Project Information for:	L159975		
Builder:	MANGRUM	Date:	4/19/2006
Lot:	LOT 8 BAYWICK WEST	Start Number:	**1424**
Subdivision:	N/A		
County or City:	COLUMBIA COUNTY		
Truss Page Count:	27		

Truss Design Load Information (UNO) Design Program: MiTek 5.2 / 6.2

Gravity		Wind		Building Code:	FBC2004
Roof (psf):	**42**	Wind Standard:	**ASCE 7-02**		
Floor (psf):	55	Wind Speed (mph):	**110**		

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

MANGRUM, DAVID E RB29003100
Address: 634 SE MAYHALL TERRACE
LAKE CITY, FL 32025 Designer: **85**

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987
Company: Structural Engineering and Inspections, Inc. EB 9196
Address 16105 N. Florida Ave, Ste B, Lutz, FL 33549

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.
2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
4. Trusses designed for veritcal loads only, unless noted otherwise.

APR 19 2006

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0419061424	4/19/2006				
2	CJ2	0419061425	4/19/2006				
3	CJ3	0419061426	4/19/2006				
4	CJ5	0419061427	4/19/2006				
5	EJ5	0419061428	4/19/2006				
6	EJ7	0419061429	4/19/2006				
7	EJ7A	0419061430	4/19/2006				
8	HJ7	0419061431	4/19/2006				
9	HJ9	0419061432	4/19/2006				
10	T01	0419061433	4/19/2006				
11	T02	0419061434	4/19/2006				
12	T03	0419061435	4/19/2006				
13	T04	0419061436	4/19/2006				
14	T05	0419061437	4/19/2006				
15	T06	0419061438	4/19/2006				
16	T07	0419061439	4/19/2006				
17	T09	0419061440	4/19/2006				
18	T10	0419061441	4/19/2006				
19	T11	0419061442	4/19/2006				
20	T12	0419061443	4/19/2006				
21	T13	0419061444	4/19/2006				
22	T14	0419061445	4/19/2006				
23	T15	0419061446	4/19/2006				
24	T16	0419061447	4/19/2006				
25	T17	0419061448	4/19/2006				
26	T18	0419061449	4/19/2006				
27	T19	0419061450	4/19/2006				

Licensee Details

Licensee Information

Name:	**MANGRUM, DAVID EARL** (Primary Name) **MANGRUM CONSTRUCTION INC** (DBA Name)
Main Address:	**634 S.E. MAYHALL TERR.** **LAKE CITY Florida 32025**
County:	**COLUMBIA**
License Mailing:	
LicenseLocation:	

License Information

License Type:	**Registered Building Contractor**
Rank:	**Reg Building**
License Number:	**RB29003100**
Status:	**Current,Active**
Licensure Date:	**07/22/2002**
Expires:	**08/31/2007**

Special Qualifications	**Qualification Effective**
Bldg Code Core Course Credit	
Qualified Business License Required	**02/20/2004**

View Related License Information

View License Complaint

APRIL 19, 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

Dwg.#0419061424

Job	Truss	Truss Type	Qty	Ply	
L159975	CJ1	JACK	12	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:03 2006 Page 1

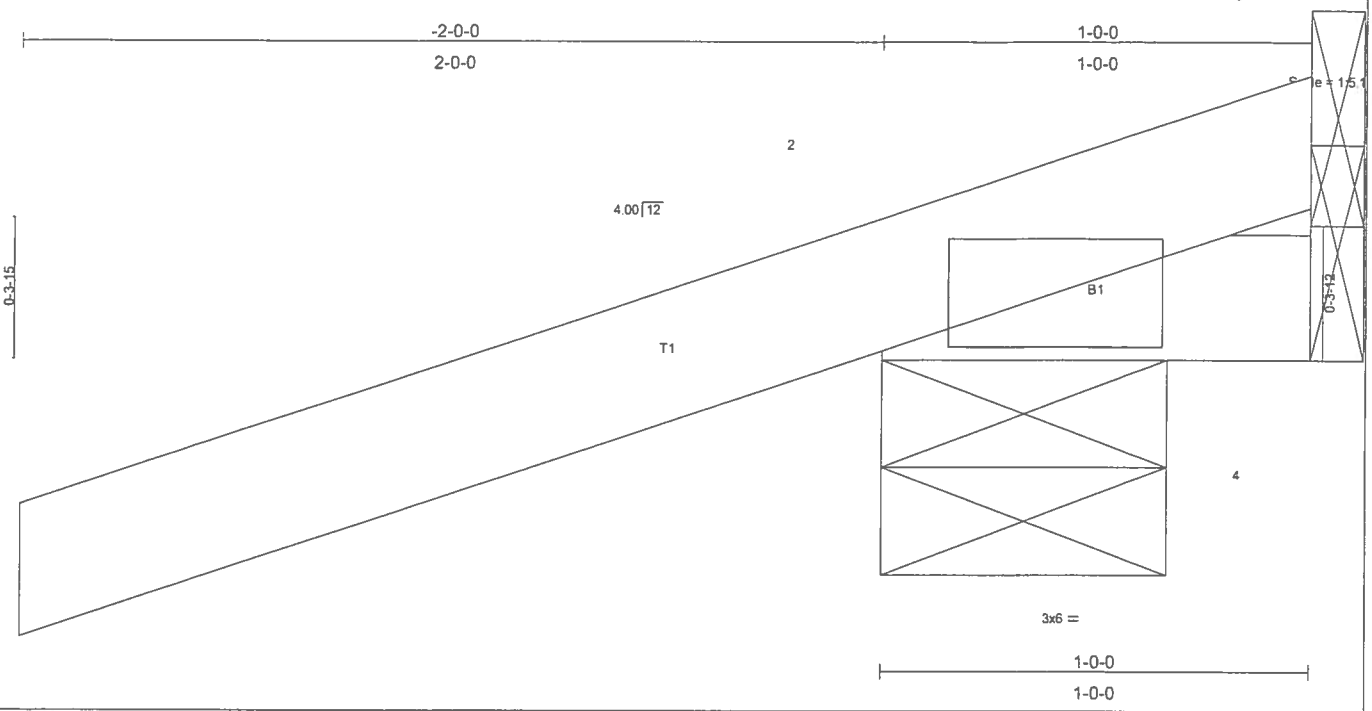


Plate Offsets (X,Y): [2:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>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: 6 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=276/0-8-0, 3=-100/Mechanical, 4=14/Mechanical
Max Horz 2=58(load case 3)
Max Uplift2=-272(load case 3), 3=-100(load case 1)
Max Grav 2=276(load case 1), 3=124(load case 3), 4=14(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-54/55
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 2 and 100 lb uplift at joint 3.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061425

Job	Truss	Truss Type	Qty	Ply	
L159975	CJ2	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:03 2006 Page 1

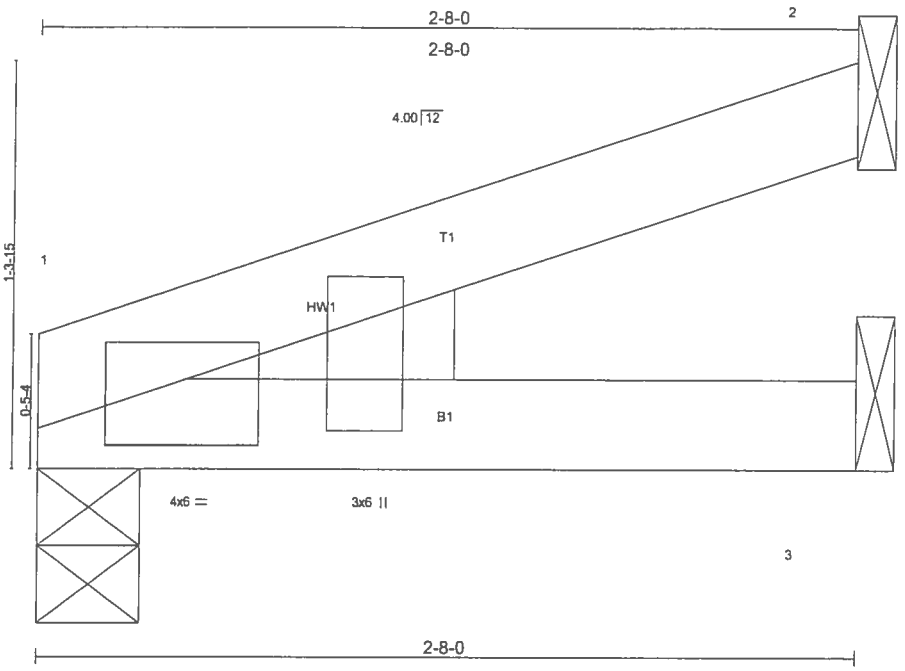


Plate Offsets (X,Y): [1:0-2-10,0-0-10], [1:0-0-1,0-11-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.08	Vert(LL)	-0.00	1-3	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.00	1-3	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 10 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEDGE
Left: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=66/Mechanical, 3=37/Mechanical, 1=102/0-4-0
Max Horz 1=46(load case 3)
Max Uplift2=-56(load case 3), 1=-29(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-41/20
BOT CHORD 1-3=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2 and 29 lb uplift at joint 1.

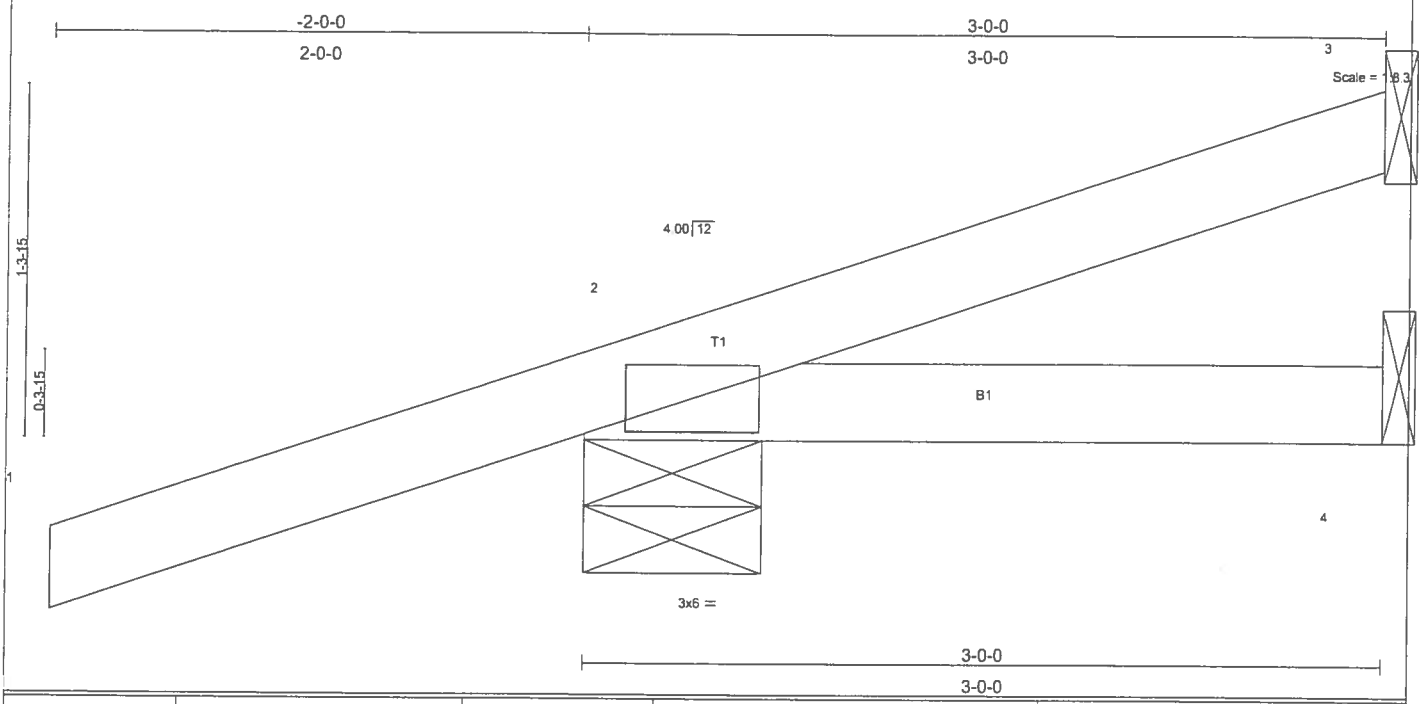
LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061426

Job	Truss	Truss Type	Qty	Ply	
L159975	CJ3	JACK	11	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:04 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	0.31	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.00	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: 12 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=14/Mechanical, 2=292/0-8-0, 4=39/Mechanical
Max Horz 2=88(load case 3)
Max Uplift3=-17(load case 6), 2=-227(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-46/4
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 3 and 227 lb uplift at joint 2.

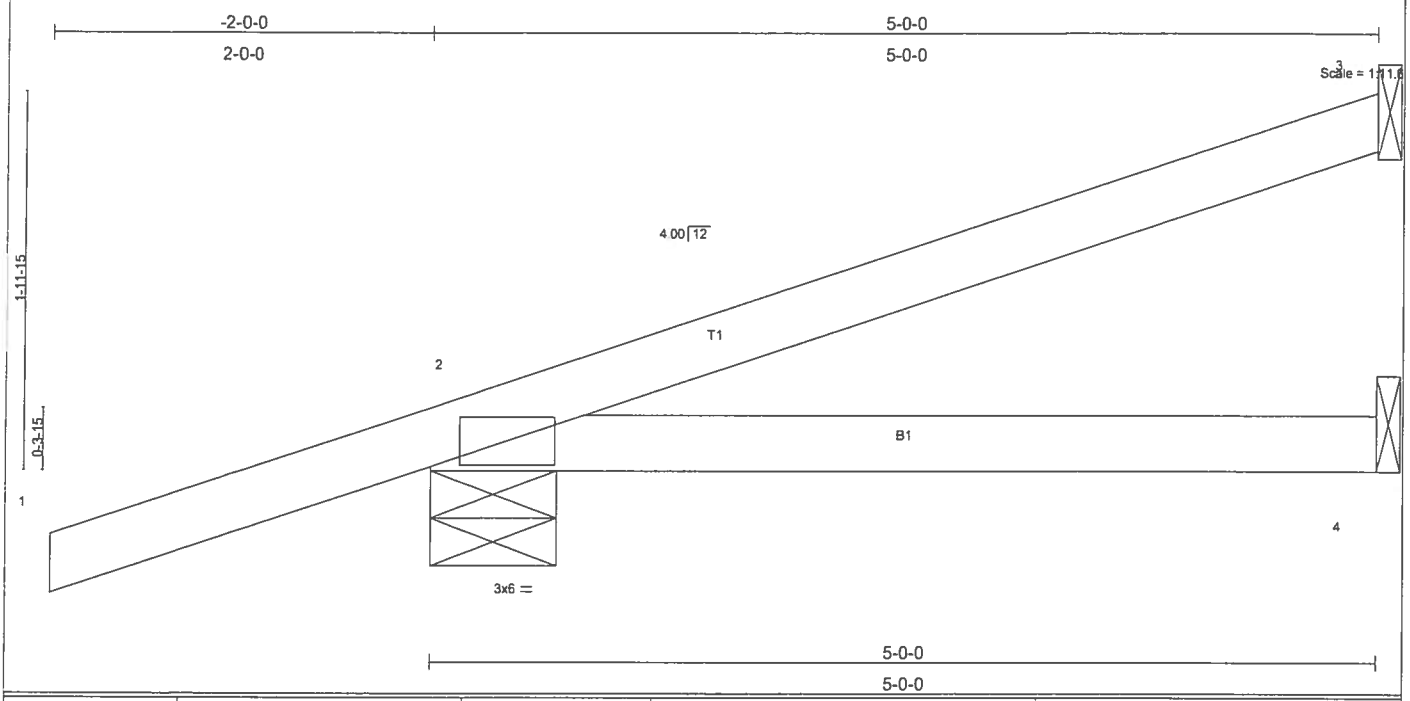
LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061427

Job	Truss	Truss Type	Qty	Ply	
L159975	CJ5	JACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:04 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	0.31	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.04	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: 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=92/Mechanical, 2=351/0-8-0, 4=69/Mechanical
Max Horz 2=118(load case 3)
Max Uplift3=-65(load case 3), 2=-226(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-53/23
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 3 and 226 lb uplift at joint 2.

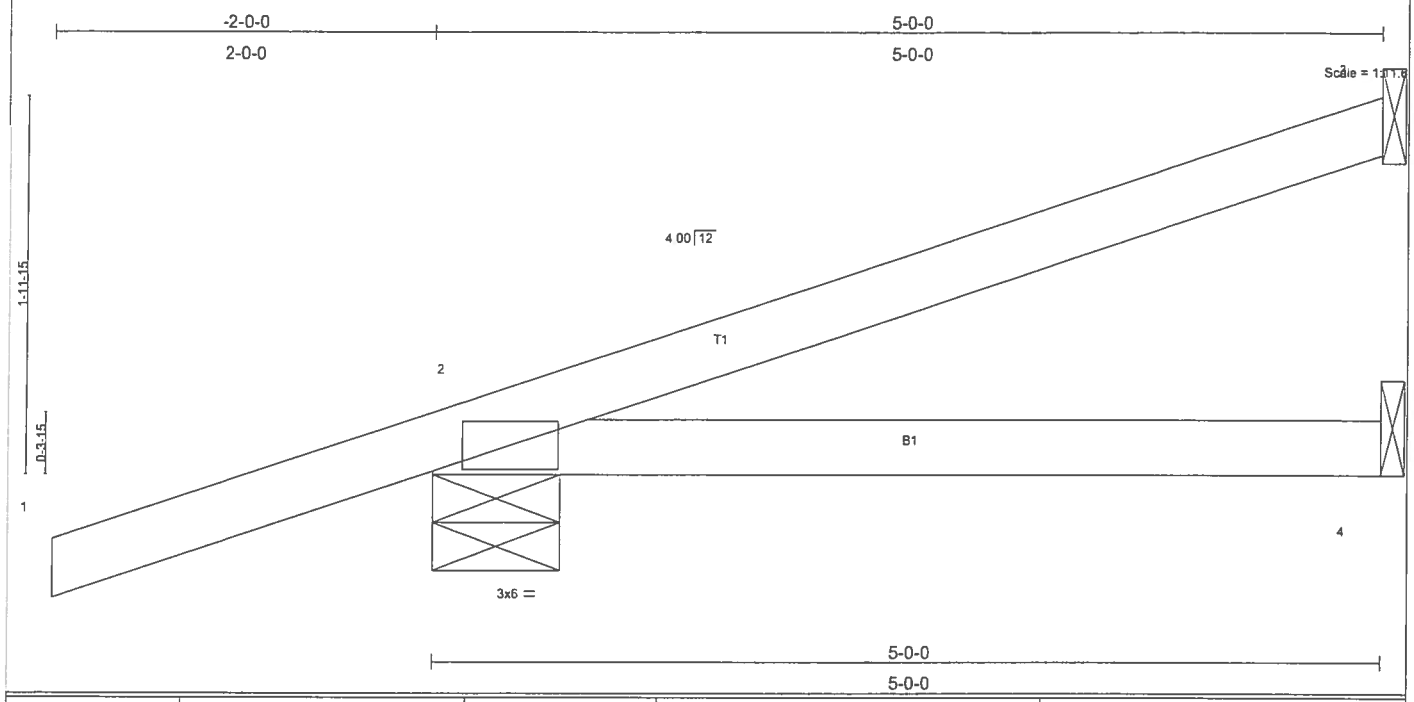
LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061428

Job	Truss	Truss Type	Qty	Ply	
L159975	EJ5	MONO TRUSS	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:05 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	0.31	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.04	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: 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=92/Mechanical, 2=351/0-8-0, 4=69/Mechanical
Max Horz 2=118(load case 3)
Max Uplift3=-65(load case 3), 2=-226(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-53/23
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 3 and 226 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061429

Job	Truss	Truss Type	Qty	Ply	
L159975	EJ7	MONO TRUSS	24	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:05 2006 Page 1

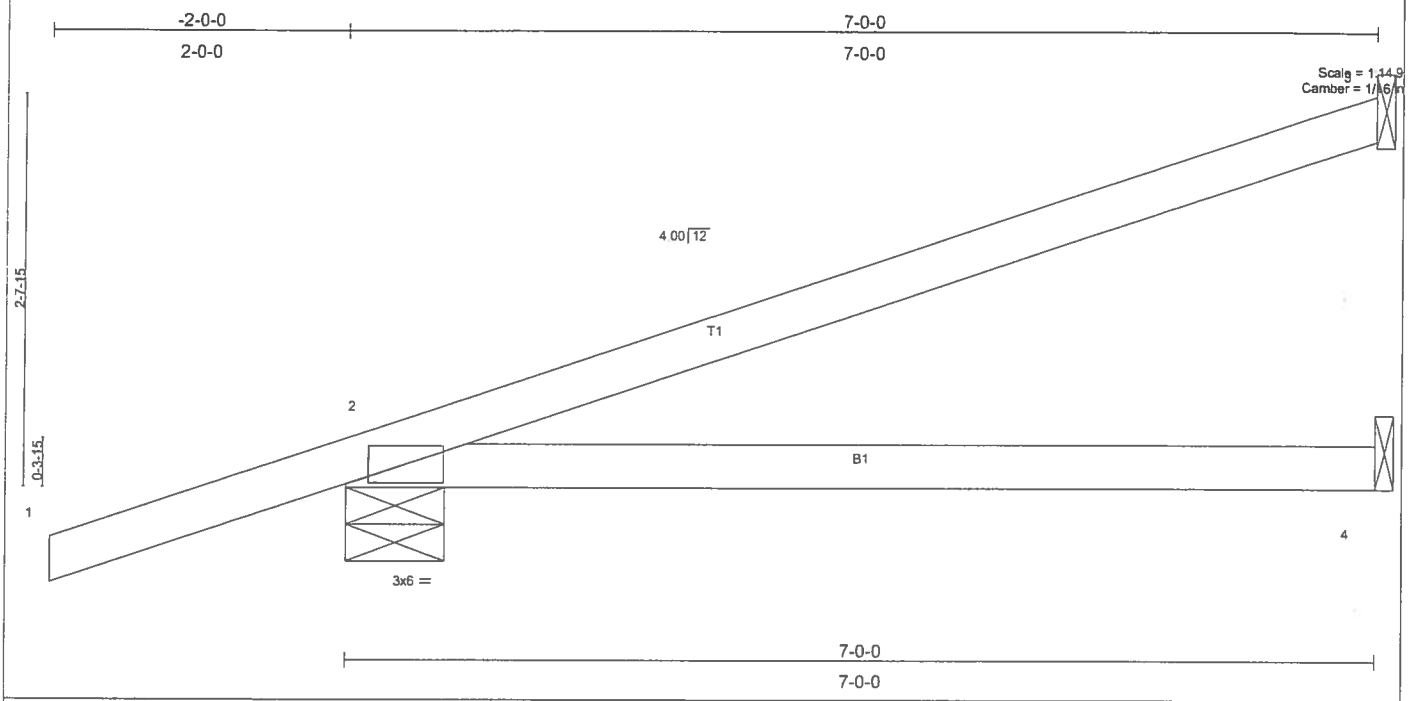


Plate Offsets (X,Y): [2:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.10	2-4	>780	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.17	2-4	>464	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: 25 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=157/Mechanical, 2=426/0-8-0, 4=99/Mechanical
Max Horz 2=149(load case 3)
Max Uplift3=-111(load case 3), 2=-242(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-75/40
BOT CHORD 2-4=0/0

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) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 3 and 242 lb uplift at joint 2.

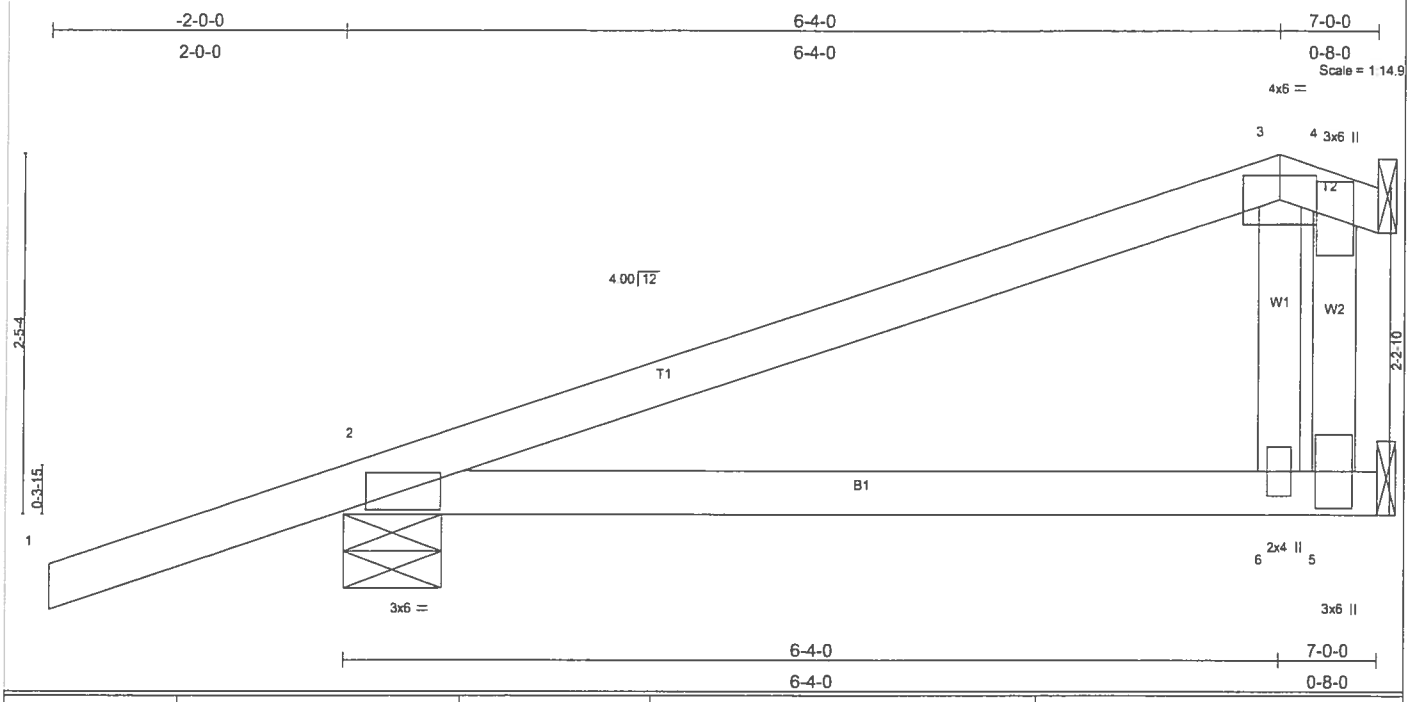
LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061430

Job	Truss	Truss Type	Qty	Ply	
L159975	EJ7A	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:06 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	0.52	Vert(LL)	-0.04	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.07	2-6	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 30 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=417/0-8-0, 5=187/Mechanical, 4=58/Mechanical
Max Horz 2=136(load case 3)
Max Uplift2=-243(load case 5), 5=-206(load case 5)
Max Grav 2=417(load case 1), 5=187(load case 1), 4=141(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-198/27, 3-4=-148/23, 4-5=0/0
BOT CHORD 2-6=-75/137, 5-6=-75/137
WEBS 3-6=-79/331

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 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) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2 and 206 lb uplift at joint 5.
5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

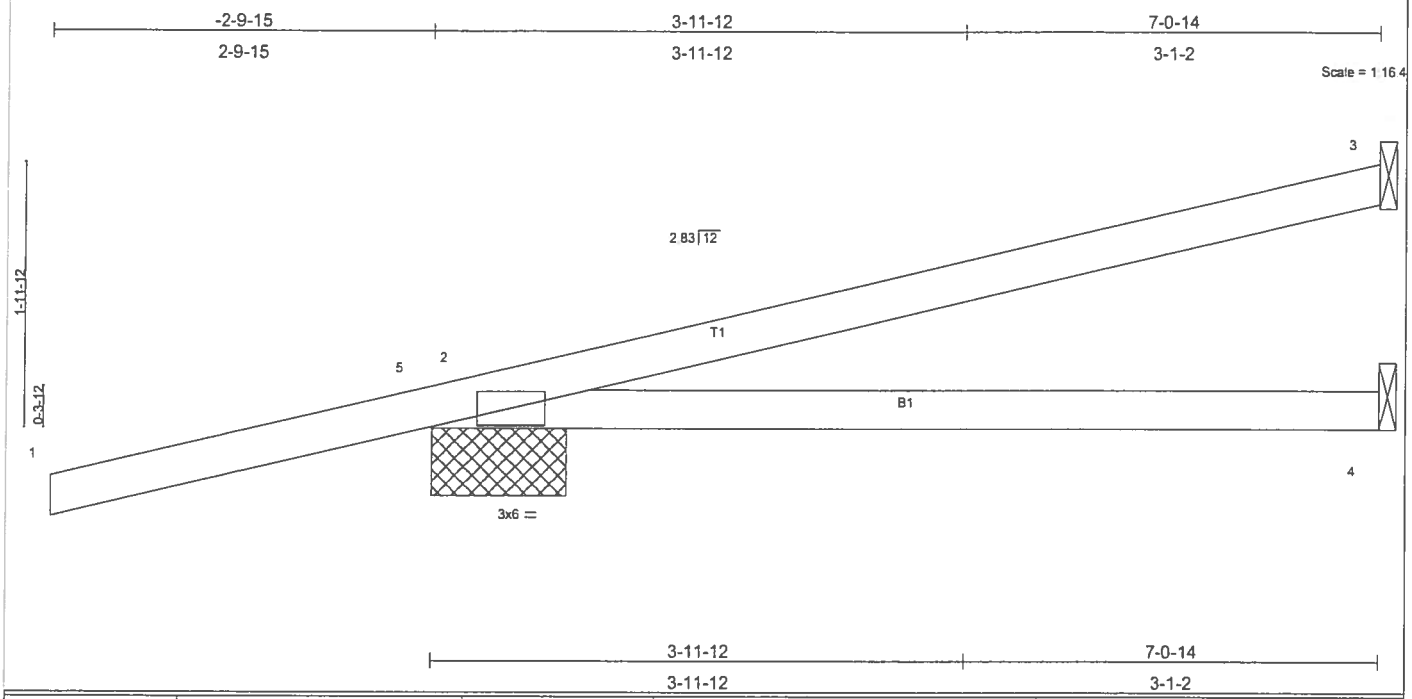
LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061431

Job	Truss	Truss Type	Qty	Ply	
L159975	HJ7	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:06 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	0.56	Vert(LL)	-0.07	2-4	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.12	2-4	>658	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							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 7-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=189/Mechanical, 2=374/1-0-1, 4=110/Mechanical
Max Horz 2=110(load case 2)
Max Uplift3=-127(load case 2), 2=-262(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=0/31, 2-5=0/31, 2-3=-43/31
BOT CHORD 2-4=0/0

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; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 3 and 262 lb uplift at joint 2.
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: 1-5=-54
Trapezoidal Loads (plf)
Vert: 5=-0(F=27, B=27)-to-3=-95(F=-21, B=-21), 2=-3(F=14, B=14)-to-4=-53(F=-12, B=-12)

APRIL 19, 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

Dwg.#0419061432

Job	Truss	Truss Type	Qty	Ply	
L159975	HJ9	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:07 2006 Page 1

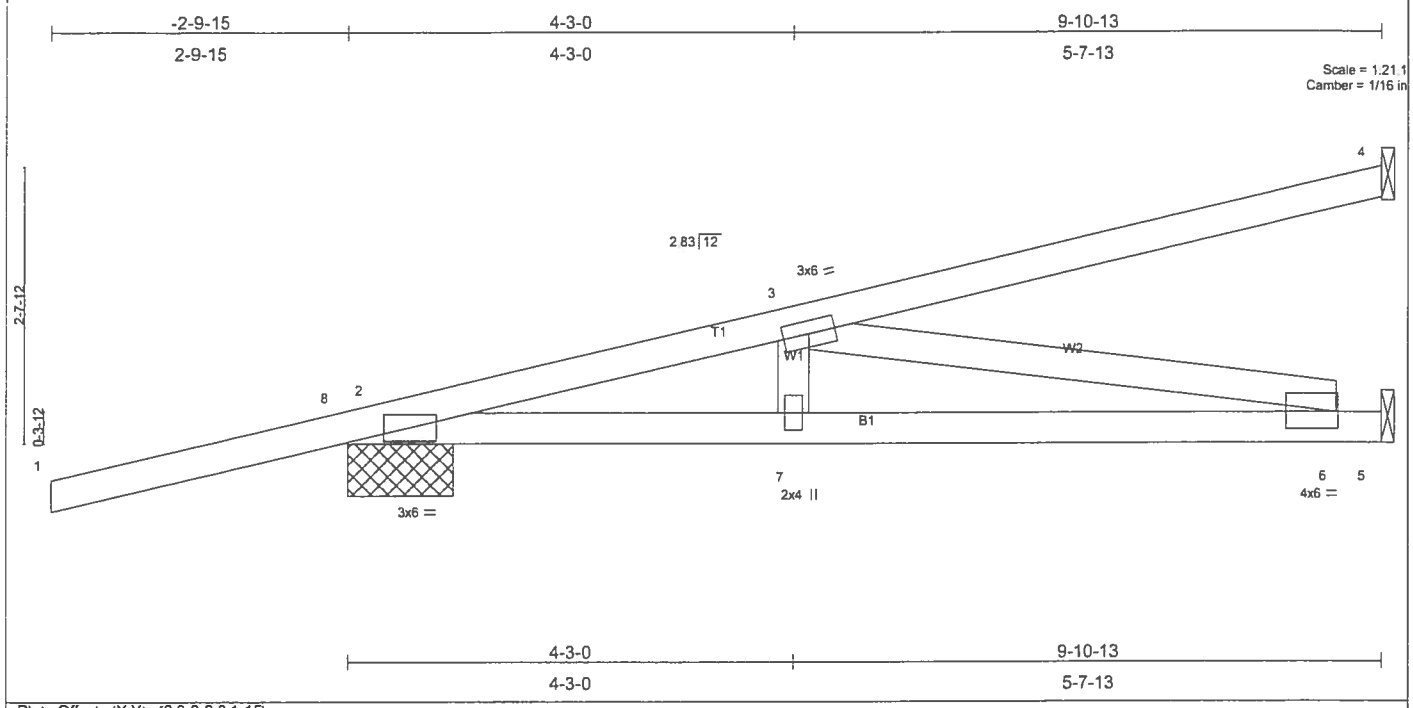


Plate Offsets (X,Y) [6:0-0-3,0-1-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	-0.13	6-7	>876	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.22	6-7	>525	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.62	Horz(TL)	0.02	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 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 5-4-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS (lb/size) 4=275/Mechanical, 2=533/1-0-1, 5=367/Mechanical
Max Horz 2=175(load case 2)
Max Uplift4=-208(load case 2), 2=-304(load case 2), 5=-45(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-8=0/31, 2-8=0/31, 2-3=-1203/245, 3-4=-67/46
BOT CHORD 2-7=-363/1156, 6-7=-363/1156, 5-6=0/0
WEBS 3-7=0/179, 3-6=-1178/370

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; Lumber DOL=1.60 plate grip DOL=1.60.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 4, 304 lb uplift at joint 2 and 45 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: 1-8=-54
Trapezoidal Loads (plf)
Vert: 8=0(F=27, B=27)-to-4=-134(F=-40, B=-40), 2=-3(F=14, B=14)-to-5=-74(F=-22, B=-22)

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061433

Job	Truss	Truss Type	Qty	Ply	
L159975	T01	HIP	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:08 2006 Page 1

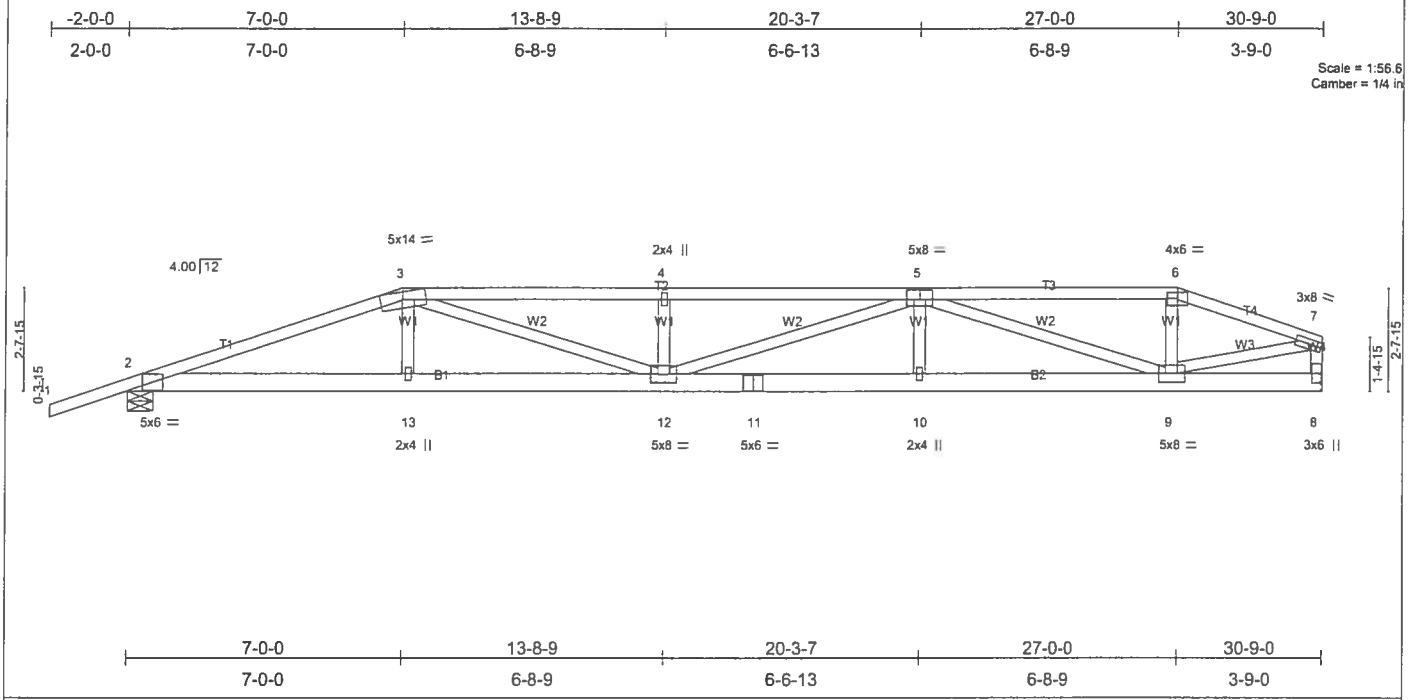

Plate Offsets (X,Y): [5:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.70	Vert(LL)	-0.42	10-12	>857	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.68	10-12	>535	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.09	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 338 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 3-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-14 oc bracing.

REACTIONS (lb/size) 2=2654/0-8-0, 8=2697/Mechanical
Max Horz 2=47(load case 2)
Max Uplift2=-1167(load case 2), 8=-1092(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-7068/2856, 3-4=-9093/3758, 4-5=-9093/3758, 5-6=-4045/1720, 6-7=-4264/1737, 7-8=-2544/1071
BOT CHORD 2-13=-2646/6641, 12-13=-2656/6696, 11-12=-3329/8297, 10-11=-3329/8297, 9-10=-3329/8297, 8-9=-142/316
WEBS 3-13=-177/877, 3-12=-1098/2657, 4-12=-758/568, 5-12=-343/868, 5-10=0/437, 5-9=-4533/1853, 6-9=-93/747, 7-9=-1512/3832

NOTES
1) 2-ply truss to be connected together with 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) Unbalanced roof live loads have been considered for this design.
4) 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.
5) Provide adequate drainage to prevent water ponding.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1167 lb uplift at joint 2 and 1092 lb uplift at joint 8.
8) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 236 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, 3-6=-113(F=-59), 6-7=-113(F=-59), 2-13=-30, 8-13=-62(F=-33)
Concentrated Loads (lb)
Vert: 13=-539(F)

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061434

Job	Truss	Truss Type	Qty	Ply	
L159975	T02	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:09 2006 Page 1

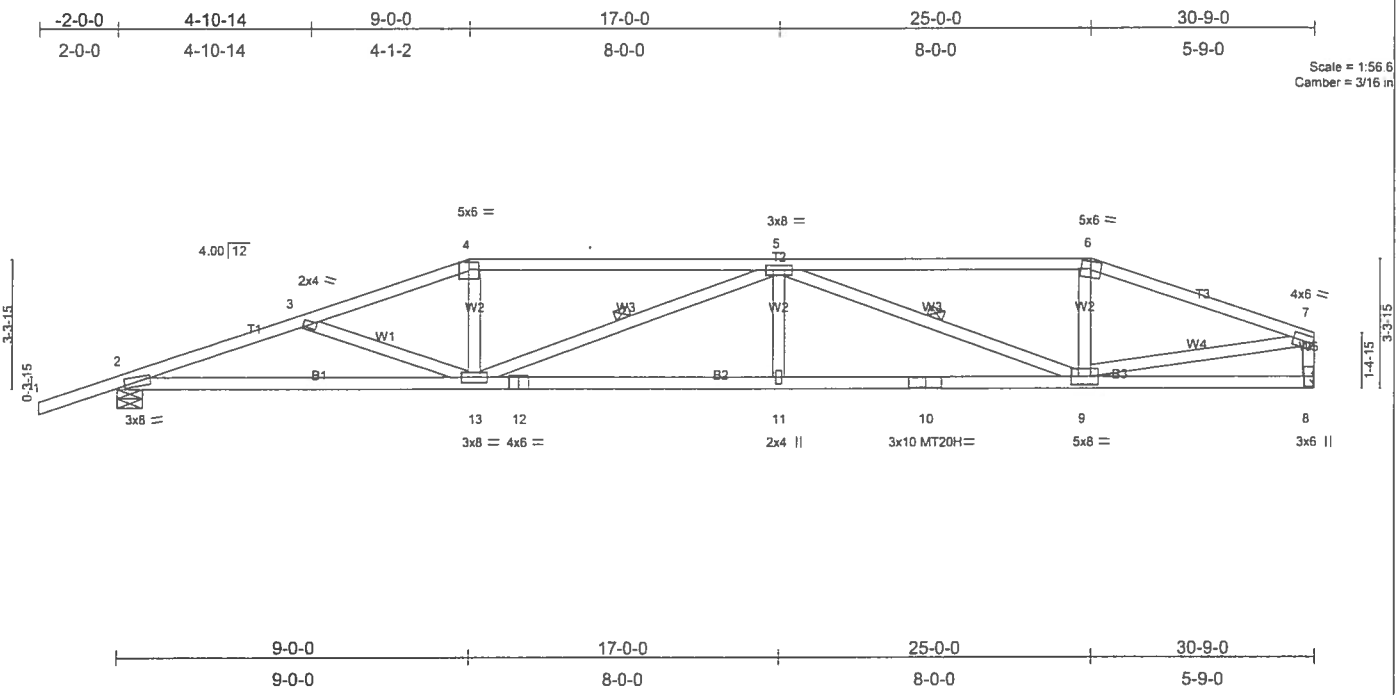

Plate Offsets (X,Y): [2:0-2-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.32	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.78	Vert(TL)	-0.52	11-13	>697	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.13	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 148 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 3-4-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-2 oc bracing.
WEBS 1 Row at midpt 5-13, 5-9

REACTIONS (lb/size) 2=1402/0-8-0, 8=1267/Mechanical
Max Horz 2=122(load case 3)
Max Uplift2=-606(load case 3), 8=-459(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3031/1216, 3-4=-2837/1125, 4-5=-2702/1114, 5-6=-2042/879, 6-7=-2180/880, 7-8=-1183/522
BOT CHORD 2-13=-1141/2815, 12-13=-1259/3253, 11-12=-1259/3253, 10-11=-1259/3253, 9-10=-1259/3253, 8-9=-96/189
WEBS 3-13=-153/162, 4-13=-78/524, 5-13=-728/301, 5-11=0/232, 5-9=-1375/525, 6-9=-12/349, 7-9=-702/1875

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 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) All plates are MT20 plates unless otherwise indicated.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 606 lb uplift at joint 2 and 459 lb uplift at joint 8.

LOAD CASE(S) Standard

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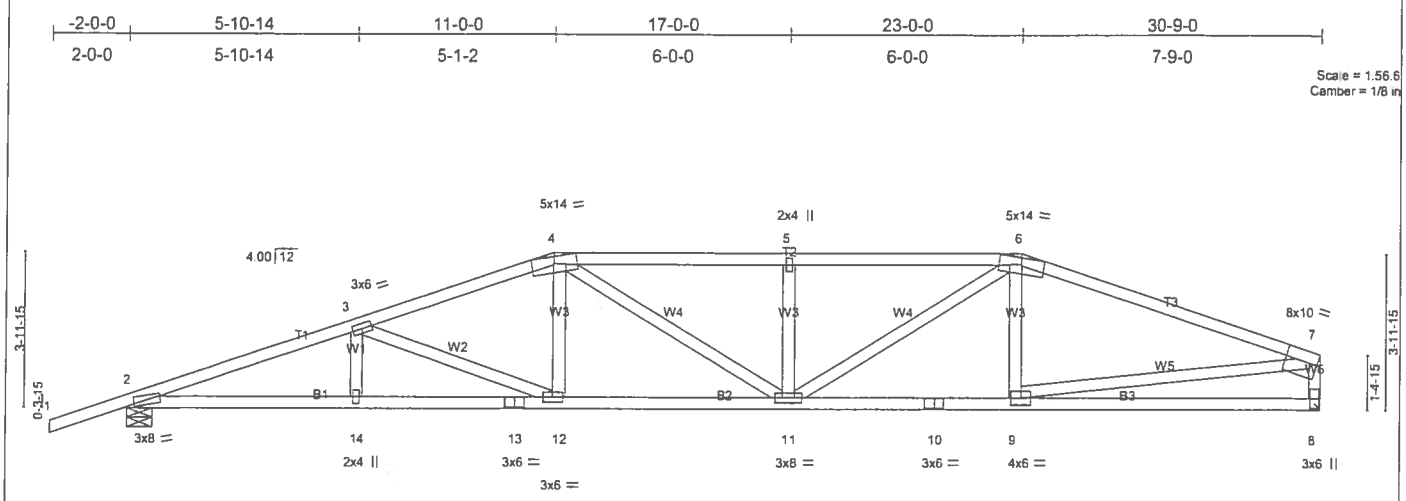
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061435

Job	Truss	Truss Type	Qty	Ply	
L159975	T03	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:10 2006 Page 1



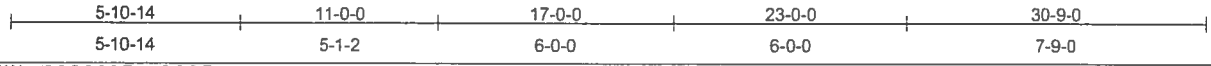


Plate Offsets (X,Y): [2:0-2-9,0-0-7], [7:0-2-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.98	Vert(LL)	-0.25	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.60	Vert(TL)	-0.40	11-12	>914	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.10	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 154 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 3-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-13 oc bracing.

REACTIONS (lb/size) 2=1402/0-8-0, 8=1267/Mechanical
Max Horz 2=132(load case 3)
Max Uplift2=-599(load case 3), 8=-449(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-3119/1211, 3-4=-2569/1070, 4-5=-2608/1128, 5-6=-2608/1128, 6-7=-2212/910, 7-8=-1138/540
BOT CHORD 2-14=-1135/2887, 13-14=-1135/2887, 12-13=-1135/2887, 11-12=-928/2414, 10-11=-782/2032, 9-10=-782/2032, 8-9=-198/413
WEBS 3-14=0/156, 3-12=-531/224, 4-12=-56/369, 4-11=-148/382, 5-11=-338/222, 6-11=-297/793, 6-9=-46/138, 7-9=-596/1639

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 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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 599 lb uplift at joint 2 and 449 lb uplift at joint 8.

LOAD CASE(S) Standard

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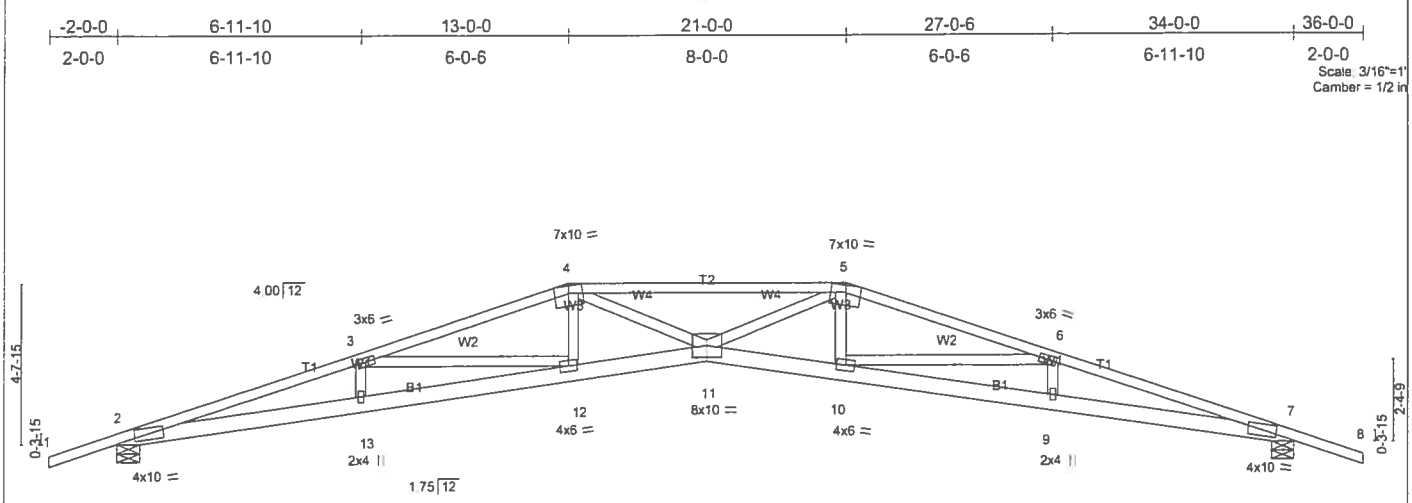
THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987
STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061436

Job	Truss	Truss Type	Qty	Ply	
L159975	T04	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:10 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	0.97	Vert(LL)	-0.83	11	>481	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-1.33	11	>300	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.55	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 178 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except* T2 2 X 4 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.

REACTIONS (lb/size) 2=1526/0-8-0, 7=1526/0-8-0
Max Horz 2=90(load case 3)
Max Uplift2=-624(load case 3), 7=-624(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-5593/2141, 3-4=-4802/1879, 4-5=-5760/2193, 5-6=-4802/1879, 6-7=-5593/2141, 7-8=0/35
BOT CHORD 2-13=-1913/5281, 12-13=-1924/5301, 11-12=-1573/4580, 10-11=-1573/4580, 9-10=-1924/5301, 7-9=-1913/5281
WEBS 3-13=0/114, 3-12=-753/358, 4-12=-131/527, 4-11=-394/1363, 5-11=-419/1363, 5-10=-131/527, 6-10=-753/368, 6-9=0/114

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 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) Bearing at joint(s) 2, 7 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 624 lb uplift at joint 2 and 624 lb uplift at joint 7.

LOAD CASE(S) Standard

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STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Dwg.#0419061437

Job	Truss	Truss Type	Qty	Ply	
L159975	T05	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FI 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:11 2006 Page 1

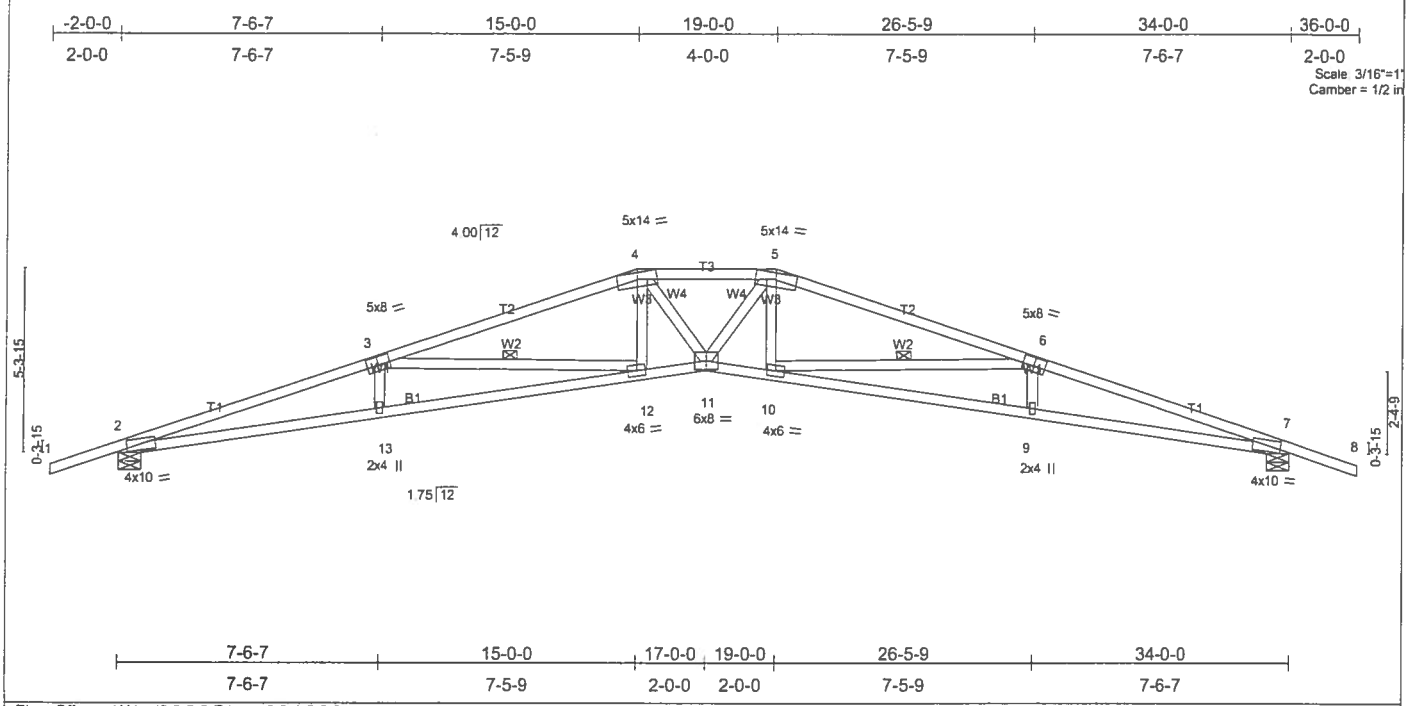

Plate Offsets (X,Y): [2:0-3-2,Edge], [3:0-4-0,0-3-0], [6:0-4-0,0-3-0], [7:0-3-2,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.91	Vert(LL)	-0.84	12-13	>475	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.90	Vert(TL)	-1.35	12-13	>295	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.63	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 153 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.
WEBS 1 Row at midpt 3-12, 6-10

REACTIONS (lb/size) 2=1526/0-8-0, 7=1526/0-8-0
Max Horz 2=-98(load case 4)
Max Uplift2=-610(load case 3), 7=-610(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-5570/2195, 3-4=-4233/1670, 4-5=-4332/1778, 5-6=-4233/1670, 6-7=-5570/2195, 7-8=0/31
BOT CHORD 2-13=-1963/5250, 12-13=-1964/5267, 11-12=-1349/4007, 10-11=-1349/4007, 9-10=-1964/5267, 7-9=-1963/5250
WEBS 3-13=0/214, 3-12=-1284/609, 4-12=-113/544, 4-11=-236/653, 5-11=-265/653, 5-10=-113/544, 6-10=-1284/609, 6-9=0/214

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 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) Bearing at joint(s) 2, 7 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 610 lb uplift at joint 2 and 610 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061438

Job	Truss	Truss Type	Qty	Ply	
L159975	T06	SPECIAL	3	1	Job Reference (optional)

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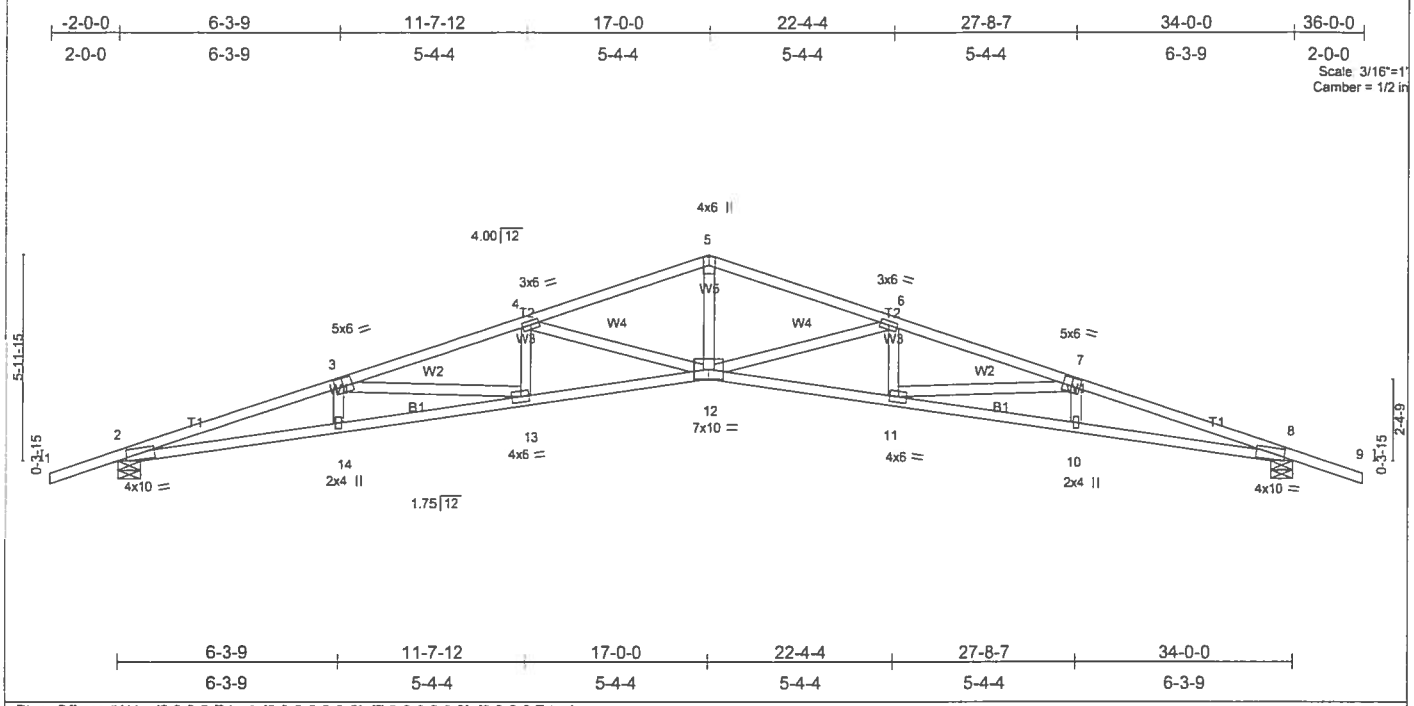

Plate Offsets (X,Y): [2:0-3-2,Edge], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-3-2,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.80	Vert(LL)	-0.80	12-13	>498	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.86	Vert(TL)	-1.29	12-13	>311	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.62	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 155 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-12 oc bracing.

REACTIONS (lb/size) 2=1526/0-8-0, 8=1526/0-8-0
Max Horz 2=-108(load case 4)
Max Uplift2=-598(load case 5), 8=-598(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-5522/2186, 3-4=-4823/1972, 4-5=-3770/1539, 5-6=-3770/1539, 6-7=-4823/1972, 7-8=-5522/2186, 8-9=0/31
BOT CHORD 2-14=-1956/5195, 13-14=-1965/5191, 12-13=-1681/4596, 11-12=-1681/4596, 10-11=-1965/5191, 8-10=-1956/5195
WEBS 3-14=0/152, 3-13=-658/281, 4-13=-53/341, 4-12=-1086/522, 5-12=-736/2055, 6-12=-1086/522, 6-11=-53/341, 7-11=-658/285, 7-10=0/152

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 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) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 598 lb uplift at joint 2 and 598 lb uplift at joint 8.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061439

Job	Truss	Truss Type	Qty	Ply	
L159975	T07	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Mon Apr 17 13:57:13 2006 Page 1

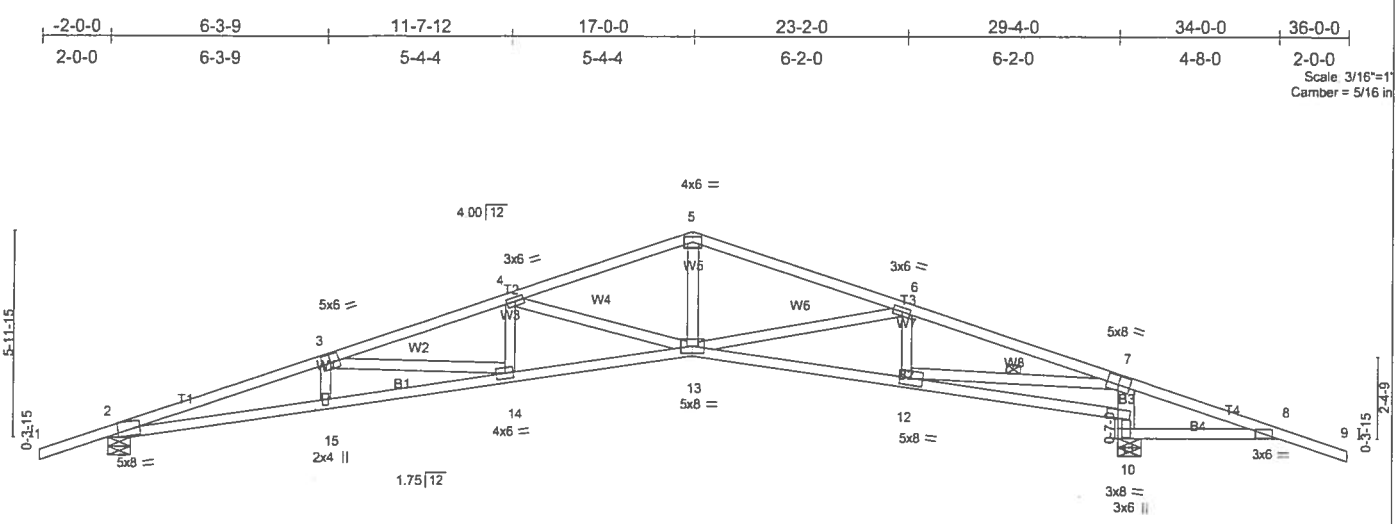

Plate Offsets (X,Y): [2:0-3-11,Edge], [3:0-3-0,0-3-0], [7:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.49	14-15	>710	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.95	Vert(TL)	-0.79	14-15	>442	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.33	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 159 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W8 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-12

REACTIONS (lb/size) 2=1310/0-8-0, 10=1752/0-8-0
Max Horz 2=-108(load case 4)
Max Uplift2=-542(load case 5), 10=-792(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-4508/1611, 3-4=-3707/1339, 4-5=-2644/899, 5-6=-2652/895, 6-7=-2573/705, 7-8=-1012/911, 8-9=0/33
BOT CHORD 2-15=-1409/4234, 14-15=-1417/4227, 13-14=-1072/3526, 12-13=-568/2423, 11-12=-805/1363, 10-11=-1683/1010, 7-11=-1449/744, 8-10=-819/1039
WEBS 3-15=0/162, 3-14=-722/342, 4-14=-63/348, 4-13=-1093/526, 5-13=-327/1313, 6-13=-132/202, 6-12=-345/349, 7-12=-1767/3097

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 Exterior(2) zone; cantilever 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) 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.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 542 lb uplift at joint 2 and 792 lb uplift at joint 10.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061440

Job	Truss	Truss Type	Qty	Ply	
L159975	T09	MONO HIP	1	1	Job Reference (optional)

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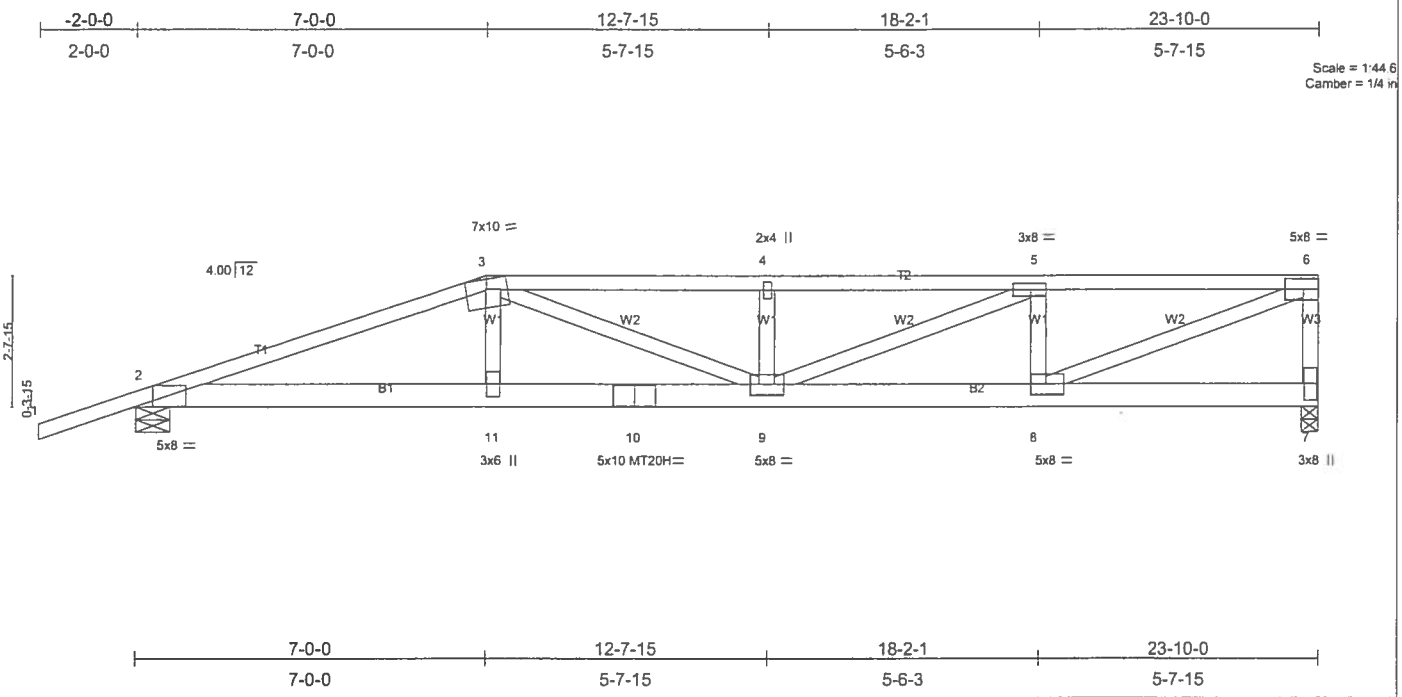

Plate Offsets (X,Y): [2:0-4-0,0-2-10], [5:0-3-8,0-1-8], [8:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.85	Vert(LL)	-0.37	9-11	>759	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.59	9-11	>474	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.86	Horz(TL)	0.08	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 131 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.2 *Except*
W1 2 X 4 SYP No.3, W1 2 X 4 SYP No.3, W1 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-2 oc bracing.

REACTIONS (lb/size) 7=2106/0-4-0, 2=2034/0-8-0
Max Horz 2=152(load case 2)
Max Uplift7=-866(load case 2), 2=-910(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-5108/2041, 3-4=-5593/2309, 4-5=-5593/2309, 5-6=-4026/1650, 6-7=-1890/862
BOT CHORD 2-11=-1976/4781, 10-11=-1987/4833, 9-10=-1987/4833, 8-9=-1650/4026, 7-8=-118/232
WEBS 3-11=-176/822, 3-9=-385/819, 4-9=-630/481, 5-9=-714/1696, 5-8=-1264/742, 6-8=-1658/4108

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; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 866 lb uplift at joint 7 and 910 lb uplift at joint 2.
5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 236 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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, 3-6=-112(F=-59), 2-11=-30, 7-11=-62(F=-33)
Concentrated Loads (lb)
Vert: 11=-539(F)

APRIL 19, 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

Dwg.#0419061441

Job	Truss	Truss Type	Qty	Ply	
L159975	T10	MONO HIP	1	1	Job Reference (optional)

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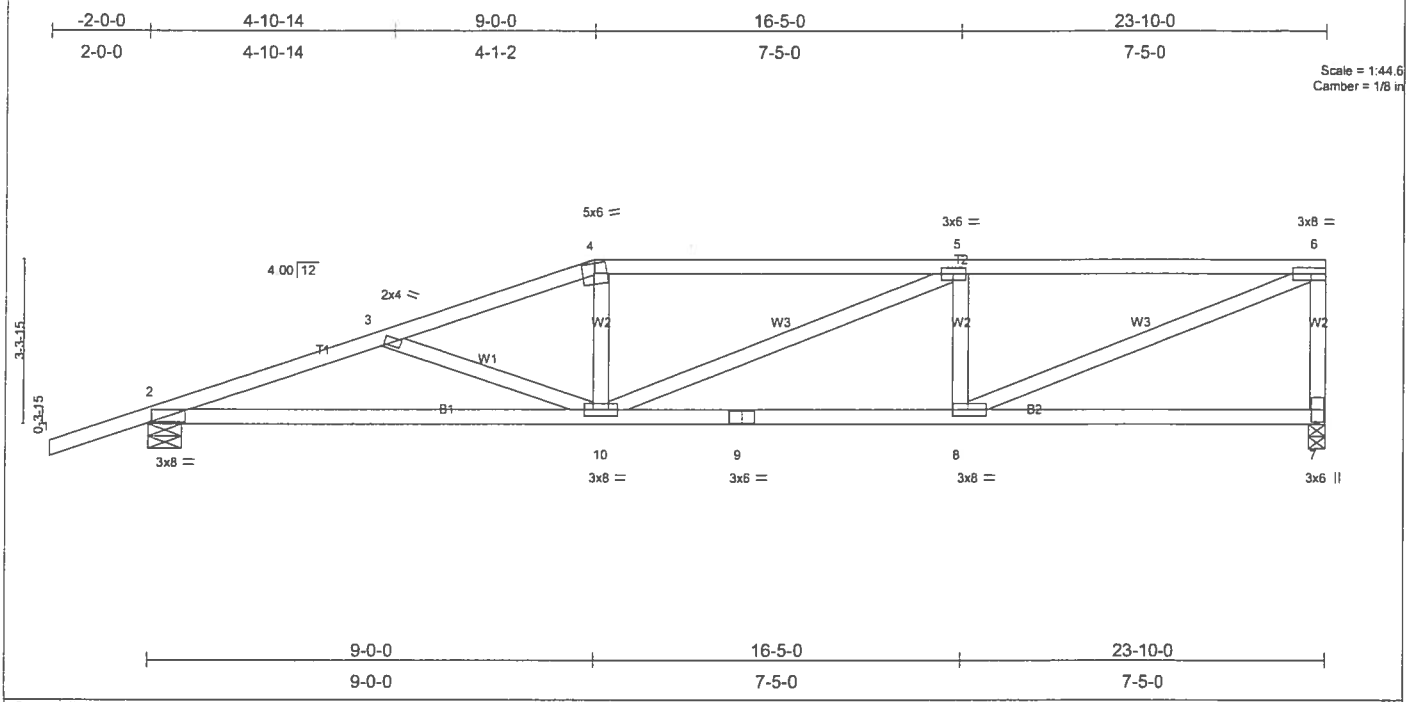

Plate Offsets (X,Y): [8:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.19	2-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.32	2-10	>865	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 116 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 4-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-14 oc bracing.

REACTIONS (lb/size) 7=975/0-4-0, 2=1113/0-8-0
Max Horz 2=181(load case 3)
Max Uplift7=-372(load case 3), 2=-499(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-2205/865, 3-4=-1963/748, 4-5=-1850/749, 5-6=-1718/698, 6-7=-860/406
BOT CHORD 2-10=-907/2043, 9-10=-698/1718, 8-9=-698/1718, 7-8=-41/110
WEBS 3-10=-218/181, 4-10=0/272, 5-10=-83/143, 5-8=-468/322, 6-8=-712/1744

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) Provide adequate drainage to prevent water ponding.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 7 and 499 lb uplift at joint 2.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061442

Job	Truss	Truss Type	Qty	Ply	
L159975	T11	HIP	1	1	Job Reference (optional)

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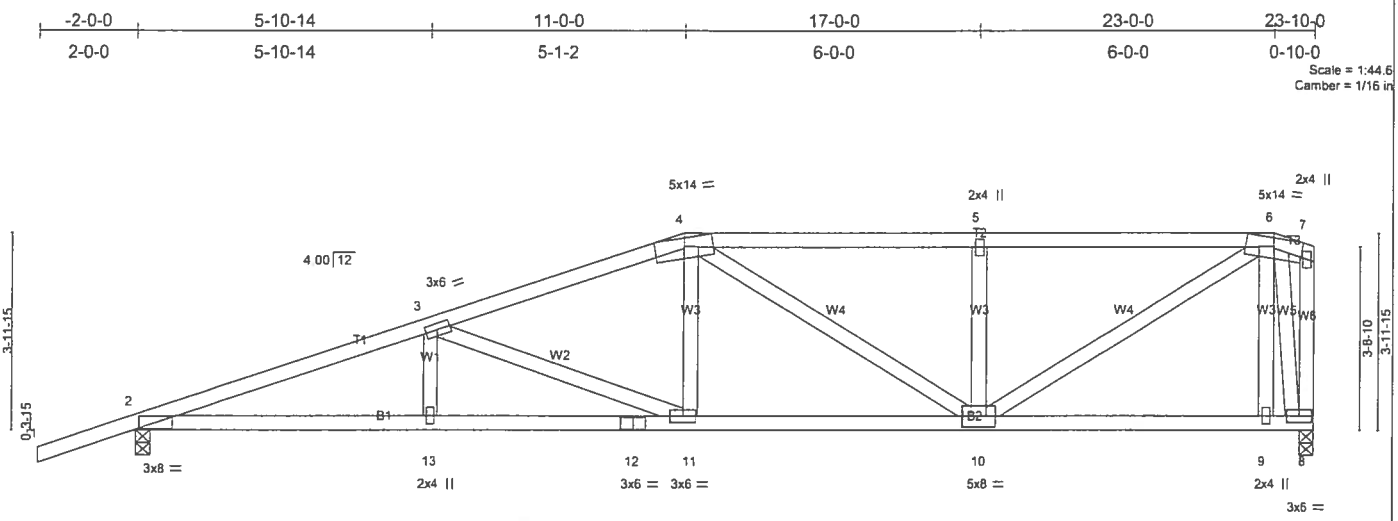

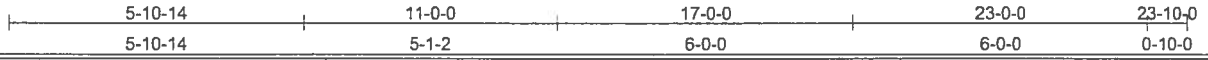

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	-0.13	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.22	11-13	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.06	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 130 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 3-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-13 oc bracing.

REACTIONS (lb/size) 2=1110/0-3-8, 8=983/0-3-8
Max Horz 2=204(load case 5)
Max Uplift2=-488(load case 3), 8=-379(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-2360/879, 3-4=-1718/693, 4-5=-1336/563, 5-6=-1335/563, 6-7=-21/19, 7-8=-93/91
BOT CHORD 2-13=-944/2182, 12-13=-944/2182, 11-12=-944/2182, 10-11=-686/1606, 9-10=-93/232, 8-9=-95/227
WEBS 3-13=0/167, 3-11=-634/280, 4-11=-74/396, 4-10=-317/159, 5-10=-345/237, 6-10=-538/1297, 6-9=0/123, 6-8=-1102/464

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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 488 lb uplift at joint 2 and 379 lb uplift at joint 8.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061443

Job	Truss	Truss Type	Qty	Ply	
L159975	T12	HIP	1	1	Job Reference (optional)

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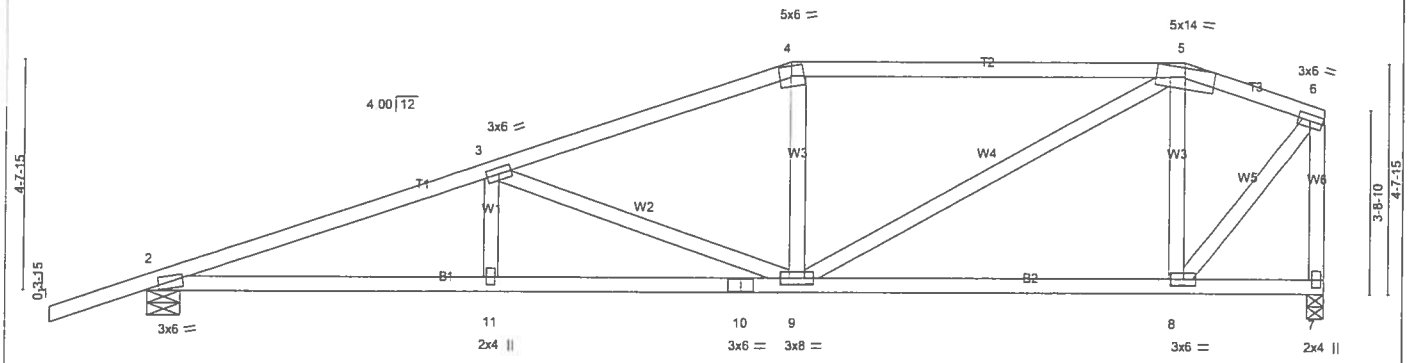
-2-0-0 | 6-10-14 | 13-0-0 | 21-0-0 | 23-10-0

2-0-0 | 6-10-14 | 6-1-2 | 8-0-0 | 2-10-0

Scale = 1:44.6
Camber = 1/16 in



6-10-14 | 13-0-0 | 21-0-0 | 23-10-0

6-10-14 | 6-1-2 | 8-0-0 | 2-10-0

Plate Offsets (X,Y): [2:0-2-4,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.48	Vert(LL)	-0.13	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.52	Vert(TL)	-0.22	8-9	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 124 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 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=1113/0-8-0, 7=975/0-4-0
Max Horz 2=214(load case 3)
Max Uplift2=-492(load case 3), 7=-340(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-2224/836, 3-4=-1481/611, 4-5=-1362/624, 5-6=-664/282, 6-7=-978/407
BOT CHORD 2-11=-893/2042, 10-11=-893/2042, 9-10=-893/2042, 8-9=-249/617, 7-8=-14/5
WEBS 3-11=0/194, 3-9=-728/333, 4-9=0/108, 5-9=-376/867, 5-8=-587/365, 6-8=-415/1020

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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 492 lb uplift at joint 2 and 340 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061444

Job	Truss	Truss Type	Qty	Ply	
L159975	T13	SPECIAL	1	1	Job Reference (optional)

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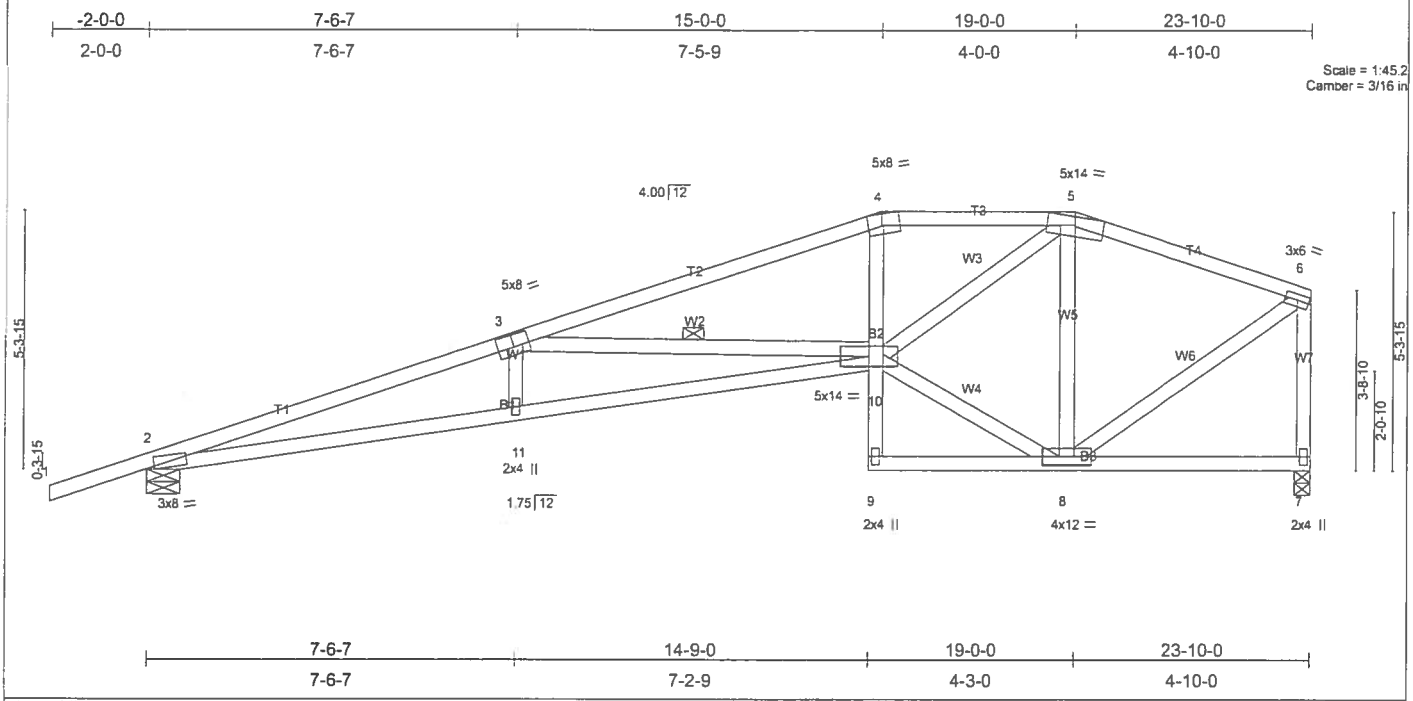

Plate Offsets (X,Y): [3:0-4-0,0-3-0], [4:0-3-7,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	-0.34	10-11	>820	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.75	Vert(TL)	-0.55	10-11	>508	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.22	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 129 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-10-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-4 oc bracing.
WEBS 1 Row at midpt 3-10

REACTIONS (lb/size) 2=1113/0-8-0, 7=975/0-4-0
Max Horz 2=223(load case 3)
Max Uplift2=-485(load case 3), 7=-318(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-3558/1455, 3-4=-2098/902, 4-5=-1825/857, 5-6=-844/380, 6-7=-900/427
BOT CHORD 2-11=-1488/3341, 10-11=-1488/3352, 9-10=0/55, 4-10=-34/322, 8-9=-30/17, 7-8=-21/40
WEBS 3-11=0/229, 3-10=-1378/639, 8-10=-308/815, 5-10=-585/1340, 5-8=-760/394, 6-8=-361/889

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 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) 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 485 lb uplift at joint 2 and 318 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061445

Job	Truss	Truss Type	Qty	Ply	
L159975	T14	SPECIAL	2	1	Job Reference (optional)

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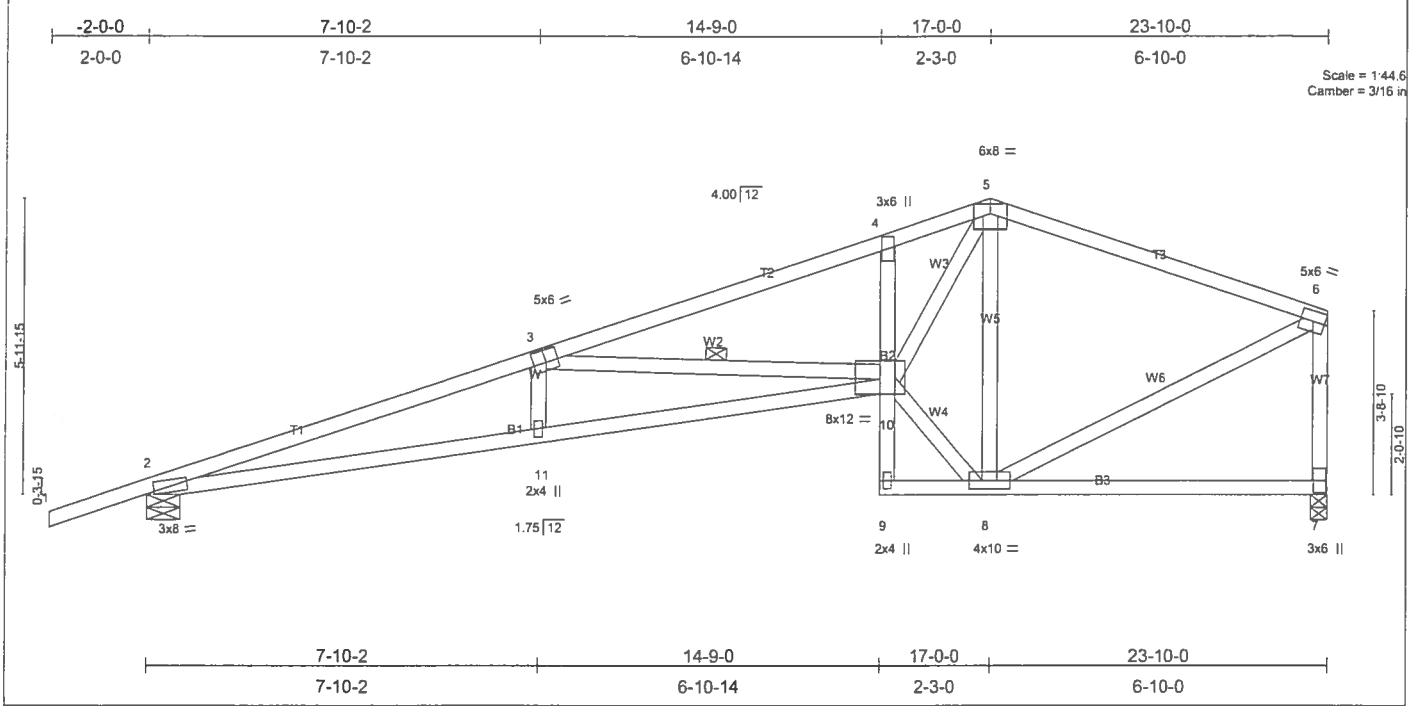

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [10:0-6-0,0-3-9]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	-0.33	10-11	>845	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.53	10-11	>525	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.23	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 129 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-8 oc bracing.
WEBS 1 Row at midpt 3-10

REACTIONS (lb/size) 2=1113/0-8-0, 7=975/0-4-0
Max Horz 2=233(load case 3)
Max Uplift2=-477(load case 5), 7=-301(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-3517/1451, 3-4=-2070/914, 4-5=-1887/907, 5-6=-964/449, 6-7=-871/443
BOT CHORD 2-11=-1482/3301, 10-11=-1486/3283, 9-10=-23/0, 4-10=-214/157, 8-9=-47/24, 7-8=-41/80
WEBS 3-11=0/240, 3-10=-1342/631, 8-10=-441/1169, 5-10=-833/1877, 5-8=-1054/537, 6-8=-361/879

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 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) 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.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 2 and 301 lb uplift at joint 7.

LOAD CASE(S) Standard

APRIL 19, 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

Dwg.#0419061446

Job	Truss	Truss Type	Qty	Ply	
L159975	T15	HIP	1	1	Job Reference (optional)

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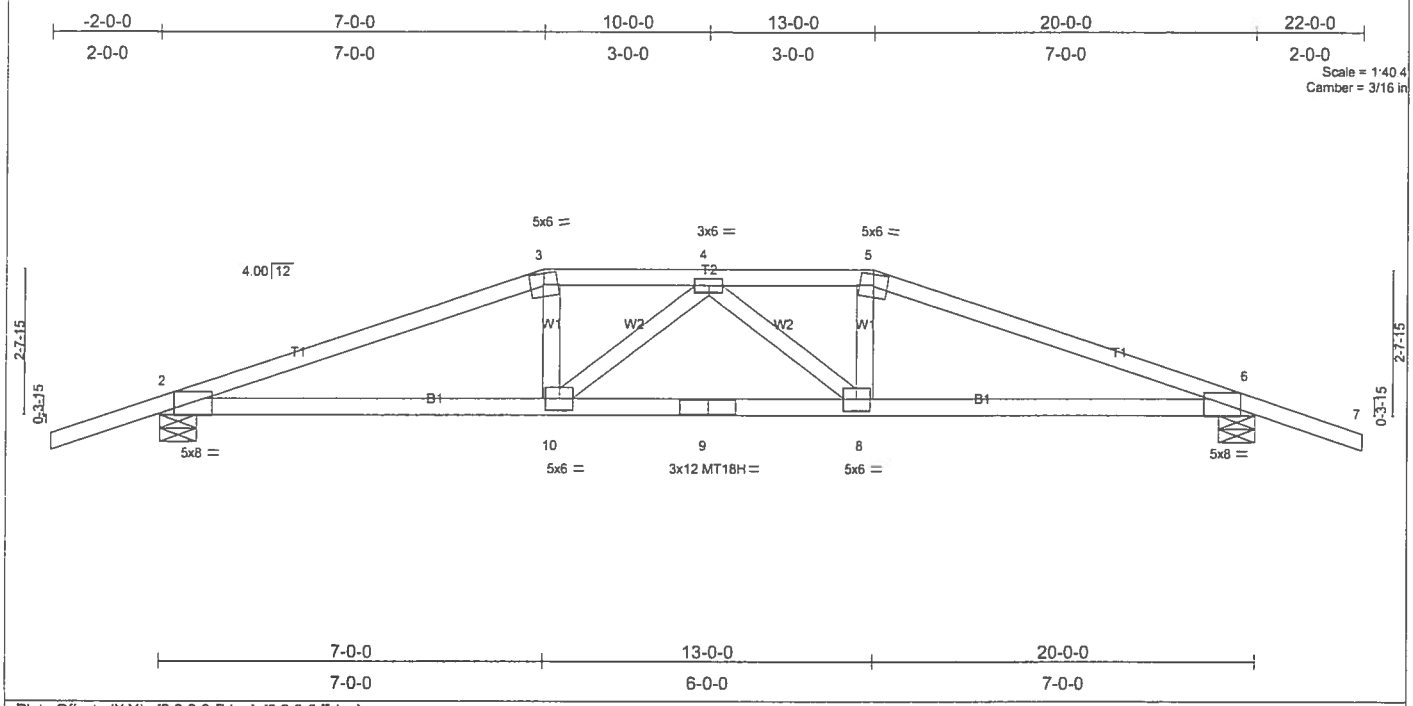

Plate Offsets (X,Y): [2:0-3-3,Edge], [6:0-3-3,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.59	Vert(LL)	-0.28	8-10	>819	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.94	Vert(TL)	-0.46	8-10	>506	180	MT18H	244/190
BCLL	10.0	Rep Stress Incr	NO	WB	0.33	Horz(TL)	0.12	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 83 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 2-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-0-5 oc bracing.

REACTIONS (lb/size) 6=1745/0-8-0, 2=1745/0-8-0
Max Horz 2=60(load case 2)
Max Uplift6=-782(load case 3), 2=-782(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-4111/1596, 3-4=-3877/1562, 4-5=-3877/1563, 5-6=-4111/1596, 6-7=0/33
BOT CHORD 2-10=-1456/3818, 9-10=-1576/4018, 8-9=-1576/4018, 6-8=-1414/3818
WEBS 3-10=-301/1034, 4-10=-320/187, 4-8=-320/187, 5-8=-301/1034

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; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 782 lb uplift at joint 6 and 782 lb uplift at joint 2.
6) Girder carries hip end with 7-0-0 end setback.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 236 lb up at 13-0-0, and 539 lb down and 236 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) 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, 3-5=-112(F=-59), 5-7=-54, 2-10=-30, 8-10=-62(F=-33), 6-8=-30
Concentrated Loads (lb)
Vert: 10=-539(F) 8=-539(F)

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Dwg.#0419061447

Job	Truss	Truss Type	Qty	Ply	
L159975	T16	HIP	1	1	Job Reference (optional)

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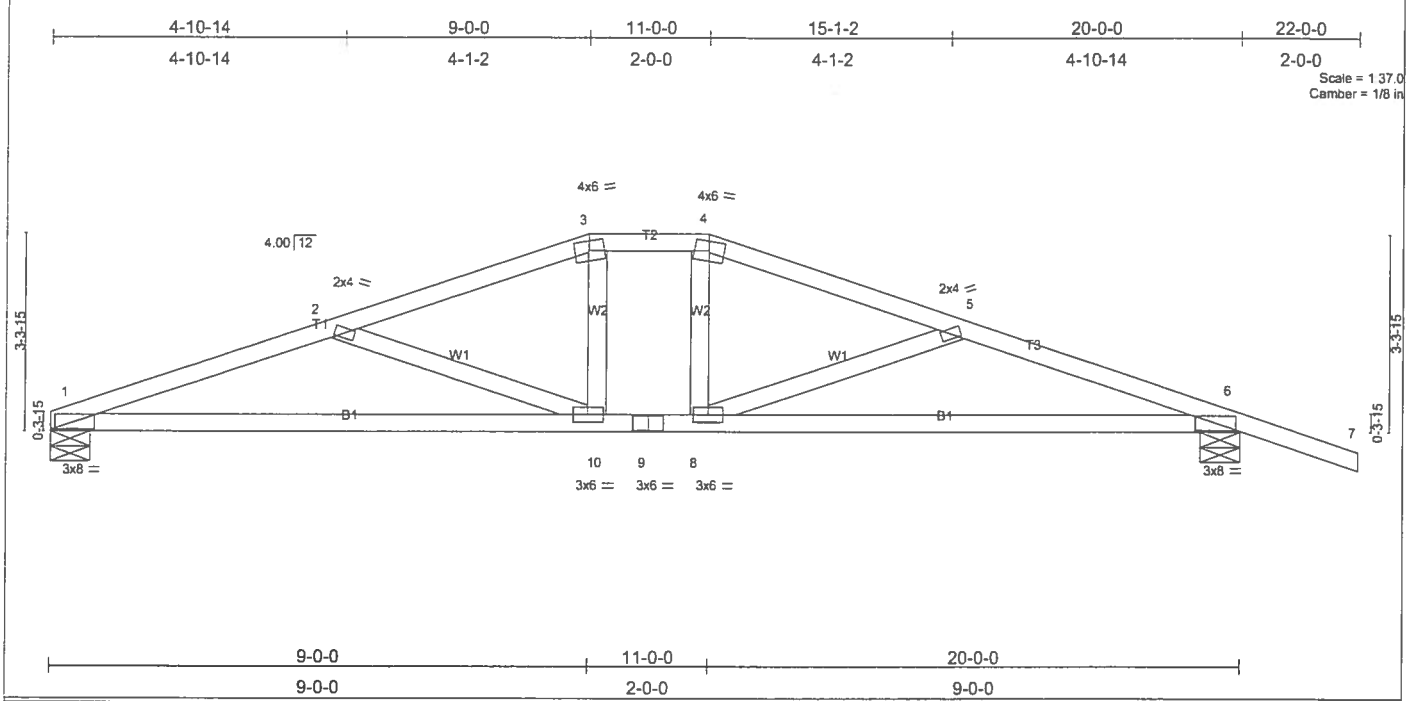

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.21	1-10	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.34	1-10	>676	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.05	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 86 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 4-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.

REACTIONS (lb/size) 1=804/0-8-0, 6=946/0-8-0
Max Horz 1=-86(load case 4)
Max Uplift1=-272(load case 3), 6=-414(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1792/816, 2-3=-1426/589, 3-4=-1327/591, 4-5=-1424/586, 5-6=-1741/741, 6-7=0/33
BOT CHORD 1-10=-669/1668, 9-10=-385/1327, 8-9=-385/1327, 6-8=-586/1610
WEBS 2-10=-420/306, 3-10=-83/298, 4-8=-27/257, 5-8=-363/221

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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 1 and 414 lb uplift at joint 6.

LOAD CASE(S) Standard

APRIL 19, 2006 TRUSS DESIGN ENGINEER:
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Dwg.#0419061448

Job	Truss	Truss Type	Qty	Ply	
L159975	T17	COMMON	2	1	Job Reference (optional)

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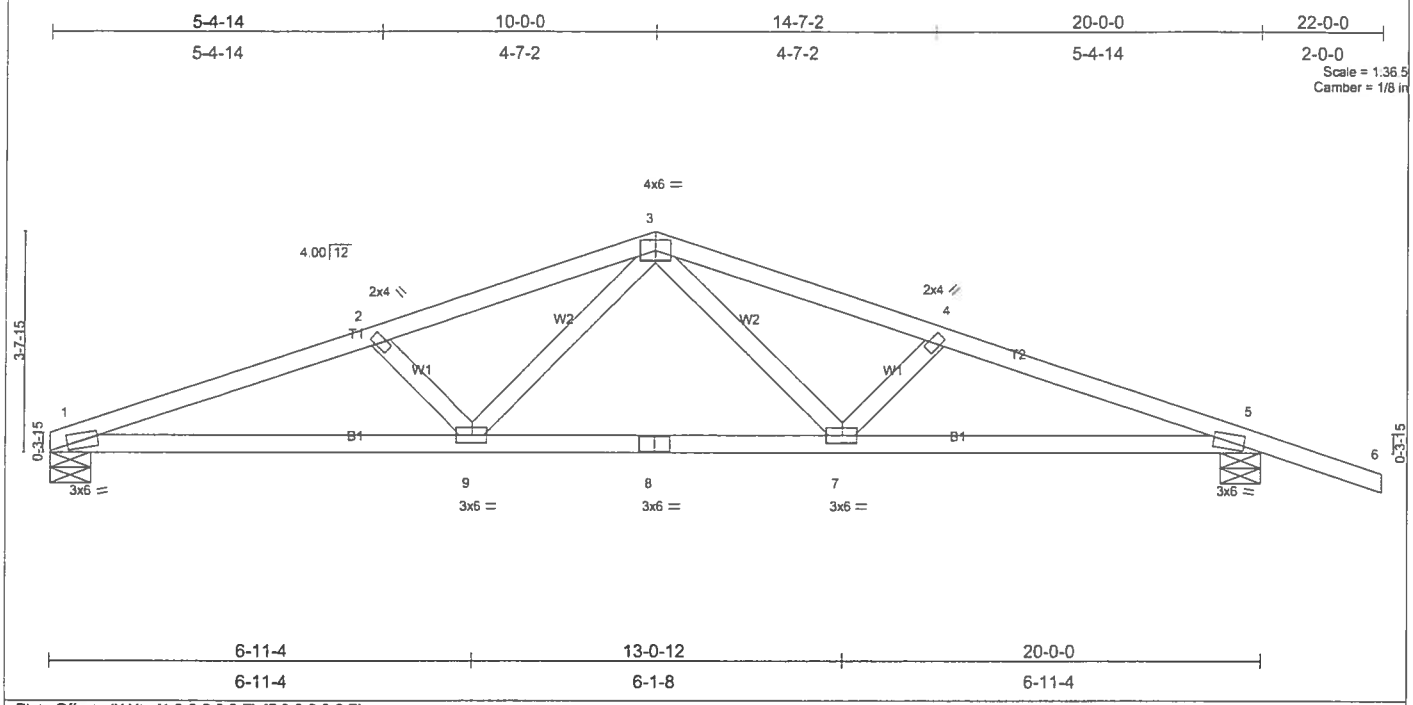

Plate Offsets (X,Y): [1:0-3-9,0-0-7], [5:0-3-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.20	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.81	Vert(TL)	-0.33	7-9	>711	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(TL)	0.06	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 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 3-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-9-5 oc bracing.

REACTIONS (lb/size) 1=958/0-8-0, 5=1099/0-8-0
Max Horz 1=-90(load case 4)
Max Uplift1=-324(load case 5), 5=-466(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2299/1005, 2-3=-2131/933, 3-4=-2093/878, 4-5=-2261/937, 5-6=0/33
BOT CHORD 1-9=-842/2132, 8-9=-510/1492, 7-8=-510/1492, 5-7=-768/2081
WEBS 2-9=-240/213, 3-9=-279/752, 3-7=-204/704, 4-7=-215/179

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 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 mechanical connection (by others) of truss to bearing plate capable of withstanding 324 lb uplift at joint 1 and 466 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: 1-3=-54, 3-6=-54, 1-9=-30, 7-9=-80(F=-50), 5-7=-30

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Dwg.#0419061449

Job	Truss	Truss Type	Qty	Ply	
L159975	T18	COMMON	3	1	Job Reference (optional)

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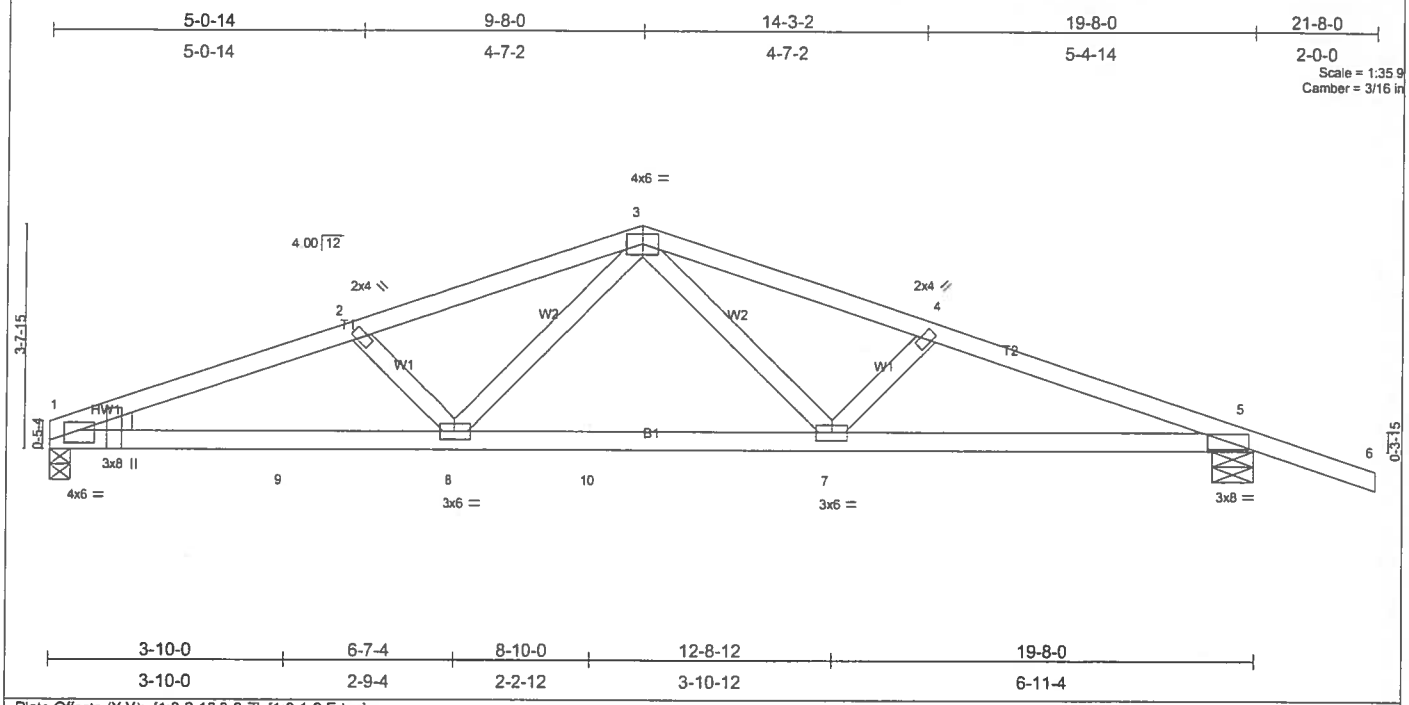

Plate Offsets (X,Y): [1:0-2-13,0-0-7], [1:0-1-9,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.20	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.88	Vert(TL)	-0.39	7-8	>588	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.29	Horz(TL)	0.07	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 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
WEDGE
Left: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS (lb/size) 5=1155/0-8-0, 1=1087/0-4-0
Max Horz 1=-90(load case 4)
Max Uplift5=-399(load case 6), 1=-186(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2548/664, 2-3=-2396/597, 3-4=-2268/668, 4-5=-2433/731, 5-6=0/33
BOT CHORD 1-9=-516/2359, 8-9=-516/2359, 8-10=-330/1638, 7-10=-330/1638, 5-7=-575/2242
WEBS 2-8=-208/202, 3-8=-74/911, 3-7=-175/734, 4-7=-206/188

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 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) 200.0lb AC unit load placed on the bottom chord, 6-4-0 from left end, supported at two points, 5-0-0 apart.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 399 lb uplift at joint 5 and 186 lb uplift at joint 1.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 100 lb down at 3-10-0, and 100 lb down at 8-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
6) 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, 3-6=-54, 1-8=-30, 7-8=-80(F=-50), 5-7=-30
Concentrated Loads (lb)
Vert: 9=-100 10=-100

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Dwg.#0419061450

Job	Truss	Truss Type	Qty	Ply	
L159975	T19	HIP	1	2	Job Reference (optional)

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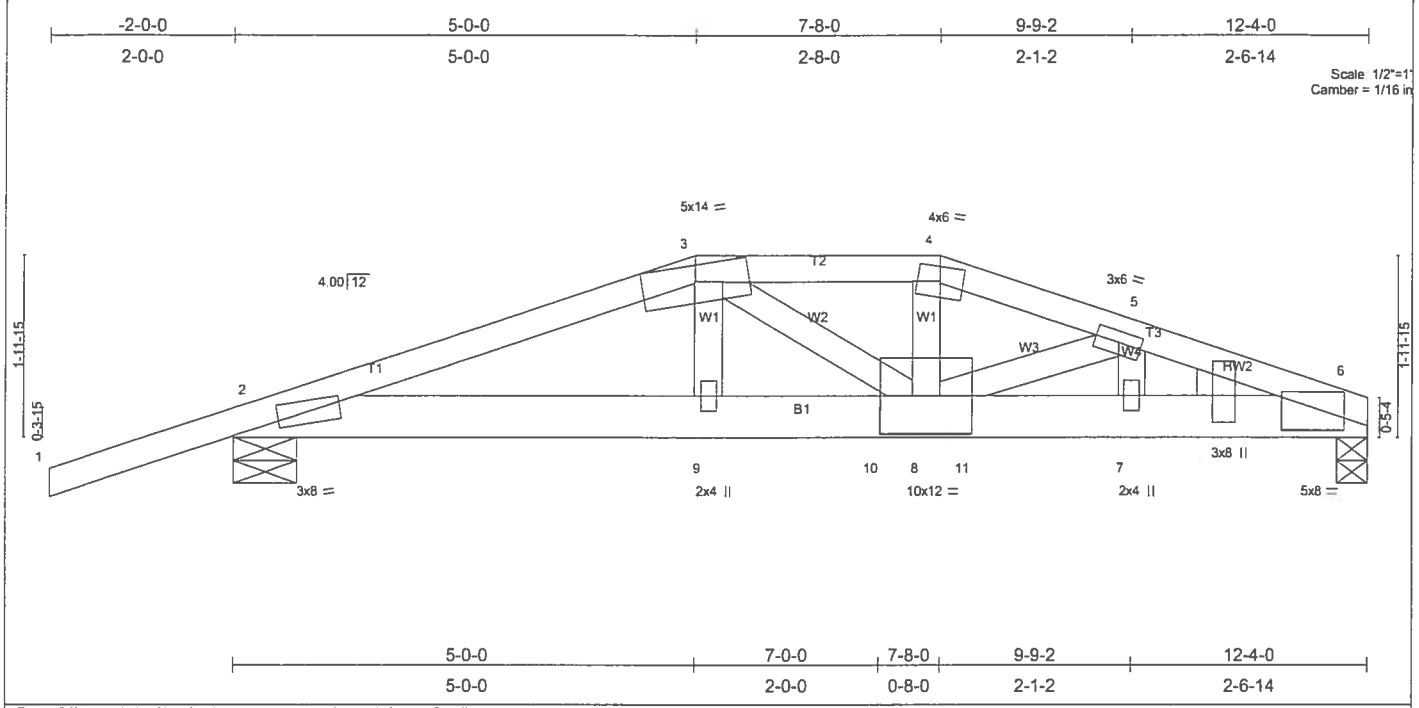

Plate Offsets (X,Y): [2:0-5-15,0-0-1], [6:0-3-1,0-0-10], [6:0-0-7,1-5-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.12	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.19	8-9	>767	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.39	Horz(TL)	0.04	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 128 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
Right: 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=2548/0-8-0, 6=4355/0-4-0
Max Horz 2=70(load case 2)
Max Uplift2=-1061(load case 2), 6=-1650(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-6637/2496, 3-4=-8184/3140, 4-5=-8393/3205, 5-6=-8928/3384
BOT CHORD 2-9=-2302/6226, 9-10=-2319/6291, 8-10=-2319/6291, 8-11=-3133/8312, 7-11=-3133/8312, 6-7=-3133/8312
WEBS 3-9=-207/744, 3-8=-887/2317, 4-8=-884/2431, 5-8=-383/353, 5-7=-330/657

NOTES
1) 2-ply truss to be connected together with 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 0-4-0 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) Unbalanced roof live loads have been considered for this design.
4) 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.
5) Provide adequate drainage to prevent water ponding.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1061 lb uplift at joint 2 and 1650 lb uplift at joint 6.
7) Girder carries tie-in span(s): 30-9-0 from 8-0-0 to 12-0-0
8) Girder carries hip end with 4-8-0 right side setback, 5-0-0 left side setback, and 5-0-0 end setback.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 229 lb down and 100 lb up at 7-8-0, and 245 lb down and 107 lb up at 5-0-0, and 2697 lb down and 1018 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, 3-4=-86(F=-31), 4-6=-54, 2-9=-30, 8-9=-47(F=-17), 8-11=-30, 6-11=-627(F=-597)
Concentrated Loads (lb)
Vert: 9=-245(F) 8=-229(F) 10=-2697(F)

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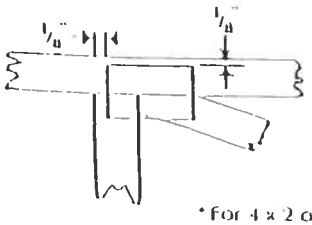
16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549

Symbols

PLATE LOCATION AND ORIENTATION

* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

* This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

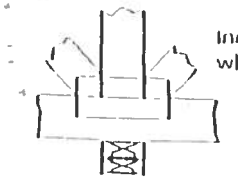
4 X 4

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

LATERAL BRACING

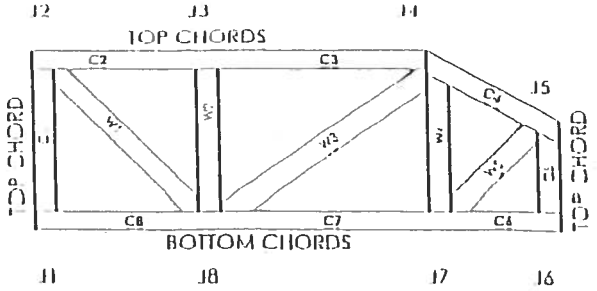
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9132A
WISC/DILHR	960022-W, 970036-H
HER	561

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

MiTek Engineering Reference Sheet: MII-7473