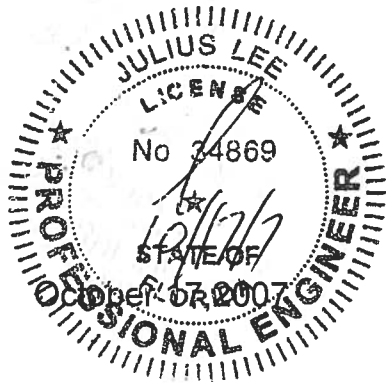
Builders FirstSource



Project Information for: L256777

Builder: Don Reed Construction
Address: 5255 Highway 240
... Lake City, FL
County: Columbia
Truss Count: 22
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

Truss Design Load Information:

Gravity: **Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B
Floor (psf): N/A Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:
Larry D. Reed Florida License No. CGC036224
Address: 2230 Southeast Baya Drive Suite 101 Lake City, Flordia 32025

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869
Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1902159	CJ1	10/17/07
2	J1902160	CJ3	10/17/07
3	J1902161	CJ5	10/17/07
4	J1902162	EJ7	10/17/07
5	J1902163	GABLE	10/17/07
6	J1902164	HJ9	10/17/07
7	J1902165	PB01	10/17/07
8	J1902166	PB01G	10/17/07
9	J1902167	PB02	10/17/07
10	J1902168	PB02G	10/17/07
11	J1902169	T01	10/17/07
12	J1902170	T01G	10/17/07
13	J1902171	T02	10/17/07
14	J1902172	T03	10/17/07
15	J1902173	T03G	10/17/07
16	J1902174	T04	10/17/07
17	J1902175	T04G	10/17/07
18	J1902176	T05	10/17/07
19	J1902177	T06	10/17/07
20	J1902178	T07	10/17/07
21	J1902179	T08	10/17/07
22	J1902180	T09	10/17/07

Builders FirstSource

Project Information for: **L256777**

Builder: Don Reed Construction
Address: 5255 Highway 240
... Lake City, FL
County: Columbia
Truss Count: 22
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

October 17,2007

Truss Design Load Information:

Gravity:

Roof (psf): 42.0
Floor (psf): N/A

Wind:

Wind Standard: ASCE 7-02 Wind Exposure: B
Wind Speed (mph): 110

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:

Larry D. Reed Florida License No. CGC036224
Address: 2230 Southeast Baya Drive Suite 101 Lake City, Flordia 32025

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869
Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1902159	CJ1	10/17/07
2	J1902160	CJ3	10/17/07
3	J1902161	CJ5	10/17/07
4	J1902162	EJ7	10/17/07
5	J1902163	GABLE	10/17/07
6	J1902164	HJ9	10/17/07
7	J1902165	PB01	10/17/07
8	J1902166	PB01G	10/17/07
9	J1902167	PB02	10/17/07
10	J1902168	PB02G	10/17/07
11	J1902169	T01	10/17/07
12	J1902170	T01G	10/17/07
13	J1902171	T02	10/17/07
14	J1902172	T03	10/17/07
15	J1902173	T03G	10/17/07
16	J1902174	T04	10/17/07
17	J1902175	T04G	10/17/07
18	J1902176	T05	10/17/07
19	J1902177	T06	10/17/07
20	J1902178	T07	10/17/07
21	J1902179	T08	10/17/07
22	J1902180	T09	10/17/07

Job	Truss	Truss Type	Qty	Ply	DON REED CONST.
L256777	CJ1	JACK	4	1	J1902159
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:24 2007 Page 1

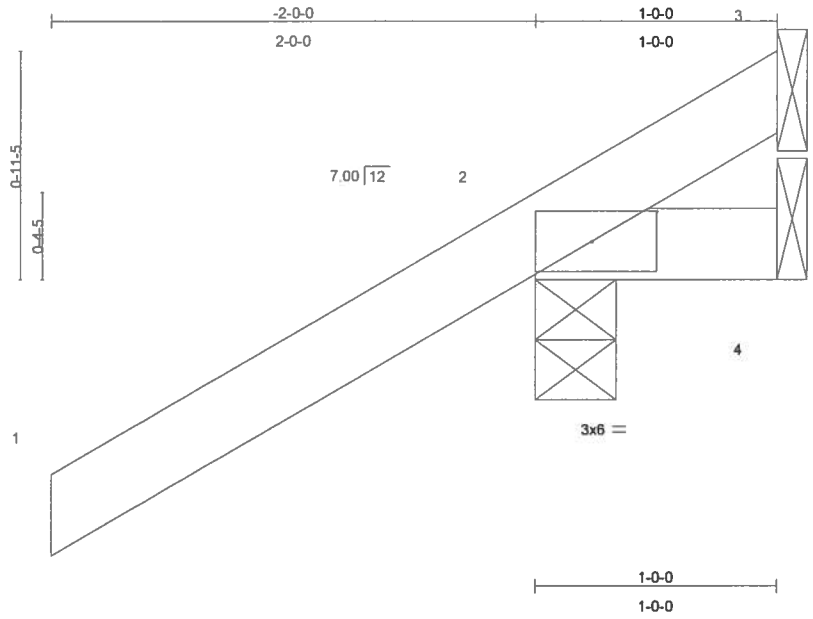


Plate Offsets (X,Y): [2:0-3-3,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	240		
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: 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=257/0-4-0, 4=5/Mechanical, 3=-91/Mechanical
Max Horz 2=101(load case 6)
Max Uplift 2=-296(load case 6), 4=-11(load case 4), 3=-91(load case 1)
Max Grav 2=257(load case 1), 4=14(load case 2), 3=137(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/53, 2-3=-78/87
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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902159
L256777	CJ1	JACK	4	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 2, 11 lb uplift at joint 4 and 91 lb uplift at joint 3.

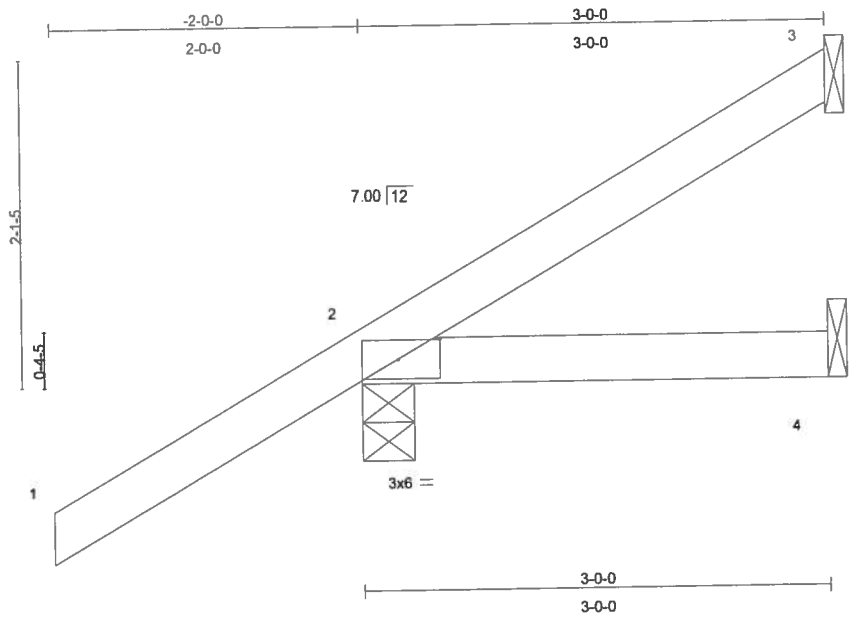
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1400 Coastal Ray Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST.	J1902160
L256777	CJ3	JACK	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:25 2007 Page 1



Scale = 1:14.3

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	2-4	>999	240		
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=251/0-4-0, 4=14/Mechanical
Max Horz 2=154(load case 6)
Max Uplift 3=-30(load case 7), 2=-237(load case 6), 4=-33(load case 4)
Max Grav 3=31(load case 4), 2=251(load case 1), 4=42(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-65/15
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.12

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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 31988
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902160
L256777	CJ3	JACK	4	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3, 237 lb uplift at joint 2 and 33 lb uplift at joint 4.

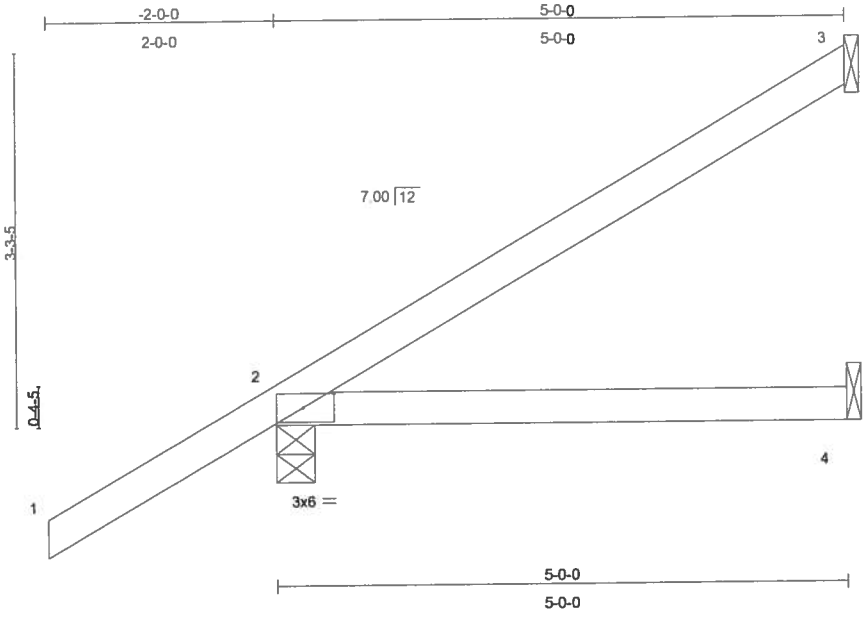
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902161
L256777	CJ5	JACK	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:25 2007 Page 1



Scale = 1:19.5

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.09	2-4	>671	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.24	Vert(TL)	-0.05	2-4	>999	240		
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: 20 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=296/0-4-0, 4=24/Mechanical
Max Horz 2=207(load case 6)
Max Uplift 3=-95(load case 6), 2=-252(load case 6), 4=-56(load case 4)
Max Grav 3=102(load case 1), 2=296(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-81/40
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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902161
L256777	CJ5	JACK	4	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 3, 252 lb uplift at joint 2 and 56 lb uplift at joint 4.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902162
L256777	EJ7	MONO TRUSS	17	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 17 11:32:41 2007 Page 1

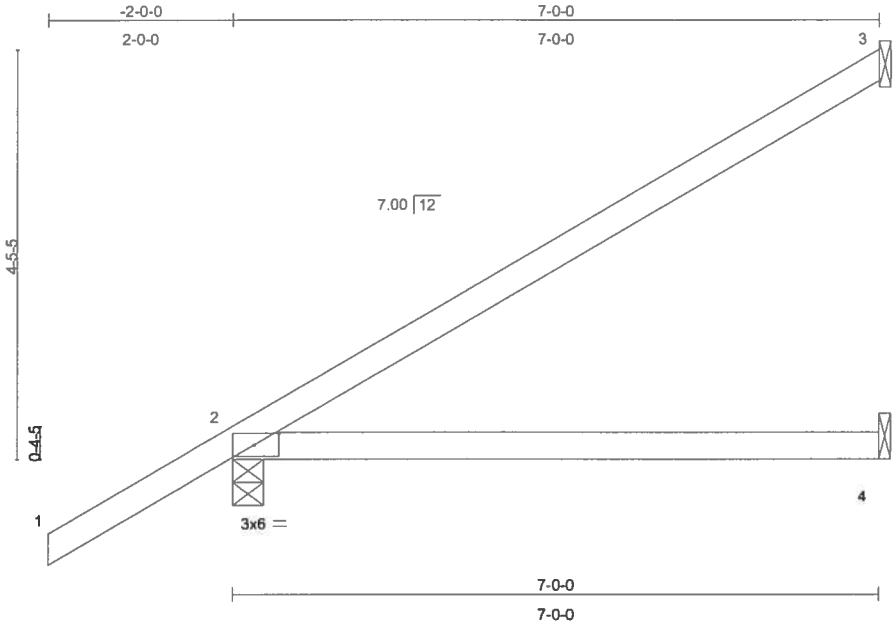


Plate Offsets (X,Y): [2:0-3-3,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	0.30	2-4	>270	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.16	2-4	>502	240		
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: 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=153/Mechanical, 2=352/0-4-0, 4=44/Mechanical
Max Horz 2=188(load case 6)
Max Uplift 3=-102(load case 6), 2=-216(load case 6), 4=-65(load case 5)
Max Grav 3=153(load case 1), 2=352(load case 1), 4=94(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-123/60
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.65

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 102 lb uplift at joint 3, 216 lb uplift at joint 2 and 65 lb uplift at joint 4.

LOAD CASE(S) Standard

October 17,2007

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	DON REED CONST.	J1902163
L256777	GABLE	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:27 2007 Page 1

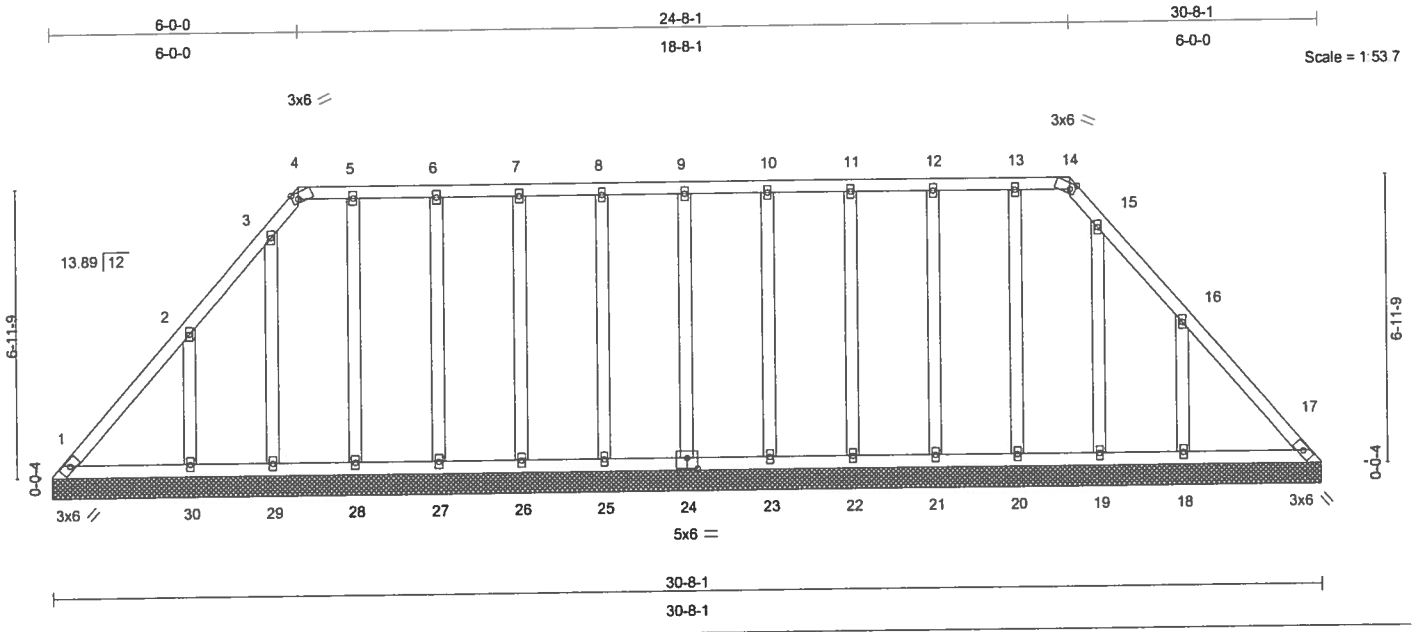


Plate Offsets (X,Y): [4:0-1-9,Edge], [14:0-1-9,Edge], [24:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.01	17	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 212 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 10-0-0 oc bracing.

REACTIONS (lb/size) 1=102/30-8-1, 17=102/30-8-1, 24=128/30-8-1, 25=128/30-8-1, 26=128/30-8-1, 27=129/30-8-1, 28=125/30-8-1, 29=85/30-8-1, 30=202/30-8-1, 23=128/30-8-1, 22=128/30-8-1, 21=129/30-8-1, 20=125/30-8-1, 19=85/30-8-1, 18=202/30-8-1
Max Horz 1=193(load case 5)
Max Uplift 1=-63(load case 4), 17=-15(load case 5), 24=-47(load case 5), 25=-47(load case 4), 26=-47(load case 5), 27=-54(load case 4), 28=-44(load case 5), 29=-52(load case 5), 30=-199(load case 6), 23=-47(load case 5), 22=-46(load case 5), 21=-51(load case 4), 20=-35(load case 5), 19=-18(load case 4), 18=-201(load case 7)
Max Grav 1=125(load case 5), 17=102(load case 1), 24=128(load case 1), 25=128(load case 11), 26=128(load case 10), 27=130(load case 11), 28=126(load case 10), 29=87(load case 10), 30=202(load case 1), 23=128(load case 10), 22=128(load case 11), 21=130(load case 10), 20=126(load case 11), 19=87(load case 11), 18=202(load case 1)

Julius Lee
Truss Design Engineer
Florida PE No 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902163
L256777	GABLE	GABLE	1	1	Job Reference (optional)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-182/120, 2-3=-81/104, 3-4=-58/112, 4-5=-19/113, 5-6=-19/113, 6-7=-19/113, 7-8=-19/113, 8-9=-19/113, 9-10=-19/113, 10-11=-19/113, 11-12=-19/113, 12-13=-19/113, 13-14=-19/113, 14-15=-58/112, 15-16=-81/82, 16-17=-132/58

BOT CHORD 1-30=-35/146, 29-30=-35/146, 28-29=-35/146, 27-28=-35/146, 26-27=-35/146, 25-26=-35/146, 24-25=-35/146, 23-24=-35/146, 22-23=-35/146, 21-22=-35/146, 20-21=-35/146, 19-20=-35/146, 18-19=-35/146, 17-18=-35/146

WEBS 9-24=-108/78, 8-25=-108/78, 7-26=-108/76, 6-27=-110/87, 5-28=-103/55, 3-29=-78/70, 2-30=-154/242, 10-23=-108/78, 11-22=-108/76, 12-21=-110/87, 13-20=-103/48, 15-19=-78/35, 16-18=-154/242

JOINT STRESS INDEX

1 = 0.23, 2 = 0.33, 3 = 0.33, 4 = 0.27, 5 = 0.33, 6 = 0.33, 7 = 0.33, 8 = 0.33, 9 = 0.33, 10 = 0.33, 11 = 0.33, 12 = 0.33, 13 = 0.33, 14 = 0.26, 15 = 0.33, 16 = 0.33, 17 = 0.23, 18 = 0.33, 19 = 0.33, 20 = 0.33, 21 = 0.33, 22 = 0.33, 23 = 0.33, 24 = 0.19, 25 = 0.33, 26 = 0.33, 27 = 0.33, 28 = 0.33, 29 = 0.33 and 30 = 0.33

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 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) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1, 15 lb uplift at joint 17, 47 lb uplift at joint 24, 47 lb uplift at joint 25, 47 lb uplift at joint 26, 54 lb uplift at joint 27, 44 lb uplift at joint 28, 52 lb uplift at joint 29, 199 lb uplift at joint 30, 47 lb uplift at joint 23, 46 lb uplift at joint 22, 51 lb uplift at joint 21, 35 lb uplift at joint 20, 18 lb uplift at joint 19 and 201 lb uplift at joint 18.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902164
L256777	HJ9	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:28 2007 Page 1

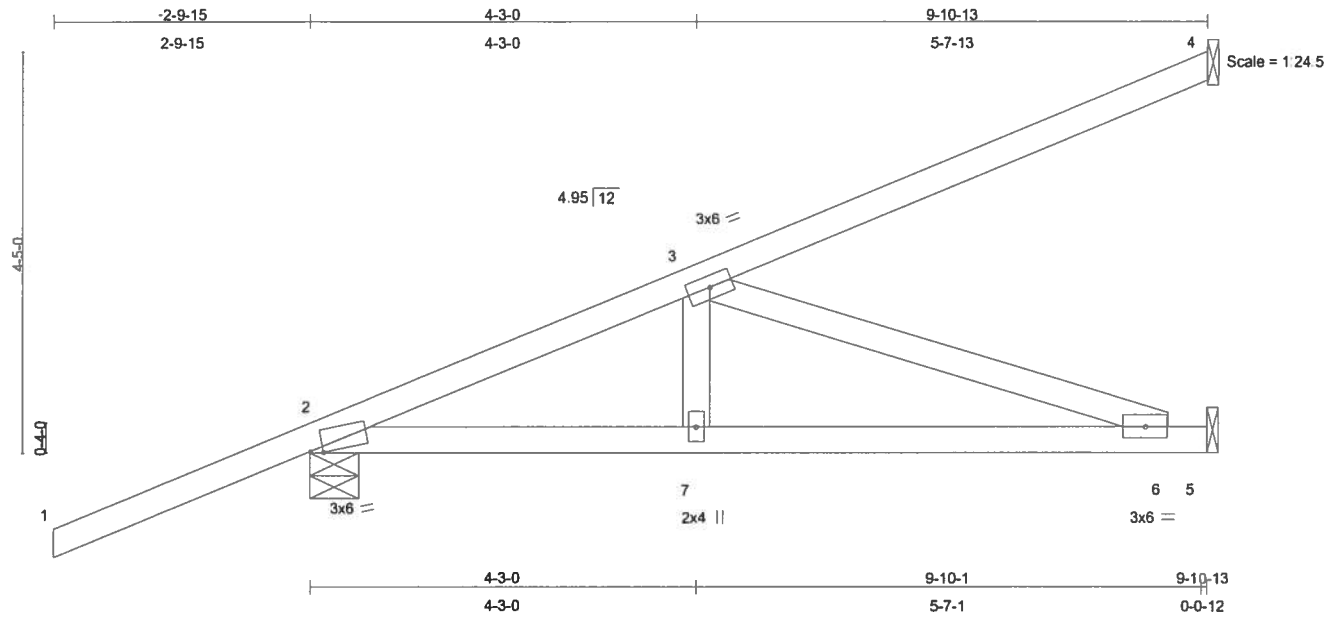


Plate Offsets (X,Y): [2:0-1-12,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	0.10	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.11	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.30	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 46 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 8-3-8 oc bracing.

REACTIONS (lb/size) 4=267/Mechanical, 2=458/0-6-7, 5=217/Mechanical
Max Horz 2=316(load case 5)
Max Uplift 4=-249(load case 5), 2=-384(load case 5), 5=-189(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-568/274, 3-4=-127/74
BOT CHORD 2-7=-483/512, 6-7=-483/512, 5-6=0/0
WEBS 3-7=-93/190, 3-6=-541/510

JOINT STRESS INDEX
2 = 0.89, 3 = 0.21, 6 = 0.15 and 7 = 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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 249 lb uplift at joint 4, 384 lb uplift at joint 2 and 189 lb uplift at joint 5.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Key Blvd
Boynton Beach, FL 33436

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902164
L256777	HJ9	MONO TRUSS	2	1	Job Reference (optional)

NOTES

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

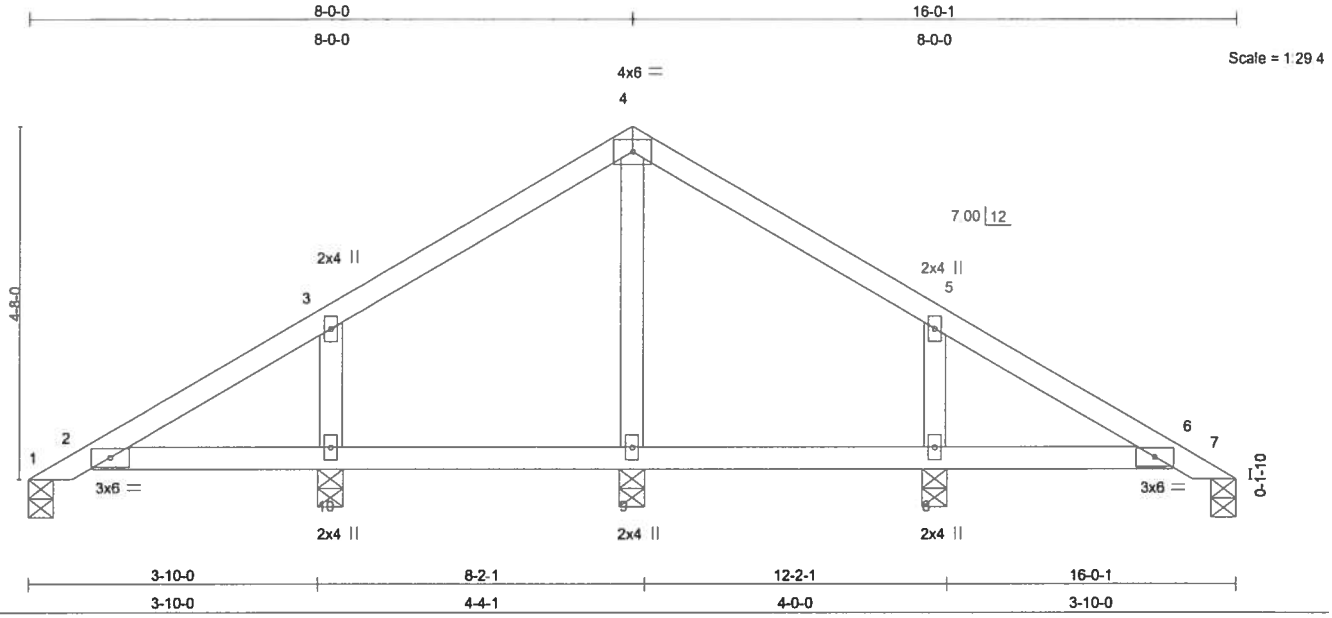
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54
   Trapezoidal Loads (plf)
   Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902165
L256777	PB01	VALLEY	29	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:28 2007 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	0.17	Vert(LL)	-0.00	6-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	6-8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.00	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 60 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) 7=66/0-4-0, 1=66/0-4-0, 9=322/0-4-0, 10=275/0-4-0, 8=275/0-4-0
Max Horz 7=127(load case 5)
Max Uplift 7=-28(load case 5), 1=-11(load case 6), 9=-20(load case 7), 10=-120(load case 6), 8=-124(load case 7)
Max Grav 7=73(load case 11), 1=73(load case 10), 9=322(load case 1), 10=287(load case 10), 8=287(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-30/129, 5-6=-103/130, 6-7=-129/130, 1-2=-32/14, 2-3=-64/130, 3-4=-6/129
BOT CHORD 2-10=-65/101, 9-10=-65/101, 8-9=-65/101, 6-8=-65/101
WEBS 4-9=-291/91, 3-10=-229/197, 5-8=-229/197

JOINT STRESS INDEX
2 = 0.22, 3 = 0.10, 4 = 0.32, 5 = 0.10, 6 = 0.22, 8 = 0.11, 9 = 0.10 and 10 = 0.11

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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Julius Lee
Truss Design Engineer
Florida PE No. 31985
1106 Emerald Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902165
L256777	PB01	VALLEY	29	1	Job Reference (optional)

NOTES

4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 7, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 7, 11 lb uplift at joint 1, 20 lb uplift at joint 9, 120 lb uplift at joint 10 and 124 lb uplift at joint 8.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

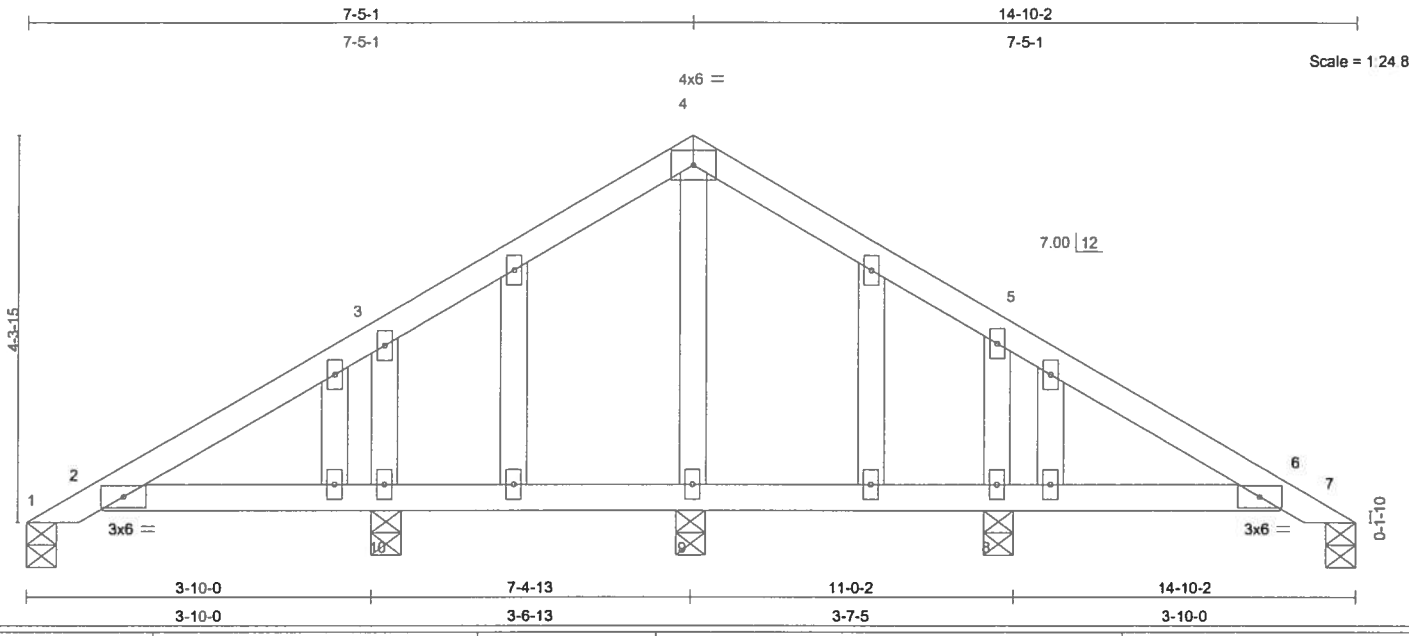
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902166
L256777	PB01G	GABLE	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 17 11:48:03 2007 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	0.16	Vert(LL)	-0.01	6-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.14	Vert(TL)	-0.02	6-8	>999	240		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 67 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
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 10-0-0 oc bracing.

REACTIONS (lb/size) 7=153/0-4-0, 1=152/0-4-0, 9=11/0-4-0, 10=307/0-4-0, 8=308/0-4-0
Max Horz 7=-118(load case 4)
Max Uplift 7=-22(load case 6), 1=-16(load case 6), 10=-114(load case 6), 8=-123(load case 7)
Max Grav 7=153(load case 1), 1=152(load case 1), 9=92(load case 2), 10=307(load case 1), 8=308(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	4-5=-201/125, 5-6=-162/55, 6-7=-115/113, 1-2=-68/26, 2-3=-162/39, 3-4=-201/124
BOT CHORD	2-10=-27/125, 9-10=-27/125, 8-9=-27/125, 6-8=-27/125
WEBS	3-10=-231/193, 5-8=-231/193

JOINT STRESS INDEX

2 = 0.43, 3 = 0.10, 4 = 0.17, 5 = 0.10, 6 = 0.44, 8 = 0.11, 9 = 0.00, 10 = 0.11, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00 and 18 = 0.00

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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902166
L256777	PB01G	GABLE	2	1	Job Reference (optional)

NOTES

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 7, 1 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 22 lb uplift at joint 7, 16 lb uplift at joint 1, 114 lb uplift at joint 10 and 123 lb uplift at joint 8.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
9) Truss designed for wind loads in plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail".

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Ray Blvd
Boynton Beach, FL 33436

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902167
L256777	PB02	VALLEY	9	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:30 2007 Page 1

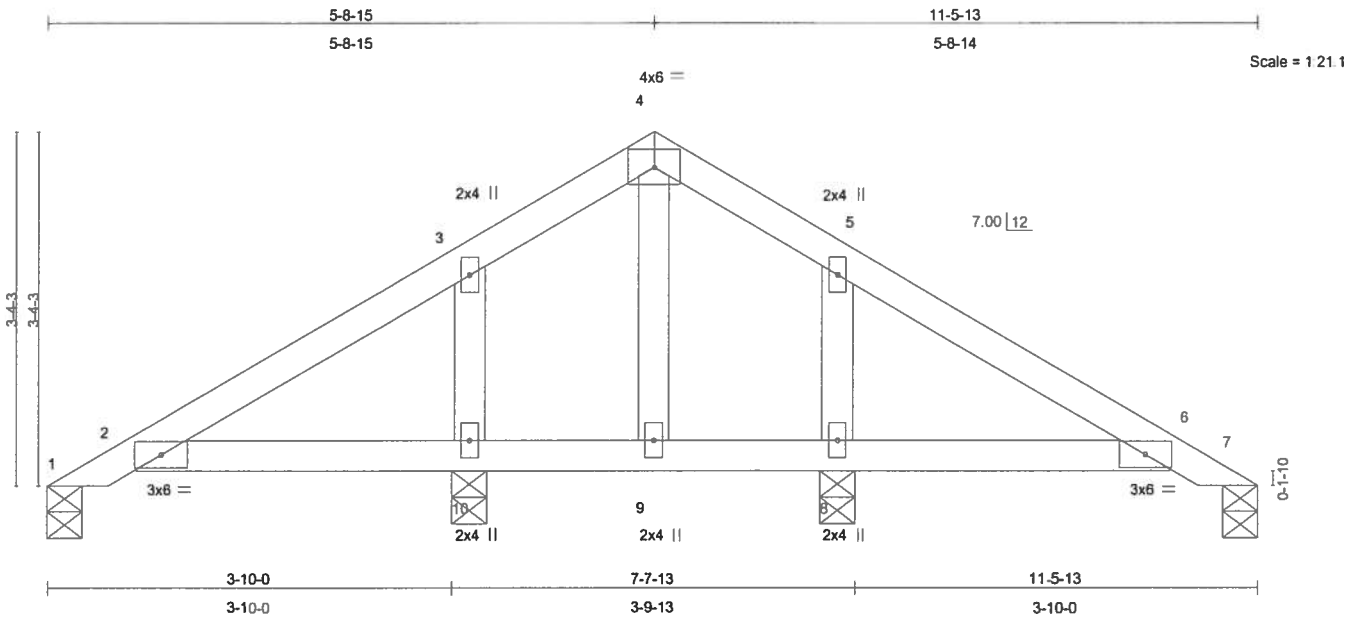


Plate Offsets (X,Y): [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.11	Vert(LL)	-0.01	2-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	2-10	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.01	1	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
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) 7=70/0-4-0, 1=71/0-4-0, 10=287/0-4-0, 8=287/0-4-0
Max Horz 7=90(load case 5)
Max Uplift 7=-5(load case 6), 1=-8(load case 5), 10=-90(load case 6), 8=-101(load case 7)
Max Grav 7=80(load case 11), 1=80(load case 10), 10=287(load case 1), 8=287(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-12/64, 5-6=-93/116, 6-7=-88/86, 1-2=-35/11, 2-3=-93/116, 3-4=-6/64
BOT CHORD 2-10=-55/133, 9-10=-55/133, 8-9=-55/133, 6-8=-55/133
WEBS 4-9=-64/26, 3-10=-196/162, 5-8=-196/162

JOINT STRESS INDEX
2 = 0.30, 3 = 0.08, 4 = 0.10, 5 = 0.08, 6 = 0.30, 8 = 0.09, 9 = 0.02 and 10 = 0.09

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 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.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902167
L256777	PB02	VALLEY	9	1	Job Reference (optional)

NOTES

3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 7, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 7, 8 lb uplift at joint 1, 90 lb uplift at joint 10 and 101 lb uplift at joint 8.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

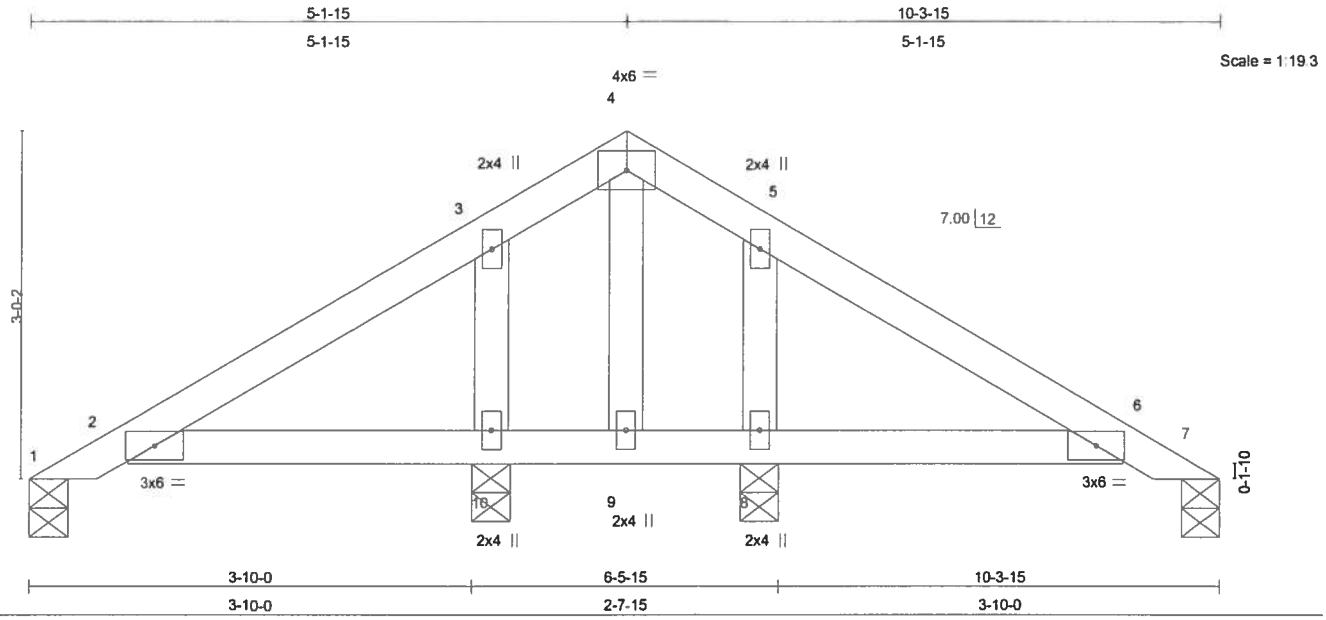
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No 34869
1106 Coastal Key Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902168
L256777	PB02G	VALLEY	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:31 2007 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	0.11	Vert(LL)	-0.00	6-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.01	6-8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.00	1	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 39 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) 7=44/0-4-0, 1=44/0-4-0, 10=277/0-4-0, 8=277/0-4-0
Max Horz 7=-81(load case 4)
Max Uplift 7=-3(load case 6), 1=-13(load case 5), 10=-85(load case 6), 8=-97(load case 7)
Max Grav 7=61(load case 11), 1=61(load case 10), 10=277(load case 1), 8=277(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-20/121, 5-6=-115/187, 6-7=-78/78, 1-2=-26/11, 2-3=-115/187, 3-4=-20/121
BOT CHORD 2-10=-118/154, 9-10=-118/154, 8-9=-118/154, 6-8=-118/154
WEBS 4-9=-75/11, 3-10=-192/160, 5-8=-192/160

JOINT STRESS INDEX
2 = 0.26, 3 = 0.08, 4 = 0.11, 5 = 0.08, 6 = 0.26, 8 = 0.09, 9 = 0.03 and 10 = 0.09

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 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902168
L256777	PB02G	VALLEY	1	1	Job Reference (optional)

NOTES

4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Bearing at joint(s) 7, 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 7, 13 lb uplift at joint 1, 85 lb uplift at joint 10 and 97 lb uplift at joint 8.
7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
8) Truss designed for wind loads in plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail".

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Key Blvd
Boynton Beach, FL 33435

October 17,2007

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902169
L256777	T01	SPECIAL	12	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:32 2007 Page 1

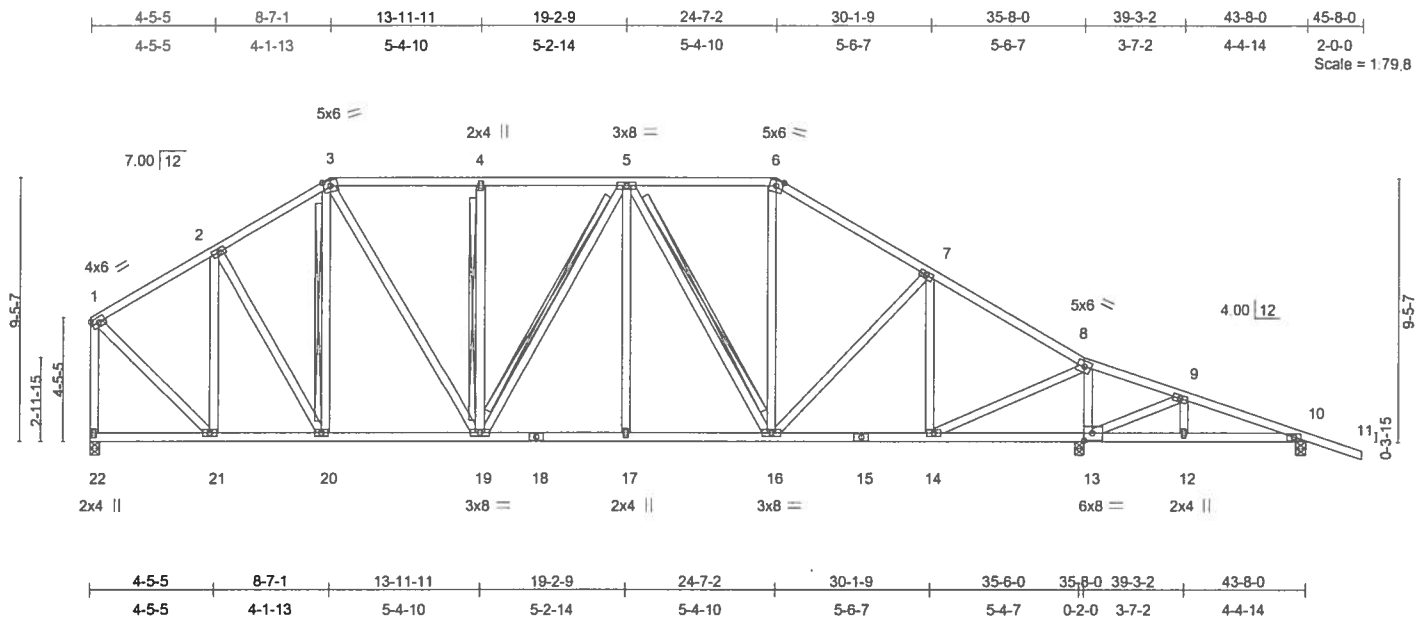


Plate Offsets (X,Y): [13:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	0.06	17-19	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.23	Vert(TL)	-0.11	17-19	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.04	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 311 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 5-10-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-20, 4-19, 5-19, 5-16
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 22=1112/0-4-0, 13=1534/0-4-0, 10=245/0-4-0
Max Horz 22=-266(load case 4)
Max Uplift 22=-233(load case 5), 13=-467(load case 4), 10=-292(load case 5)
Max Grav 22=1112(load case 1), 13=1534(load case 1), 10=252(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-792/412, 2-3=-966/586, 3-4=-1028/675, 4-5=-1027/675, 5-6=-905/619, 6-7=-1119/646, 7-8=-1001/491, 8-9=-205/391, 9-10=0/168, 10-11=0/33, 1-22=-1085/550
BOT CHORD 21-22=-6/268, 20-21=-124/635, 19-20=-138/791, 18-19=-225/1060, 17-18=-225/1060, 16-17=-225/1060, 15-16=-158/802, 14-15=-158/802, 13-14=-263/304, 12-13=-130/0, 10-12=-130/0
WEBS 2-21=-571/310, 2-20=-161/344, 3-20=-245/166, 3-19=-240/521, 4-19=-297/207, 5-19=-112/82, 5-17=0/151, 5-16=-399/220, 6-16=-115/278, 7-16=-157/226,

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902169
L256777	T01	SPECIAL	12	1	Job Reference (optional)

JOINT STRESS INDEX

1 = 0.46, 2 = 0.42, 3 = 0.34, 4 = 0.33, 5 = 0.59, 6 = 0.42, 7 = 0.40, 8 = 0.54, 9 = 0.38, 10 = 0.39, 12 = 0.33, 13 = 0.18, 14 = 0.66, 15 = 0.29, 16 = 0.59, 17 = 0.33, 18 = 0.36, 19 = 0.59, 20 = 0.43, 21 = 0.53 and 22 = 0.45

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 and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 22, 467 lb uplift at joint 13 and 292 lb uplift at joint 10.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902170
L256777	T01G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:36 2007 Page 1

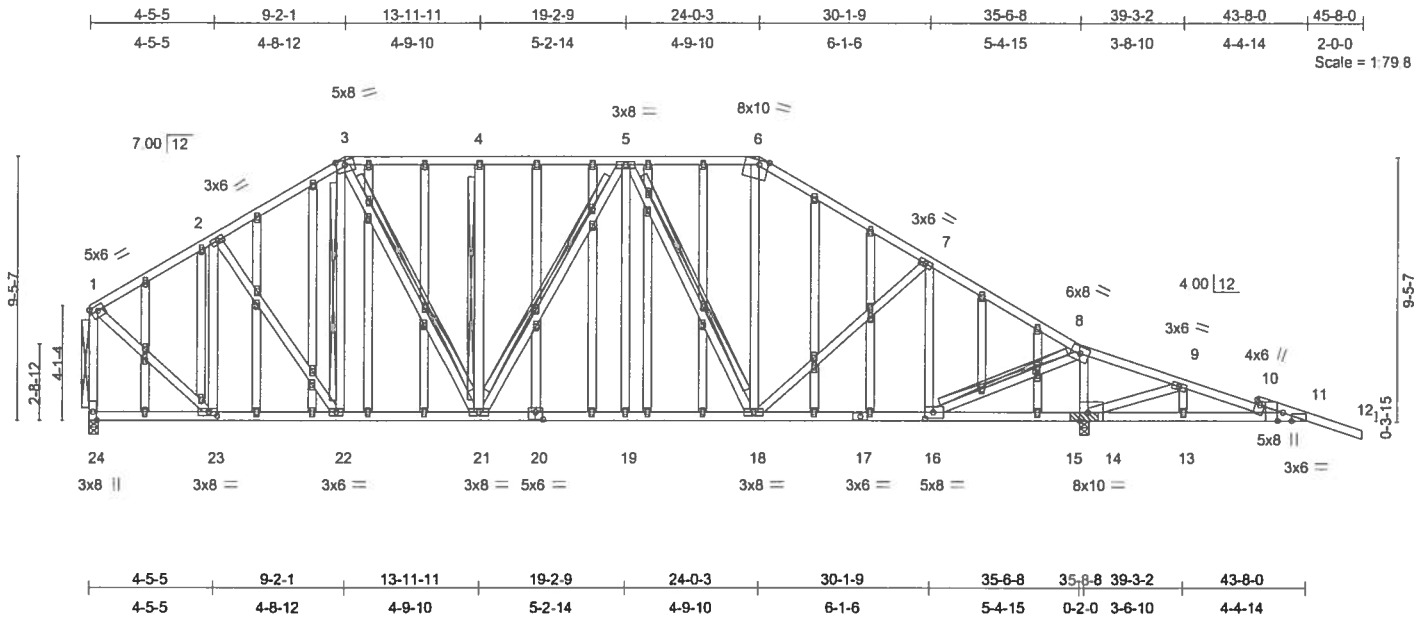


Plate Offsets (X,Y): [1:0-2-12,0-2-0], [6:0-4-1,Edge], [10:Edge,0-2-0], [11:0-3-12,Edge], [11:0-3-8,Edge], [14:0-3-8,Edge], [16:0-3-8,0-2-8], [20:0-3-0,0-3-0], [23:0-3-8,0-1-8], [63:0-1-12,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	0.16	19-21	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.19	19-21	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	1.00	Horz(TL)	0.05	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 458 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2 *Except* 8-11 2 X 4 SYP No.1D
BOT CHORD	2 X 4 SYP No.2
WEBS	2 X 4 SYP No.3 *Except* 8-16 2 X 4 SYP No.2
OTHERS	2 X 4 SYP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-8 max.): 3-6.
BOT CHORD	Rigid ceiling directly applied or 4-1-13 oc bracing.
WEBS	T-Brace: 2 X 4 SYP No.3 - 3-22, 3-21, 4-21, 5-21, 5-18, 8-16, 1-24

Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 24=2035/0-4-0, 14=3590/0-4-4 (0-4-0 + bearing block)
Max Horz 24=-336(load case 4)
Max Uplift 24=-1097(load case 5), 14=-2382(load case 5)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902170
L256777	T01G	GABLE	1	1	Job Reference (optional)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1528/1234, 2-3=-1845/1564, 3-4=-1806/1591, 4-5=-1805/1590, 5-6=-1496/1267, 6-7=-1905/1477, 7-8=-1314/750, 8-9=-3162/2612, 9-10=-2529/2077, 10-11=-2481/1988, 11-12=-39/69, 1-24=-2001/1632

BOT CHORD 23-24=-34/321, 22-23=-725/1222, 21-22=-879/1481, 20-21=-1085/1800, 19-20=-1085/1800, 18-19=-1085/1800, 17-18=-447/1009, 16-17=-447/1009, 15-16=-2203/2899, 14-15=-2203/2899, 13-14=-1935/2484, 11-13=-1935/2484

WEBS 2-23=-1038/881, 2-22=-401/484, 3-22=-340/349, 3-21=-613/762, 4-21=-590/561, 5-21=-182/88, 5-19=0/138, 5-18=-719/699, 6-18=-113/328, 7-18=-817/648, 7-16=-1389/1483, 8-16=-3488/3514, 8-14=-3375/3256, 9-14=-493/644, 9-13=-135/102, 1-23=-1245/1590

JOINT STRESS INDEX

1 = 0.76, 2 = 0.50, 3 = 0.59, 4 = 0.33, 5 = 0.60, 6 = 0.88, 7 = 0.85, 8 = 0.88, 9 = 0.38, 10 = 0.00, 10 = 0.90, 11 = 0.75, 11 = 0.18, 13 = 0.33, 14 = 0.65, 14 = 0.00, 15 = 0.00, 15 = 0.00, 16 = 0.76, 17 = 0.38, 18 = 0.62, 19 = 0.33, 20 = 0.42, 21 = 0.82, 22 = 0.41, 23 = 0.86, 24 = 0.60, 25 = 0.33, 26 = 0.33, 27 = 0.33, 27 = 0.33, 28 = 0.33, 28 = 0.33, 29 = 0.33, 30 = 0.33, 31 = 0.33, 31 = 0.33, 32 = 0.33, 33 = 0.33, 34 = 0.33, 34 = 0.33, 35 = 0.33, 36 = 0.33, 36 = 0.33, 37 = 0.33, 38 = 0.33, 39 = 0.33, 39 = 0.33, 40 = 0.33, 41 = 0.33, 42 = 0.33, 42 = 0.33, 43 = 0.33, 44 = 0.33, 45 = 0.33, 45 = 0.33, 46 = 0.33, 47 = 0.33, 48 = 0.33, 49 = 0.33, 50 = 0.33, 50 = 0.33, 51 = 0.33, 52 = 0.33, 53 = 0.33, 54 = 0.33, 55 = 0.33, 55 = 0.33, 56 = 0.33, 57 = 0.33, 58 = 0.33, 58 = 0.33, 59 = 0.33, 60 = 0.33, 61 = 0.33, 62 = 0.33, 63 = 0.39 and 63 = 0.33

NOTES

1) 2 X 4 SYP No.2 bearing block 12" long at jt. 14 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SYP.
2) Unbalanced roof live loads have been considered for this design.
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 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.
4) 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"
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1097 lb uplift at joint 24 and 2382 lb uplift at joint 14.
11) 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

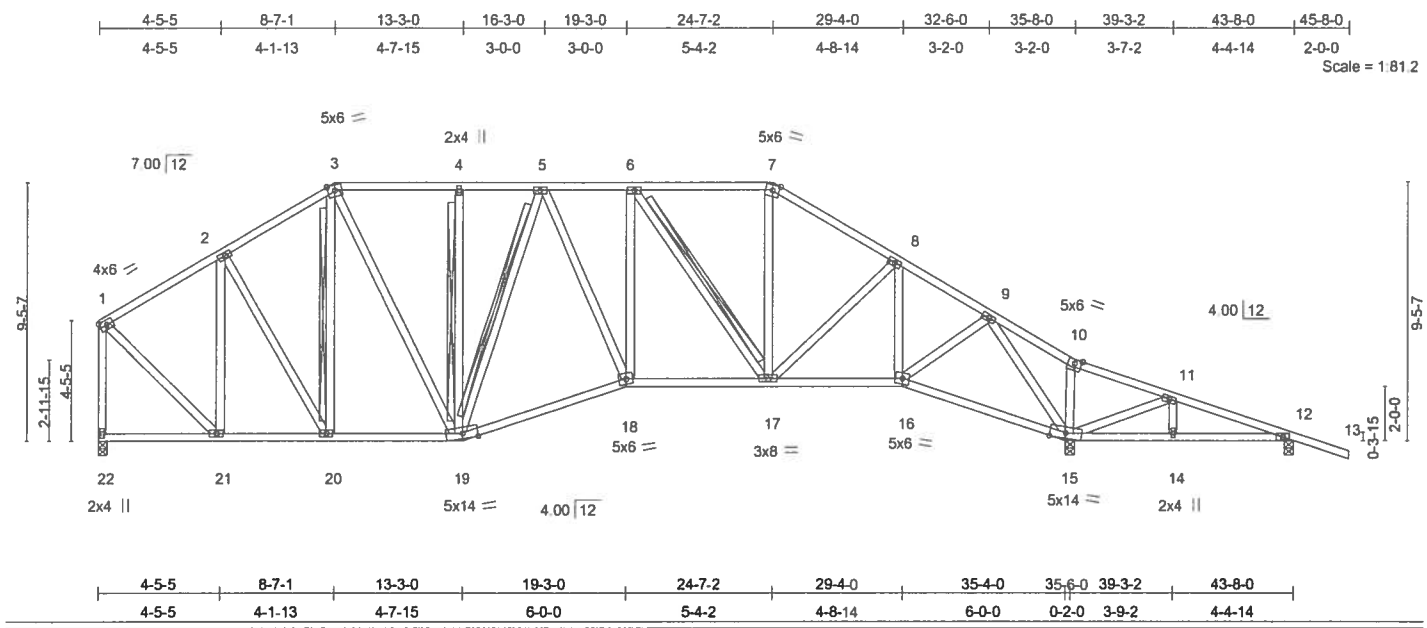
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-114(F=-60), 3-6=-114(F=-60), 6-8=-114(F=-60), 8-12=-114(F=-60), 11-24=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902171
L256777	T02	SPECIAL	10	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:37 2007 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)	-0.07	18	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.14	18-19	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.95	Horz(TL)	0.08	15	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 314 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 5-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-13 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 14-15,12-14.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-20, 4-19, 5-19, 6-17
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 22=1068/0-4-0, 15=1679/0-4-0, 12=145/0-4-0
Max Horz 22=-266(load case 4)
Max Uplift 22=-229(load case 5), 15=-501(load case 4), 12=-290(load case 5)
Max Grav 22=1068(load case 1), 15=1679(load case 1), 12=156(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-760/397, 2-3=-918/567, 3-4=-936/631, 4-5=-935/631, 5-6=-1232/701, 6-7=-1005/594, 7-8=-1213/623, 8-9=-1092/476, 9-10=-306/811, 10-11=-345/736, 11-12=0/399, 12-13=0/33, 1-22=-1041/530
BOT CHORD 21-22=-6/268, 20-21=-121/608, 19-20=-133/747, 18-19=-226/1156, 17-18=-231/1230, 16-17=-107/921, 15-16=0/322, 14-15=-353/46, 12-14=-353/46
WEBS 2-21=-542/300, 2-20=-154/313, 3-20=-228/155, 3-19=-222/482, 4-19=-227/149, 5-19=-499/156, 5-18=-58/375, 6-18=-45/166, 6-17=-464/235, 7-17=-115/320, 8-17=-185/197, 8-16=-341/229, 9-16=-247/783, 9-15=-1830/752, 10-15=-45/102,

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902171
L256777	T02	SPECIAL	10	1	Job Reference (optional)

JOINT STRESS INDEX

1 = 0.44, 2 = 0.42, 3 = 0.30, 4 = 0.33, 5 = 0.41, 6 = 0.41, 7 = 0.39, 8 = 0.40, 9 = 0.61, 10 = 0.34, 11 = 0.38, 12 = 0.39, 14 = 0.33, 15 = 0.72, 16 = 0.45, 17 = 0.56, 18 = 0.53, 19 = 0.30, 20 = 0.43, 21 = 0.51 and 22 = 0.44

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 and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 22, 501 lb uplift at joint 15 and 290 lb uplift at joint 12.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 31868
1116 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902172
L256777	T03	HIP	9	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:39 2007 Page 1

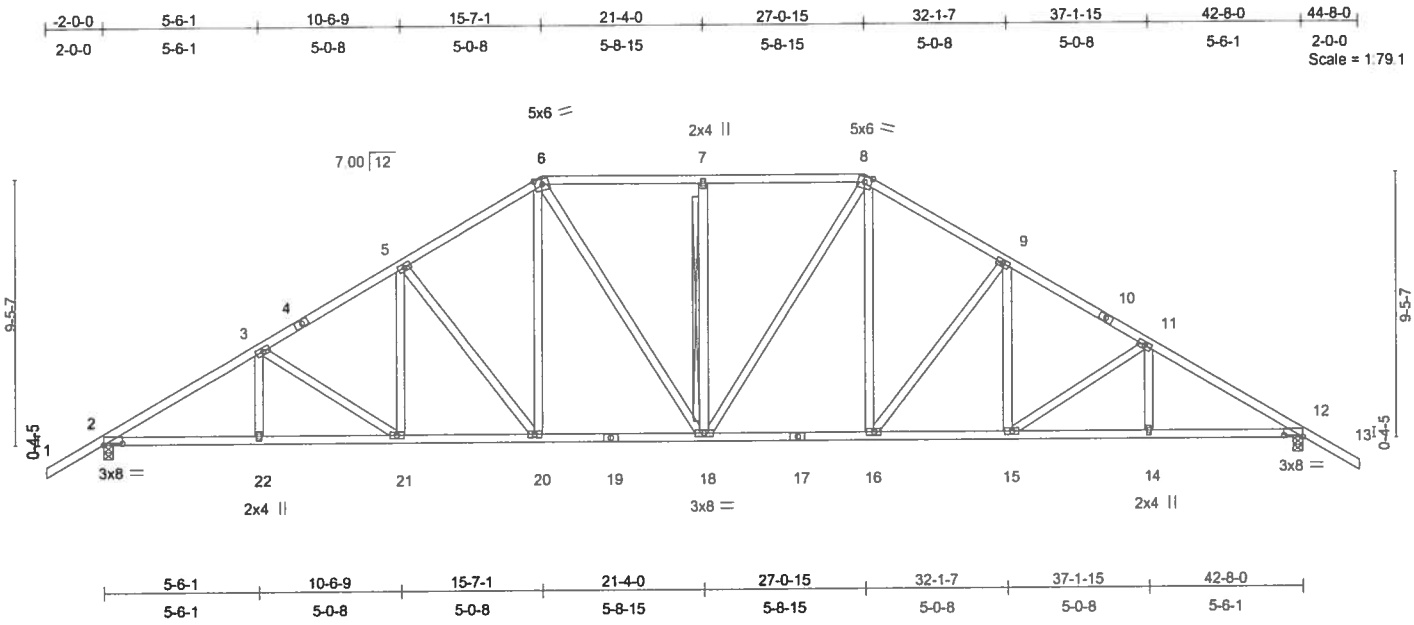


Plate Offsets (X,Y): [2:0-8-1,0-0-10], [12:0-8-1,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.15	18	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.38	Vert(TL)	-0.27	16-18	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.13	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 278 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 3-11-14 oc purlins, except
2-0-0 oc purlins (4-10-14 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 7-4-2 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 7-18
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=1472/0-4-0, 12=1472/0-4-0
Max Horz 2=-252(load case 4)
Max Uplift 2=-356(load case 6), 12=-356(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-2343/1052, 3-4=-2050/1001, 4-5=-1981/1020, 5-6=-1758/967, 6-7=-1571/943, 7-8=-1571/943, 8-9=-1758/967, 9-10=-1981/1020, 10-11=-2050/1001, 11-12=-2343/1052, 12-13=0/54
BOT CHORD 2-22=-738/1936, 21-22=-738/1936, 20-21=-592/1711, 19-20=-414/1455, 18-19=-414/1455, 17-18=-414/1455, 16-17=-414/1455, 15-16=-592/1711, 14-15=-738/1936, 12-14=-738/1936
WEBS 3-22=0/163, 3-21=-273/174, 5-21=-70/251, 5-20=-407/282, 6-20=-189/382, 6-18=-215/359, 7-18=-321/215, 8-18=-215/359, 8-16=-189/382, 9-16=-407/282, 9-15=-70/251, 11-15=-273/174, 11-14=0/163

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
105 Crandall Park Blvd
Boynton Beach, FL 33436

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902172
L256777	T03	HIP	9	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.76, 3 = 0.40, 4 = 0.39, 5 = 0.41, 6 = 0.45, 7 = 0.33, 8 = 0.45, 9 = 0.41, 10 = 0.39, 11 = 0.40, 12 = 0.76, 14 = 0.33, 15 = 0.34, 16 = 0.39, 17 = 0.50, 18 = 0.57, 19 = 0.50, 20 = 0.39, 21 = 0.34 and 22 = 0.33

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 and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 356 lb uplift at joint 2 and 356 lb uplift at joint 12.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902173
L256777	T03G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:41 2007 Page 1

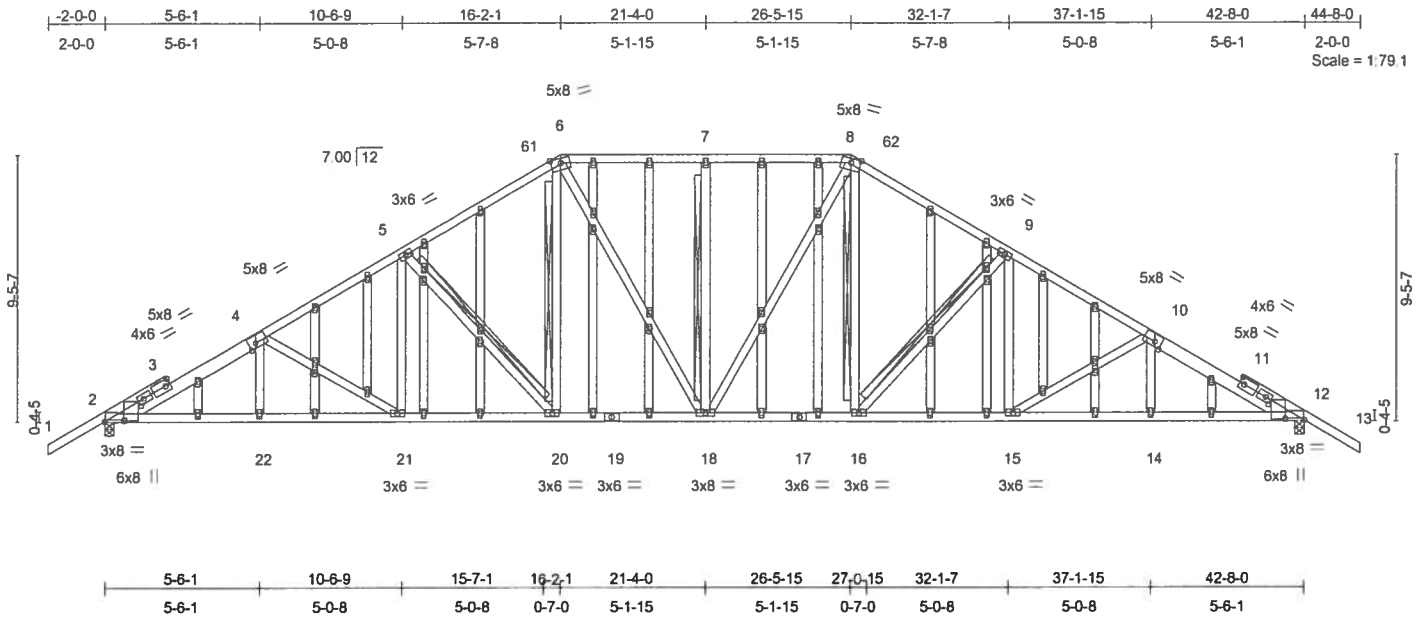


Plate Offsets (X,Y): [2:0-8-5,0-0-12], [2:0-0-8,0-8-5], [3:0-2-6,0-2-0], [4:0-3-0,Edge], [10:0-3-0,Edge], [11:0-2-6,0-2-0], [12:0-8-5,0-0-12], [12:0-0-8,0-8-5]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.71	Vert(LL)	0.47	18-20	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.72	Vert(TL)	-0.53	18-20	>962	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.67	Horz(TL)	0.24	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 410 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2 *Except*
2-4 2 X 6 SYP No.1D, 10-12 2 X 6 SYP No.1D
BOT CHORD 2 X 4 SYP No.1D *Except*
17-19 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-6 oc purlins, except
2-0-0 oc purlins (3-4-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 3-7-10 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-20, 6-20, 7-18, 8-16, 9-16
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=2872/0-4-0, 12=2872/0-4-0
Max Horz 2=243(load case 5)
Max Uplift 2=-1357(load case 5), 12=-1357(load case 4)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902173
L256777	T03G	GABLE	1	1	Job Reference (optional)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-22/114, 2-3=-4982/3945, 3-4=-4885/3932, 4-5=-4231/3404, 5-61=-3487/2873, 6-61=-3195/2816, 6-7=-3028/2641, 7-8=-3028/2641, 8-62=-3195/2816, 9-62=-3487/2873, 9-10=-4231/3404, 10-11=-4885/3932, 11-12=-4982/3945, 12-13=-22/114

BOT CHORD 2-22=-3332/4287, 21-22=-3342/4290, 20-21=-2640/3511, 19-20=-2040/2861, 18-19=-2040/2861, 17-18=-2040/2861, 16-17=-2040/2861, 15-16=-2640/3511, 14-15=-3342/4290, 12-14=-3332/4287

WEBS 4-22=-183/161, 4-21=-884/797, 5-21=-560/472, 5-20=-934/859, 6-20=-819/739, 6-18=-344/483, 7-18=-560/315, 8-18=-344/483, 8-16=-819/739, 9-16=-934/859, 9-15=-560/472, 10-15=-884/797, 10-14=-183/161

JOINT STRESS INDEX

2 = 0.84, 2 = 0.80, 3 = 0.00, 3 = 0.76, 3 = 0.96, 4 = 0.94, 5 = 0.51, 6 = 0.77, 7 = 0.33, 8 = 0.77, 9 = 0.51, 10 = 0.94, 11 = 0.00, 11 = 0.96, 11 = 0.76, 12 = 0.84, 12 = 0.80, 14 = 0.33, 15 = 0.35, 16 = 0.47, 17 = 0.93, 18 = 0.58, 19 = 0.93, 20 = 0.47, 21 = 0.35, 22 = 0.33, 23 = 0.33, 23 = 0.33, 24 = 0.33, 25 = 0.33, 26 = 0.33, 26 = 0.33, 27 = 0.33, 28 = 0.33, 29 = 0.33, 29 = 0.33, 30 = 0.33, 31 = 0.33, 32 = 0.33, 32 = 0.33, 33 = 0.33, 34 = 0.33, 35 = 0.33, 36 = 0.33, 37 = 0.33, 37 = 0.33, 38 = 0.33, 39 = 0.33, 40 = 0.33, 41 = 0.33, 42 = 0.33, 43 = 0.33, 44 = 0.33, 44 = 0.33, 45 = 0.33, 46 = 0.33, 47 = 0.33, 47 = 0.33, 48 = 0.33, 49 = 0.33, 50 = 0.33, 50 = 0.33, 51 = 0.33, 52 = 0.33, 53 = 0.33, 53 = 0.33, 54 = 0.33, 55 = 0.33, 56 = 0.33, 57 = 0.33, 58 = 0.33, 58 = 0.33, 59 = 0.33 and 60 = 0.33

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 and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) 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) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1357 lb uplift at joint 2 and 1357 lb uplift at joint 12.
10) 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: 1-6=-114(F=-60), 6-8=-114(F=-60), 8-13=-114(F=-60), 2-12=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902174
L256777	T04	SPECIAL	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:43 2007 Page 1

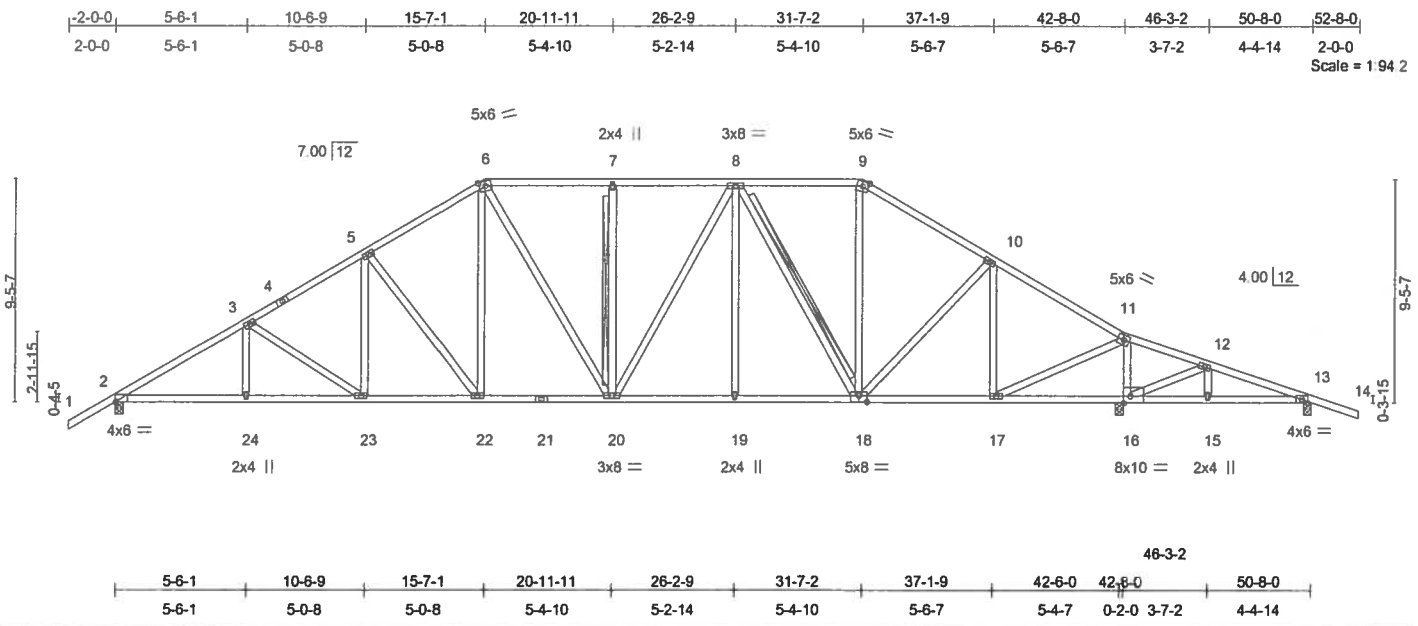


Plate Offsets (X,Y): [2:0-0-0,0-0-4], [16:0-3-8,Edge], [18:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	0.13	20-22	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.23	20-22	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.09	16	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 335 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 4-0-8 oc purlins, except
2-0-0 oc purlins (5-0-8 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 7-20, 8-18
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=1444/0-4-0, 16=1860/0-4-0, 13=152/0-4-0
Max Horz 2=-249(load case 4)
Max Uplift 2=-348(load case 6), 16=-477(load case 4), 13=-271(load case 5)
Max Grav 2=1444(load case 1), 16=1860(load case 1), 13=187(load case 11)

Julius Lee
Truss Design Engineer
Florida PE No. 34929
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902174
L256777	T04	SPECIAL	4	1	Job Reference (optional)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-2289/1034, 3-4=-1996/983, 4-5=-1927/1002, 5-6=-1703/948, 6-7=-1503/920, 7-8=-1502/921, 8-9=-1114/729, 9-10=-1360/773, 10-11=-1118/558, 11-12=-335/675, 12-13=-6/408, 13-14=0/33

BOT CHORD 2-24=-725/1890, 23-24=-725/1890, 22-23=-579/1664, 21-22=-401/1406, 20-21=-401/1406, 19-20=-403/1403, 18-19=-403/1403, 17-18=-215/902, 16-17=-516/419, 15-16=-375/95, 13-15=-375/95

WEBS 3-24=0/163, 3-23=-271/174, 5-23=-70/253, 5-22=-408/283, 6-22=-191/379, 6-20=-225/336, 7-20=-296/200, 8-20=-122/254, 8-19=0/152, 8-18=-654/289, 9-18=-178/361, 10-18=-192/373, 10-17=-639/353, 11-17=-705/1577, 11-16=-1680/875, 12-16=-305/405, 12-15=-129/104

JOINT STRESS INDEX

2 = 0.73, 3 = 0.40, 4 = 0.38, 5 = 0.41, 6 = 0.43, 7 = 0.33, 8 = 0.59, 9 = 0.44, 10 = 0.40, 11 = 0.55, 12 = 0.38, 13 = 0.20, 15 = 0.33, 16 = 0.17, 17 = 0.88, 18 = 0.37, 19 = 0.33, 20 = 0.59, 21 = 0.48, 22 = 0.39, 23 = 0.34 and 24 = 0.33

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 and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 2, 477 lb uplift at joint 16 and 271 lb uplift at joint 13.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1400 Coastal Ray Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902175
L256777	T04G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 17 11:48:51 2007 Page 1

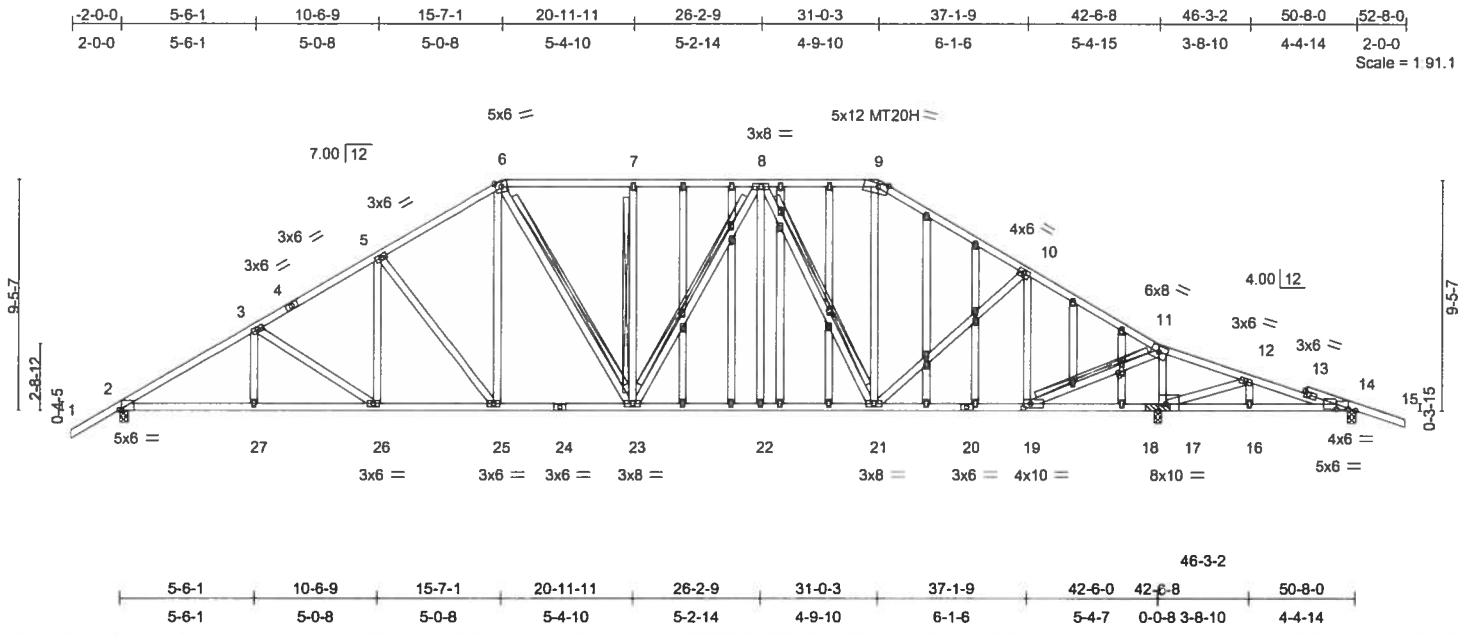


Plate Offsets (X,Y): [2:0-1-3,Edge], [9:0-5-0,Edge], [14:0-9-12,0-0-12], [14:0-3-12,0-0-12], [17:0-3-8,Edge], [19:0-3-8,0-2-0], [50:0-1-9,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.95	Vert(LL)	0.29	22-23	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.36	22-23	>999	240	MT20H	187/143
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.99	Horz(TL)	0.14	17	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 420 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
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-9 oc purlins, except
2-0-0 oc purlins (3-5-14 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 4-8-11 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-23, 7-23, 8-23, 8-21, 11-19
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 14=410/0-4-0, 2=1898/0-4-0, 17=3631/0-4-5 (0-3-8 + bearing block)
Max Horz 2=-331(load case 4)
Max Uplift 14=-593(load case 5), 2=-1051(load case 6), 17=-2666(load case 4)
Max Grav 14=436(load case 11), 2=1898(load case 1), 17=3631(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-3157/2074, 3-4=-2876/2043, 4-5=-2809/2057, 5-6=-2590/2013, 6-7=-2546/2171, 7-8=-2545/2171, 8-9=-2239/2045, 9-10=-2804/2426, 10-11=-2471/2093, 11-12=-984/1179, 12-13=-248/607, 13-14=-199/533, 14-15=-39/70
BOT CHORD 2-27=-1615/2630, 26-27=-1615/2630, 25-26=-1495/2426, 24-25=-1318/2169, 23-24=-1318/2169, 22-23=-1819/2581, 21-22=-1819/2581, 20-21=-1465/1980, 19-20=-1465/1980, 18-19=-838/849, 17-18=-838/849, 16-17=-544/289, 14-16=-544/289
WEBS 3-27=0/160, 3-26=-245/176, 5-26=-71/244, 5-25=-405/313, 6-25=-215/378, 6-23=-924/887, 7-23=-535/517, 8-23=-200/363, 8-22=0/134, 8-21=-840/668, 9-21=-357/539, 10-21=-379/409, 10-19=-1217/1094, 11-19=-2536/3088, 11-17=-3383/2944, 12-17=-580/777, 12-16=-125/96

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902175
L256777	T04G	GABLE	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.81, 3 = 0.42, 4 = 0.74, 5 = 0.42, 6 = 0.56, 7 = 0.34, 8 = 0.62, 9 = 0.93, 10 = 0.47, 11 = 0.83, 12 = 0.39, 13 = 0.00, 13 = 0.46, 14 = 0.48, 14 = 0.67, 16 = 0.34, 17 = 0.61, 17 = 0.00, 18 = 0.00, 18 = 0.00, 19 = 0.65, 20 = 0.71, 21 = 0.62, 22 = 0.34, 23 = 0.95, 24 = 0.74, 25 = 0.41, 26 = 0.35, 27 = 0.34, 28 = 0.34, 29 = 0.34, 30 = 0.34, 30 = 0.34, 31 = 0.34, 32 = 0.34, 33 = 0.34, 33 = 0.34, 34 = 0.34, 34 = 0.34, 35 = 0.34, 36 = 0.34, 37 = 0.34, 37 = 0.34, 38 = 0.34, 39 = 0.34, 40 = 0.34, 41 = 0.34, 42 = 0.34, 42 = 0.34, 43 = 0.34, 44 = 0.34, 45 = 0.34, 45 = 0.34, 46 = 0.34, 47 = 0.34, 48 = 0.34, 49 = 0.34, 50 = 0.39 and 50 = 0.34

NOTES

1) 2 X 4 SYP No.2 bearing block 12" long at jt. 17 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SYP.
2) Unbalanced roof live loads have been considered for this design.
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 and C-C Exterior(2) zone; 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.
4) 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"
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All plates are MT20 plates unless otherwise indicated.
8) All plates are 2x4 MT20 unless otherwise indicated.
9) Gable studs spaced at 2-0-0 oc.
10) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 593 lb uplift at joint 14, 1051 lb uplift at joint 2 and 2666 lb uplift at joint 17.
12) 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: 1-6=-54, 6-7=-54, 7-9=-141(F=-87), 9-11=-141(F=-87), 11-15=-114(F=-60), 2-14=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902176
L256777	T05	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:47 2007 Page 1

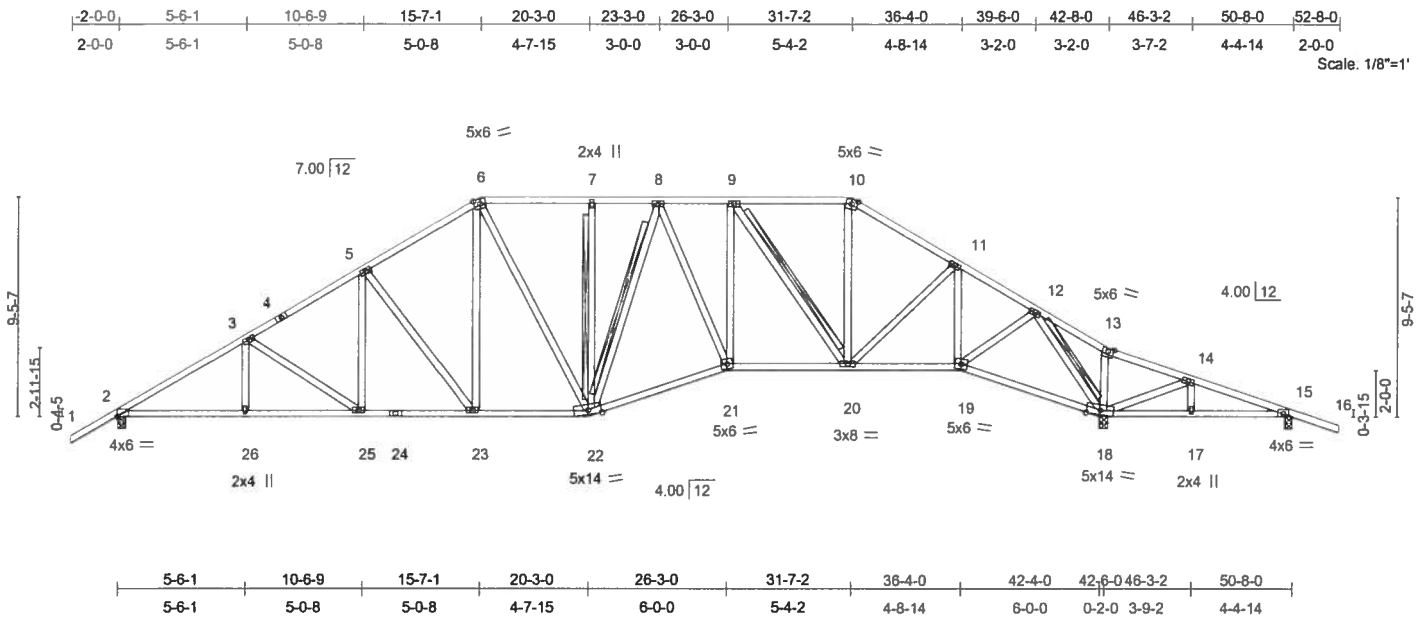


Plate Offsets (X,Y): [2:0-0-0,0-0-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	-0.13	21-22	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.25	21-22	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.50	Horz(TL)	0.14	18	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 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except 2-0-0 oc purlins (4-10-3 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 7-22, 9-20, 12-18, 8-22
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 18=2027/0-4-0, 15=29/0-4-0, 2=1399/0-4-0
Max Horz 2=-249(load case 4)
Max Uplift 18=-511(load case 4), 15=-264(load case 5), 2=-343(load case 6)
Max Grav 18=2027(load case 1), 15=76(load case 11), 2=1399(load case 1)

Julius Lee
Truss Design Engineer
Florida PE No 34869
1109 Coastal Ray Blvd
Boynton Beach, FL 33435

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902176
L256777	T05	SPECIAL	3	1	Job Reference (optional)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/54, 2-3=-2203/996, 3-4=-1909/944, 4-5=-1841/963, 5-6=-1615/910, 6-7=-1407/875, 7-8=-1407/875, 8-9=-1623/907, 9-10=-1229/714, 10-11=-1469/761, 11-12=-1211/549, 12-13=-477/1183, 13-14=-506/1086, 14-15=-111/738, 15-16=0/33

BOT CHORD 21-22=-463/1611, 20-21=-434/1617, 19-20=-173/1030, 18-19=0/251, 17-18=-662/193, 15-17=-662/193, 2-26=-693/1816, 25-26=-693/1816, 24-25=-546/1590, 23-24=-546/1590, 22-23=-367/1330

WEBS 3-26=0/162, 3-25=-272/175, 5-25=-70/258, 5-23=-412/285, 6-23=-189/356, 6-22=-214/312, 7-22=-235/147, 9-21=-102/347, 9-20=-735/331, 10-20=-184/426, 11-20=-220/343, 11-19=-515/312, 12-19=-363/1017, 12-18=-2289/980, 13-18=0/126, 14-18=-362/470, 14-17=-140/113, 8-22=-418/116, 8-21=-57/313

JOINT STRESS INDEX

2 = 0.71, 3 = 0.40, 4 = 0.37, 5 = 0.41, 6 = 0.41, 7 = 0.33, 8 = 0.49, 9 = 0.41, 10 = 0.42, 11 = 0.40, 12 = 0.76, 13 = 0.39, 14 = 0.38, 15 = 0.20, 17 = 0.33, 18 = 0.87, 19 = 0.45, 20 = 0.56, 21 = 0.55, 22 = 0.39, 23 = 0.39, 24 = 0.52, 25 = 0.34 and 26 = 0.33

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 and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 511 lb uplift at joint 18, 264 lb uplift at joint 15 and 343 lb uplift at joint 2.

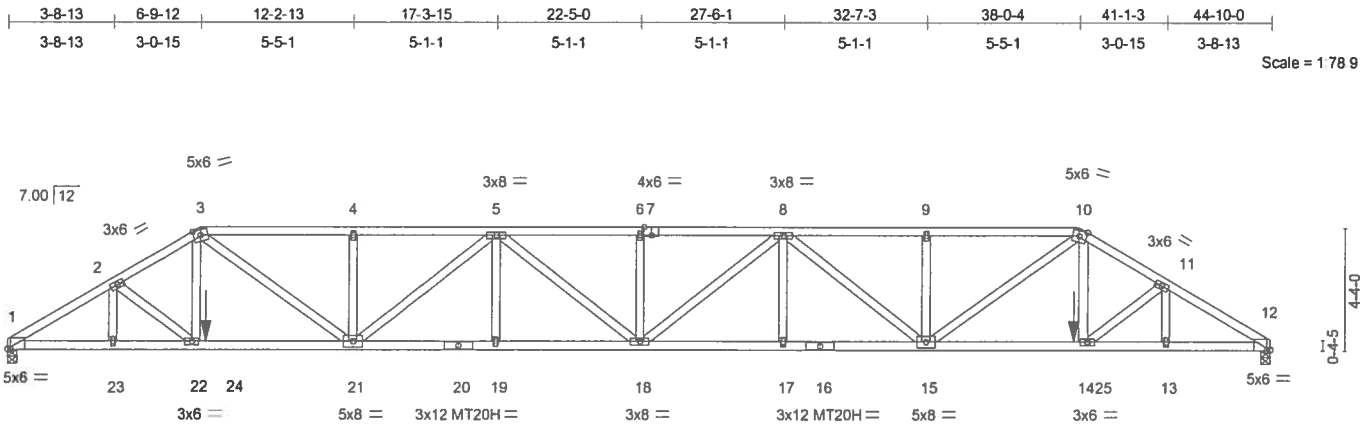
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST.
L256777	T06	HIP	1	2	J1902177
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:48 2007 Page 1



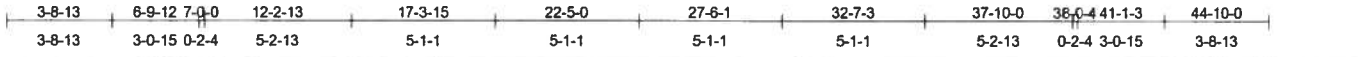


Plate Offsets (X,Y): [1:0-1-3,Edge], [7:0-3-0,Edge], [12:0-1-3,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.68	18	>784	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.91	18	>589	240	MT20H	187/143
BCLL	10.0	* Rep Stress Incr	NO	WB	0.49	Horz(TL)	0.24	12	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 494 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 4-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-1 oc bracing.

REACTIONS (lb/size) 1=2998/0-4-0, 12=2998/0-4-0
Max Horz 1=-112(load case 3)
Max Uplift 1=-1975(load case 4), 12=-1975(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-5440/3565, 2-3=-5424/3592, 3-4=-7071/4756, 4-5=-7070/4756, 5-6=-8835/5920, 6-7=-8835/5920, 7-8=-8835/5920, 8-9=-7070/4756, 9-10=-7071/4755, 10-11=-5424/3592, 11-12=-5440/3565
BOT CHORD 1-23=-3097/4565, 22-23=-3097/4565, 22-24=-3136/4663, 21-24=-3136/4663, 20-21=-5641/8388, 19-20=-5641/8388, 18-19=-5641/8388, 17-18=-5593/8388, 16-17=-5593/8388, 15-16=-5593/8388, 15-25=-3024/4663, 14-25=-3024/4663, 13-14=-2986/4565, 12-13=-2986/4565
WEBS 2-23=-68/35, 2-22=-195/278, 3-22=-326/464, 3-21=-2090/3037, 4-21=-618/416, 5-21=-1713/1185, 5-19=-81/204, 5-18=-421/603, 6-18=-597/401, 8-18=-422/603, 8-17=-80/204, 8-15=-1713/1184, 9-15=-618/417, 10-15=-2091/3037, 10-14=-326/464, 11-14=-195/278, 11-13=-68/35

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

JOINT STRESS INDEX
1 = 0.65, 2 = 0.40, 3 = 0.59, 4 = 0.33, 5 = 0.56, 6 = 0.33, 7 = 0.86, 8 = 0.56, 9 = 0.33, 10 = 0.59, 11 = 0.40, 12 = 0.65, 13 = 0.33, 14 = 0.34, 15 = 0.69, 16 = 0.86, 17 = 0.33, 18 = 0.56, 19 = 0.33, 20 = 0.86, 21 = 0.69, 22 = 0.34 and 23 = 0.33

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST.
L256777	T06	HIP	1	2	J1902177 Job Reference (optional)

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 4 - 1 row 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All plates are MT20 plates unless otherwise indicated.
8) All plates are 2x4 MT20 unless otherwise indicated.
9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1975 lb uplift at joint 1 and 1975 lb uplift at joint 12.
11) Girder carries hip end with 7-0-0 end setback.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-3=-54, 3-10=-117(F=-63), 10-12=-54, 1-24=-10, 24-25=-22(F=-12), 12-25=-10
   Concentrated Loads (lb)
      Vert: 24=-411(F) 25=-411(F)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902178
L256777	T07	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:50 2007 Page 1

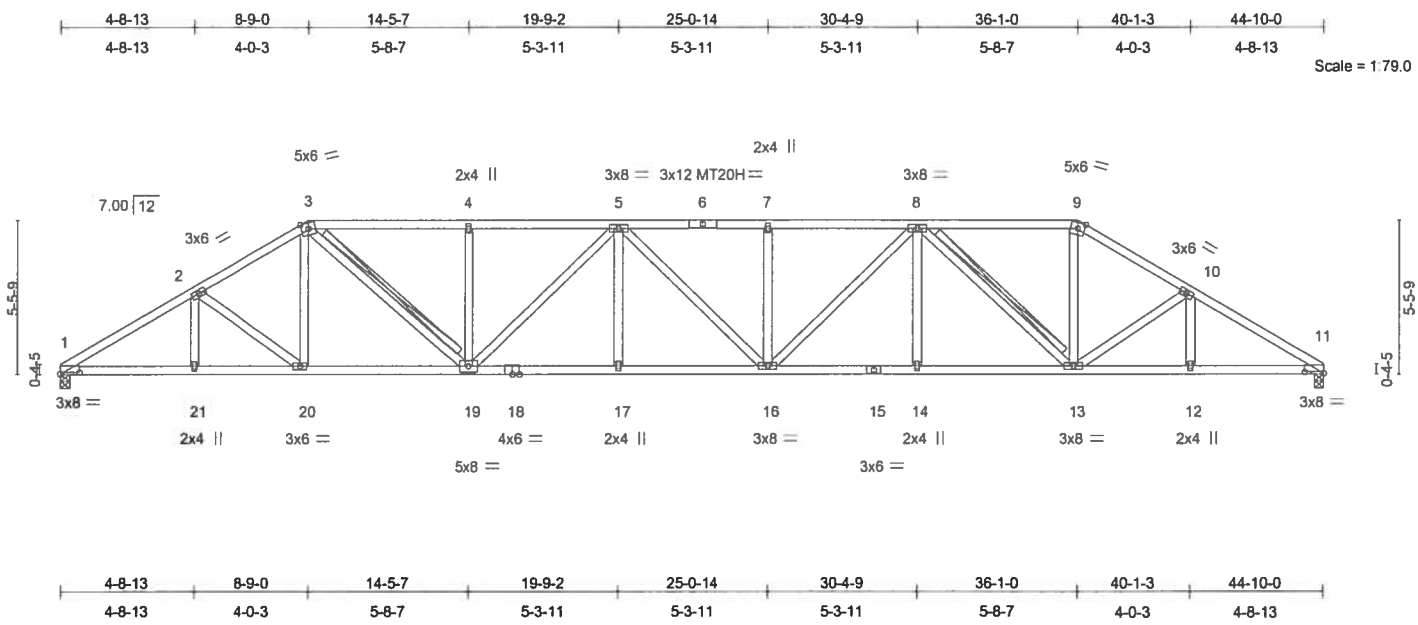


Plate Offsets (X,Y): [1:0-8-1,0-0-10], [11:0-8-1,0-0-10]

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)	0.65	16-17	>821	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.56	16-17	>959	240	MT20H	187/143
BCLL	10.0	* Rep Stress Incr	YES	WB	0.53	Horz(TL)	-0.21	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 255 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 3-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-5-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 3-19, 8-13
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=1424/0-4-0, 11=1424/0-4-0
Max Horz 1=-143(load case 4)
Max Uplift 1=-1048(load case 5), 11=-1048(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2529/2801, 2-3=-2300/2635, 3-4=-2700/3185, 4-5=-2700/3185, 5-6=-3044/3581, 6-7=-3044/3581, 7-8=-3044/3581, 8-9=-1961/2339, 9-10=-2291/2618, 10-11=-2528/2802
BOT CHORD 1-21=-2321/2101, 20-21=-2321/2101, 19-20=-2086/1939, 18-19=-3355/3045, 17-18=-3355/3045, 16-17=-3355/3045, 15-16=-2959/2700, 14-15=-2959/2700, 13-14=-2959/2700, 12-13=-2322/2101, 11-12=-2322/2101
WEBS 2-21=-144/119, 2-20=-196/278, 3-20=-343/231, 3-19=-1178/1083, 4-19=-304/207, 5-19=-527/552, 5-17=-180/155, 5-16=-48/47, 7-16=-283/203, 8-16=-554/527, 8-14=-190/165, 8-13=-1066/1154, 9-13=-1125/854, 10-13=-200/289, 10-12=-154/127

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902178
L256777	T07	HIP	1	1	Job Reference (optional)

JOINT STRESS INDEX

1 = 0.91, 2 = 0.40, 3 = 0.79, 4 = 0.33, 5 = 0.56, 6 = 0.79, 7 = 0.33, 8 = 0.86, 9 = 0.66, 10 = 0.40, 11 = 0.91, 12 = 0.33, 13 = 0.86, 14 = 0.33, 15 = 0.89, 16 = 0.56, 17 = 0.33, 18 = 0.85, 19 = 0.50, 20 = 0.34 and 21 = 0.33

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 and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1048 lb uplift at joint 1 and 1048 lb uplift at joint 11.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902179
L256777	T08	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:51 2007 Page 1

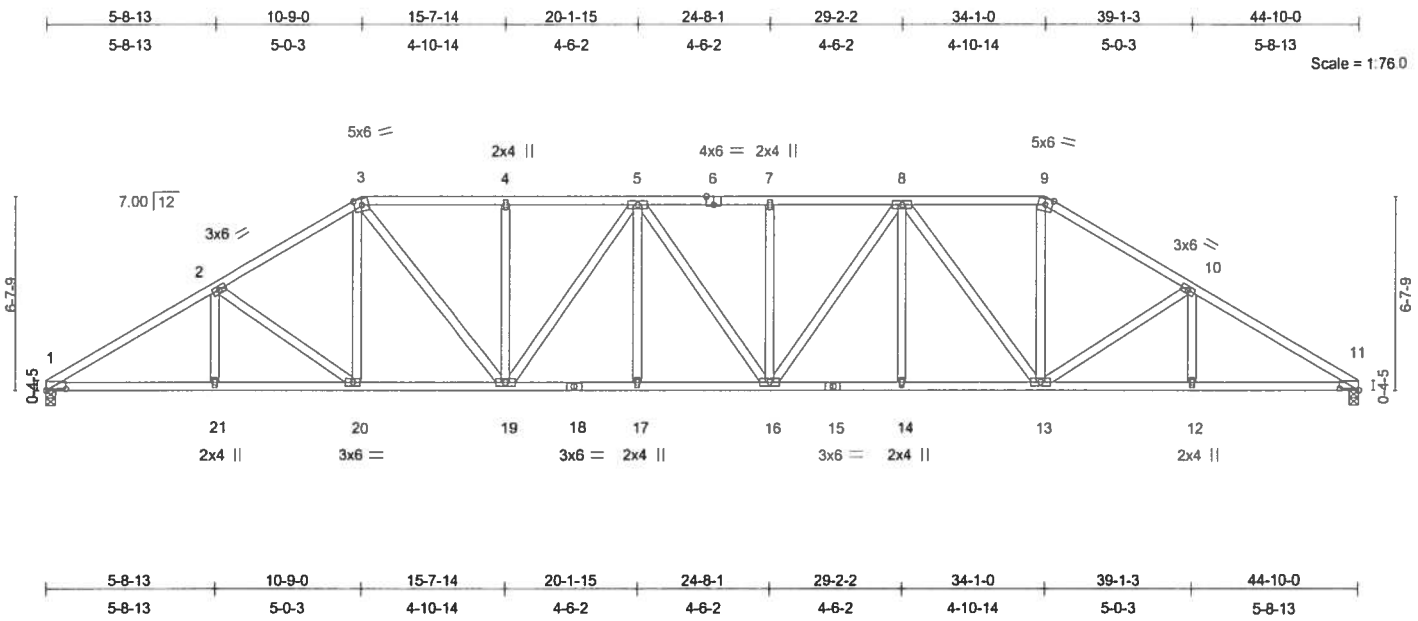


Plate Offsets (X,Y): [1:0-8-1,0-0-10], [6:0-3-0,Edge], [11:0-8-1,0-0-10]

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)	0.49	16-17	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.42	16-17	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.95	Horz(TL)	-0.18	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 275 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 3-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-10-5 oc bracing.

REACTIONS (lb/size) 1=1424/0-4-0, 11=1424/0-4-0
Max Horz 1=-176(load case 4)
Max Uplift 1=-1010(load case 5), 11=-1010(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2519/2769, 2-3=-2203/2514, 3-4=-2285/2728, 4-5=-2285/2728, 5-6=-2488/2962, 6-7=-2488/2962, 7-8=-2488/2962, 8-9=-1851/2232, 9-10=-2193/2497, 10-11=-2519/2770
BOT CHORD 1-21=-2289/2090, 20-21=-2289/2090, 19-20=-1936/1836, 18-19=-2686/2489, 17-18=-2686/2489, 16-17=-2686/2489, 15-16=-2450/2284, 14-15=-2450/2284, 13-14=-2450/2284, 12-13=-2290/2090, 11-12=-2290/2090
WEBS 2-21=-204/167, 2-20=-306/418, 3-20=-408/266, 3-19=-841/810, 4-19=-259/168, 5-19=-410/403, 5-17=-152/131, 5-16=-63/62, 7-16=-241/174, 8-16=-406/410, 8-14=-157/135, 8-13=-798/822, 9-13=-1064/797, 10-13=-311/428, 10-12=-210/172

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

JOINT STRESS INDEX
1 = 0.90, 2 = 0.40, 3 = 0.68, 4 = 0.33, 5 = 0.56, 6 = 0.86, 7 = 0.33, 8 = 0.64, 9 = 0.64, 10 = 0.40, 11 = 0.90, 12 = 0.33, 13 = 0.64, 14 = 0.33, 15 = 0.76, 16 = 0.56, 17 = 0.33, 18 = 0.82, 19 = 0.80, 20 = 0.34 and 21 = 0.33

October 17,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902179
L256777	T08	HIP	1	1	Job Reference (optional)

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 and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x8 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1010 lb uplift at joint 1 and 1010 lb uplift at joint 11.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902180
L256777	T09	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Oct 17 11:22:52 2007 Page 1

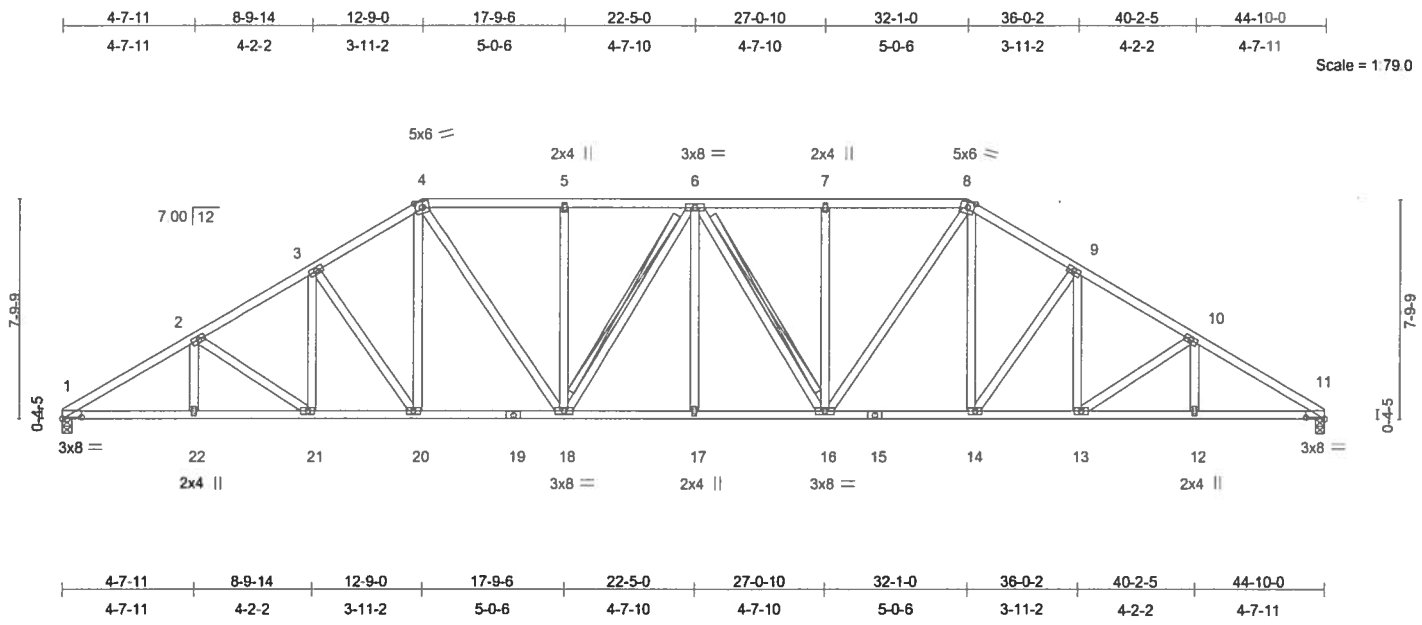


Plate Offsets (X,Y): [1:0-8-1,0-0-10], [11:0-8-1,0-0-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	0.40	17-18	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.44	Vert(TL)	-0.35	17	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.90	Horz(TL)	-0.16	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 298 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 3-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-0-12 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-18, 6-16
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 1=1424/0-4-0, 11=1424/0-4-0
Max Horz 1=-208(load case 4)
Max Uplift 1=-968(load case 5), 11=-968(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2537/2786, 2-3=-2287/2581, 3-4=-2061/2404, 4-5=-2035/2460, 5-6=-2035/2460, 6-7=-2035/2460, 7-8=-2035/2460, 8-9=-2061/2404, 9-10=-2287/2581, 10-11=-2537/2786
BOT CHORD 1-22=-2311/2111, 21-22=-2311/2111, 20-21=-2047/1924, 19-20=-1785/1731, 18-19=-1785/1731, 17-18=-2235/2124, 16-17=-2235/2124, 15-16=-1785/1731, 14-15=-1785/1731, 13-14=-2047/1924, 12-13=-2311/2111, 11-12=-2311/2111
WEBS 2-22=-167/138, 2-21=-229/316, 3-21=-299/195, 3-20=-320/428, 4-20=-509/314, 4-18=-626/640, 5-18=-268/178, 6-18=-251/216, 6-17=-151/130, 6-16=-251/215, 7-16=-268/178, 8-16=-626/640, 8-14=-509/314, 9-14=-320/428, 9-13=-299/195, 10-13=-229/316, 10-12=-167/138

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 31666
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 17,2007

Job	Truss	Truss Type	Qty	Ply	DON REED CONST. J1902180
L256777	T09	HIP	1	1	Job Reference (optional)

JOINT STRESS INDEX

1 = 0.91, 2 = 0.40, 3 = 0.41, 4 = 0.61, 5 = 0.33, 6 = 0.58, 7 = 0.33, 8 = 0.61, 9 = 0.41, 10 = 0.40, 11 = 0.91, 12 = 0.33, 13 = 0.34, 14 = 0.41, 15 = 0.58, 16 = 0.65, 17 = 0.33, 18 = 0.65, 19 = 0.58, 20 = 0.41, 21 = 0.34 and 22 = 0.33

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 and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 968 lb uplift at joint 1 and 968 lb uplift at joint 11.

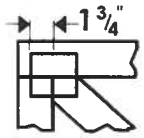
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

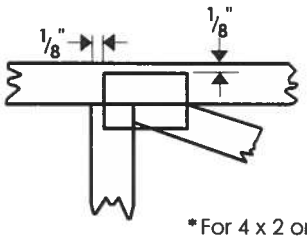
October 17,2007

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

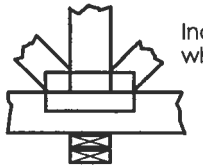
4 x 4

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

LATERAL BRACING

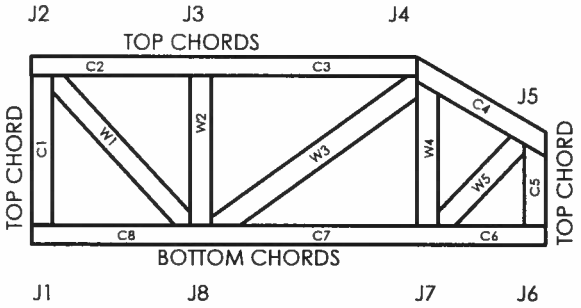
Indicates location of required continuous lateral bracing.

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, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

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.

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 4"	6' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 6"	10' 10"	11' 2"	12' 11"	13' 3"
		#3	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"
		STUD	3' 3"	4' 11"	4' 11"	6' 5"	6' 5"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"
		STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 8"	11' 8"
	SP DFL	#1	3' 8"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#2	3' 7"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#3	3' 6"	5' 0"	5' 0"	6' 8"	6' 8"	8' 3"	8' 8"	10' 4"	10' 4"	12' 11"	13' 7"
		STUD	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 3"	8' 8"	10' 3"	10' 3"	12' 11"	13' 7"
		STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 8"	7' 8"	8' 10"	8' 10"	12' 0"	12' 0"
16" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 6"	9' 8"	12' 6"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 10"	6' 10"	9' 2"	9' 2"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	8' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	8' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 2"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 3"	7' 4"	7' 7"	8' 9"	8' 11"	10' 5"	10' 8"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"
		STUD	4' 2"	6' 11"	6' 11"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"
		STANDARD	4' 2"	6' 11"	6' 11"	7' 10"	7' 10"	10' 5"	10' 5"	12' 3"	12' 3"	14' 0"	14' 0"
	SP DFL	#1	4' 8"	7' 4"	7' 11"	8' 9"	9' 5"	10' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#2	4' 7"	7' 4"	7' 11"	8' 9"	9' 5"	10' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 2"	7' 2"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 1"	7' 1"	8' 9"	9' 2"	10' 5"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 8"	12' 6"	12' 6"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

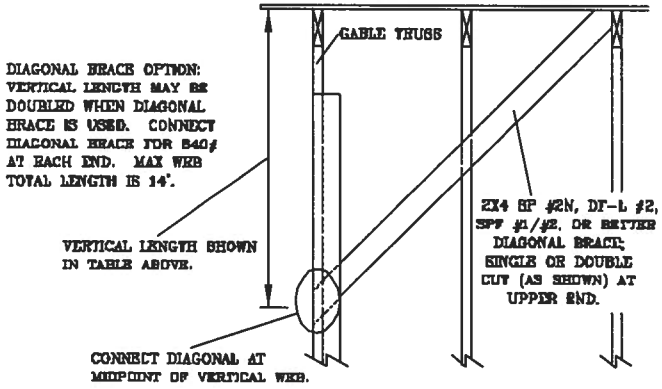
LIVE LOAD DEFLECTION CRITERIA IS L/240.

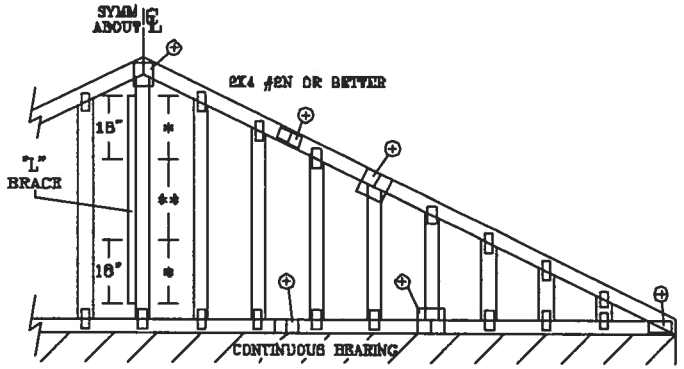
PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER CONTINUOUS BRACING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 60% OF WEB MEMBER LENGTH.





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERVISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-GAB13015

DATE 11/26/03

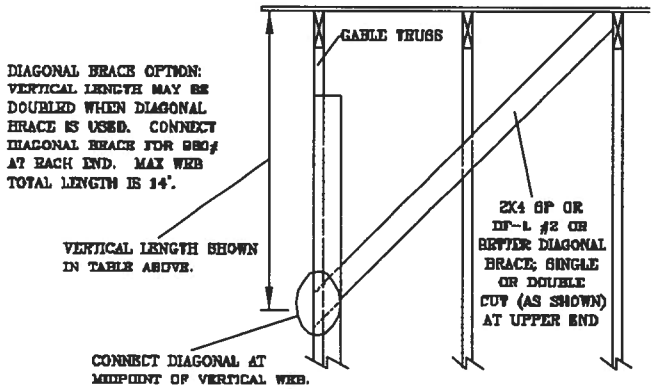
DRWG MITEK STD GABLE 15 E HT

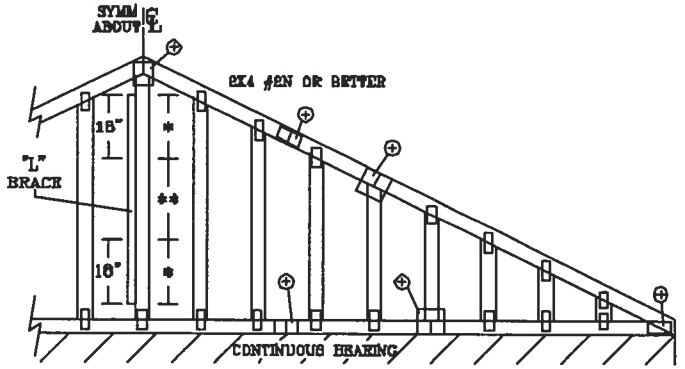
-ENG

ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 2"	5' 6"	6' 8"	6' 6"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
		#3	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STUD	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STANDARD	2' 11"	3' 9"	3' 9"	5' 0"	5' 0"	6' 9"	6' 9"	7' 10"	7' 10"	10' 7"	10' 7"
	SP DFL	#1	3' 8"	5' 8"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#2	3' 6"	5' 6"	5' 11"	6' 6"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#3	3' 3"	4' 6"	4' 6"	6' 0"	6' 0"	7' 10"	8' 1"	9' 4"	9' 4"	12' 3"	12' 6"
		STUD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 6"
		STANDARD	3' 0"	3' 10"	3' 10"	5' 1"	5' 1"	6' 11"	6' 11"	8' 0"	8' 0"	10' 10"	10' 10"
16" O.C.	SPF HF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
		STUD	3' 7"	5' 5"	6' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
		STANDARD	3' 7"	4' 6"	4' 8"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	8' 4"	8' 10"	7' 8"	8' 1"	8' 11"	8' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	8' 4"	8' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	6' 7"	7' 4"	7' 4"	8' 11"	9' 6"	11' 5"	11' 6"	14' 0"	14' 0"
		STUD	3' 8"	5' 6"	5' 8"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	13' 3"
12" O.C.	SPF HF	#1 / #2	4' 0"	6' 11"	7' 2"	8' 3"	8' 6"	9' 10"	10' 1"	12' 11"	13' 4"	14' 0"	14' 0"
		#3	3' 11"	6' 3"	6' 3"	6' 3"	6' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"
		STUD	3' 11"	6' 3"	6' 3"	6' 3"	6' 3"	9' 10"	9' 10"	12' 10"	12' 10"	14' 0"	14' 0"
		STANDARD	3' 11"	5' 4"	5' 4"	7' 1"	7' 1"	9' 6"	9' 6"	11' 1"	11' 1"	14' 0"	14' 0"
	SP DFL	#1	4' 5"	6' 11"	7' 8"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#2	4' 4"	6' 11"	7' 8"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#3	4' 2"	6' 6"	6' 5"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 3"	14' 0"	14' 0"
		STUD	4' 2"	6' 4"	6' 4"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 1"	14' 0"	14' 0"
		STANDARD	4' 0"	5' 8"	5' 8"	7' 3"	7' 3"	9' 9"	9' 9"	11' 4"	11' 4"	14' 0"	14' 0"





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

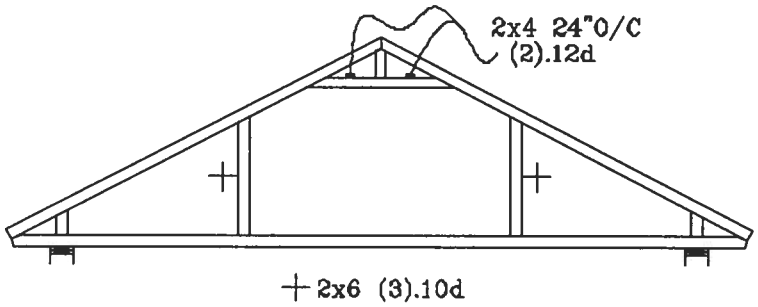
JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

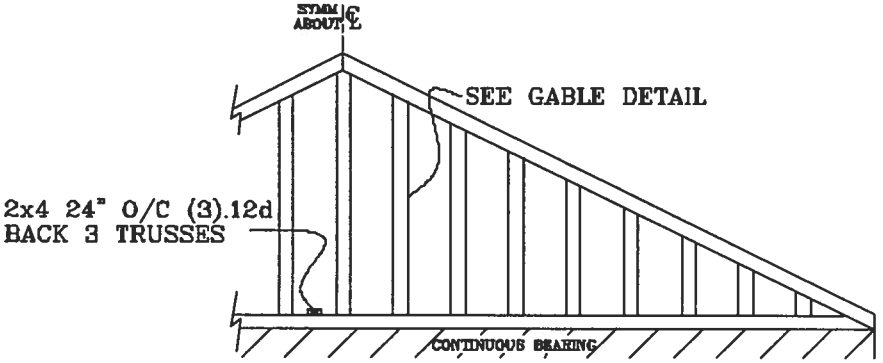
MAX. SPACING 24.0"

REF ASCE7-02-GAB13030
DATE 11/26/03
DWG MITEK STD GABLE 30' 2 N7
-ENG

TYPICAL ATTIC TRUSS BRACING

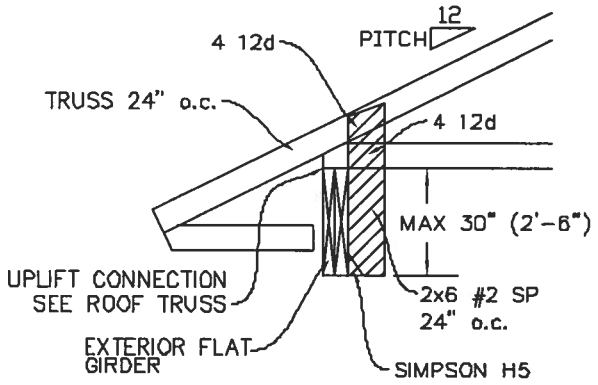


GABLE END TRUSS DETAIL

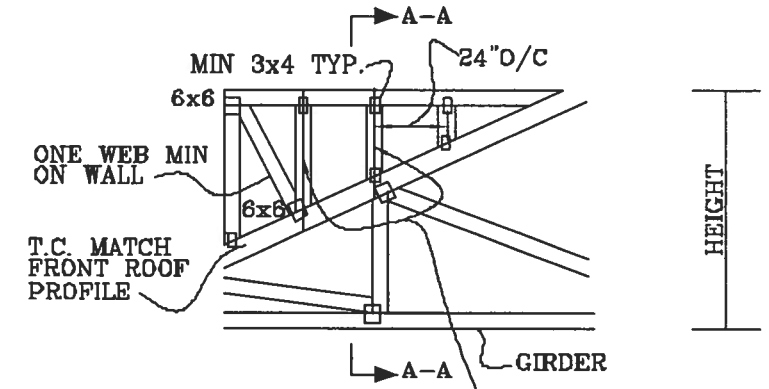


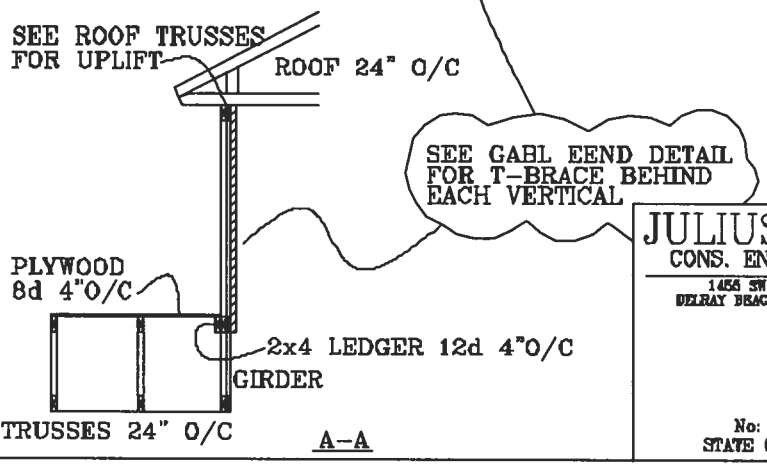
MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL





A-A

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

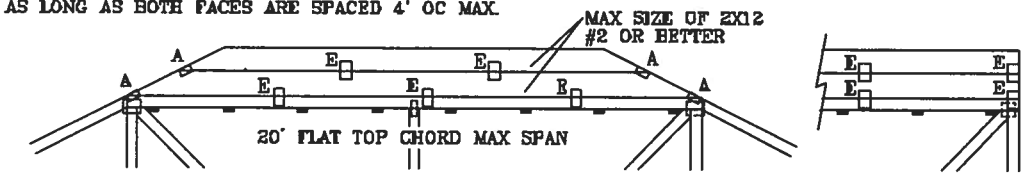
110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

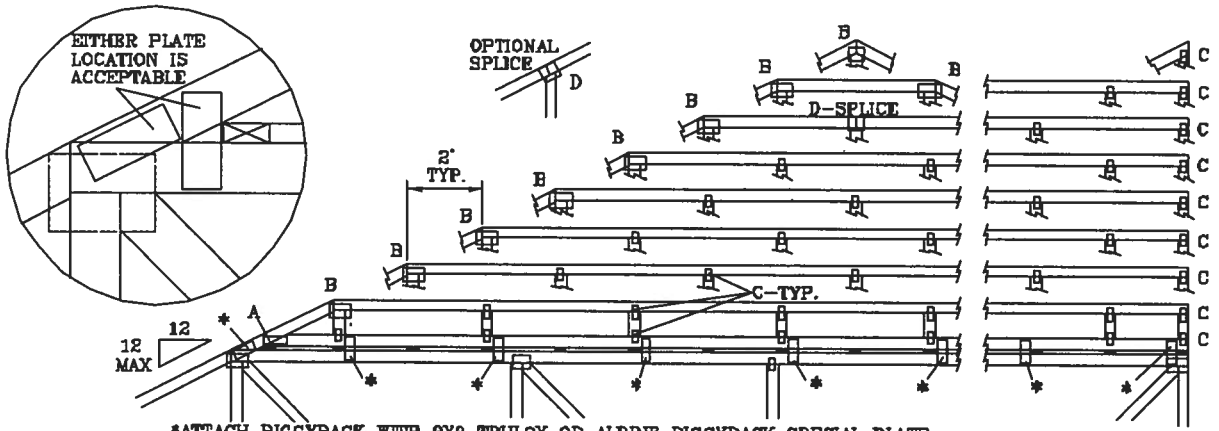
FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (6) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.



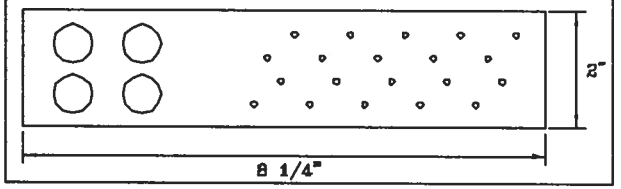
WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.



*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4" OC OR LESS.



THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.

SPACING 24.0"

REF PIGGYBACK
DATE 09/12/07
DRWG MITEK STD PIGGY
-ENG JL

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:
(2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

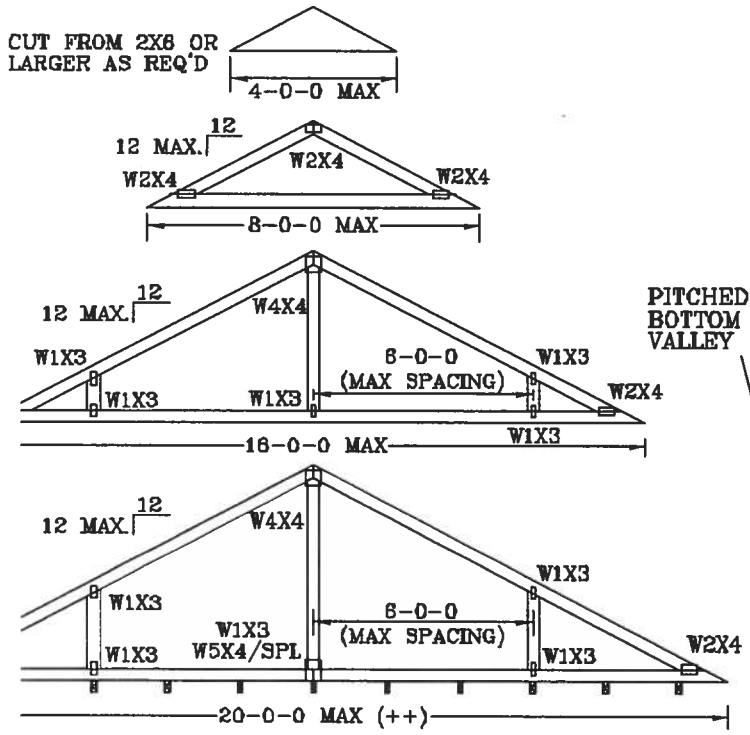
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

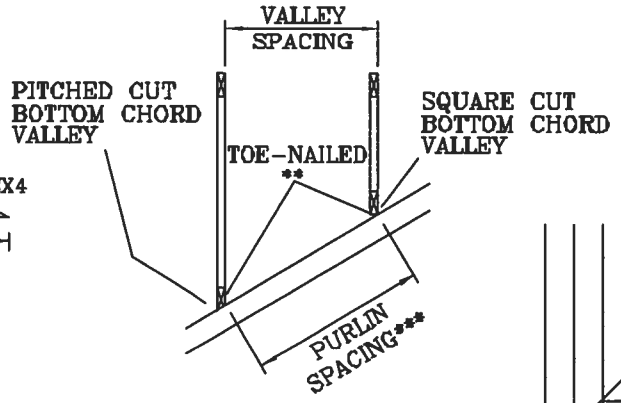
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

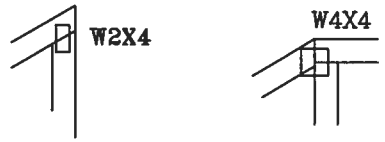
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

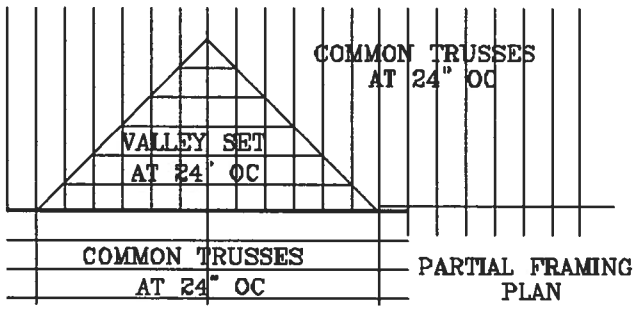
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

xxWARNINGxx TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	20	20	PSF	REF VALLEY DETAIL
TC DL	7	15	PSF	DATE 11/26/03
BC DL	5	5	PSF	DRWG VALTRUSS1103
BC LL	0	0	PSF	-ENG JL
TOT. LD.	32	40	PSF	
DUR.FAC.	1.25	1.25		
SPACING		24"		

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

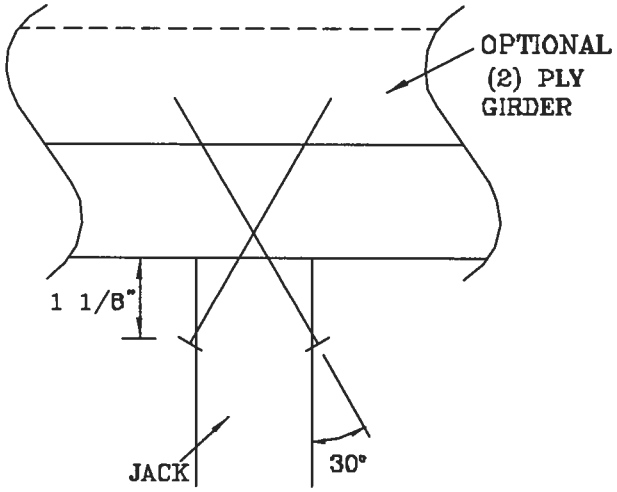
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

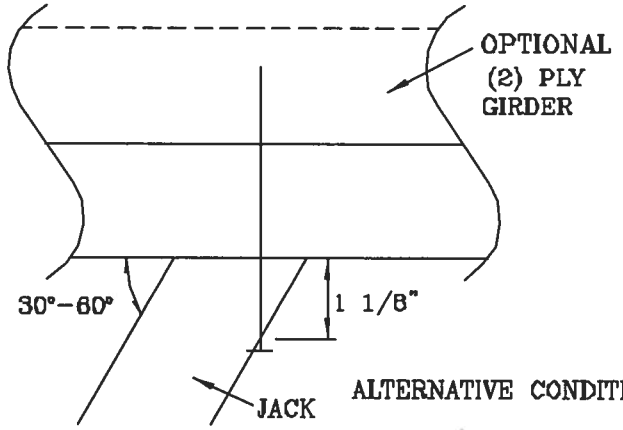
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

=WARNING= TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1450 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34669
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

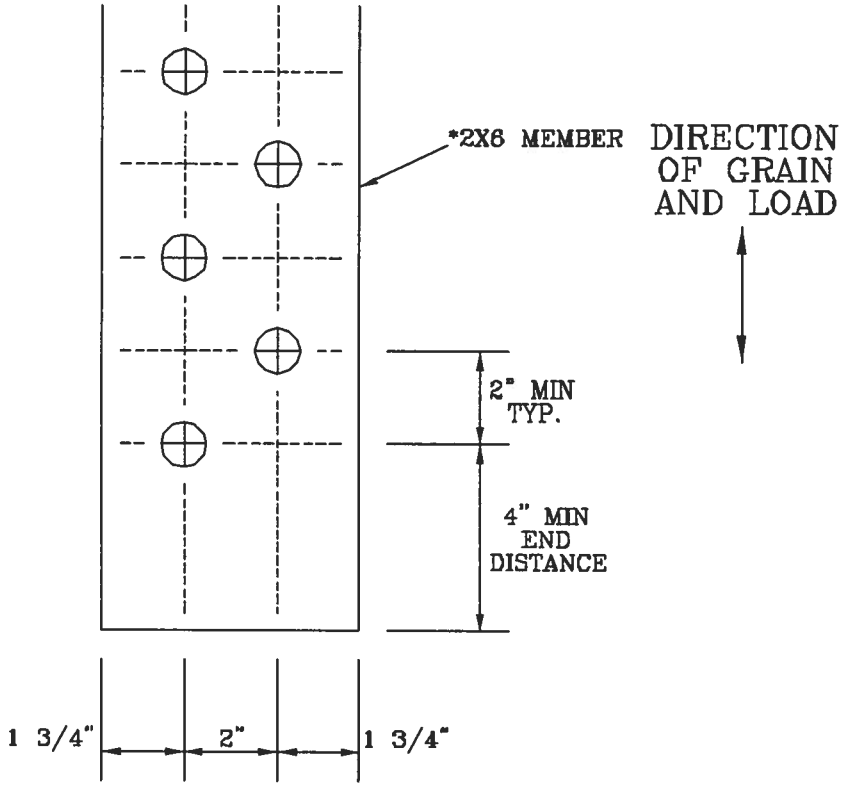
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

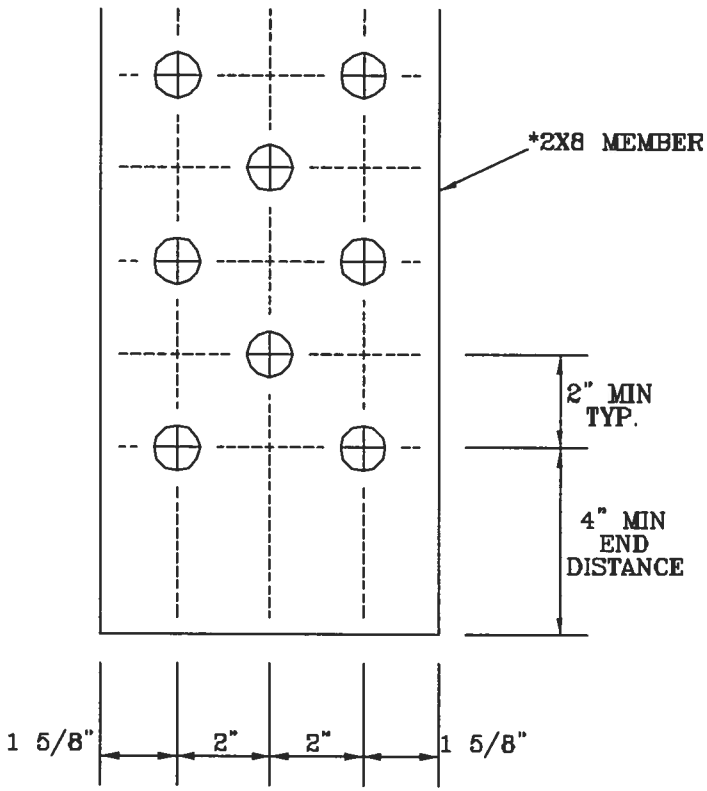
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628.016

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

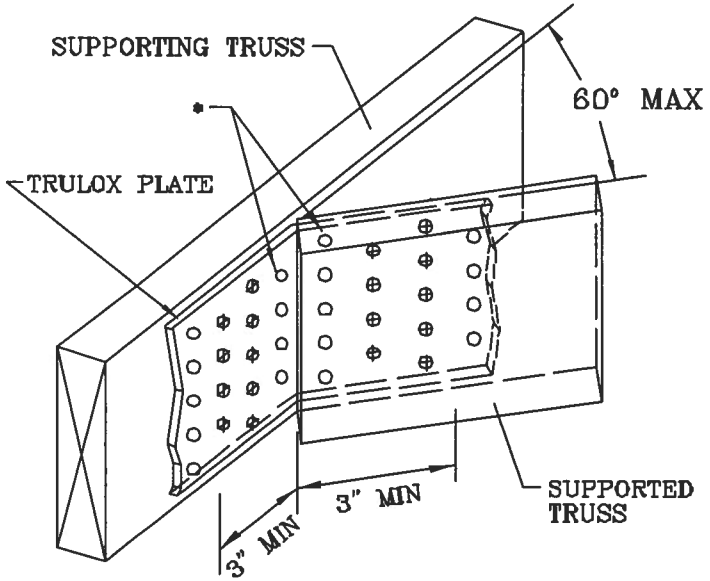
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

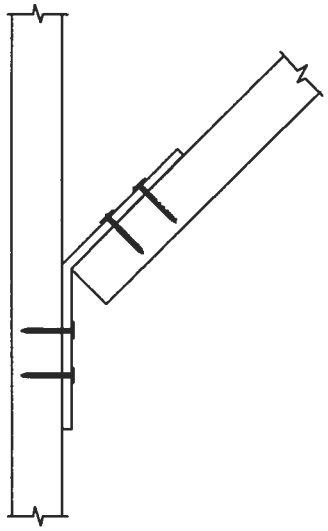
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

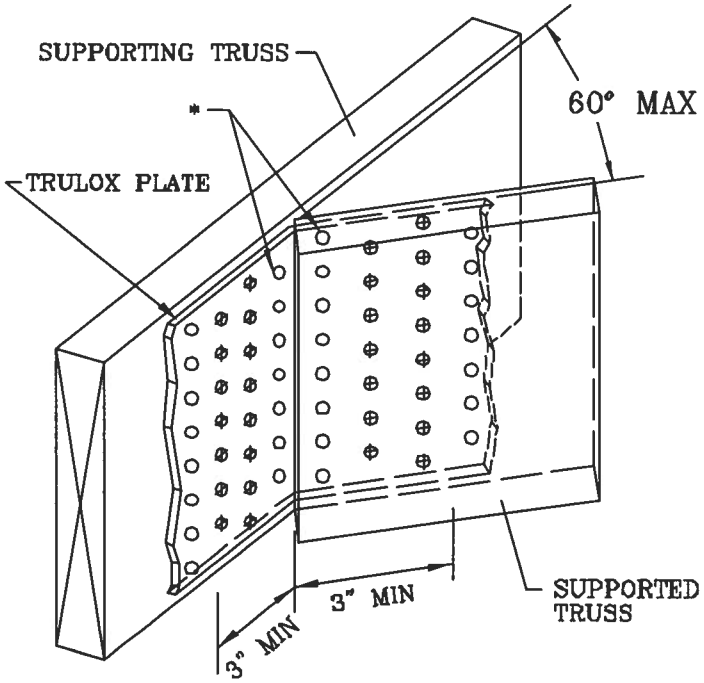
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



MINIMUM 3X6 TRULOX PLATE





MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
5X6	15	990#

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,944 1,152,217 1,152,017 1,159,154 & 1,151,524

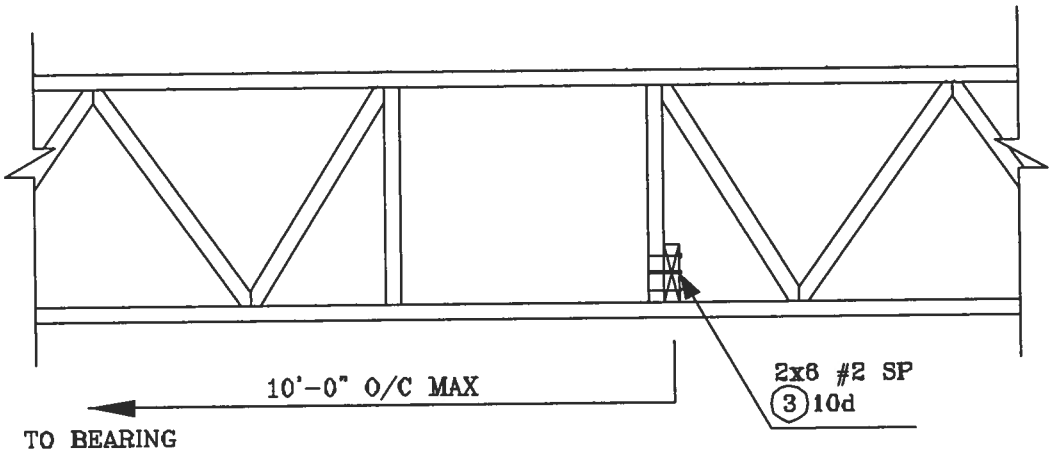
==WARNING== TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

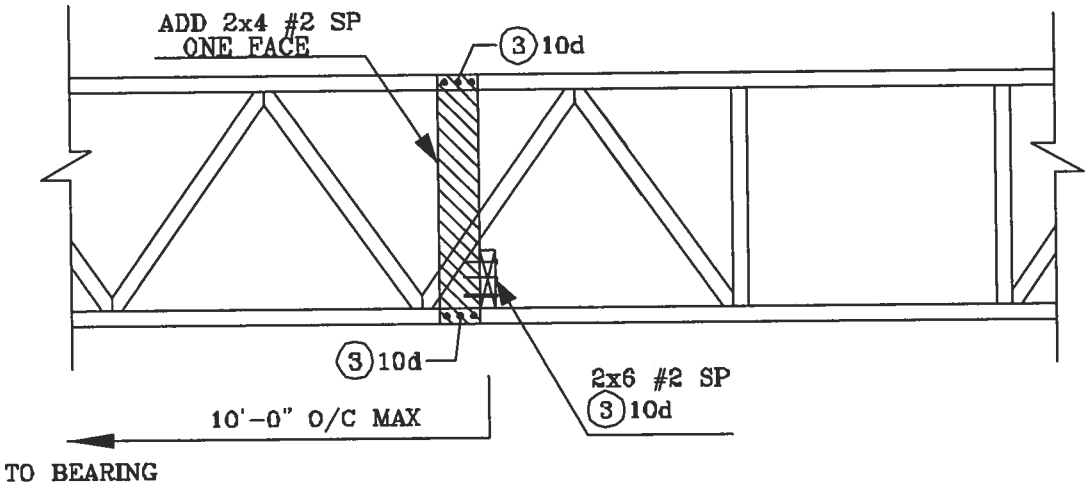
No: 34869
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL

STRONG BACK DETAIL
SYSTEM–42 OR FLAT TRUSS



ALTERNATE DETAIL FOR
STRONG BACK WITH VERTICAL
NOT LINING UP



JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA