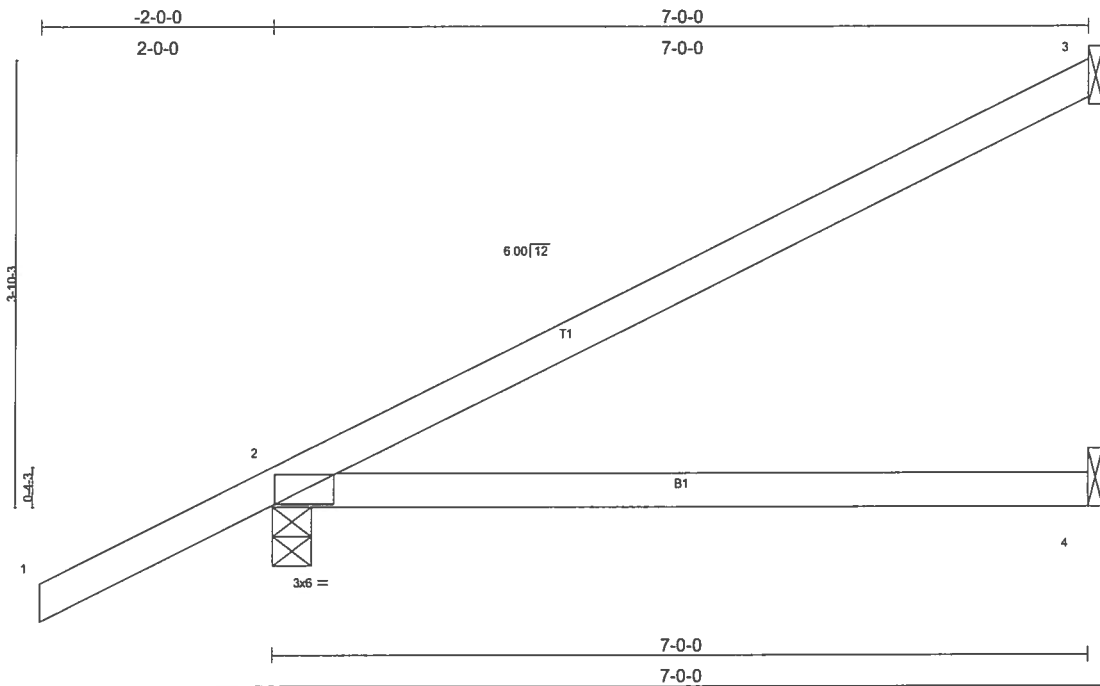
JOINT STRESS INDEX
2 = 0.15

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3 and 201 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L210383	Truss EJ7	Truss Type MONO TRUSS	Qty 30	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 Mitek Industries, Inc. Thu Sep 21 07:12:04 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.34	Vert(LL) -0.12 2-4 >674 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.00	Vert(TL) -0.20 2-4 >403 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) -0.00 3 n/a n/a		
	Code FBC2004/TPI2002			Weight: 26 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

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) 3=162/Mechanical, 2=420/0-4-0, 4=104/Mechanical
Max Horz 2=224(load case 5)
Max Uplift 3=133(load case 5), 2=211(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=-94/58
BOT CHORD 2-4=0/0

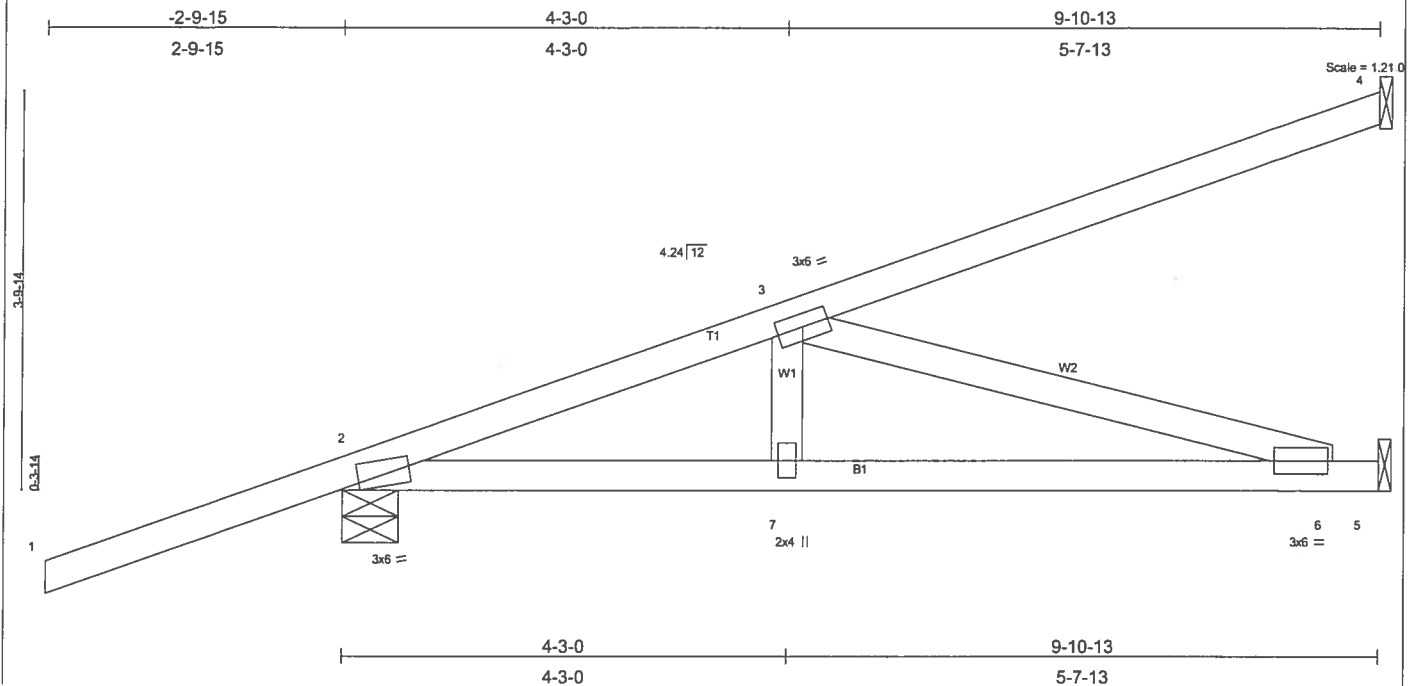
JOINT STRESS INDEX
2 = 0.50

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 3 and 211 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	0 0
L210383	HJ9	MONO TRUSS	3	1	Job Reference (optional)
Builders FirstSource, Lake City, Fl 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:05 2006 Page 1		



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	L/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.62	Vert(LL) -0.11 6-7	>999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.61	Vert(TL) -0.18 6-7	>623 180		
BCLL 10.0	Rep Stress Incr NO	WB 0.46	Horz(TL) 0.01 5	n/a n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)			Weight: 45 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) 4=270/Mechanical, 2=537/0-6-7, 5=372/Mechanical
Max Horz 2=270(load case 2)
Max Uplift 4=-232(load case 2), 2=-284(load case 2), 5=-61(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/50, 2-3=-877/116, 3-4=-105/66
 BOT CHORD 2-7=-305/810, 6-7=-305/810, 5-6=0/0
 WEBS 3-7=0/186, 3-6=-844/317

JOINT STRESS INDEX
2 = 0.77, 3 = 0.22, 6 = 0.24 and 7 = 0.14

NOTES

NOTES:

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4, 284 lb uplift at joint 2 and 61 lb uplift at joint 5.
- 4) 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: 1-2=-54
Trapezoidal Loads (plf)
Vert: 2=-4(F=25, B=25)-to 4=-134(F=40, B=40), 2=0(F=15, B=15)-to 5=-74(F=22, B=22)

SEPTEMBER 21, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Job	Truss	Truss Type	Qty	Ply	0 0
L210383	T01	GABLE	1	1	
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)
6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:07 2006 Page 1					

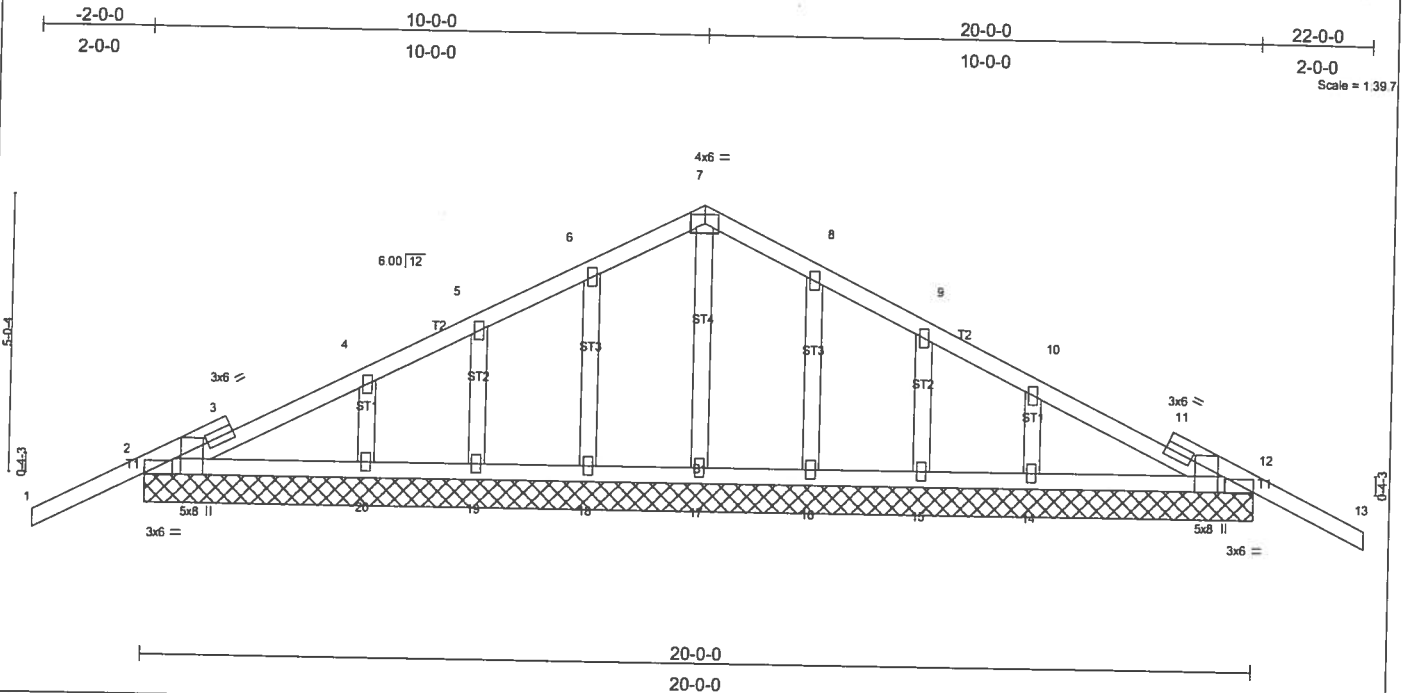


Plate Offsets (X,Y): [2:0-3.8,Edge], [2:0-0.8,Edge], [12:0-3.8,Edge], [12:0-0.8,Edge]											
LOADING (psf)		SPACING 2-0-0		CSI		DEFL				PLATES GRIP	
TCLL	20.0	Plates Increase	1.25	TC	0.49	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(LL)	-0.03	13	n/r		
BCLL	10.0	Rep Stress Incr	NO	WB	0.11	Vert(TL)	-0.05	13	n/r		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Horz(TL)	0.00	12	n/a	n/a	
										Weight: 102 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 OTHERS 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 6-0-0 oc bracing.

REACTIONS (lb/size) 2=520/20-0-0, 12=520/20-0-0, 17=323/20-0-0, 18=308/20-0-0, 19=221/20-0-0, 20=457/20-0-0, 16=308/20-0-0, 15=221/20-0-0, 14=457/20-0-0
 Max Horz 2=104(load case 5)
 Max Uplift 2=-276(load case 5), 12=-291(load case 6), 17=-12(load case 5), 18=-131(load case 5), 19=-127(load case 5), 20=-155(load case 5), 16=-130(load case 6), 15=-126(load case 6),
 14=-160(load case 6)
 Max Grav 2=522(load case 9), 12=522(load case 10), 17=323(load case 1), 18=312(load case 9), 19=221(load case 1), 20=458(load case 9), 16=312(load case 10), 15=221(load case 1),
 14=458(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=12/99, 2-3=67/38, 3-4=79/140, 4-5=21/88, 5-6=1/131, 6-7=9/185, 7-8=9/185, 8-9=1/131, 9-10=21/88, 10-11=38/140, 11-12=35/15, 12-13=12/99
BOT CHORD 2-20=47/134, 19-20=47/134, 18-19=47/134, 17-18=47/134, 16-17=47/134, 15-16=47/134, 14-15=47/134, 12-14=47/134
WEBS 7-17=266/23, 6-18=246/145, 5-19=183/134, 4-20=347/181, 8-16=246/143, 9-15=183/134, 10-14=347/185

JOINT STRESS INDEX
 2 = 0.66, 2 = 0.18, 3 = 0.00, 3 = 0.35, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.25, 8 = 0.34, 9 = 0.34, 10 = 0.34, 11 = 0.00, 11 = 0.35, 12 = 0.66, 12 = 0.18, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.34 and 20 = 0.34

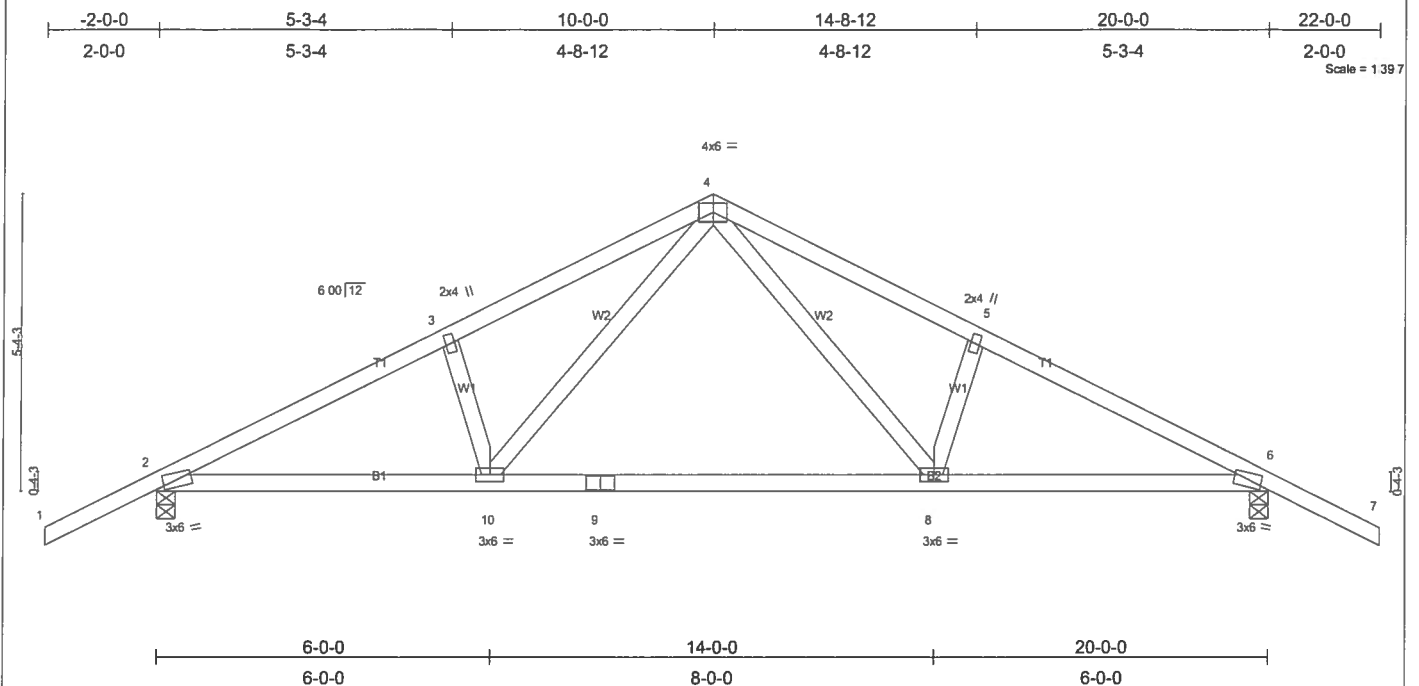
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDFL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MITek "Standard Gable End Detail"
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0" oc.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565,00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 2, 291 lb uplift at joint 12, 12 lb uplift at joint 17, 131 lb uplift at joint 18, 127 lb uplift at joint 19, 155 lb uplift at joint 20, 130 lb uplift at joint 16, 126 lb uplift at joint 15 and 160 lb uplift at joint 14.
- 9) 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: 1-7=-114(F=60), 7-13=-114(F=60), 2-12=-30

Job	Truss	Truss Type	Qty	Ply	0 0
L210383	T02	COMMON	8	1	
					Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6,300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:08 2006 Page 1		



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.34	Vert(LL) -0.32 8-10 >742 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.96	Vert(TL) -0.52 8-10 >455 180		
BCLL 10.0	Rep Stress Incr NO	WB 0.27	Horz(TL) 0.04 6 n/a n/a		
BCDL 5.0	Code FBC2004/TP1/2002	(Matrix)			
				Weight: 96 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 4-5-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 8-11-11 oc bracing.

REACTIONS (lb/size) 2=1143/0-4-0, 6=1143/0-4-0
Max Horz 2=-108(load case 6)
Max Uplift 2=-471(load case 5), 6=-471(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/47, 2-3=1890/579, 3-4=1797/633, 4-5=1797/634, 5-6=1890/579, 6-7=0/47
BOT CHORD 2-10=482/1611, 9-10=249/1052, 8-9=249/1052, 6-8=410/1611
WEBS 3-10=198/194, 4-10=287/836, 4-8=287/836, 5-8=198/195

JOINT STRESS INDEX
2 = 0.81, 3 = 0.34, 4 = 0.66, 5 = 0.34, 6 = 0.81, 8 = 0.58, 9 = 0.70 and 10 = 0.58

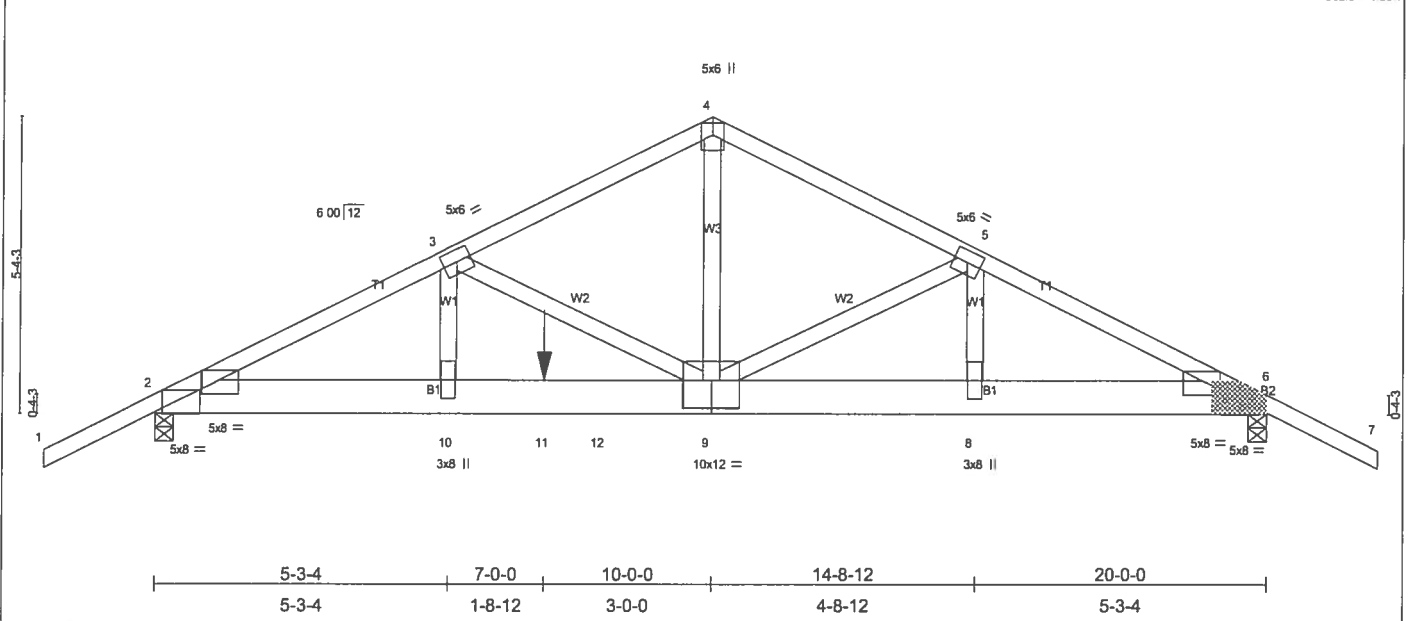
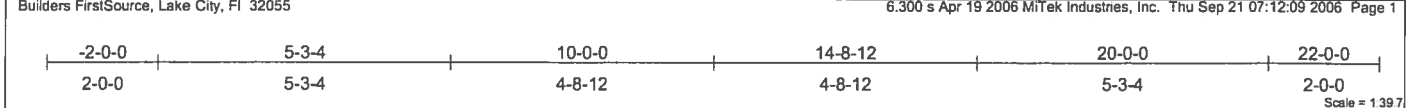
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); $h=20ft$; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior (I) zone; Lumbar 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 471 lb uplift at joint 2 and 471 lb uplift at joint 6.
5) 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: 1-4=-54, 4-7=-54, 2-10=-30, 8-10=-80(F=-50), 6-8=-30

Job L210383	Truss T03	Truss Type COMMON	Qty 1	Ply 2	0 0
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:09 2006 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.81	In (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.77	Vert(LL) -0.24 9-10 >986 240		
BCLL 10.0	Rep Stress Incr NO	WB 0.80	Vert(TL) -0.38 9-10 >616 180		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)	Horz(TL) 0.07 6 n/a n/a		
Weight: 271 lb					

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-14 oc purlins.
BOT CHORD 2 X 8 SYP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3 "Except"	
W3 2 X 4 SYP No.2	

REACTIONS (lb/size) 2=5976/0-4-0, 6=8506/0-5-0 (0-4-0 + bearing block)
 Max Horz 2=-112(load case 5)
 Max Uplift 2=-2297(load case 4), 6=-3252(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/54, 2-3=-12737/4664, 3-4=-10075/3767, 4-5=-10078/3768, 5-6=-14090/5182, 6-7=0/54
 BOT CHORD 2-10=-4149/11351, 10-11=-4149/11351, 11-12=-4149/11351, 9-12=-4149/11351, 8-9=-4552/12594, 6-8=-4552/12594
 WEBS 3-10=-745/2212, 3-9=-2699/1051, 4-9=-3186/8650, 5-9=-4108/1607, 5-8=-1321/3433

JOINT STRESS INDEX
 2 = 0.82, 2 = 0.75, 3 = 0.74, 4 = 0.91, 5 = 0.74, 6 = 0.82, 6 = 0.00, 6 = 0.00, 6 = 0.75, 8 = 0.56, 9 = 0.86 and 10 = 0.56

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 8 - 2 rows at 0-3-0 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.
- 2 X 8 SYP 2400F 2.0E bearing block 12" long at jt. 6 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SYP.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 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 2297 lb uplift at joint 2 and 3252 lb uplift at joint 6.
- Girder carries tie-in span(s): 39-8-0 from 8-0-0 to 20-0-0; 38-9-8 from 8-0-0 to 20-0-0
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3536 lb down and 1335 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-7=-54, 2-12=-30, 6-12=-796(F=-766)
 Concentrated Loads (lb)
 Vert: 11=-3536(F)

Job L210383	Truss T04	Truss Type HIP	Qty 1	Ply 2	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 Mitek Industries, Inc. Thu Sep 21 07:12:11 2006 Page 1		

-2-0-0	3-9-4	7-0-0	12-0-9	16-11-6	21-10-2	26-8-15	31-9-8	35-0-4	38-9-8	40-9-8
2-0-0	3-9-4	3-2-12	5-0-9	4-10-13	4-10-13	4-10-13	5-0-9	3-2-12	3-9-4	2-0-0
Scale = 1:17.17										

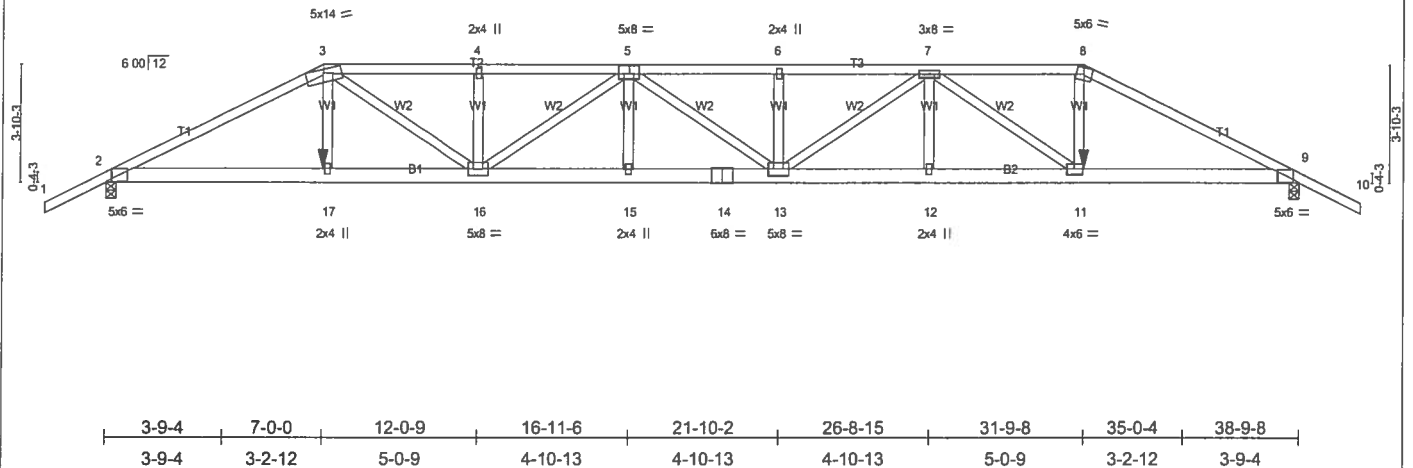


Plate Offsets (X,Y): [2:0-3-0,0-2-9], [5:0-4-0,0-3-0], [9:0-3-0,0-2-9]										
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plates Increase	1.25	TC 0.44	Vert(LL)	-0.45 13-15	>999	240	MT20	244/190	
TCDL 7.0	Lumber Increase	1.25	BC 0.60	Vert(TL)	-0.73 13-15	>634	180			
BCLL 10.0	Rep Stress Incr	NO	WB 0.51	Horz(TL)	0.14 9	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 454 lb

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins.
BOT CHORD 2 X 6 SYP No.1D	BOT CHORD Rigid ceiling directly applied or 8-9-8 oc bracing.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size)	2=3481/0-4-0, 9=3481/0-4-0
Max Horz 2=-89(load case 5)	
Max Uplift 2=-1454(load case 4), 9=-1454(load case 5)	

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/51, 2-3=-6922/2965, 3-4=-8677/3847, 4-5=-8676/3847, 5-6=-9920/4386, 6-7=-9920/4386, 7-8=-6192/2719, 8-9=-6900/2953, 9-10=0/51
BOT CHORD	2-17=-2605/6104, 16-17=-2615/6139, 15-16=-4338/9985, 14-15=-4338/9985, 13-14=-3753/8729, 11-12=-3753/8729, 9-11=-2555/6083
WEBS	3-17=-234/841, 3-16=-1470/3166, 4-16=-583/489, 5-16=-1628/734, 5-15=0/384, 5-13=-119/63, 6-13=-555/453, 7-13=-660/1487, 7-12=0/374, 7-11=-3194/1488, 8-11=-1041/2621

JOINT STRESS INDEX	
2 = 0.82, 3 = 0.82, 4 = 0.34, 5 = 0.63, 6 = 0.34, 7 = 0.77, 8 = 0.65, 9 = 0.82, 11 = 0.60, 12 = 0.34, 13 = 0.34, 14 = 0.97, 15 = 0.34, 16 = 0.73 and 17 = 0.34	

- 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; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
 - Provide adequate drainage to prevent water ponding.
 - 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 1454 lb uplift at joint 2 and 1454 lb uplift at joint 9.
 - Girder carries hip end with 7-0-0 end setback.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 31-9-8, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard	
1) Regular: Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-3=-54, 3-8=-117(F=-63), 8-10=-54, 2-17=-30, 11-17=-65(F=-35), 9-11=-30	
Concentrated Loads (lb)	
Vert: 17=-539(F) 11=-539(F)	

Job L210383	Truss T05	Truss Type HIP	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:12 2006 Page 1		

-2-0-0	4-9-4	9-0-0	15-11-12	22-9-12	29-9-8	34-0-4	38-9-8	40-9-8
2-0-0	4-9-4	4-2-12	6-11-12	6-10-0	6-11-12	4-2-12	4-9-4	2-0-0

Scale = 1:71.7

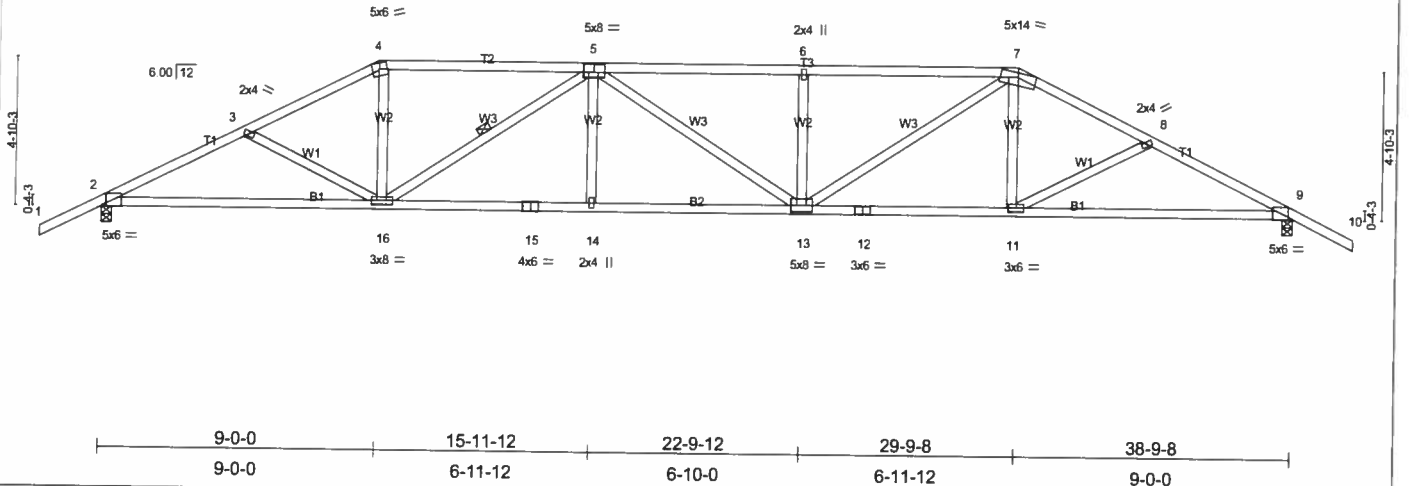


Plate Offsets (X,Y): [2:0-1-11,Edge], [5:0-4-0,0-3-0], [9:0-1-11,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Vert(LL)	-0.37 13-14	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.89	Vert(TL)	-0.60 13-14	>774	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.52	Horz(TL)	0.18 9	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)						
	Code FBC2004/TPI2002							

Weight: 200 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 3-1-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-3-5 oc bracing.
 WEBS 1 Row at midpt 5-16

REACTIONS (lb/size) 2=1732/0-4-0, 9=1732/0-4-0
 Max Horz 2=-101(load case 6)
 Max Uplift 2=-571(load case 5), 9=-571(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=-2993/870, 3-4=-2792/850, 4-5=-2488/800, 5-6=-3339/1108, 6-7=-3339/1108, 7-8=-2791/851, 8-9=-2994/870, 9-10=0/47
 BOT CHORD 2-16=-759/2613, 15-16=-1016/3341, 14-15=-1016/3341, 13-14=-1016/3340, 12-13=-644/2469, 11-12=-644/2469, 9-11=-703/2614
 WEBS 3-16=-177/179, 4-16=-187/901, 5-16=-1102/448, 5-14=0/193, 5-13=-67/65, 6-13=-380/266, 7-13=-453/1117, 7-11=-27/335, 8-11=-179/180

JOINT STRESS INDEX

2 = 0.75, 3 = 0.34, 4 = 0.65, 5 = 0.52, 6 = 0.34, 7 = 0.83, 8 = 0.34, 9 = 0.75, 11 = 0.35, 12 = 0.87, 13 = 0.52, 14 = 0.34, 15 = 0.99 and 16 = 0.57

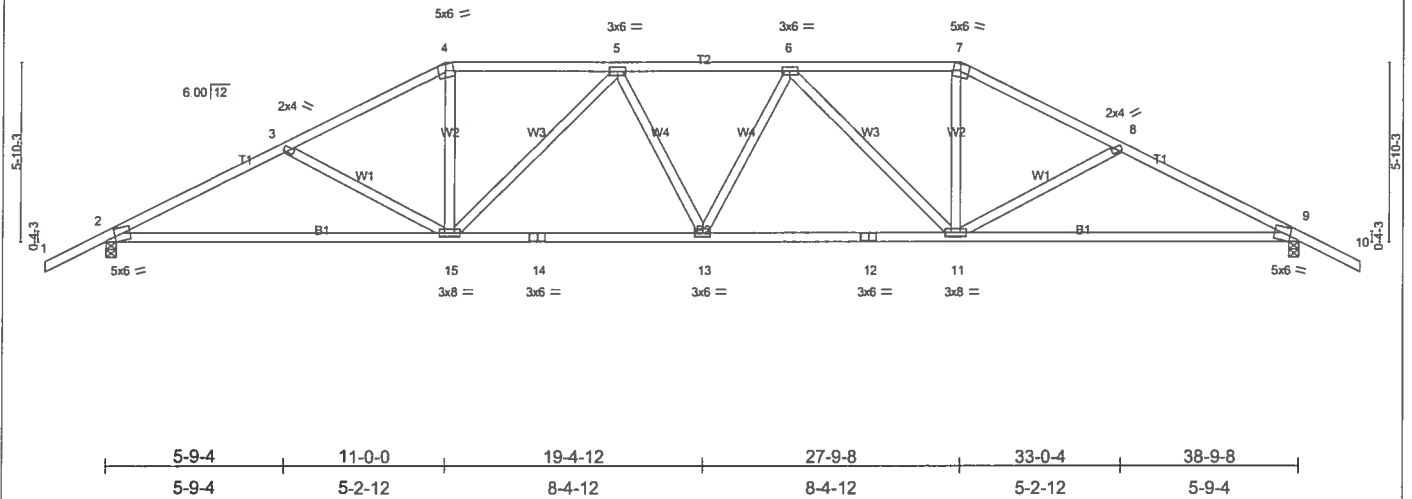
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 571 lb uplift at joint 2 and 571 lb uplift at joint 9.

LOAD CASE(S) Standard

Job L210383	Truss T06	Truss Type HIP	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055					
6.300 s Apr 19 2006 Mitek Industries, Inc. Thu Sep 21 07:12:13 2006 Page 1					

-2-0-0	5-9-4	11-0-0	16-7-3	22-2-5	27-9-8	33-0-4	38-9-8	40-9-8
2-0-0	5-9-4	5-2-12	5-7-3	5-7-3	5-7-3	5-2-12	5-9-4	2-0-0
Scale = 1/17.7								



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.49	Vert(LL)	-0.41	2-15	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.98	Vert(TL)	-0.70	2-15	>663	180		
BCLL 10.0	Rep Stress Incr	YES	WB 0.71	Horz(TL)	0.17	9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
Weight: 199 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 3-1-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 2=1732/0-4-0, 9=1732/0-4-0
 Max Horz 2=115(load case 5)
 Max Uplift 2=-590(load case 5), 9=-590(load case 6)

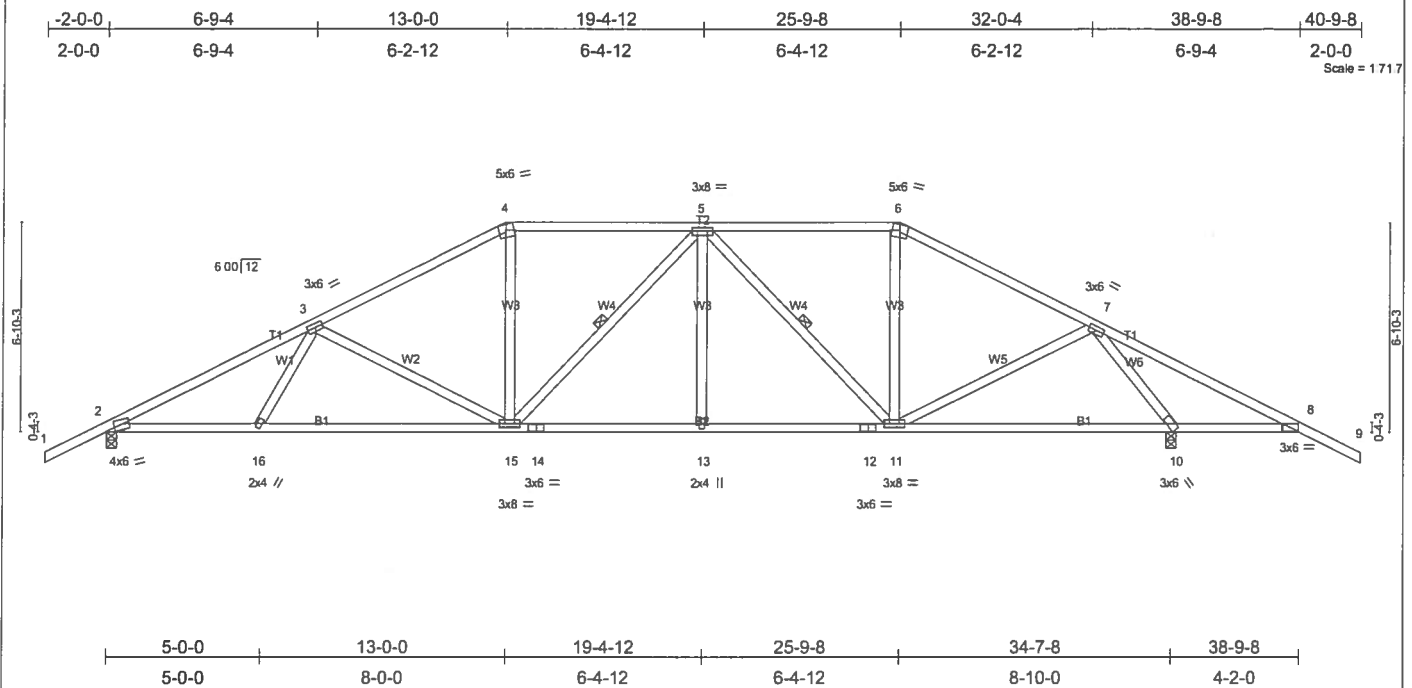
FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-2948/831, 3-4=-2647/751, 4-5=-2330/717, 5-6=-2777/859, 6-7=-2330/717, 7-8=-2647/751, 8-9=-2948/832, 9-10=0/47
 BOT CHORD 2-15=-706/2579, 14-15=-742/2725, 13-14=-742/2725, 12-13=-714/2725, 11-12=-714/2725, 9-11=-620/2579
 WEBS 3-15=-313/260, 4-15=-162/868, 5-15=-662/316, 5-13=-8/178, 6-13=-8/178, 6-11=-662/316, 7-11=-162/868, 8-11=-313/260

JOINT STRESS INDEX
 2 = 0.89, 3 = 0.34, 4 = 0.52, 5 = 0.46, 6 = 0.46, 7 = 0.52, 8 = 0.34, 9 = 0.89, 11 = 0.57, 12 = 0.92, 13 = 0.46, 14 = 0.92 and 15 = 0.57

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 590 lb uplift at joint 2 and 590 lb uplift at joint 9.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	0 0
L210383	T07	HIP	1	1	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:14 2006 Page 1		



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.37	Vert(LL) -0.21 15-16 >999 240	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.62	Vert(TL) -0.35 15-16 >999 180		
BCLL 10.0	Rep Stress Incr YES	WB 0.69	Horz(TL) 0.10 10 n/a n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)			
				Weight: 213 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 3-6-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-15, 5-11

REACTIONS (lb/size) 2=1537/0-4-0, 10=1932/0-4-0
Max Horz 2=129(load case 5)
Max Uplift2=-561(load case 5), 10=-671(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=-2697/717, 3-4=-2033/605, 4-5=-1763/600, 5-6=-1392/440, 6-7=-1627/447, 7-8=-547/694, 8-9=0/47
 BOT CHORD 2-16=613/2322, 17-16=-637/2202, 14-15=-445/1813, 13-14=-445/1813, 12-13=-445/1813, 11-12=-445/1813, 10-11=-129/725, 8-10=-547/617
 WEBS 3-16=0/252, 3-15=-514/310, 4-15=0/532, 5-15=-219/156, 5-13=0/154, 5-11=-662/259, 6-11=-46/420, 7-11=-218/740, 7-10=-2092/892

2 = 0.88, 3 = 0.41, 4 = 0.60, 5 = 0.57, 6 = 0.56, 7 = 0.68, 8 = 0.58, 10 = 0.77, 11 = 0.70, 12 = 0.77, 13 = 0.34, 14 = 0.75, 15 = 0.57 and 16 = 0.34

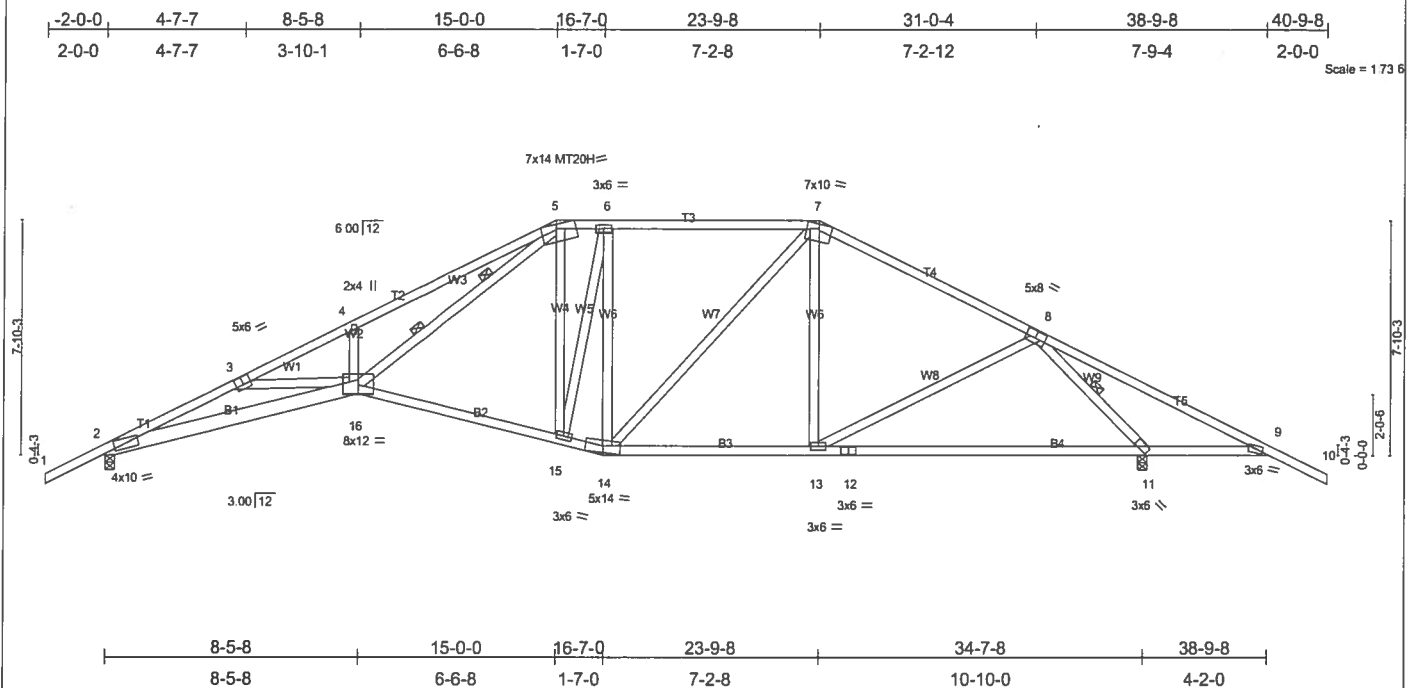
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCFL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS: gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 561 lb uplift at joint 2 and 671 lb uplift at joint 10.

LOAD CASE(S) Standard

**SEPTEMBER 21, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**

Job L210383	Truss T08	Truss Type SPECIAL	Qty 1	Ply 1	0 0 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc Thu Sep 21 07:12:15 2006 Page 1		



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.81	Vert(LL) 0.86 15-16 >485 240	MT20	244/190
BCDL 7.0	Lumber Increase 1.25	BC 0.71	Vert(TL) -0.78 15-16 >534 180	MT20H	187/143
TCLL 10.0	Rep Stress Incr YES	WB 0.79	Horz(TL) 0.32 11 n/a n/a		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)			
					Weight: 234 lb

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1 2 X 6 SYP No.1D
WEBS
2 X 4 SYP No.3 *Except*
W3 2 X 4 SYP No.2

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-3-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 3-10-10 oc bracing.
WEBS	
	1 Row at midpt 8-11
	2 Rows at 1/3 pts 5-16

REACTIONS (lb/size) 2=1539/0-4-0, 11=1931/0-4-0
Max Horz 2=-145(load case 6)
Max Uplift2=-784(load case 6), 11=-1228(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-4889/4836, 3-4=-4645/4769, 4-5=-4698/4880, 5-6=-1683/1824, 6-7=-1605/1704, 7-8=-1647/1507, 8-9=-543/683, 9-10=0/47
BOT CHORD 2-16=-4209/4436, 15-16=-1421/1753, 14-15=-1408/1665, 13-14=-1053/1395, 12-13=-633/976, 11-12=-633/976, 9-11=-528/624
WEBS 3-16=-154/203, 4-16=-303/285, 5-16=-3348/3161, 5-15=-208/201, 6-15=-620/412, 6-14=-630/676, 7-14=-434/394, 7-13=-130/113, 8-13=-471/481, 8-11=-2185/1828

JOINT STRESS INDEX
2 = 0.84, 3 = 1.00, 4 = 0.34, 5 = 0.85, 6 = 0.53, 7 = 0.76, 8 = 0.75, 9 = 0.91, 11 = 0.84, 12 = 0.50, 13 = 0.35, 14 = 0.51, 15 = 0.52 and 16 = 0.82

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDFL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; cantilever right exposed; porch 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 555.00 psi
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 784 lb uplift at joint 2 and 1228 lb uplift at joint 11.

LOAD CASE(S) Standard

**SEPTEMBER 21, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549**

Job	Truss	Truss Type	Qty	Ply	0 0
L210383	T09	SPECIAL	1	1	
Builders FirstSource, Lake City, FL 32055					
6.300 s Apr 19 2006 Mitek Industries, Inc. Thu Sep 21 07:12:16 2006 Page 1					

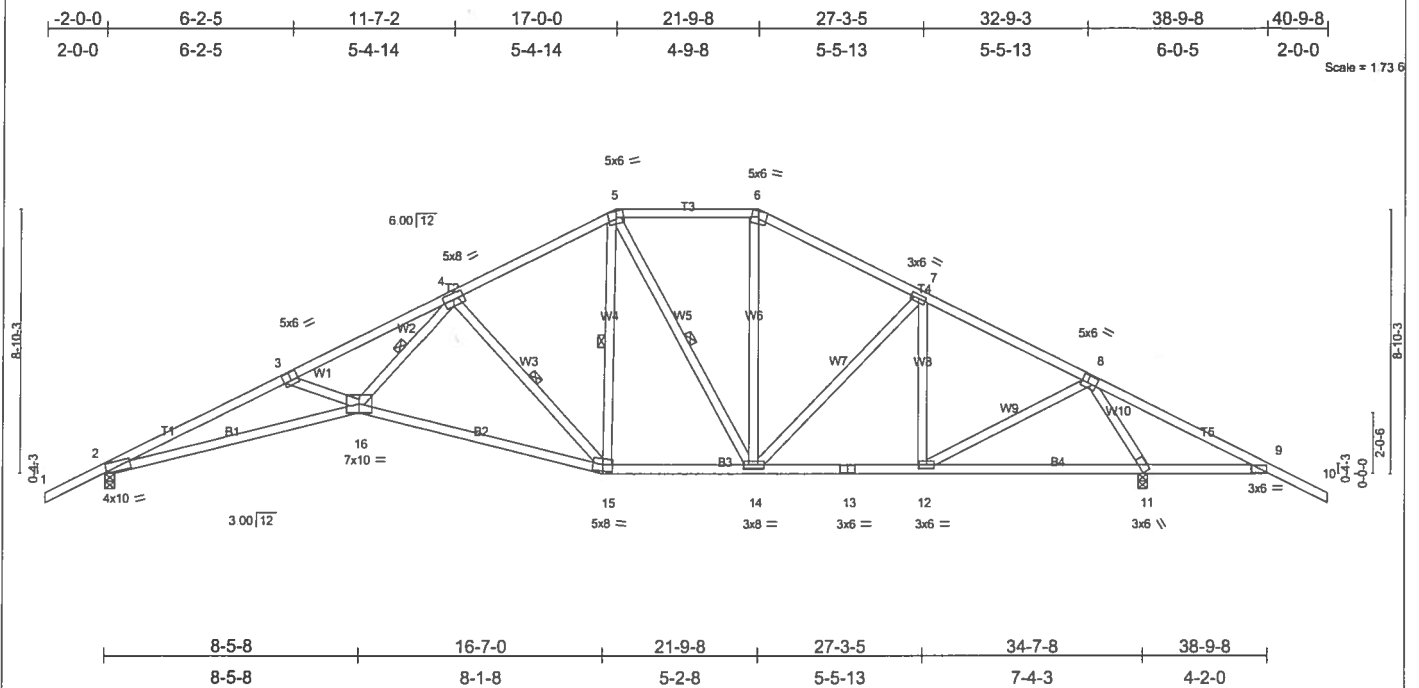


Plate Offsets (X,Y): [2-0-0-14,Edge], [3-0-3-0,0-3-4], [8-0-2-4,0-3-0]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.94	Vert(LL) 0.93 15-16 >447 240		
BCLL 10.0	Rep Stress Incr YES	WB 0.81	Vert(TL) 0.76 15-16 >545 180		
BCDL 5.0	Code FBC2004/TP12002	(Matrix)	Horz(TL) 0.32 11 n/a n/a		
Weight: 223 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 2-5-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-16, 4-15, 5-15, 5-14

REACTIONS (lb/size) 2=1536/0-4-0, 11=1934/0-4-0
 Max Horz 2=157(load case 5)
 Max Uplift 2=795(load case 6), 11=1245(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/46, 2-3=4750/4743, 3-4=4463/4681, 4-5=1672/1722, 5-6=1301/1346, 6-7=1515/1452, 7-8=1556/1372, 8-9=629/701, 9-10=0/47
 BOT CHORD 2-16=4114/4297, 15-16=2101/2422, 14-15=1160/1414, 13-14=979/1330, 12-13=979/1330, 11-12=223/512, 9-11=560/687
 WEBS 3-16=233/262, 4-16=2870/2533, 4-15=1345/1394, 5-15=988/657, 5-14=340/420, 6-14=495/388, 7-14=102/151, 7-12=241/160, 8-12=861/931, 8-11=2018/1716

JOINT STRESS INDEX
 2 = 0.82, 3 = 0.98, 4 = 0.75, 5 = 0.39, 6 = 0.43, 7 = 0.41, 8 = 0.76, 9 = 0.34, 11 = 0.63, 12 = 0.54, 13 = 0.51, 14 = 0.61, 15 = 0.59 and 16 = 0.81

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 gable end zone and C-C Interior(1) zone; cantilever right exposed; porch 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.
- Provide adequate drainage to prevent water ponding.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 795 lb uplift at joint 2 and 1245 lb uplift at joint 11.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	0 0
L210383	T10	SPECIAL	1	1	
Builders FirstSource, Lake City, Fl 32055					Job Reference (optional)
					6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:18 2006 Page 1

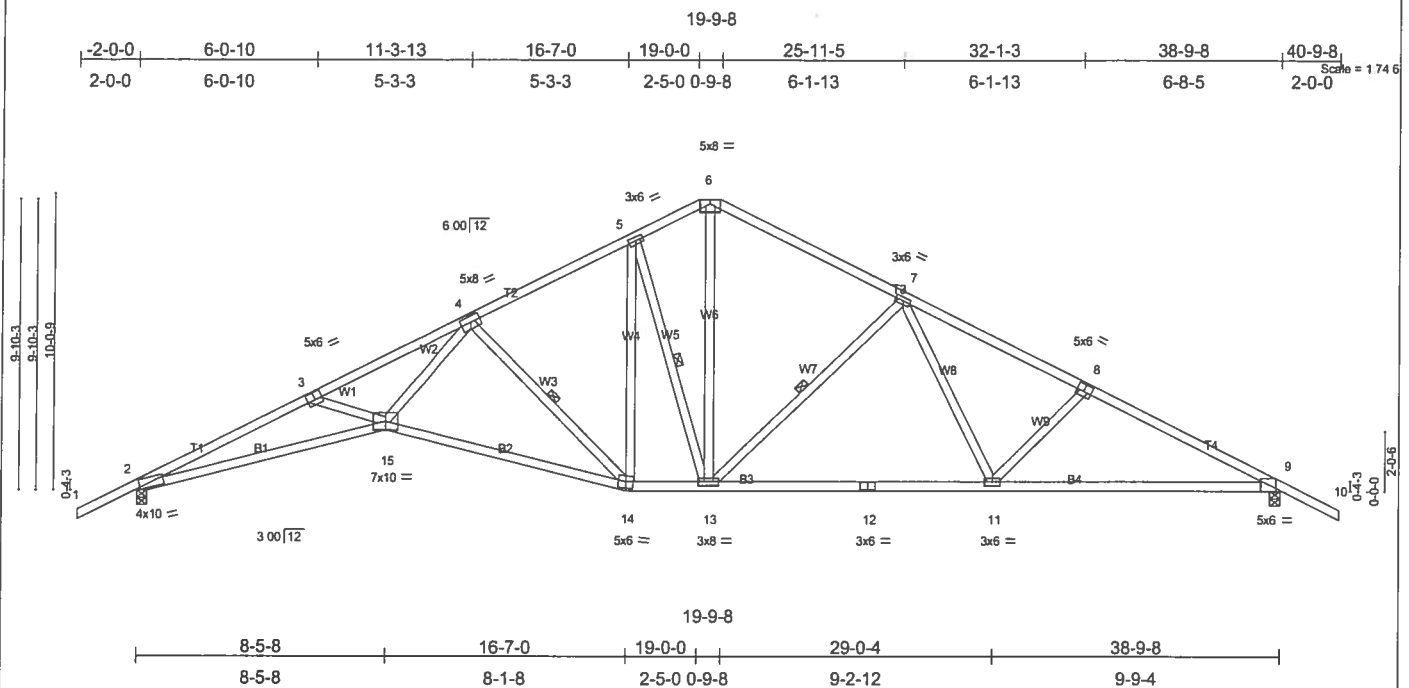


Plate Offsets (X,Y): [2:0-1-6,Edge], [3:0-3-0,0-3-0], [8:0-3-0,0-3-0], [9:0-1-11,Edge]													
LOADING (psf)		SPACING 2-0-0		CSI		DEFL				PLATES		GRIP	
TCLL	20.0	Plates Increase		1.25	TC	0.66	in (loc)	l/defl	L/d	MT20	244/190		
TCOL	7.0	Lumber Increase		1.25	EC	0.80	Vert(LL)	-0.57 14-15	>805	240			
BCLL	10.0	Rep Stress Incr		YES	WB	0.92	Vert(TL)	-0.93 14-15	>498	180			
BCOL	5.0	Code FBC2004/TPJ2002			(Matrix)		Horz(TL)	0.41 9	n/a	n/a			
											Weight: 220 lb		

LUMBER		BRACING	
TOP CHORD	2 X 4 SYP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	2 X 4 SYP No.2 "Except"	BOT CHORD	Rigid ceiling directly applied or 5-2-4 oc bracing.
	B1 2 X 4 SYP No.1D	WEBS	1 Row at midpt 4-14, 5-13, 7-13
WEBS	2 X 4 SYP No.3		

REACTIONS (lb/size) 2=1732/0-4-0, 9=1732/0-4-0
Max Horz 2=-174(load case 6)
Max Uplift2=-650(load case 5), 9=-650(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/46, 2-3=5531/1776, 3-4=5268/1634, 4-5=2116/738, 5-6=1820/700, 6-7=1886/687, 7-8=2733/888, 8-9=2961/938, 9-10=0/47
 BOT CHORD 2-15=1651/5007, 14-15=893/3020, 13-14=429/1188, 12-13=492/2121, 11-12=492/2121, 9-11=679/2581
 WEBS 3-15=210/249, 4-15=819/2860, 4-14=1579/632, 5-14=229/582, 5-13=714/368, 7-13=715/402, 7-11=146/600, 8-11=307/267,
 6-13=480/1326

2 = 0.85, 3 = 0.65, 4 = 0.83, 5 = 0.47, 6 = 0.60, 7 = 0.41, 8 = 0.54, 9 = 0.75, 11 = 0.51, 12 = 0.96, 13 = 0.67, 14 = 0.84 and 15 = 0.95

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110 mph (3-second gust); $h=20ft$; $TCDF=4.2psf$; $BCDL=3.0psf$; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 555.00 psi
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 650 lb uplift at joint 2 and 650 lb uplift at joint 9.

LOAD CASE(S) Standard

**SEPTEMBER 21, 2006 TRUSS DESIGN ENGINEER:
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B. LUTZ, FL 33549**

Job L210383	Truss T11	Truss Type MONO HIP	Qty 1	Ply 2	0 0	Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:19 2006 Page 1			

-2-0-0 3-9-4 7-0-0 12-4-12 17-7-12 22-10-12 28-1-12 33-4-12 38-9-8
 2-0-0 3-9-4 3-2-12 5-4-12 5-3-0 5-3-0 5-3-0 5-3-0 5-4-12

Scale = 1/70

3-9-4 7-0-0 12-4-12 17-7-12 22-10-12 28-1-12 33-4-12 38-9-8
 3-9-4 3-2-12 5-4-12 5-3-0 5-3-0 5-3-0 5-3-0 5-4-12

Plate Offsets (X,Y): [2:0-3-0,0-2-9], [6:0-3-0,0-3-0]										
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plates Increase	1.25	TC 0.51	Vert(LL)	-0.45	13-15	>999	240	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.60	Vert(TL)	-0.72	13-15	>644	180		
BCCL 10.0	Rep Stress Incr	NO	WB 0.88	Horz(TL)	0.12	10	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)							
Weight: 475 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	BRACING TOP CHORD Structural wood sheathing directly applied or 4-0-11 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 8-8-0 oc bracing.
---	---

REACTIONS (lb/size) 10=3536/Mechanical, 2=3449/0-4-0
 Max Horz 2=228(load case 4)
 Max Uplift 10=1593(load case 3), 2=1431(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/51, 2-3=6860/2969, 3-4=8711/3913, 4-5=8711/3914, 5-6=9562/4302, 6-7=9562/4302, 7-8=4681/2104, 8-9=4681/2104, 9-10=3318/1582
 BOT CHORD 2-17=2692/6049, 16-17=2701/6085, 15-16=4459/9915, 14-15=4459/9915, 13-14=4459/9915, 12-13=3560/7899, 11-12=3560/7899, 10-11=74/130
 WEBS 3-17=230/852, 3-16=1494/3120, 4-16=601/526, 5-16=1444/667, 5-15=0/402, 5-13=422/196, 6-13=596/494, 7-13=890/1995, 7-12=0/402, 7-11=3858/1745, 8-11=612/512, 9-11=2434/5457

JOINT STRESS INDEX
 2 = 0.82, 3 = 0.81, 4 = 0.34, 5 = 0.57, 6 = 0.58, 7 = 0.95, 8 = 0.34, 9 = 0.88, 10 = 0.39, 11 = 0.77, 12 = 0.34, 13 = 0.46, 14 = 0.92, 15 = 0.34, 16 = 0.72 and 17 = 0.34

NOTES
 1) 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.
 2) 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.
 3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
 4) Provide adequate drainage to prevent water ponding.
 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 1593 lb uplift at joint 10 and 1431 lb uplift at joint 2.
 7) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 7-0-0 on bottom chord.
 The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert 1-3=-54, 3-9=-117(F=-63), 2-17=-30, 10-17=-65(F=-35)
 Concentrated Loads (lb)
 Vert 17=539(F)

Job L210383	Truss T12	Truss Type MONO HIP	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6,300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:20 2006 Page 1		

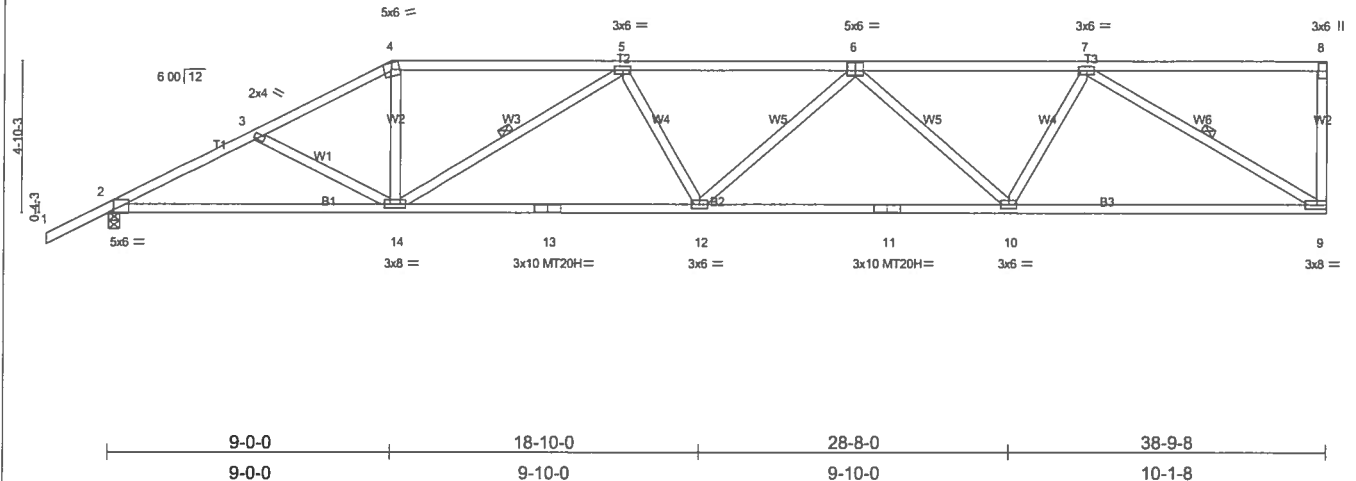
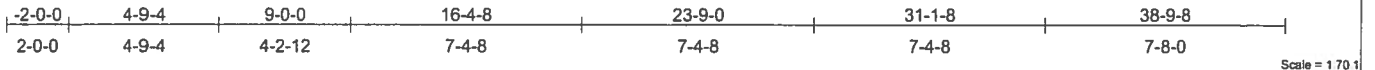


Plate Offsets (X,Y): [2:0-1-11,Edge], [6:0-3-0,0-3-0]									
LOADING (psf)		SPACING 2-0-0		CSI		DEFL		PLATES GRIP	
TCLL	20.0	Plates Increase	1.25	TC	0.77	in (loc)	l/defl	L/d	
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(LL)	-0.40 10-12	>999	240
BCLL	10.0	Rep Stress Incr	YES	WB	0.94	Vert(TL)	-0.66 10-12	>704	180
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Horz(TL)	0.18 9	n/a	n/a
								Weight: 199 lb	
								MT20 244/190	
								MT20H 187/143	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 5-8-5 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 5-14, 7-9

REACTIONS (lb/size) 9=1613/Mechanical, 2=1736/0-4-0
 Max Horz 2=272(load case 5)
 Max Uplift 9=599(load case 4), 2=564(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=3009/933, 3-4=2815/916, 4-5=2510/861, 5-6=3425/1214, 6-7=2650/940, 7-8=90/21, 8-9=197/130
 BOT CHORD 2-14=908/2625, 13-14=1240/3356, 12-13=1240/3356, 11-12=1223/3249, 10-11=1223/3249, 9-10=834/2187
 WEBS 3-14=162/178, 4-14=209/900, 5-14=1000/489, 5-12=0/145, 6-12=21/239, 6-10=817/386, 7-10=222/976, 7-9=2452/950

JOINT STRESS INDEX
 2 = 0.76, 3 = 0.34, 4 = 0.69, 5 = 0.45, 6 = 0.64, 7 = 0.79, 8 = 0.59, 9 = 0.67, 10 = 0.79, 11 = 0.85, 12 = 0.45, 13 = 0.91 and 14 = 0.57

NOTES
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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.
 2) Provide adequate drainage to prevent water ponding.
 3) All plates are MT20 plates unless otherwise indicated.
 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 599 lb uplift at joint 9 and 564 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L210383	Truss T13	Truss Type HIP	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 M/Tek Industries, Inc. Thu Sep 21 07:12:21 2006 Page 1		

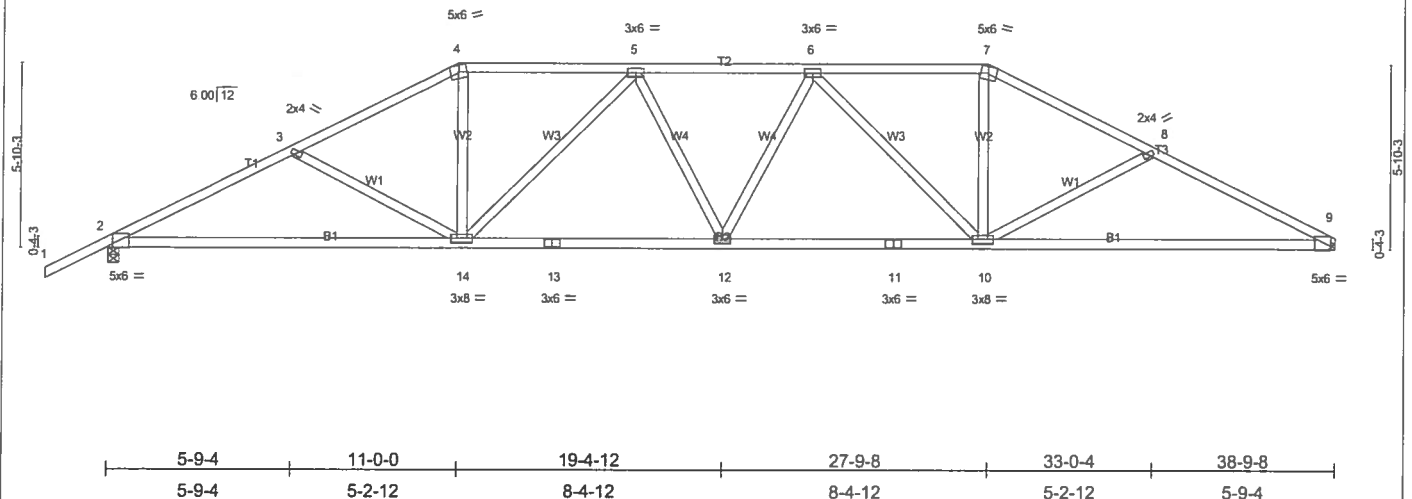
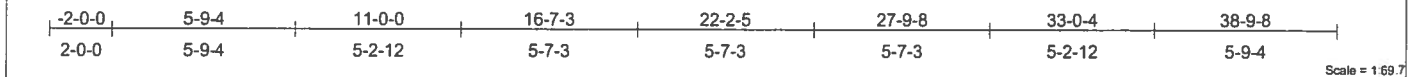


Plate Offsets (X,Y): [2-0-1-11,Edge], [9-0-1-11,Edge]										
LOADING (psf)		SPACING 2-0-0		CSI		DEFL		PLATES		GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	in (loc)	V/defl	L/d	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(LL)	-0.42 9-10	>999	240	
BCLL	10.0	Rep Stress Incr	YES	WB	0.71	Vert(TL)	-0.70 9-10	>658	180	
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)		Horz(TL)	0.15 9	n/a	n/a	
									Weight: 196 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-13 oc purlins.
BOT CHORD 2 X 4 SYP No.1D "Except"	BOT CHORD Rigid ceiling directly applied or 7-2-6 oc bracing.
B2 2 X 4 SYP No.2	
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 9=1613/Mechanical, 2=1736/0-4-0
 Max Horz 2=140(load case 5)
 Max Uplift 9=464(load case 6), 2=591(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/47, 2-3=2956/836, 3-4=2657/763, 4-5=2339/728, 5-6=2791/878, 6-7=2353/748, 7-8=2674/788, 8-9=2991/884
 BOT CHORD 2-14=734/2586, 13-14=779/2737, 12-13=779/2737, 11-12=753/2743, 10-11=753/2743, 9-10=722/2626
 WEBS 3-14=310/261, 4-14=167/872, 5-14=666/318, 5-12=10/182, 6-12=5/175, 6-10=659/312, 7-10=187/886, 8-10=340/293

JOINT STRESS INDEX
 2 = 0.81, 3 = 0.34, 4 = 0.52, 5 = 0.46, 6 = 0.46, 7 = 0.52, 8 = 0.34, 9 = 0.81, 10 = 0.57, 11 = 0.92, 12 = 0.46, 13 = 0.92 and 14 = 0.57

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 464 lb uplift at joint 9 and 591 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L210383	Truss T14	Truss Type HIP	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:22 2006 Page 1		

-2-0-0	6-9-4	13-0-0	19-4-12	25-9-8	32-0-4	38-9-8
2-0-0	6-9-4	6-2-12	6-4-12	6-4-12	6-2-12	6-9-4

Scale = 1/69.7

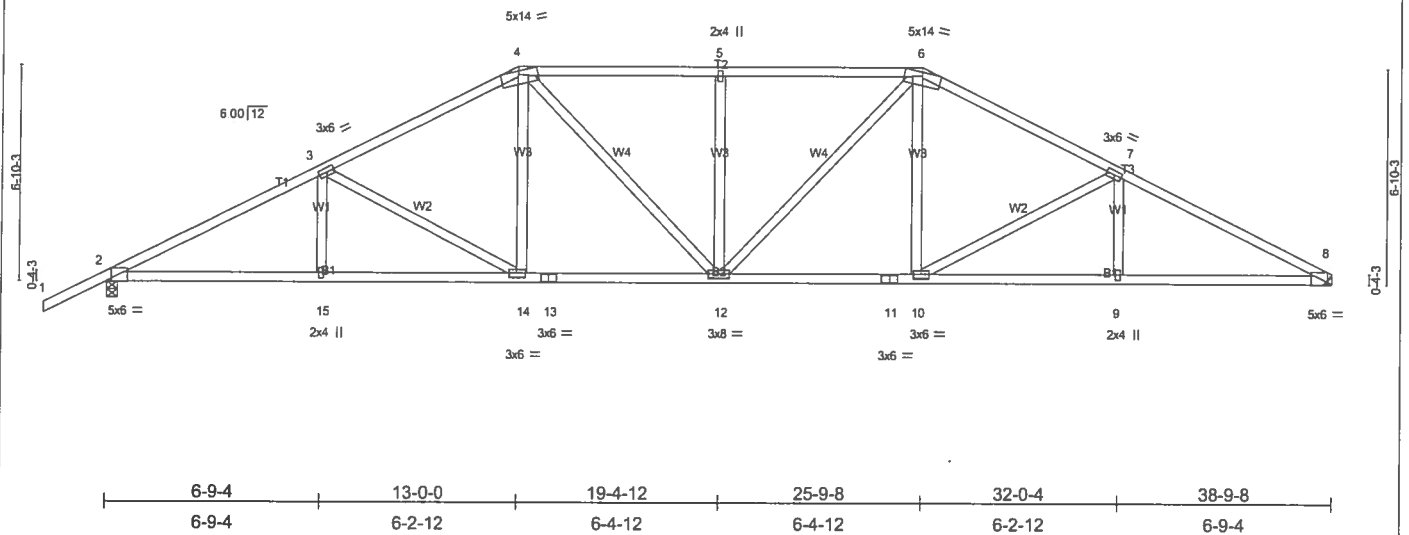


Plate Offsets (X,Y): [2:0-1-11,Edge], [8:0-1-11,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	TC (LL)	-0.25 10-12	>999	240	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.72	Vert(TL)	-0.40 10-12	>999	180		
BCLL 10.0	Lumber Increase 1.25	WB 0.56	Horz(TL)	0.16 8	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	(Matrix)						
	Code FBC2004/TP12002							
							Weight: 207 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 3-2-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.

REACTIONS

(lb/size) 8=1613/Mechanical, 2=1736/0-4-0
 Max Horz 2=154(load case 5)
 Max Uplift 8=481(load case 6), 2=608(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/47, 2-3=3043/837, 3-4=2461/736, 4-5=2403/786, 5-6=2403/786, 6-7=2469/748, 7-8=3082/888
 BOT CHORD 2-15=744/2633, 14-15=744/2633, 13-14=506/2142, 12-13=506/2142, 11-12=478/2149, 10-11=478/2149, 9-10=704/2674, 8-9=704/2674
 WEBS 3-15=0/209, 3-14=574/294, 4-14=104/461, 4-12=212/507, 5-12=356/256, 6-12=208/499, 6-10=119/475, 7-10=613/339, 7-9=0/226

JOINT STRESS INDEX

2 = 0.77, 3 = 0.41, 4 = 0.86, 5 = 0.34, 6 = 0.86, 7 = 0.41, 8 = 0.77, 9 = 0.34, 10 = 0.35, 11 = 0.75, 12 = 0.57, 13 = 0.75, 14 = 0.35 and 15 = 0.34

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 481 lb uplift at joint 8 and 608 lb uplift at joint 2.

LOAD CASE(S) Standard

Job L210383	Truss T15	Truss Type SPECIAL	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055					
Job Reference (optional) 6,300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:23 2006 Page 1					

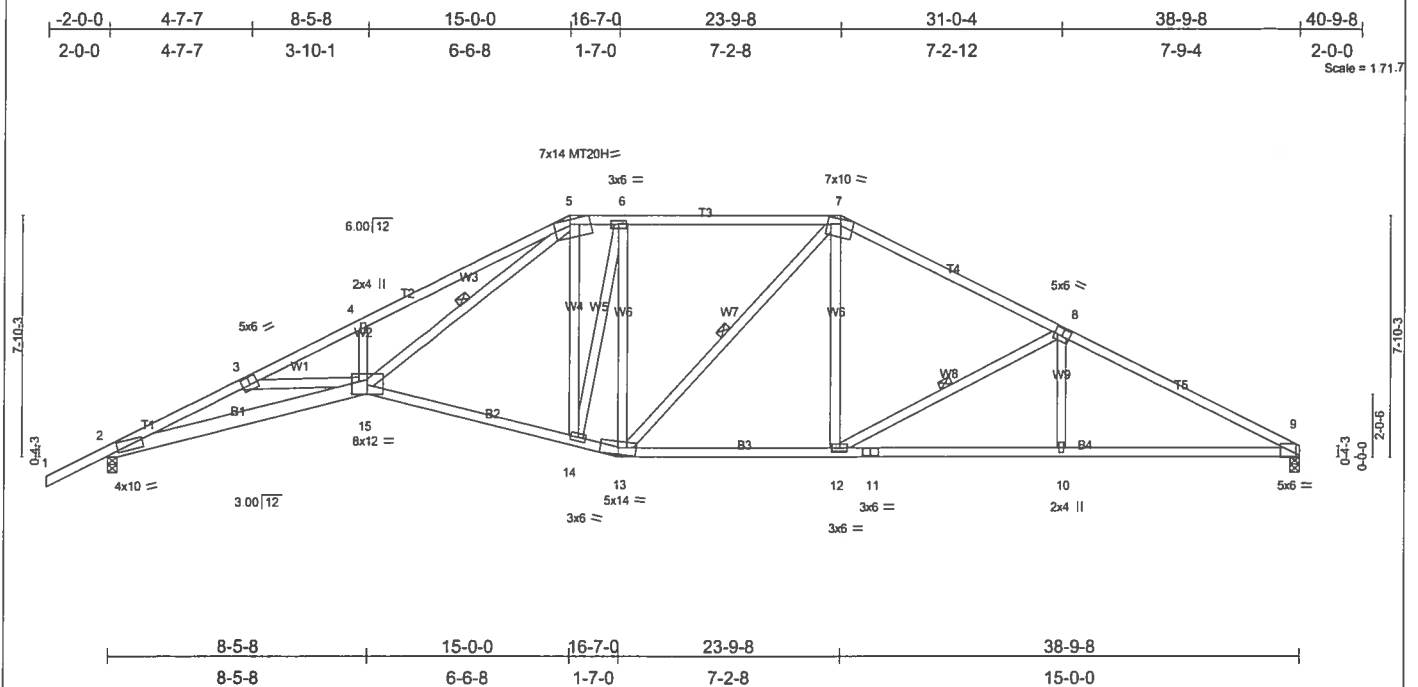


Plate Offsets (X,Y): [3:0-3-0,0-3-0], [5:0-6-3,Edge], [8:0-3-0,0-3-0], [9:0-1-10,Edge], [15:0-6-0,0-3-10]					
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	PLATES
TCLL 20.0	Plates Increase	1.25	TC 0.96	in (loc) l/defi L/d	GRIP
TCDL 7.0	Lumber Increase	1.25	BC 0.77	Vert(LL) -0.61 14-15 >760 240	MT20 244/190
BCLL 10.0	Rep Stress Incr	YES	WB 0.66	Vert(TL) -0.97 14-15 >474 180	MT20H 187/143
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)	Horz(TL) 0.42 9 n/a n/a	
Weight: 228 lb					

LUMBER
TOP CHORD 2 X 4 SYP No.2 "Except"
T5 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.2 "Except"
B1 2 X 6 SYP No.1D, B3 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3 "Except"
W3 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-6-12 oc bracing.
WEBS 1 Row at midpt 5-15, 7-13, 8-12

REACTIONS (lb/size) 2=1736/0-4-0, 9=1612/0-4-0
Max Horz 2=169(load case 5)
Max Uplift 2=624(load case 5), 9=497(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=5682/1742, 3-4=5467/1591, 4-5=5519/1744, 5-6=2096/723, 6-7=2039/687, 7-8=2308/710, 8-9=3009/901
BOT CHORD 2-15=1628/5158, 14-15=499/2175, 13-14=459/2108, 12-13=405/1994, 11-12=704/2623, 10-11=704/2623, 9-10=705/2619
WEBS 3-15=130/193, 4-15=301/285, 5-15=1164/3581, 5-14=152/185, 6-14=188/327, 6-13=543/223, 7-13=119/247, 7-12=134/552,
8-12=727/396, 8-10=0/260

JOINT STRESS INDEX
2 = 0.97, 3 = 0.67, 4 = 0.34, 5 = 0.96, 6 = 0.53, 7 = 0.75, 8 = 0.83, 9 = 0.74, 10 = 0.34, 11 = 0.91, 12 = 0.36, 13 = 0.70, 14 = 0.52 and 15 = 0.96

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 gable end zone and C-C Interior(1) 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.
- All plates are MT20 plates unless otherwise indicated.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 624 lb uplift at joint 2 and 497 lb uplift at joint 9.

LOAD CASE(S) Standard

Job L210383	Truss T16	Truss Type SPECIAL	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 M/Tek Industries, Inc. Thu Sep 21 07:12:24 2006 Page 1		

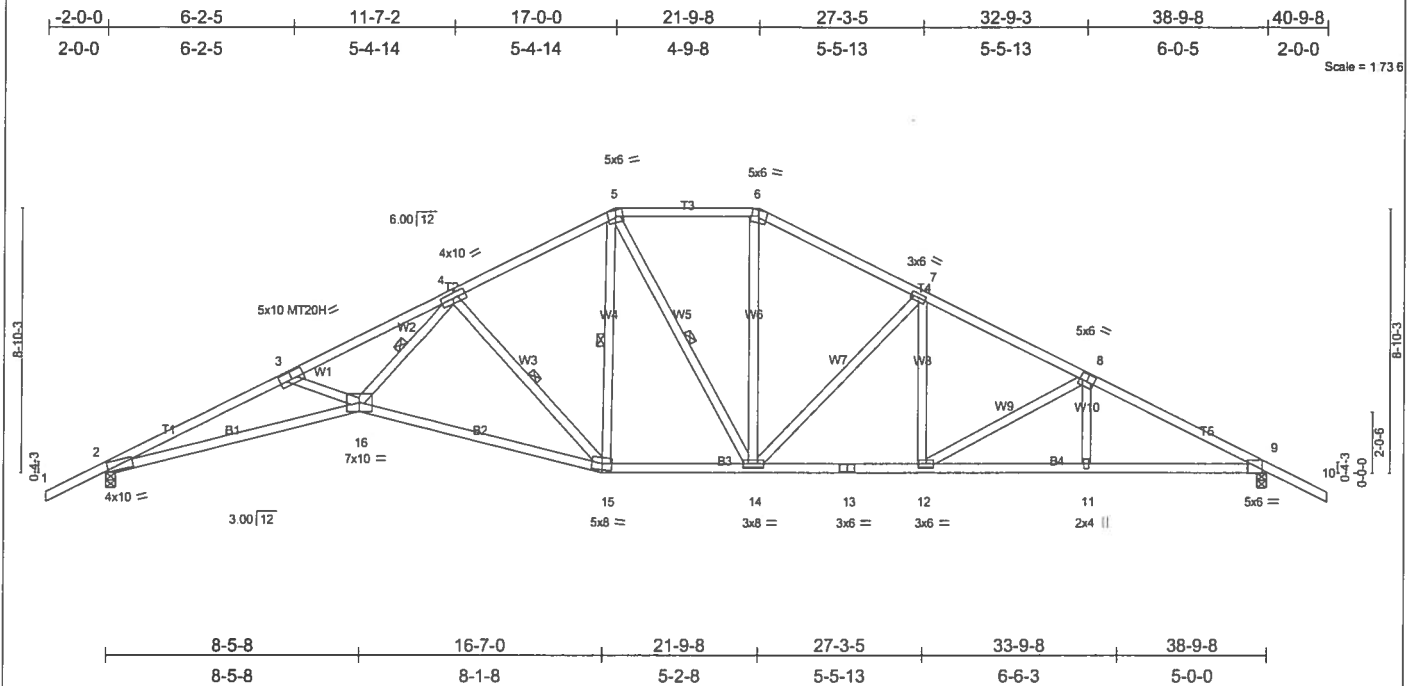


Plate Offsets (X,Y): [2-0-1-5,Edge], [3-0-5-0,0-3-0], [8-0-3-0,0-3-0], [9-0-1-10,Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.96	in (loc) 1.09 15-16	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.80	Vert(LL) -0.91 15-16	MT20H	187/143
BCLL 10.0	Rep Stress Incr YES	WB 0.93	Horz(TL) 0.41 9		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			
				Weight: 222 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purins.
BOT CHORD 2 X 4 SYP No.2 "Except"	BOT CHORD Rigid ceiling directly applied or 2-4-12 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 4-16, 4-15, 5-15, 5-14

REACTIONS (lb/size) 2=1732/0-4-0, 9=1732/0-4-0
Max Horz 2=157(load case 5)
Max Uplift 2=922(load case 6), 9=1118(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=5530/5420, 3-4=5262/5375, 4-5=2105/2097, 5-6=1795/1776, 6-7=2064/1929, 7-8=2574/2254, 8-9=3059/2520, 9-10=0/47
BOT CHORD 2-16=4729/5006, 15-16=2537/2924, 14-15=1496/1801, 13-14=1770/2243, 12-13=1770/2243, 11-12=2094/2654, 9-11=2090/2650
WEBS 3-16=213/255, 4-16=3182/2892, 4-15=1499/1528, 5-15=984/654, 5-14=193/224, 6-14=710/618, 7-14=657/564, 7-12=391/402, 8-12=478/382, 8-11=181/173

JOINT STRESS INDEX
2 = 0.94, 3 = 0.83, 4 = 0.89, 5 = 0.47, 6 = 0.53, 7 = 0.41, 8 = 0.55, 9 = 0.77, 11 = 0.34, 12 = 0.35, 13 = 0.85, 14 = 0.61, 15 = 0.69 and 16 = 0.95

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) zone; cantilever right exposed; porch 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 - 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 922 lb uplift at joint 2 and 1118 lb uplift at joint 9.

LOAD CASE(S) Standard

Job L210383	Truss T17	Truss Type SPECIAL	Qty 1	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional)		

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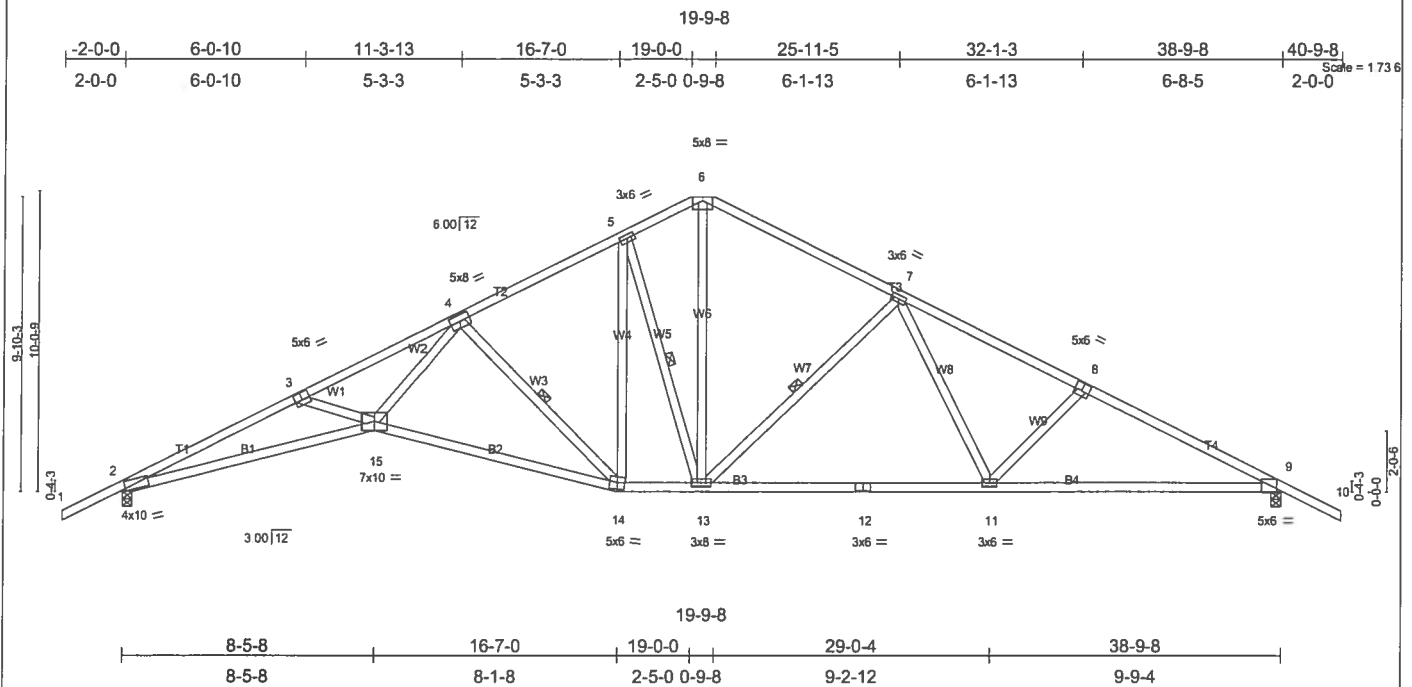


Plate Offsets (X,Y): [2:0-1-6,Edge], [3:0-3-0,0-3-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-3-0,0-3-0], [9:0-1-11,Edge]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.80	Vert(LL) -0.57 14-15 >806 240		
BCLL 10.0	Lumber Increase 1.25	WB 0.92	Vert(TL) -0.93 14-15 >498 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.41 9 n/a n/a		
	Code FBC2004/TPI2002			Weight: 220 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 5-2-5 oc bracing.
B1 2 X 4 SYP No.1D	WEBS 1 Row at midpt 4-14, 5-13, 7-13
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 2=1732/0-4-0, 9=1732/0-4-0
 Max Horz 2=-174(load case 6)
 Max Uplift 2=-650(load case 5), 9=-650(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/46, 2-3=-5525/1775, 3-4=-5263/1632, 4-5=-2116/738, 5-6=-1820/700, 6-7=-1886/687, 7-8=-2732/887, 8-9=-2960/938, 9-10=0/47
 BOT CHORD 2-15=-1649/5001, 14-15=-893/3018, 13-14=-429/1818, 12-13=-491/2120, 11-12=-491/2120, 9-11=-679/2580
 WEBS 3-15=-208/248, 4-15=-818/2856, 4-14=-1578/631, 5-14=-229/582, 5-13=-714/368, 7-13=-715/402, 7-11=-146/599, 8-11=-306/267, 6-13=-480/1326

JOINT STRESS INDEX
 2 = 0.85, 3 = 0.65, 4 = 0.82, 5 = 0.46, 6 = 0.61, 7 = 0.40, 8 = 0.54, 9 = 0.74, 11 = 0.51, 12 = 0.96, 13 = 0.67, 14 = 0.84 and 15 = 0.95

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 650 lb uplift at joint 2 and 650 lb uplift at joint 9.

LOAD CASE(S) Standard

Job L210383	Truss T18	Truss Type SPECIAL	Qty 2	Ply 1	0 0
Builders FirstSource, Lake City, FL 32055			Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Sep 21 07:12:27 2006 Page 1		

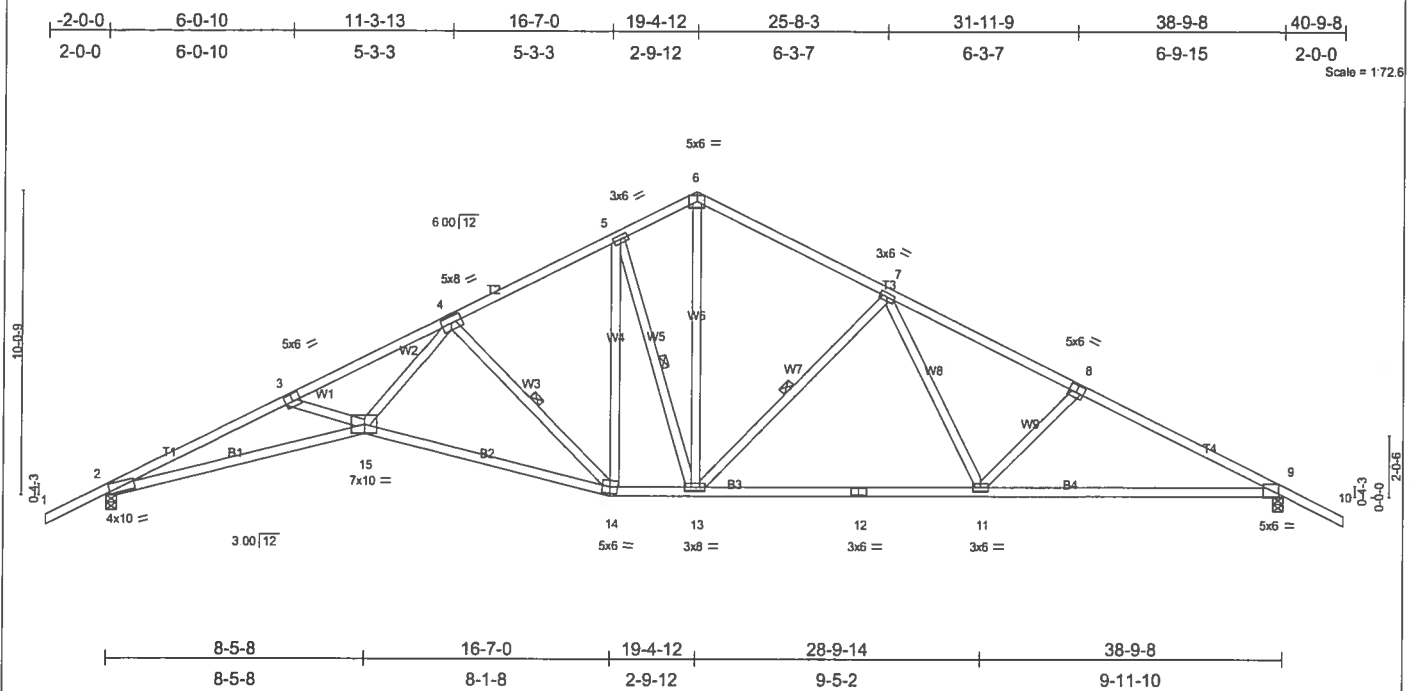


Plate Offsets (X,Y): [2:0-1-6,Edge], [3:0-3-0,0-3-0], [8:0-3-0,0-3-0], [9:0-1-11,Edge]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.80	Vert(LL) -0.57 14-15 >806 240	Weight: 221 lb	
BCLL 10.0	Lumber Increase 1.25	WB 0.92	Vert(TL) -0.93 14-15 >498 180		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.41 9 n/a n/a		
	Code FBC2004/TP12002				

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2 *Except*
 B1 2 X 4 SYP No.1D
 WEBS 2 X 4 SYP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-2-6 oc bracing.
 WEBS 1 Row at midpt 4-14, 5-13, 7-13

REACTIONS (lb/size) 2=1732/0-4-0, 9=1732/0-4-0
 Max Horz 2=-174(load case 6)
 Max Uplift 2=650(load case 5), 9=650(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/46, 2-3=5531/1774, 3-4=5269/1636, 4-5=-2116/738, 5-6=-1820/702, 6-7=-1880/689, 7-8=-2718/885, 8-9=-2953/938, 9-10=0/47
 BOT CHORD 2-15=-1648/5007, 14-15=-893/3019, 13-14=-430/1819, 12-13=-484/2099, 11-12=-484/2099, 9-11=-678/2574
 WEBS 3-15=-208/246, 4-15=-823/2863, 4-14=-1577/631, 5-14=-228/587, 5-13=-720/371, 6-13=-489/1338, 7-13=-710/400, 7-11=-154/612, 8-11=-320/277

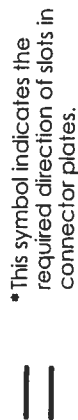
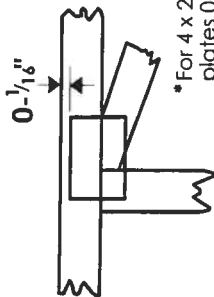
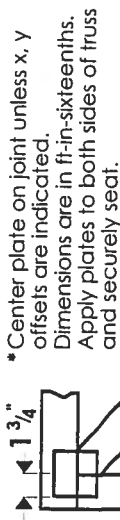
JOINT STRESS INDEX
 2 = 0.85, 3 = 0.65, 4 = 0.83, 5 = 0.47, 6 = 0.47, 7 = 0.42, 8 = 0.56, 9 = 0.75, 11 = 0.52, 12 = 0.93, 13 = 0.67, 14 = 0.85 and 15 = 0.95

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C interior(1) 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) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 650 lb uplift at joint 2 and 650 lb uplift at joint 9.

LOAD CASE(S) Standard

Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in Mitek 20/20 software or upon request.

PLATE SIZE

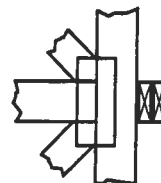
4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



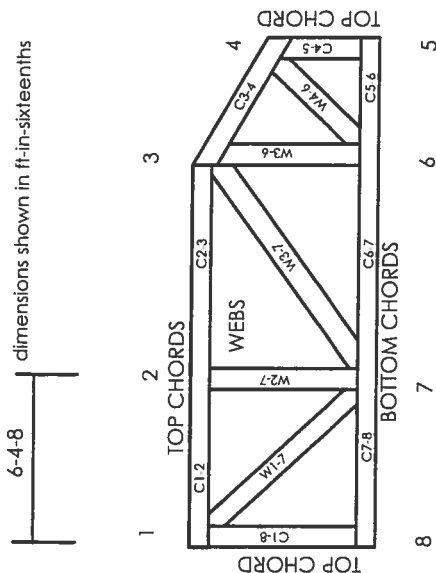
BEARING



Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

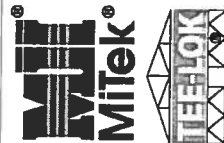


JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A



Mitek Engineering Reference Sheet: MII-7473



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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