Builders FirstSource

Project Information for: **L246421**

Builder: PRUDENTIAL BLDRS.
Lot : ~~9~~ 13
Subdivision: HUNNINGTON PLACE
County: COLUMBIA COUNTY
Truss Count: 41
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

JULIUS LEE LICENSE No. 34869 July 26,2007 STATE OF FLORIDA PROFESSIONAL ENGINEER

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:
JUSTIN FITZHUGH Florida License No. CRC1328401
Address: P.O. BOX 3333, LAKE CITY,, FL

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	No.	Drwg. #	Truss ID	Date
1	J1869317	CJ1	7/26/07	29	J1869345	T15	7/26/07
2	J1869318	CJ3	7/26/07	30	J1869346	T16	7/26/07
3	J1869319	CJ5	7/26/07	31	J1869347	T17	7/26/07
4	J1869320	EJ3	7/26/07	32	J1869348	T18	7/26/07
5	J1869321	EJ5	7/26/07	33	J1869349	T18A	7/26/07
6	J1869322	EJ7	7/26/07	34	J1869350	T19	7/26/07
7	J1869323	EJ7A	7/26/07	35	J1869351	T19A	7/26/07
8	J1869324	HJ4	7/26/07	36	J1869352	T19G	7/26/07
9	J1869325	HJ7	7/26/07	37	J1869353	T20	7/26/07
10	J1869326	HJ9	7/26/07	38	J1869354	T21	7/26/07
11	J1869327	PB01	7/26/07	39	J1869355	T22	7/26/07
12	J1869328	PB02	7/26/07	40	J1869356	T22A	7/26/07
13	J1869329	PB03	7/26/07	41	J1869357	T22G	7/26/07
14	J1869330	PB04	7/26/07				
15	J1869331	T01	7/26/07				
16	J1869332	T02	7/26/07				
17	J1869333	T03	7/26/07				
18	J1869334	T04	7/26/07				
19	J1869335	T05	7/26/07				
20	J1869336	T06	7/26/07				
21	J1869337	T07	7/26/07				
22	J1869338	T08	7/26/07				
23	J1869339	T09	7/26/07				
24	J1869340	T10	7/26/07				
25	J1869341	T11	7/26/07				
26	J1869342	T12	7/26/07				
27	J1869343	T13	7/26/07				
28	J1869344	T14	7/26/07				

Columbia County Building Department Plans Reviewed for Code Compliance State of Florida

Builders FirstSource

Project Information for: L246421

Builder: PRUDENTIAL BLDRS.
Lot : 9
Subdivision: HUNNINGTON PLACE
County: COLUMBIA COUNTY
Truss Count: 41
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

July 26,2007

Truss Design Load Information:

Gravity:

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

Wind:

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

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

Contractor of Record, responsible for structural engineering:

JUSTIN FITZHUGH Florida License No. CRC1328401
Address: P.O. BOX 3333, LAKE CITY,, FL

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	No.	Drwg. #	Truss ID	Date
1	J1869317	CJ1	7/26/07	29	J1869345	T15	7/26/07
2	J1869318	CJ3	7/26/07	30	J1869346	T16	7/26/07
3	J1869319	CJ5	7/26/07	31	J1869347	T17	7/26/07
4	J1869320	EJ3	7/26/07	32	J1869348	T18	7/26/07
5	J1869321	EJ5	7/26/07	33	J1869349	T18A	7/26/07
6	J1869322	EJ7	7/26/07	34	J1869350	T19	7/26/07
7	J1869323	EJ7A	7/26/07	35	J1869351	T19A	7/26/07
8	J1869324	HJ4	7/26/07	36	J1869352	T19G	7/26/07
9	J1869325	HJ7	7/26/07	37	J1869353	T20	7/26/07
10	J1869326	HJ9	7/26/07	38	J1869354	T21	7/26/07
11	J1869327	PB01	7/26/07	39	J1869355	T22	7/26/07
12	J1869328	PB02	7/26/07	40	J1869356	T22A	7/26/07
13	J1869329	PB03	7/26/07	41	J1869357	T22G	7/26/07
14	J1869330	PB04	7/26/07				
15	J1869331	T01	7/26/07				
16	J1869332	T02	7/26/07				
17	J1869333	T03	7/26/07				
18	J1869334	T04	7/26/07				
19	J1869335	T05	7/26/07				
20	J1869336	T06	7/26/07				
21	J1869337	T07	7/26/07				
22	J1869338	T08	7/26/07				
23	J1869339	T09	7/26/07				
24	J1869340	T10	7/26/07				
25	J1869341	T11	7/26/07				
26	J1869342	T12	7/26/07				
27	J1869343	T13	7/26/07				
28	J1869344	T14	7/26/07				

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	CJ1	JACK	10	1	J1869317
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:21 2007 Page 1

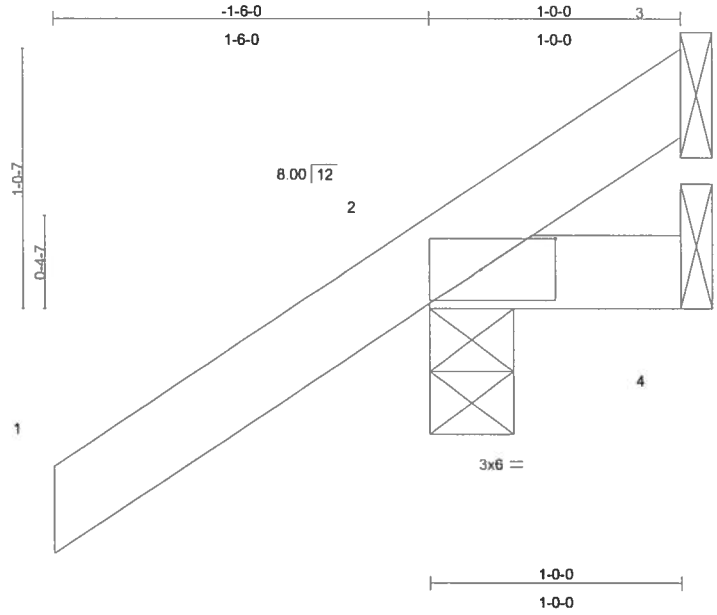


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	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: 6 lb	

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

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

REACTIONS (lb/size) 2=180/0-4-0, 4=5/Mechanical, 3=-41/Mechanical
Max Horz 2=94(load case 6)
Max Uplift 2=-201(load case 6), 4=-11(load case 4), 3=-41(load case 1)
Max Grav 2=180(load case 1), 4=14(load case 2), 3=70(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=-55/48
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. 34901
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869317
L246421	CJ1	JACK	10	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 2, 11 lb uplift at joint 4 and 41 lb uplift at joint 3.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1105 Coastal Bay Blvd
Ocean Beach, FL 32456

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS	J1869318
L246421	CJ3	JACK	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:22 2007 Page 1

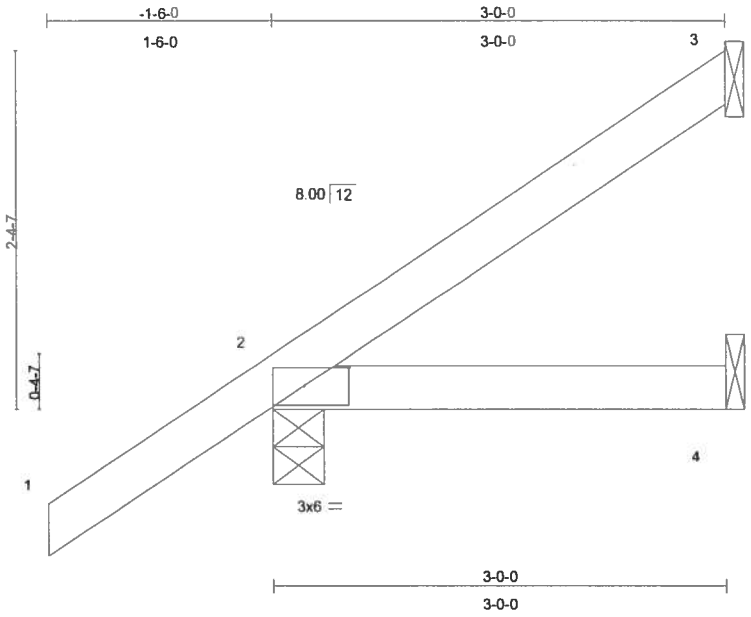


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	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=48/Mechanical, 2=206/0-4-0, 4=14/Mechanical
Max Horz 2=154(load case 6)
Max Uplift 3=-47(load case 6), 2=-177(load case 6), 4=-33(load case 4)
Max Grav 3=48(load case 1), 2=206(load case 1), 4=42(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-60/19
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. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869318
L246421	CJ3	JACK	6	1	
					Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3, 177 lb uplift at joint 2 and 33 lb uplift at joint 4.

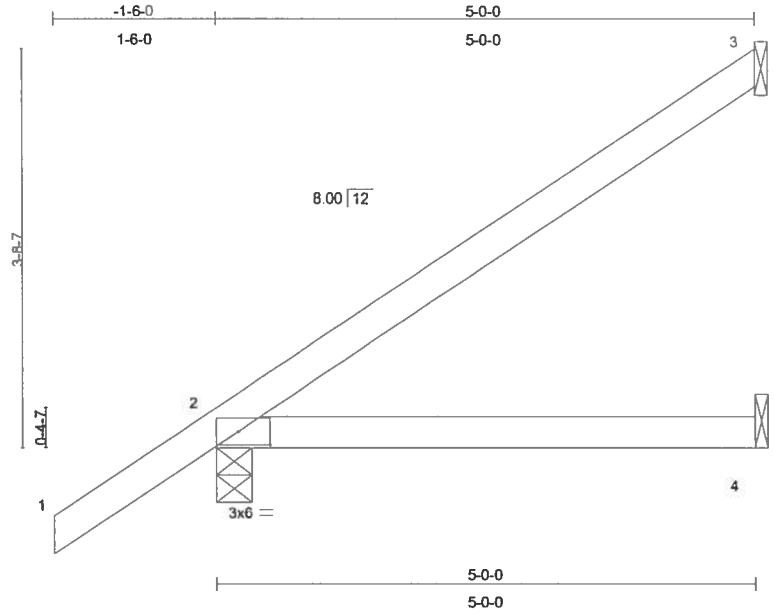
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34985
1105 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	CJ5	JACK	4	1	J1869319 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:22 2007 Page 1



Scale = 1:20.6

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.16	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: 19 lb	

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

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

REACTIONS (lb/size) 3=113/Mechanical, 2=258/0-4-0, 4=24/Mechanical
Max Horz 2=215(load case 6)
Max Uplift 3=-121(load case 6), 2=-138(load case 6)
Max Grav 3=113(load case 1), 2=258(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-100/50
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.14

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *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 31860
105 Crandall Ray Drive
Jupiter Beach, FL 33458

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869319
L246421	CJ5	JACK	4	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 3 and 138 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida FID No. 31848
1109 Coastal Bay Blvd
Jovation Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	EJ3	JACK	5	1	J1869320 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:23 2007 Page 1

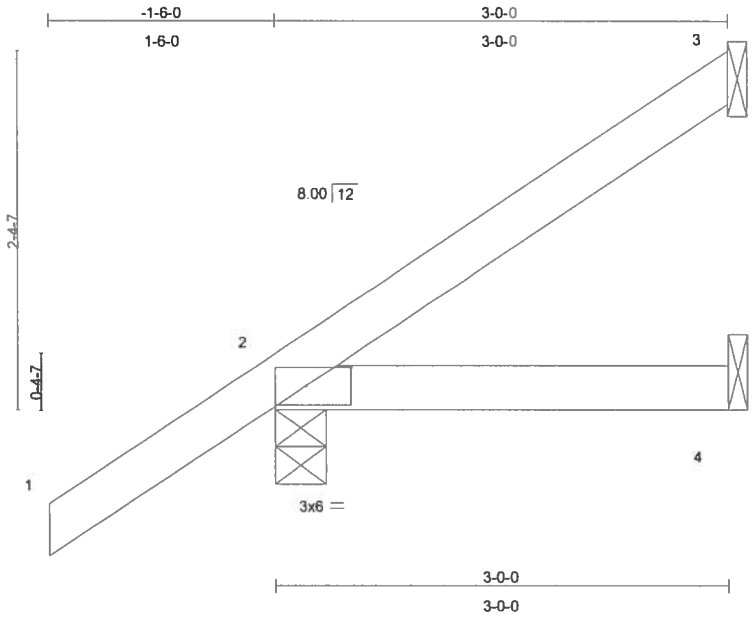


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.18	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	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=48/Mechanical, 2=206/0-4-0, 4=14/Mechanical
Max Horz 2=154(load case 6)
Max Uplift 3=-47(load case 6), 2=-143(load case 6)
Max Grav 3=48(load case 1), 2=206(load case 1), 4=42(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-60/19
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; 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

Continued on page 2

Julius Lee
Truss Design Engineer
Florida FBPE No. 34924
1105 Crandall Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	EJ3	JACK	5	1	J1869320 Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3 and 143 lb uplift at joint 2.

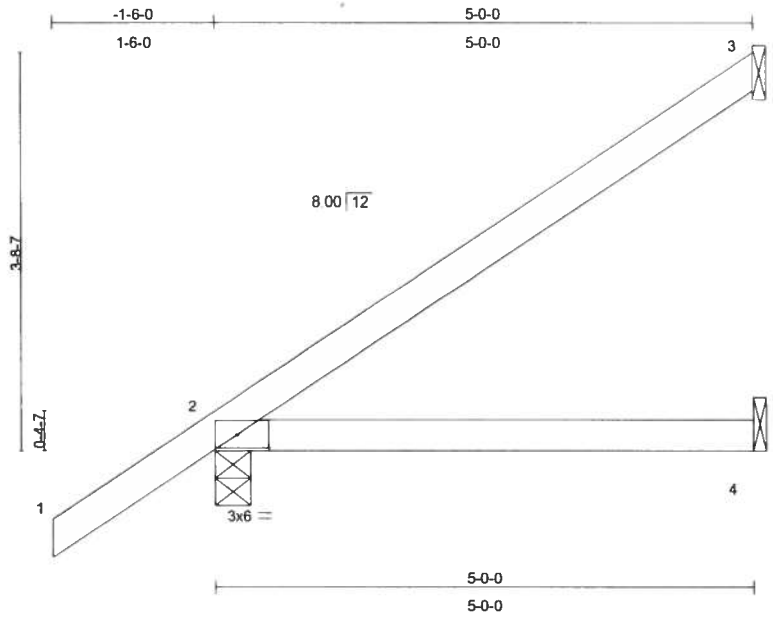
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No 34810
1106 Emerald Bay Blvd
Ocean Beach, FL 32456

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869321
L246421	EJ5	JACK	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:23 2007 Page 1



Scale = 1:20.6

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	0.09	2-4	>672	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: 19 lb	

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

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

REACTIONS (lb/size) 3=113/Mechanical, 2=258/0-4-0, 4=24/Mechanical
Max Horz 2=215(load case 6)
Max Uplift 3=-121(load case 6), 2=-198(load case 6), 4=-56(load case 4)
Max Grav 3=113(load case 1), 2=258(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-100/50
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

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE# No. 34869
105 Coastal Bay Blvd
Ponte Vedra Beach, FL 32082

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869321
L246421	EJ5	JACK	1	1	Job Reference (optional)

NOTES

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 3, 198 lb uplift at joint 2 and 56 lb uplift at joint 4.

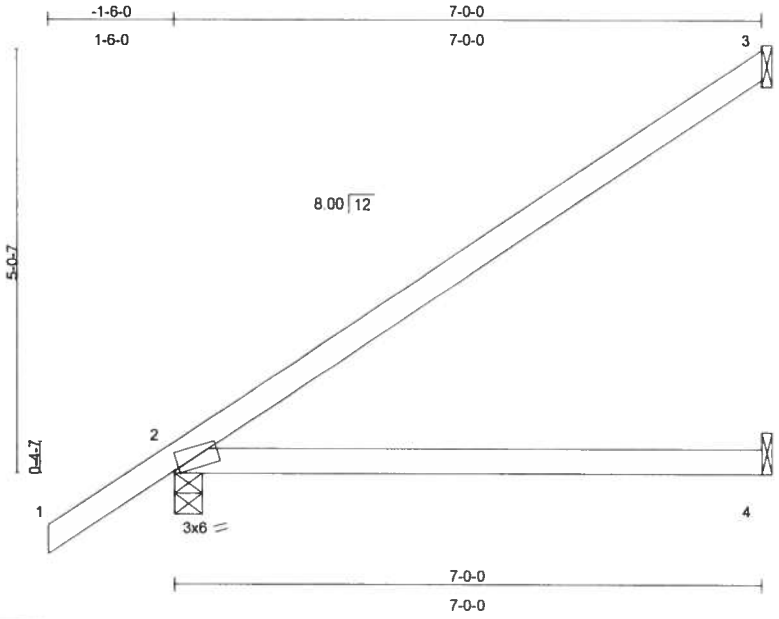
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
105 Coastal Bay Blvd
Ocean Isle Beach, NC 28469

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	EJ7	MONO TRUSS	20	1	J1869322
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:23 2007 Page 1



Scale = 1:26.5

Plate Offsets (X,Y): [2:0-0-12,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	0.41	Vert(LL)	0.09	2-4	>877	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.17	2-4	>479	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=157/Mechanical, 2=318/0-4-0, 4=49/Mechanical
Max Horz 2=198(load case 6)
Max Uplift 3=-106(load case 6), 2=-90(load case 6)
Max Grav 3=157(load case 1), 2=318(load case 1), 4=95(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-133/68
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.76

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; 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 106 lb uplift at joint 3 and 90 lb uplift at joint 2.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34160
1106 Coastal Bay Run
Leyden Green, FL 32548

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869322
L246421	EJ7	MONO TRUSS	20	1	Job Reference (optional)

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1105 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	EJ7A	COMMON	2	1	J1869323
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:24 2007 Page 1

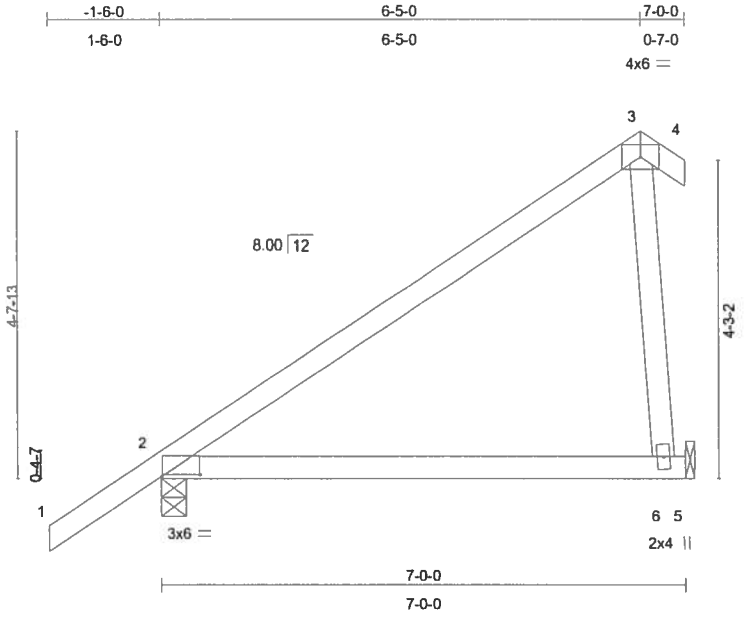


Plate Offsets (X,Y): [2:0-6-3,0-0-6]

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)	-0.07	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.14	2-6	>551	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 32 lb	

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

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

REACTIONS (lb/size) 2=311/0-4-0, 6=217/Mechanical
Max Horz 2=172(load case 6)
Max Uplift 2=-104(load case 6), 6=-91(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-123/50, 3-4=0/17
BOT CHORD 2-6=-12/12, 5-6=0/0
WEBS 3-6=-170/176

JOINT STRESS INDEX
2 = 0.63, 3 = 0.07 and 6 = 0.10

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

Continued on page 2

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	EJ7A	COMMON	2	1	J1869323 Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2 and 91 lb uplift at joint 6.

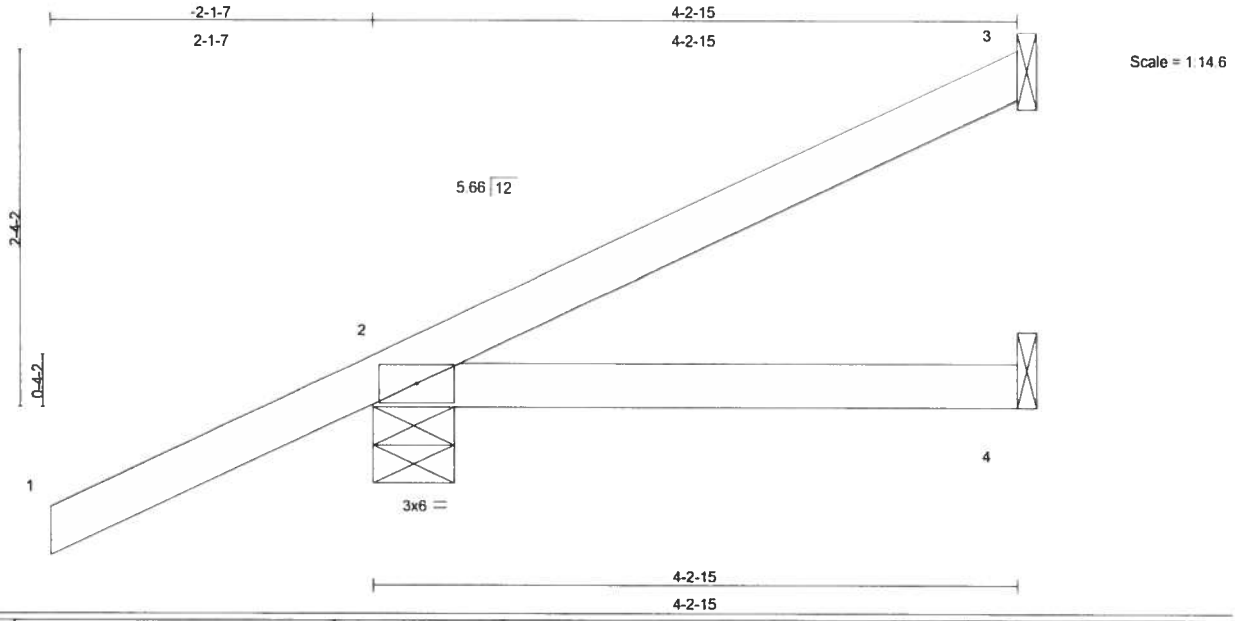
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34929
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	HJ4	JACK	2	1	J1869324
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:24 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	0.33	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.02	2-4	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 17 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 4-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=38/Mechanical, 2=217/0-6-7, 4=14/Mechanical
Max Horz 2=105(load case 5)
Max Uplift 3=-16(load case 5), 2=-180(load case 5)
Max Grav 3=38(load case 1), 2=217(load case 1), 4=53(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-37/10
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.10

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
2) *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 16 lb uplift at joint 3 and 180 lb uplift at joint 2.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Julie Lee
Truss Design Engineer
Florida PE No. 31848
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869324
L246421	HJ4	JACK	2	1	Job Reference (optional)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

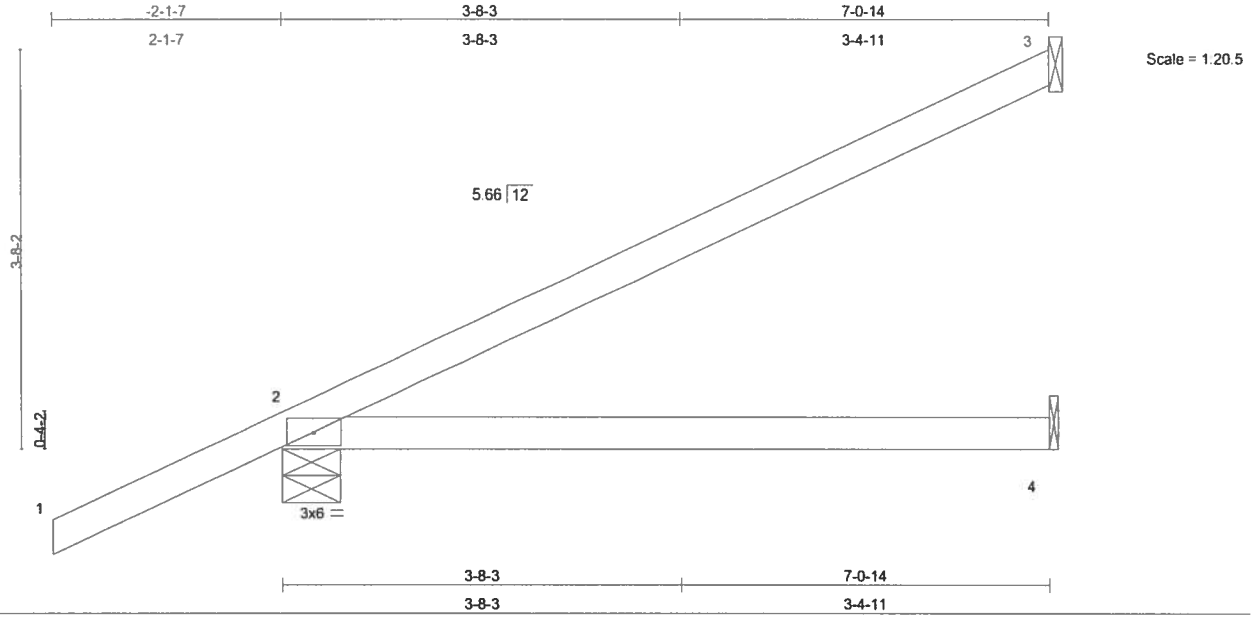
Vert: 2=-4(F=25, B=25)-to-3=-57(F=-2, B=-2), 2=0(F=5, B=5)-to-4=-11(F=-0, B=-0)

Julius Lee
Truss Design Engineer
Florida PE No. 34929
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	HJ7	MONO TRUSS	1	1	J1869325 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:25 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	0.45	Vert(LL)	0.13	2-4	>648	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.15	2-4	>557	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 26 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=191/Mechanical, 2=287/0-6-7, 4=45/Mechanical
Max Horz 2=201(load case 5)
Max Uplift 3=-184(load case 5), 2=-256(load case 5), 4=-58(load case 6)
Max Grav 3=191(load case 1), 2=287(load case 1), 4=98(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-105/57
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.42

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 184 lb uplift at joint 3, 256 lb uplift at joint 2 and 58 lb uplift at joint 4.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1180 Crandall Bay Blvd
Wayland Beach, FL 32966

July 26,2007

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869325
L246421	HJ7	MONO TRUSS	1	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

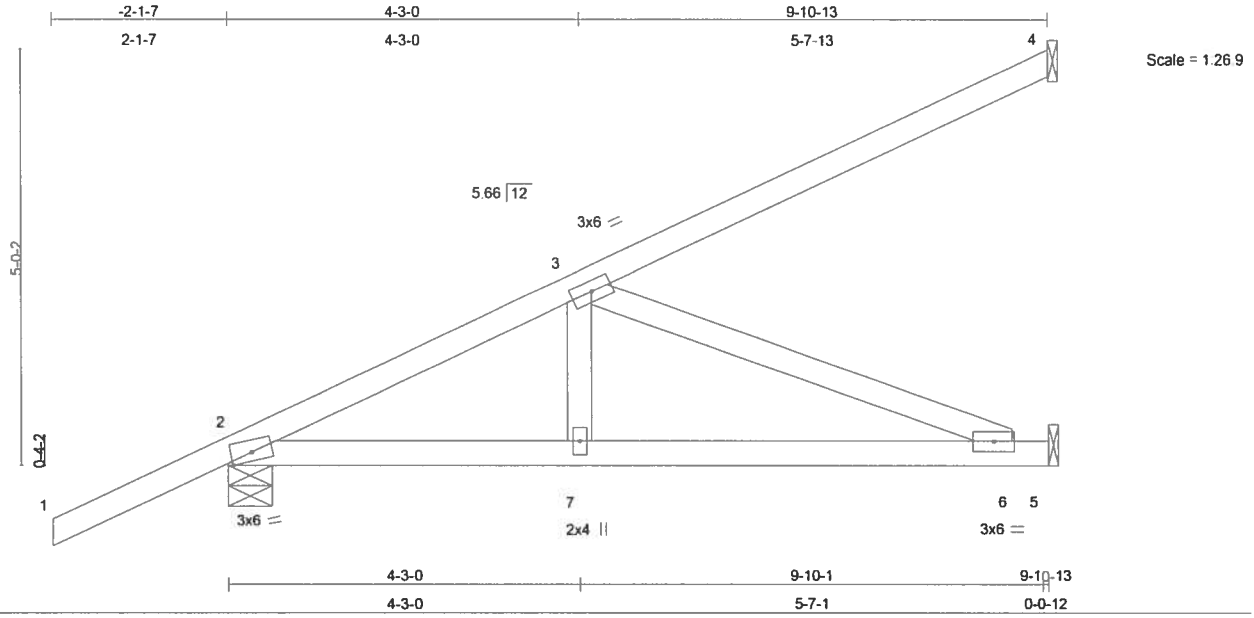
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54
   Trapezoidal Loads (plf)
   Vert: 2=-4(F=25, B=25)-to-3=-95(F=-21, B=-21), 2=0(F=5, B=5)-to-4=-18(F=-4, B=-4)

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869326
L246421	HJ9	MONO TRUSS	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:25 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	0.59	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	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: 45 lb	

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

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

REACTIONS (lb/size) 4=264/Mechanical, 2=409/0-6-7, 5=231/Mechanical
Max Horz 2=343(load case 5)
Max Uplift 4=-266(load case 5), 2=-186(load case 5), 5=-96(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-552/57, 3-4=-149/82
BOT CHORD 2-7=-330/491, 6-7=-330/491, 5-6=0/0
WEBS 3-7=0/196, 3-6=-527/355

JOINT STRESS INDEX
2 = 0.82, 3 = 0.15, 6 = 0.14 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; 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 266 lb uplift at joint 4, 186 lb uplift at joint 2 and 96 lb uplift at joint 5.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

Julius Lee
Truss Design Engineer
Trusses FL No. 2-1858
1105 Industrial Way Blvd
Vero Beach, FL 32960

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869326
L246421	HJ9	MONO TRUSS	2	1	Job Reference (optional)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

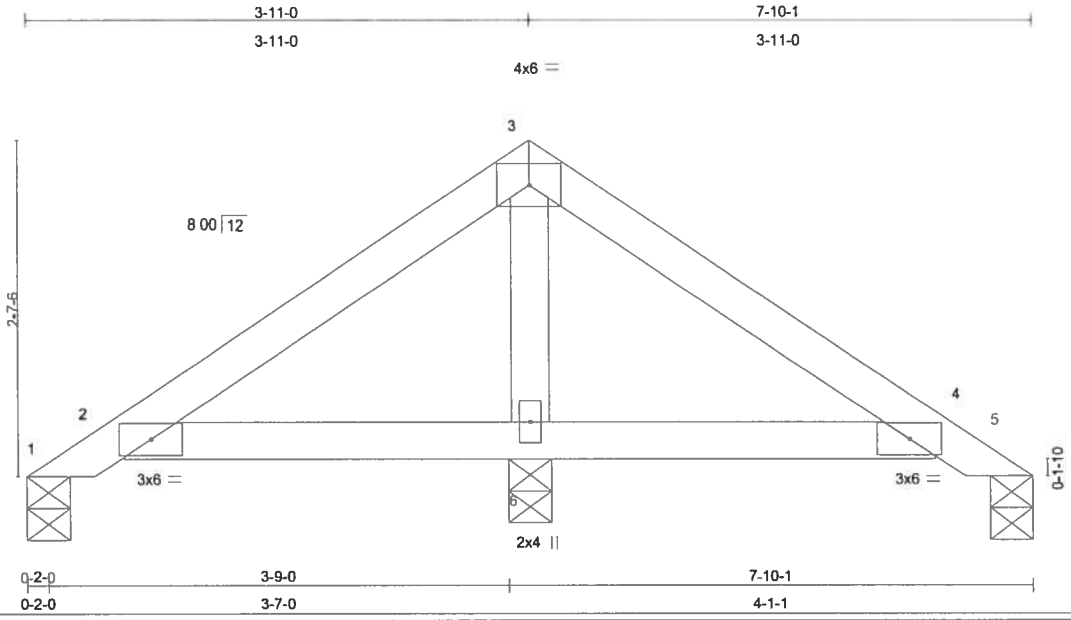
Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

Julius Lee
Truss Design Engineer
Florida PE No. 34985
1105 Coastal Bay Run
Jupiter Beach, FL 33458

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	PB01	VALLEY	3	1	J1869327 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:26 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)	-0.01	4-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	4-6	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	5	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
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) 1=39/0-4-0, 6=404/0-4-0, 5=39/0-4-0
Max Horz 6=-69(load case 4)
Max Uplift 1=-16(load case 5), 6=-77(load case 7), 5=-16(load case 4)
Max Grav 1=64(load case 10), 6=404(load case 1), 5=64(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-30/13, 2-3=-73/177, 3-4=-73/177, 4-5=-30/13
BOT CHORD 2-6=-100/121, 4-6=-100/121
WEBS 3-6=-334/220

JOINT STRESS INDEX
2 = 0.28, 3 = 0.26, 4 = 0.28 and 6 = 0.12

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

Julius Lee
Truss Design Engineer
Florida PE No. 34810
1105 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869327
L246421	PB01	VALLEY	3	1	Job Reference (optional)

NOTES

5) Bearing at joint(s) 1, 5 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 16 lb uplift at joint 1, 77 lb uplift at joint 6 and 16 lb uplift at joint 5.
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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	PB02	VALLEY	1	1	J1869328
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:27 2007 Page 1

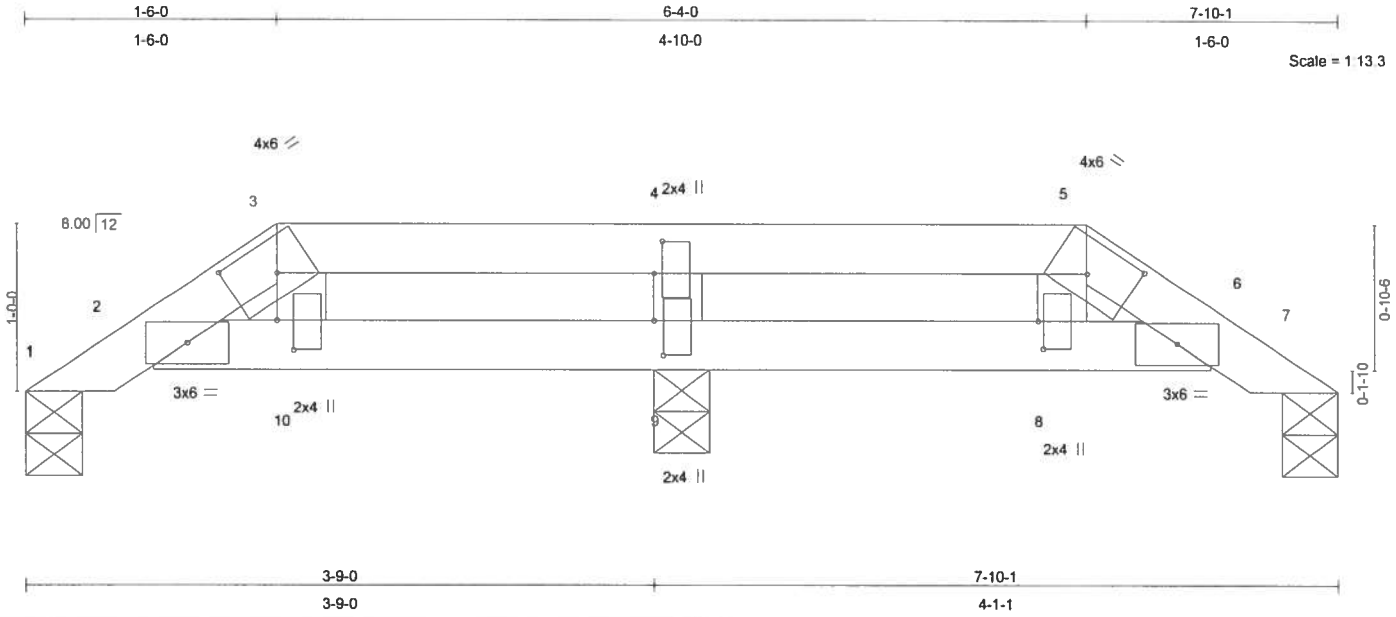


Plate Offsets (X,Y): [3:0-3-8,0-2-5], [4:0-2-4,0-0-10], [5:0-3-6,0-2-6], [8:0-2-0,0-0-6], [9:0-2-7,0-0-11], [10:0-2-2,0-1-3]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.10	Vert(LL)	0.01	8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

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

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

REACTIONS (lb/size) 1=113/0-4-0, 9=255/0-4-0, 7=114/0-4-0
Max Horz 1=-25(load case 4)
Max Uplift 1=-25(load case 5), 9=-84(load case 5), 7=-30(load case 4)
Max Grav 1=113(load case 10), 9=255(load case 1), 7=115(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-55/43, 2-3=-132/101, 3-4=-110/102, 4-5=-110/102, 5-6=-132/101, 6-7=-56/44
BOT CHORD 2-10=-65/113, 9-10=-56/110, 8-9=-56/110, 6-8=-66/113
WEBS 4-9=-179/185, 3-10=-14/36, 5-8=-16/38

JOINT STRESS INDEX
2 = 0.18, 3 = 0.06, 4 = 0.09, 5 = 0.04, 6 = 0.18, 8 = 0.03, 9 = 0.10 and 10 = 0.02

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.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34863
1109 Coastal Bay Run
Daytona Beach, FL 32119

July 26,2007

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869328
L246421	PB02	VALLEY	1	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) 1, 7 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 25 lb uplift at joint 1, 84 lb uplift at joint 9 and 30 lb uplift at joint 7.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

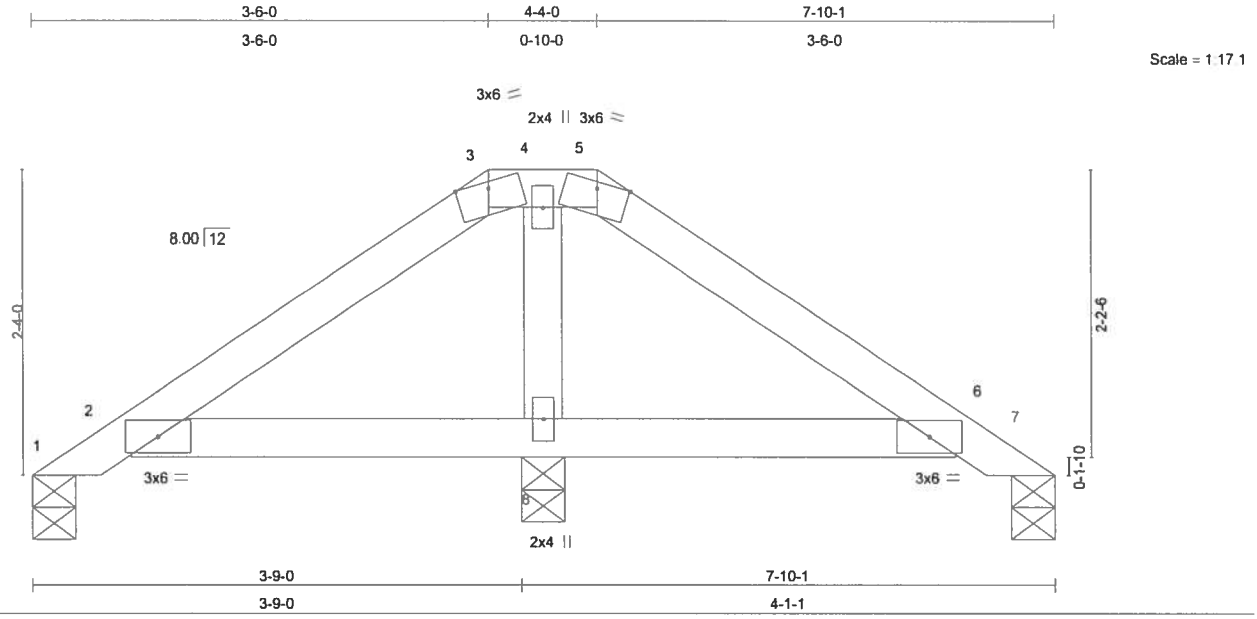
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1326 Coastal Key Blvd
Daytona Beach FL 32119

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	PB03	VALLEY	1	1	J1869329
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:27 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)	-0.01	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	0.05	Horz(TL)	0.00	7	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
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) 1=50/0-4-0, 7=50/0-4-0, 8=383/0-4-0
Max Horz 1=-63(load case 4)
Max Uplift 1=-11(load case 6), 7=-30(load case 4), 8=-74(load case 6)
Max Grav 1=71(load case 10), 7=71(load case 11), 8=383(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-52/57, 2-3=-45/139, 3-4=0/78, 4-5=0/78, 5-6=-45/139, 6-7=-34/19
BOT CHORD 2-8=-78/96, 6-8=-78/96
WEBS 4-8=-309/210

JOINT STRESS INDEX
2 = 0.29, 3 = 0.12, 4 = 0.12, 5 = 0.12, 6 = 0.29 and 8 = 0.12

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

Continued on page 2

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

July 26,2007

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869329
L246421	PB03	VALLEY	1	1	Job Reference (optional)

NOTES

6) Bearing at joint(s) 1, 7 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 11 lb uplift at joint 1, 30 lb uplift at joint 7 and 74 lb uplift at joint 8.
8) 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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	PB04	VALLEY	1	1	J1869330 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:28 2007 Page 1

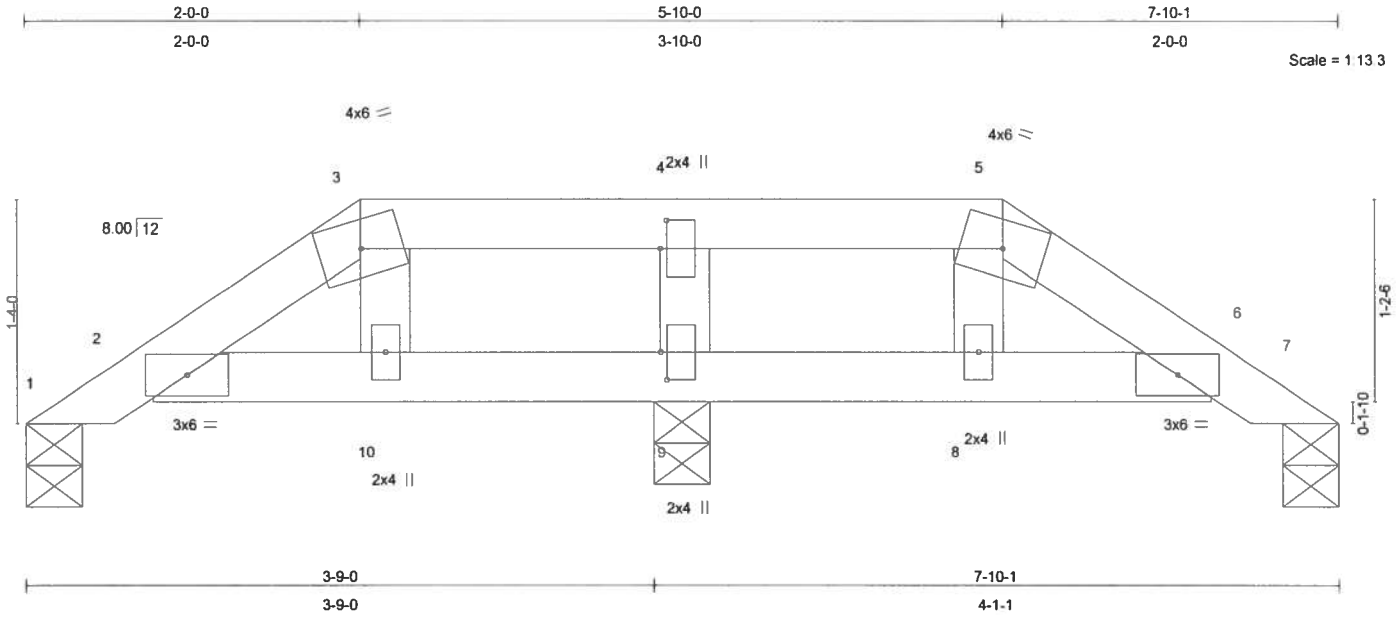


Plate Offsets (X,Y): [4:0-2-0,0-0-7], [9:0-2-0,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.11	Vert(LL)	-0.01	10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	10	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.01	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 25 lb	

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

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

REACTIONS (lb/size) 1=116/0-4-0, 7=115/0-4-0, 9=252/0-4-0
Max Horz 1=34(load case 5)
Max Uplift 1=-25(load case 6), 7=-28(load case 4), 9=-72(load case 5)
Max Grav 1=117(load case 10), 7=116(load case 11), 9=252(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-57/42, 2-3=-106/79, 3-4=-79/86, 4-5=-79/86, 5-6=-106/79, 6-7=-56/42
BOT CHORD 2-10=-29/81, 9-10=-24/79, 8-9=-24/79, 6-8=-29/81
WEBS 3-10=-18/31, 4-9=-161/157, 5-8=-17/29

JOINT STRESS INDEX
2 = 0.21, 3 = 0.05, 4 = 0.09, 5 = 0.04, 6 = 0.21, 8 = 0.02, 9 = 0.09 and 10 = 0.02

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.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
100 Crystal Bay Plaza
Boynton Beach, FL 33435

July 26,2007

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869330
L246421	PB04	VALLEY	1	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) 1, 7 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 25 lb uplift at joint 1, 28 lb uplift at joint 7 and 72 lb uplift at joint 9.
8) 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
1109 Crystal Bay Blvd
Ocean Beach, FL 32456

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T01	HIP	1	1	J1869331 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:29 2007 Page 1

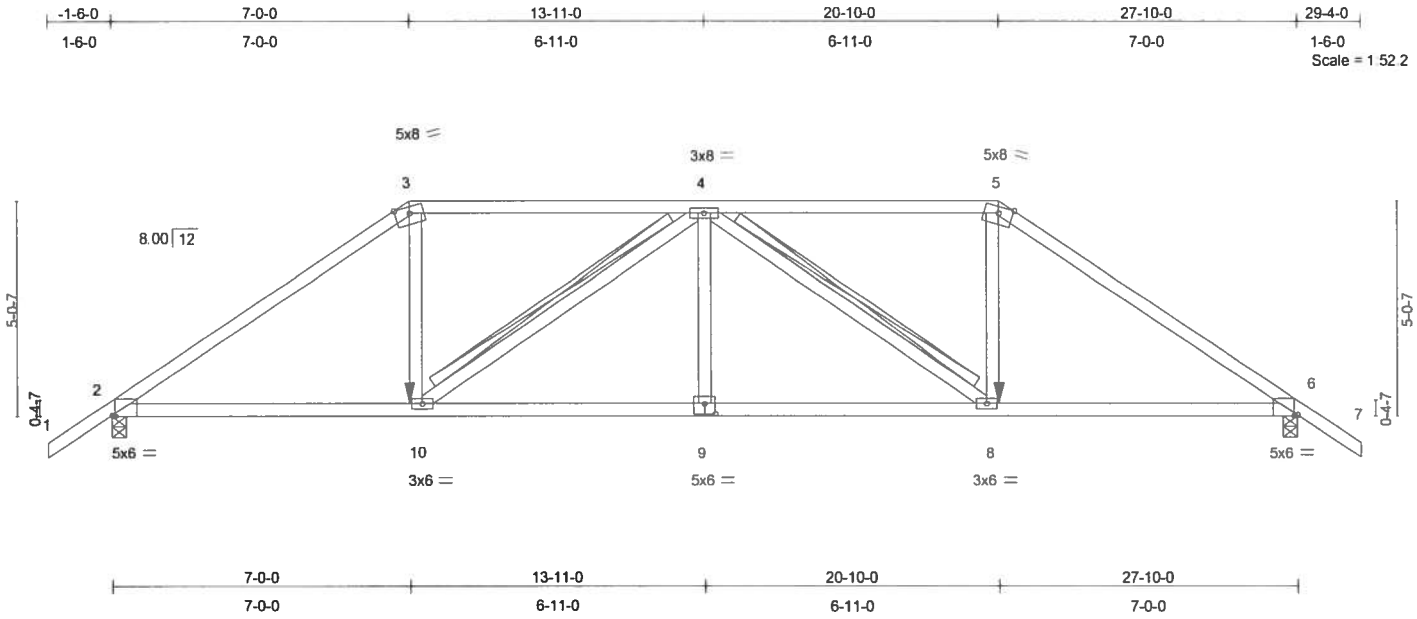


Plate Offsets (X,Y): [2:0-0-13,Edge], [6:0-0-13,Edge], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.84	Vert(LL)	0.17	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.68	Vert(TL)	-0.31	9-10	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.39	Horz(TL)	0.13	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 136 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 3-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-6 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-10, 4-8
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=1895/0-4-0, 6=1895/0-4-0
Max Horz 2=-130(load case 3)
Max Uplift 2=-809(load case 4), 6=-809(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-2954/1360, 3-4=-2391/1192, 4-5=-2391/1192, 5-6=-2954/1360, 6-7=0/45
BOT CHORD 2-10=-1165/2358, 9-10=-1509/3102, 8-9=-1509/3102, 6-8=-1036/2358
WEBS 3-10=-491/1066, 4-10=-963/559, 4-9=0/282, 4-8=-963/559, 5-8=-491/1066

JOINT STRESS INDEX
2 = 0.77, 3 = 0.99, 4 = 0.56, 5 = 0.99, 6 = 0.77, 8 = 0.68, 9 = 0.74 and 10 = 0.68

Julius Lee
Truss Design Engineer
Florida PE No. 34836
1146 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T01	HIP	1	1	J1869331 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; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 809 lb uplift at joint 2 and 809 lb uplift at joint 6.
7) Girder carries hip end with 7-0-0 end setback.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-117(F=-63), 5-7=-54, 2-10=-10, 8-10=-22(F=-12), 6-8=-10
   Concentrated Loads (lb)
   Vert: 10=-411(F) 8=-411(F)

Julius Lee
Truss Design Engineer
Florida PE No. 34198
1104 Coastal Bay Ring
Ocean Isle Beach, NC 28469

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T02	HIP	1	1	J1869332
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:30 2007 Page 1

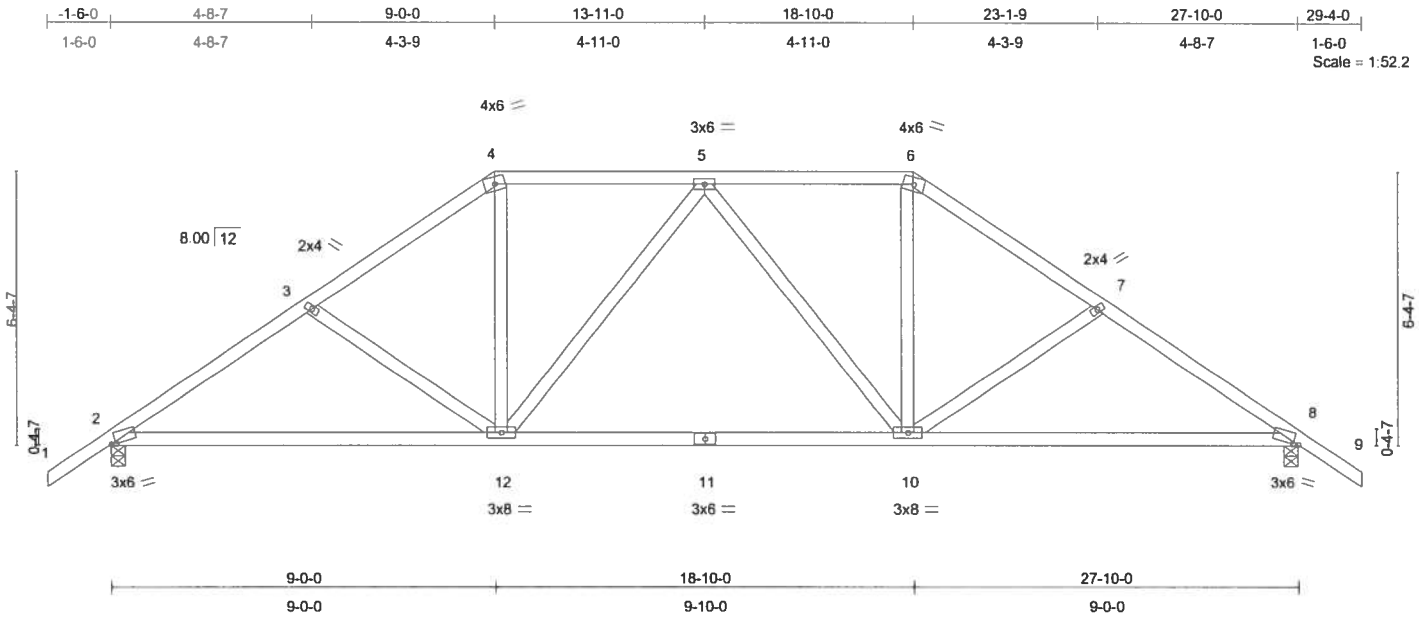


Plate Offsets (X,Y): [2:0-1-5,0-0-2], [8:0-1-5,0-0-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.19	Vert(LL)	-0.12	2-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.43	Vert(TL)	-0.22	2-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.05	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 149 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=970/0-4-0, 8=970/0-4-0
Max Horz 2=167(load case 5)
Max Uplift 2=-233(load case 6), 8=-233(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1332/630, 3-4=-1127/582, 4-5=-891/545, 5-6=-891/545, 6-7=-1127/582, 7-8=-1332/630, 8-9=0/45
BOT CHORD 2-12=-370/1038, 11-12=-288/994, 10-11=-288/994, 8-10=-370/1038
WEBS 3-12=-191/189, 4-12=-137/363, 5-12=-248/177, 5-10=-248/177, 6-10=-137/363, 7-10=-191/189

JOINT STRESS INDEX
2 = 0.83, 3 = 0.33, 4 = 0.42, 5 = 0.39, 6 = 0.42, 7 = 0.33, 8 = 0.83, 10 = 0.56, 11 = 0.46 and 12 = 0.56

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.

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

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869332
L246421	T02	HIP	1	1	
					Job Reference (optional)

NOTES

4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2 and 233 lb uplift at joint 8.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida FIB No. 3-11868
1105 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T03	HIP	1	1	J1869333
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:31 2007 Page 1

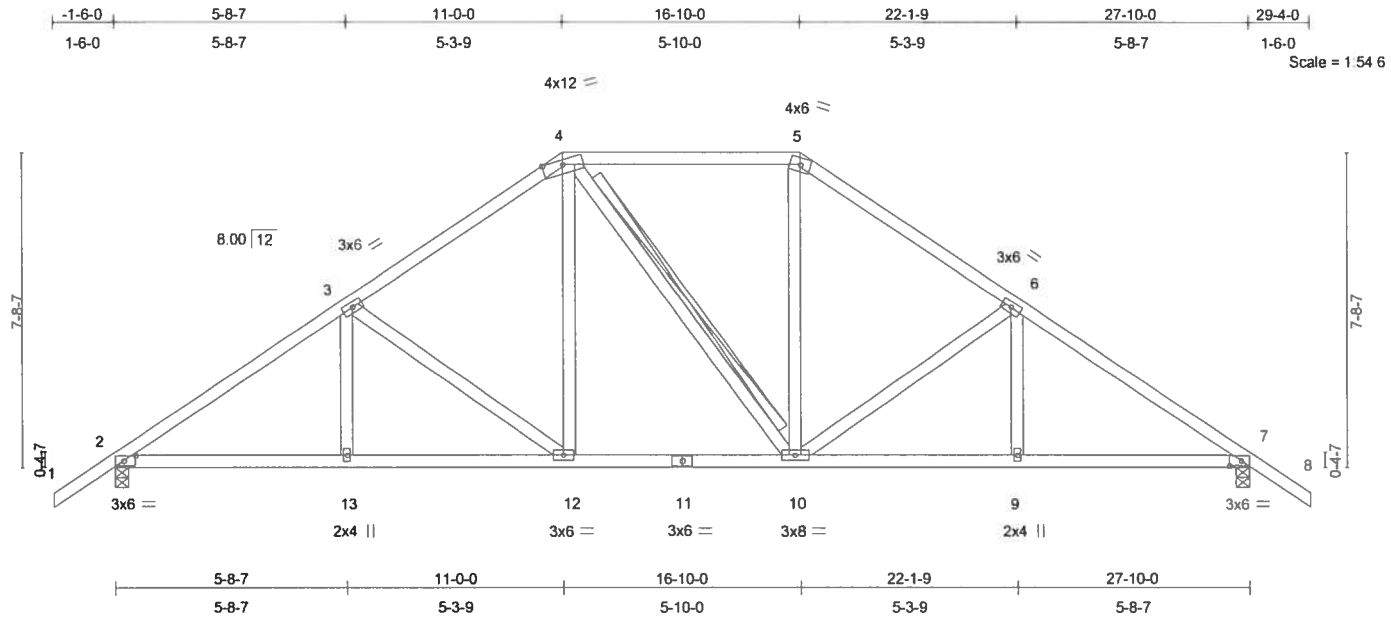


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [7:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.05	12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.10	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 159 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-10
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=970/0-4-0, 7=970/0-4-0
Max Horz 2=-204(load case 4)
Max Uplift 2=-245(load case 6), 7=-245(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1338/595, 3-4=-1028/558, 4-5=-794/531, 5-6=-1028/558, 6-7=-1338/595, 7-8=0/45
BOT CHORD 2-13=-330/1031, 12-13=-330/1031, 11-12=-162/793, 10-11=-162/793, 9-10=-330/1030, 7-9=-330/1030
WEBS 3-13=0/176, 3-12=-297/229, 4-12=-100/287, 4-10=-120/120, 5-10=-100/287, 6-10=-297/229, 6-9=0/175

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1110 Coastal Ray Blvd
Boynton Beach, FL 33435

JOINT STRESS INDEX
2 = 0.67, 3 = 0.41, 4 = 0.77, 5 = 0.51, 6 = 0.41, 7 = 0.67, 9 = 0.33, 10 = 0.56, 11 = 0.28, 12 = 0.34 and 13 = 0.33

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869333
L246421	T03	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; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 2 and 245 lb uplift at joint 7.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Ocean Isle Beach, NC 28469

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T04	HIP	1	1	J1869334
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:32 2007 Page 1

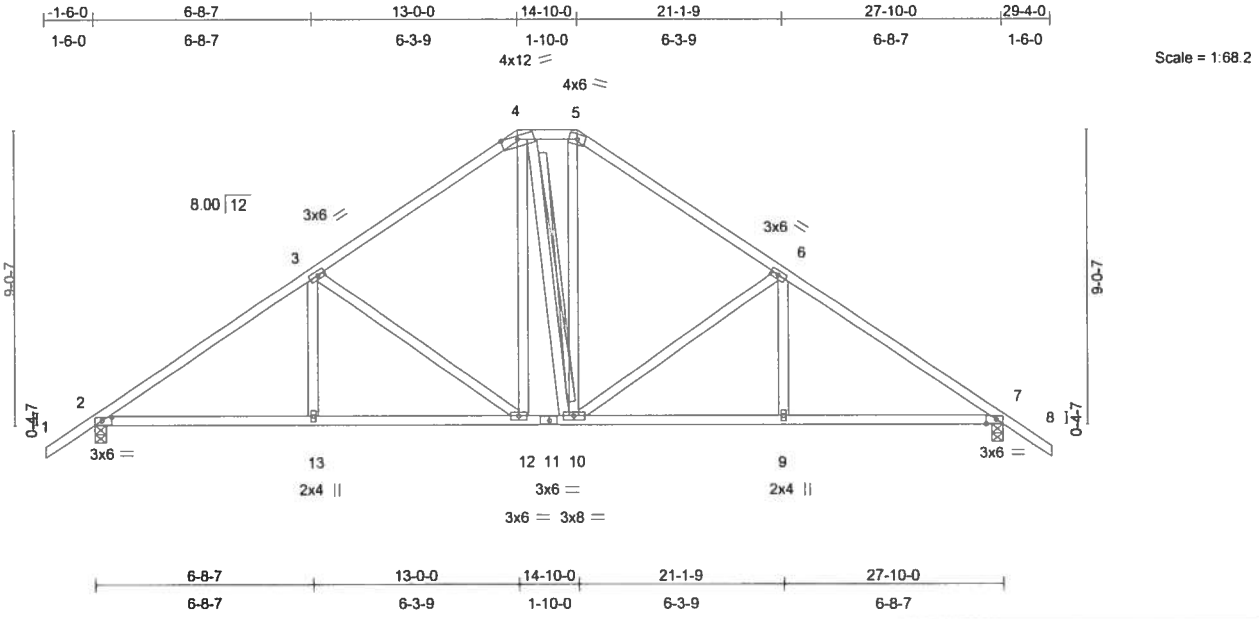


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [7:0-3-9,0-1-8]

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)	-0.05	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.11	12-13	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.05	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 169 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 5-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-10
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=970/0-4-0, 7=970/0-4-0
Max Horz 2=-241(load case 4)
Max Uplift 2=-253(load case 6), 7=-264(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1322/577, 3-4=-935/520, 4-5=-699/510, 5-6=-937/521, 6-7=-1321/576, 7-8=0/45
BOT CHORD 2-13=-303/1011, 12-13=-303/1011, 11-12=-77/696, 10-11=-77/696, 9-10=-303/1010, 7-9=-303/1010
WEBS 3-13=0/219, 3-12=-395/295, 4-12=-141/263, 4-10=-167/180, 5-10=-138/287, 6-10=-390/292, 6-9=0/216

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Crosskill Bay Blvd
Ocoee, FL 34761

JOINT STRESS INDEX
2 = 0.66, 3 = 0.41, 4 = 0.64, 5 = 0.54, 6 = 0.41, 7 = 0.66, 9 = 0.33, 10 = 0.58, 11 = 0.29, 12 = 0.34 and 13 = 0.33

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869334
L246421	T04	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; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 2 and 264 lb uplift at joint 7.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1105 Coastal Key Blvd
Jupiter Beach, FL 33458

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS	J1869335
L246421	T05	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:32 2007 Page 1

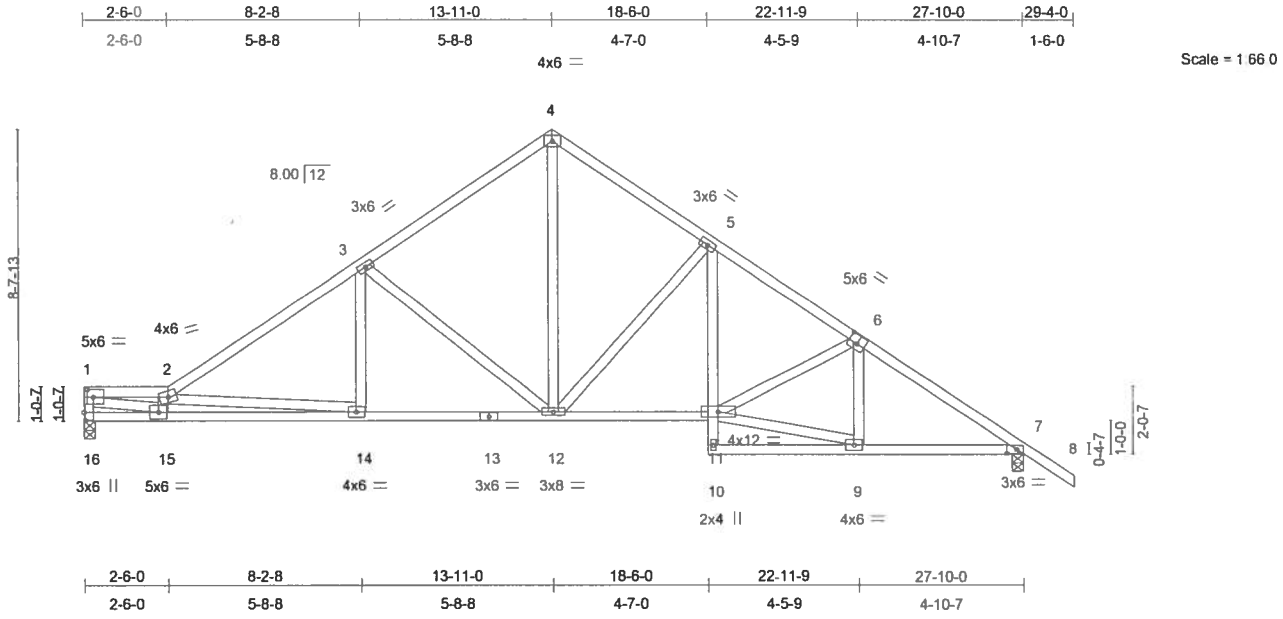


Plate Offsets (X,Y): [1:0-2-6,0-2-9], [6:0-3-0,0-3-0], [7:0-3-9,0-1-8], [16:0-3-0,0-0-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	0.14	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.26	14-15	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.77	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 171 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
5-10 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-2-6 oc bracing: 14-15.

REACTIONS (lb/size) 16=878/0-4-0, 7=973/0-4-0
Max Horz 16=-275(load case 4)
Max Uplift 16=-187(load case 6), 7=-263(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-16=-760/346, 1-2=-2243/1055, 2-3=-1441/657, 3-4=-981/536, 4-5=-956/541, 5-6=-1309/619, 6-7=-1355/590, 7-8=0/45
BOT CHORD 15-16=-184/271, 14-15=-999/2395, 13-14=-325/1159, 12-13=-325/1159, 11-12=-239/1039, 10-11=0/65, 5-11=-104/300, 9-10=-28/78, 7-9=-337/1051
WEBS 1-15=-987/2082, 2-15=-779/425, 2-14=-1246/679, 3-14=-67/313, 3-12=-534/357, 4-12=-400/707, 5-12=-442/287, 9-11=-317/998, 6-11=-66/114, 6-9=-192/111

JOINT STRESS INDEX
1 = 0.63, 2 = 0.53, 3 = 0.41, 4 = 0.45, 5 = 0.41, 6 = 0.31, 7 = 0.67, 9 = 0.44, 10 = 0.59, 11 = 0.67, 12 = 0.56, 13 = 0.37, 14 = 0.35, 15 = 0.63 and 16 = 0.43

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

Julius Lee
Truss Design Engineer
Florida FIN No. 34909
1106 Coastal Bay Blvd
Ocean Isle Beach, NC 28469

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869335
L246421	T05	SPECIAL	1	1	Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 16 and 263 lb uplift at joint 7.

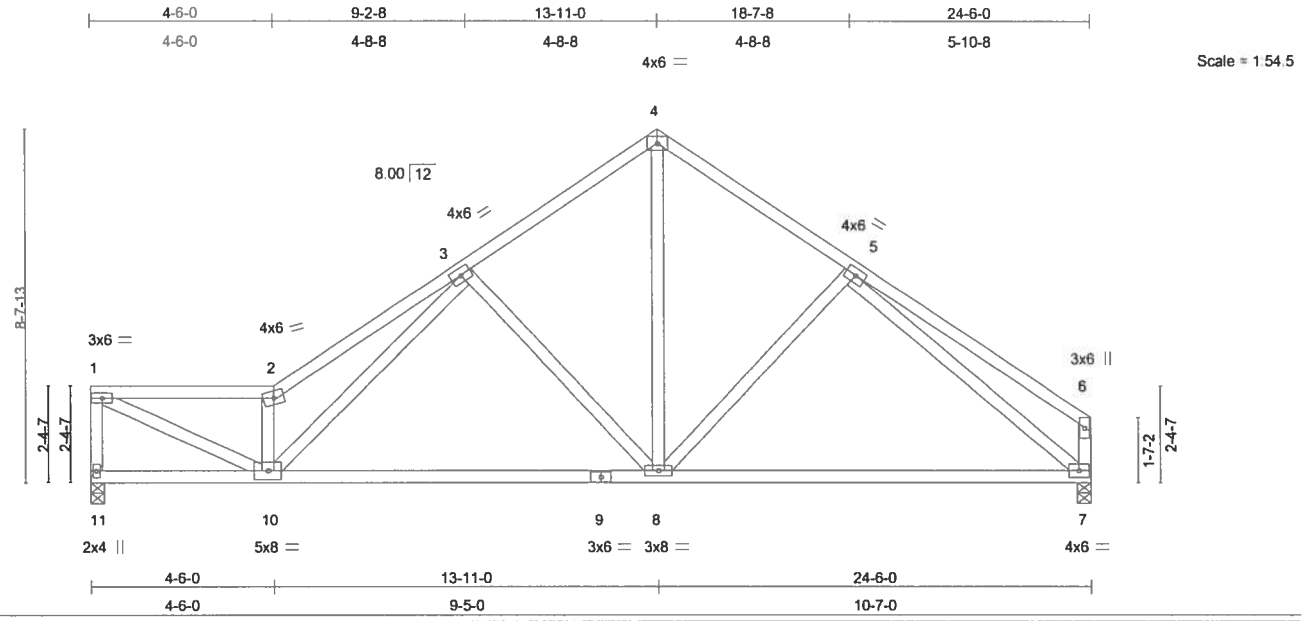
LOAD CASE(S) Standard

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T06	SPECIAL	1	1	J1869336
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:33 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	0.80	Vert(LL)	-0.17	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.29	8-10	>985	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 145 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 4-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 11=775/0-4-0, 7=775/0-4-0
Max Horz 11=-193(load case 4)
Max Uplift 11=-173(load case 6), 7=-150(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-749/364, 1-2=-1325/609, 2-3=-1748/868, 3-4=-765/448, 4-5=-766/450, 5-6=-295/184, 6-7=-272/193
BOT CHORD 10-11=-182/167, 9-10=-351/864, 8-9=-351/864, 7-8=-269/668
WEBS 1-10=-639/1409, 2-10=-1155/636, 3-8=-422/324, 4-8=-322/514, 5-8=-181/203, 5-7=-669/280, 3-10=-399/797

JOINT STRESS INDEX
1 = 0.78, 2 = 0.54, 3 = 0.34, 4 = 0.36, 5 = 0.25, 6 = 0.43, 7 = 0.74, 8 = 0.56, 9 = 0.37, 10 = 0.63 and 11 = 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; 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.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34927
1135 Colonial Blvd #14
Fort Myers, FL 33907

July 26,2007

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869336
L246421	T06	SPECIAL	1	1	
					Job Reference (optional)

NOTES

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 11 and 150 lb uplift at joint 7.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34927
1102 Coastal Bay Run
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T07	SPECIAL	1	1	J1869337 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:34 2007 Page 1

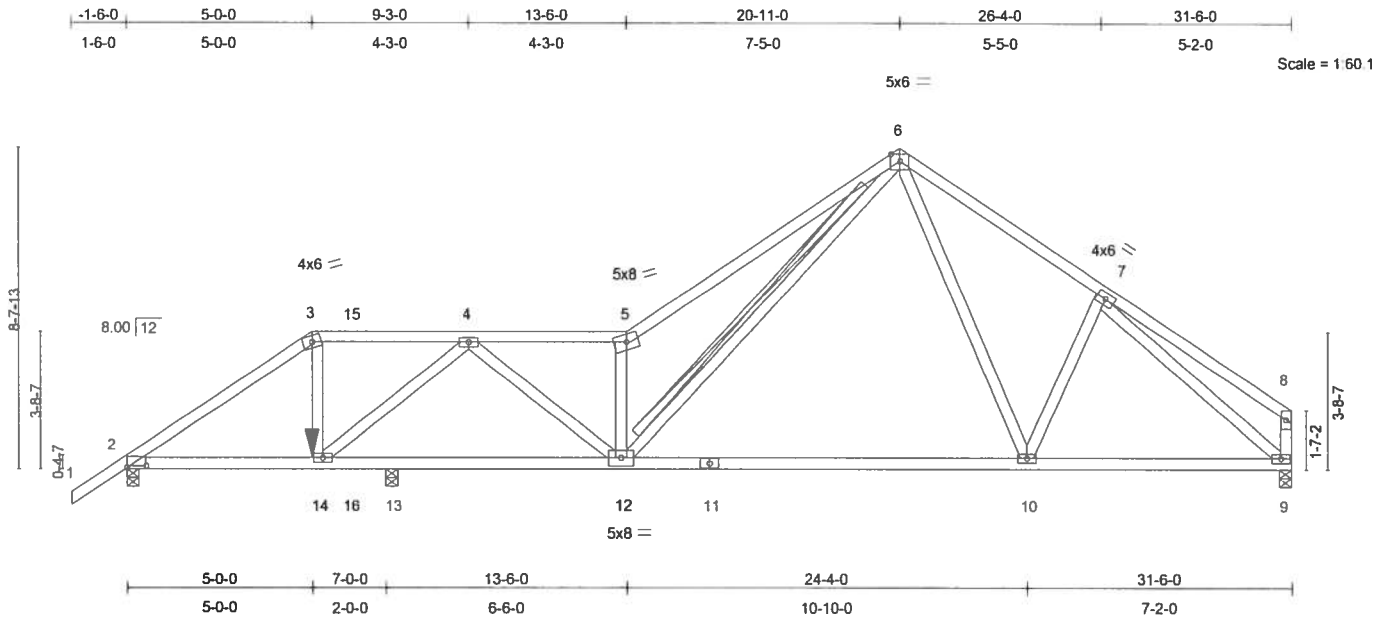


Plate Offsets (X,Y): [2:0-6-3,0-0-10]

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)	-0.34	10-12	>854	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.72	10-12	>402	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.82	Horz(TL)	0.06	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 176 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-1 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-12
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=994/0-4-0, 9=949/0-4-0, 13=371/0-4-0
Max Horz 2=247(load case 4)
Max Uplift 2=-499(load case 5), 9=-208(load case 6), 13=-119(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1280/547, 3-15=-1027/503, 4-15=-1026/503, 4-5=-2007/619, 5-6=-2601/888, 6-7=-1091/325, 7-8=-210/120, 8-9=-215/115
BOT CHORD 2-14=-537/1010, 14-16=-610/1623, 13-16=-610/1623, 12-13=-610/1623, 11-12=-174/794, 10-11=-174/794, 9-10=-179/865
WEBS 3-14=-215/385, 4-14=-777/124, 4-12=-34/498, 5-12=-1718/651, 6-12=-728/1913, 6-10=-84/266, 7-10=-120/146, 7-9=-1038/208

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

JOINT STRESS INDEX
2 = 0.68, 3 = 0.47, 4 = 0.34, 5 = 0.73, 6 = 0.83, 7 = 0.29, 8 = 0.36, 9 = 0.36, 10 = 0.47, 11 = 0.48, 12 = 0.89 and 14 = 0.34

Continued on page 2

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869337
L246421	T07	SPECIAL	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; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All 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 499 lb uplift at joint 2, 208 lb uplift at joint 9 and 119 lb uplift at joint 13.
8) Girder carries hip end with 25-6-0 right side setback, 5-0-0 left side setback, and 5-0-0 end setback.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-15=-90(F=-36), 5-15=-54, 5-6=-54, 6-8=-54, 2-14=-10, 14-16=-17(F=-7), 9-16=-10
   Concentrated Loads (lb)
   Vert: 14=-187(F)

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T08	SPECIAL	1	1	J1869338 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:35 2007 Page 1

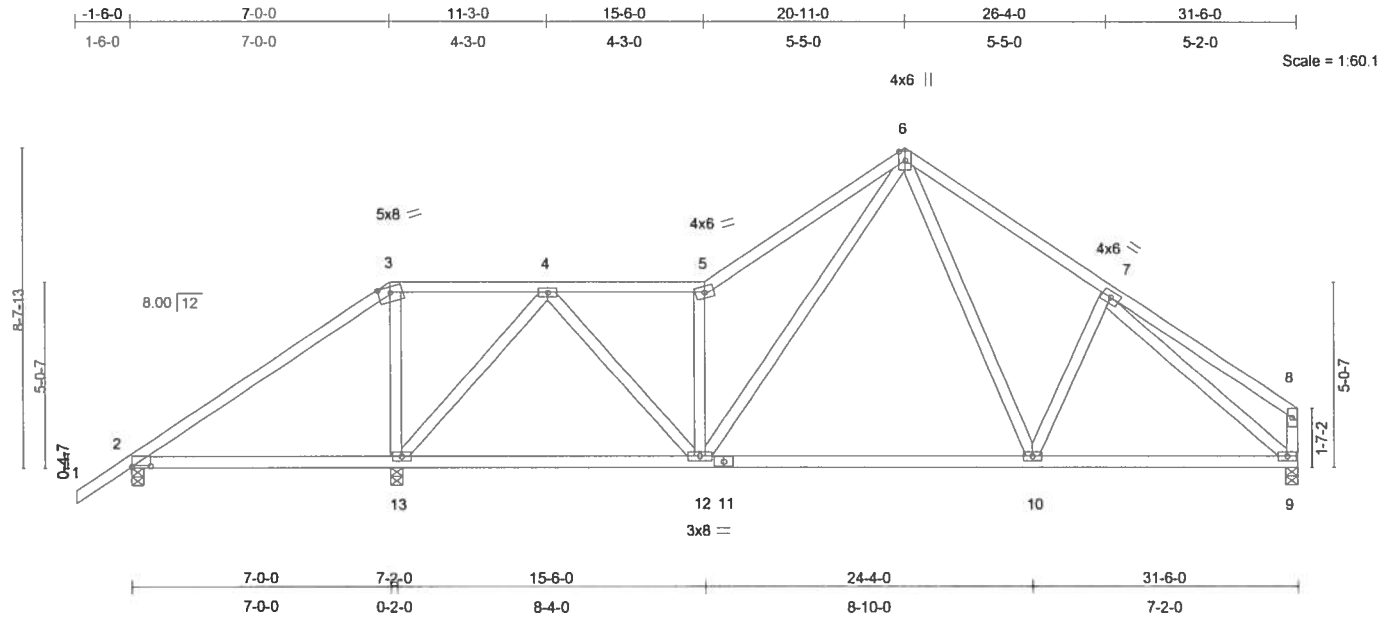


Plate Offsets (X,Y): [2:0-6-3,0-0-6]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	0.18	2-13	>455	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.21	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 181 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-13.

REACTIONS (lb/size) 2=-10/0-4-0, 13=1418/0-4-0, 9=678/0-4-0
Max Horz 2=247(load case 5)
Max Uplift 2=-108(load case 6), 13=-467(load case 6), 9=-138(load case 7)
Max Grav 2=38(load case 10), 13=1418(load case 1), 9=678(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-300/620, 3-4=-134/439, 4-5=-591/326, 5-6=-809/510, 6-7=-710/444, 7-8=-203/159, 8-9=-203/163
BOT CHORD 2-13=-419/267, 12-13=-74/155, 11-12=-79/445, 10-11=-79/445, 9-10=-220/576
WEBS 3-13=-632/426, 4-13=-907/414, 4-12=-289/666, 5-12=-671/468, 6-12=-206/354, 6-10=-153/260, 7-10=-166/205, 7-9=-643/227

JOINT STRESS INDEX
2 = 0.63, 3 = 0.70, 4 = 0.44, 5 = 0.76, 6 = 0.59, 7 = 0.29, 8 = 0.30, 9 = 0.41, 10 = 0.47, 11 = 0.38, 12 = 0.65 and 13 = 0.37

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

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

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869338
L246421	T08	SPECIAL	1	1	
					Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left 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 108 lb uplift at joint 2, 467 lb uplift at joint 13 and 138 lb uplift at joint 9.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34863
1105 Coastal Bay Rivn
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T09	SPECIAL	1	1	J1869339
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:36 2007 Page 1

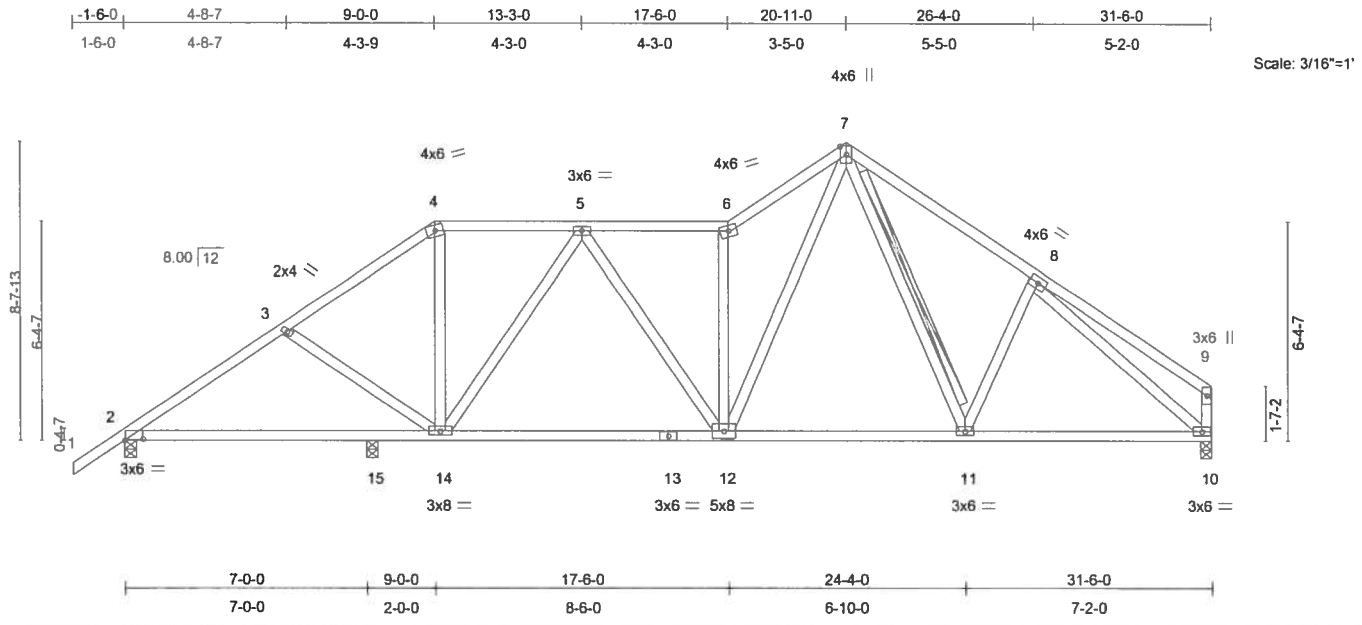


Plate Offsets (X,Y): [2:0-6-3,0-0-6]

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)	0.13	12-14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.45	Vert(TL)	-0.27	12-14	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.81	Horz(TL)	0.05	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 194 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 4-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 7-11
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=963/0-4-0, 10=959/0-4-0, 15=164/0-4-0
Max Horz 2=247(load case 5)
Max Uplift 2=-353(load case 6), 10=-170(load case 6), 15=-167(load case 5)
Max Grav 2=963(load case 1), 10=959(load case 1), 15=198(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1353/604, 3-4=-1154/543, 4-5=-915/507, 5-6=-1190/657, 6-7=-1488/855, 7-8=-1095/631, 8-9=-229/166, 9-10=-219/167
BOT CHORD 2-15=-485/1047, 14-15=-485/1047, 13-14=-434/1134, 12-13=-434/1134, 11-12=-243/797, 10-11=-362/870
WEBS 3-14=-175/225, 4-14=-137/365, 5-14=-392/236, 5-12=-40/156, 6-12=-963/582, 7-12=-566/1059, 7-11=-124/198, 8-11=-134/178, 8-10=-1018/415

Julius Lee
Truss Design Engineer
Florida PE No. 34985
1150 E. Bustel Rey Blvd.
Daytona Beach, FL 32114

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869339
L246421	T09	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.61, 3 = 0.33, 4 = 0.34, 5 = 0.41, 6 = 0.45, 7 = 0.52, 8 = 0.29, 9 = 0.33, 10 = 0.56, 11 = 0.47, 12 = 0.56, 13 = 0.37 and 14 = 0.56

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 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 353 lb uplift at joint 2, 170 lb uplift at joint 10 and 167 lb uplift at joint 15.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida FL FC 31868
1116 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T10	HIP	1	1	J1869340
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:37 2007 Page 1

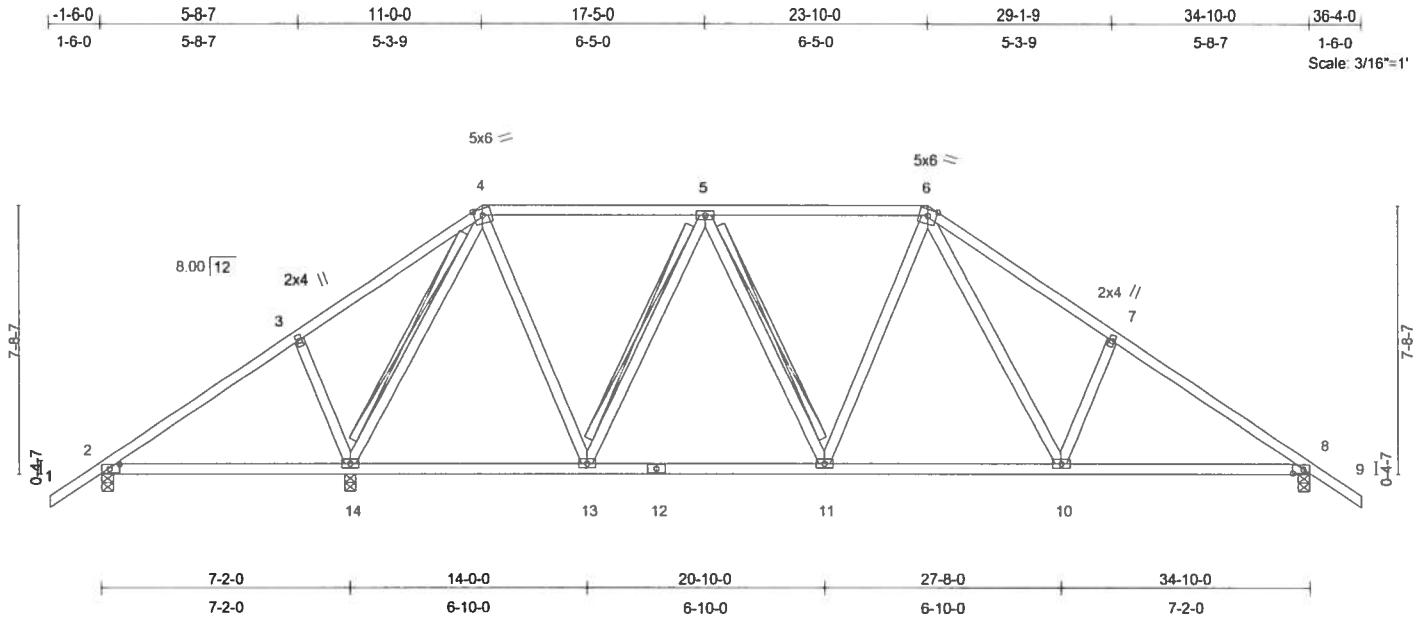


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [8:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.28	Vert(LL)	0.14	2-14	>606	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.12	8-10	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.03	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 198 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-14.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-14, 5-13, 5-11
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=206/0-4-0, 14=1240/0-4-0, 8=942/0-4-0
Max Horz 2=-204(load case 4)
Max Uplift 2=-171(load case 6), 14=-411(load case 5), 8=-244(load case 7)
Max Grav 2=239(load case 10), 14=1240(load case 1), 8=942(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-90/171, 3-4=-31/275, 4-5=-513/388, 5-6=-747/509, 6-7=-1160/661, 7-8=-1279/583, 8-9=0/45
BOT CHORD 2-14=-117/182, 13-14=-114/312, 12-13=-175/712, 11-12=-175/712, 10-11=-139/749, 8-10=-321/984
WEBS 3-14=-258/283, 4-14=-1031/412, 4-13=-201/552, 5-13=-493/281, 5-11=-30/146, 6-11=-81/103, 6-10=-203/328, 7-10=-229/241

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1102 Crandall Bay Blvd.
Bovnton Beach, FL 33435

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869340
L246421	T10	HIP	1	1	
					Job Reference (optional)

JOINT STRESS INDEX

2 = 0.65, 3 = 0.33, 4 = 0.51, 5 = 0.45, 6 = 0.51, 7 = 0.33, 8 = 0.65, 10 = 0.47, 11 = 0.48, 12 = 0.26, 13 = 0.48 and 14 = 0.47

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 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 171 lb uplift at joint 2, 411 lb uplift at joint 14 and 244 lb uplift at joint 8.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Ocean Isle Beach, NC 28469

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T11	HIP	1	1	J1869341
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:38 2007 Page 1

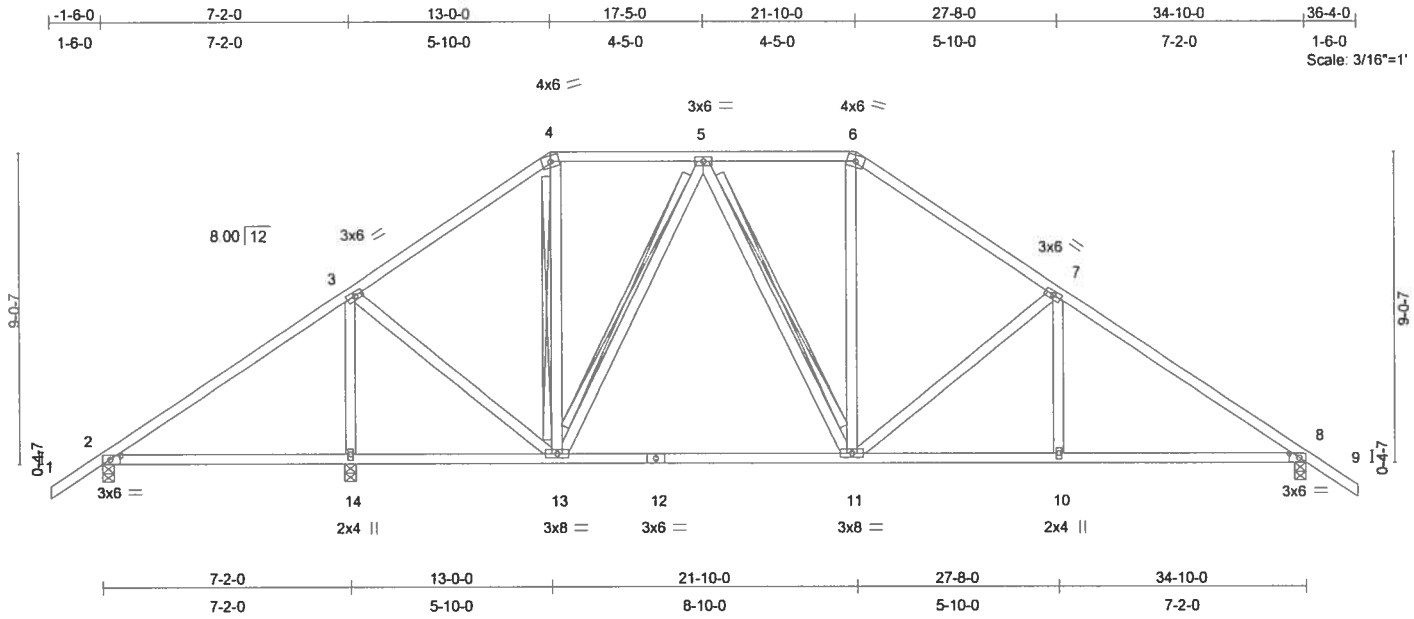


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [8:0-3-9,0-1-8]

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)	0.17	2-14	>491	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.21	11-13	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.03	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 206 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 5-2-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-13, 5-13, 5-11
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=217/0-4-0, 14=1226/0-4-0, 8=945/0-4-0
Max Horz 2=241(load case 5)
Max Uplift 2=-179(load case 6), 14=-346(load case 5), 8=-257(load case 7)
Max Grav 2=259(load case 10), 14=1226(load case 1), 8=945(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-104/230, 3-4=-600/388, 4-5=-418/385, 5-6=-662/504, 6-7=-890/525, 7-8=-1261/569, 8-9=0/45
BOT CHORD 2-14=-132/183, 13-14=-132/183, 12-13=-116/592, 11-12=-116/592, 10-11=-288/954, 8-10=-288/954
WEBS 3-14=-1137/562, 3-13=-141/659, 4-13=-59/124, 5-13=-443/214, 5-11=-63/179, 6-11=-93/237, 7-11=-382/294, 7-10=0/197

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

JOINT STRESS INDEX
2 = 0.69, 3 = 0.46, 4 = 0.47, 5 = 0.45, 6 = 0.47, 7 = 0.46, 8 = 0.69, 10 = 0.40, 11 = 0.62, 12 = 0.35, 13 = 0.62 and 14 = 0.40

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869341
L246421	T11	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 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 2, 346 lb uplift at joint 14 and 257 lb uplift at joint 8.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34927
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869342
L246421	T12	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:39 2007 Page 1

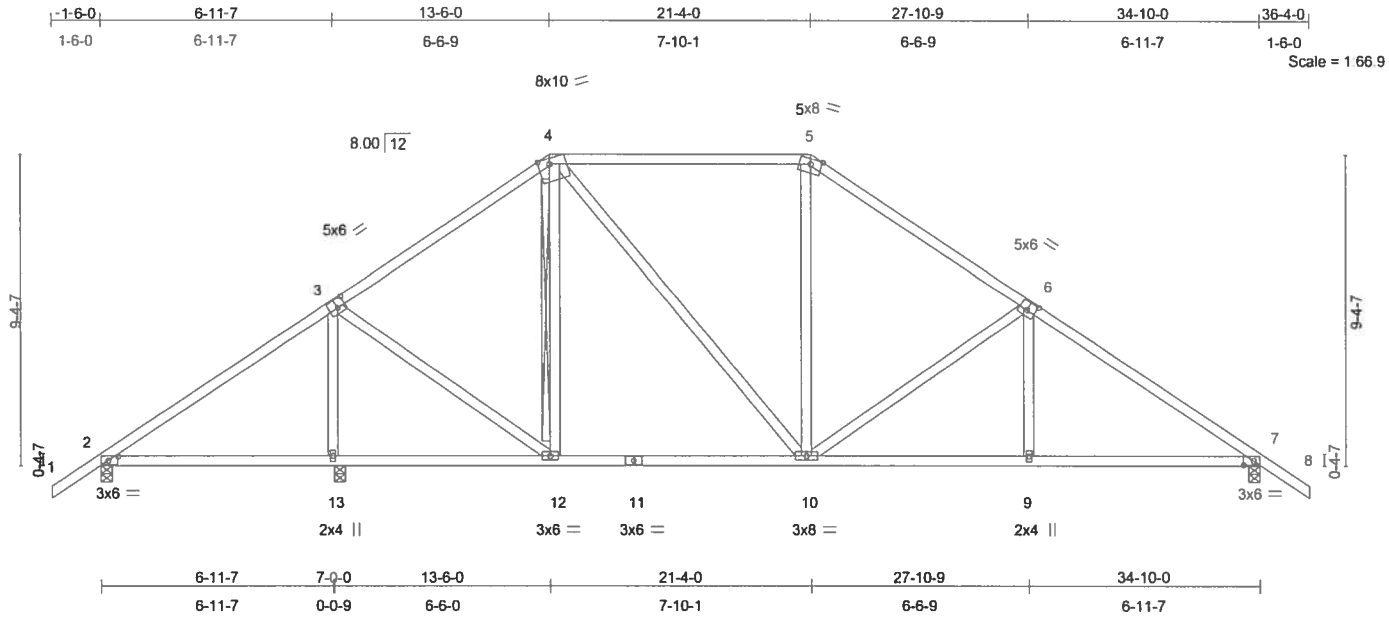


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-3-0,0-3-0], [4:0-4-0,Edge], [6:0-3-0,0-3-0], [7:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	0.15	2-13	>530	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.13	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 197 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 5-2-5 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-12
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=243/0-4-0, 13=1184/0-4-0, 7=961/0-4-0
Max Horz 2=250(load case 5)
Max Uplift 2=-178(load case 6), 13=-326(load case 6), 7=-263(load case 7)
Max Grav 2=278(load case 10), 13=1184(load case 1), 7=961(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-102/174, 3-4=-672/422, 4-5=-674/522, 5-6=-905/529, 6-7=-1296/586, 7-8=0/45
BOT CHORD 2-13=-106/160, 12-13=-109/160, 11-12=-118/475, 10-11=-118/475, 9-10=-306/987, 7-9=-306/986
WEBS 3-13=-1091/542, 3-12=-125/634, 4-12=-303/144, 4-10=-148/359, 5-10=-17/201, 6-10=-382/295, 6-9=0/214

Julius Lee
Truss Design Engineer
Florida PE No. 34927
1124 Emerald Bay Blvd
Daytona Beach, FL 32119

July 26,2007

Continued on page 2

JOINT STRESS INDEX

2 = 0.58, 3 = 0.74, 4 = 0.74, 5 = 0.76, 6 = 0.64, 7 = 0.66, 9 = 0.33, 10 = 0.56, 11 = 0.23, 12 = 0.36 and 13 = 0.39

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 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 2, 326 lb uplift at joint 13 and 263 lb uplift at joint 7.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34863
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869343
L246421	T13	HIP	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:40 2007 Page 1

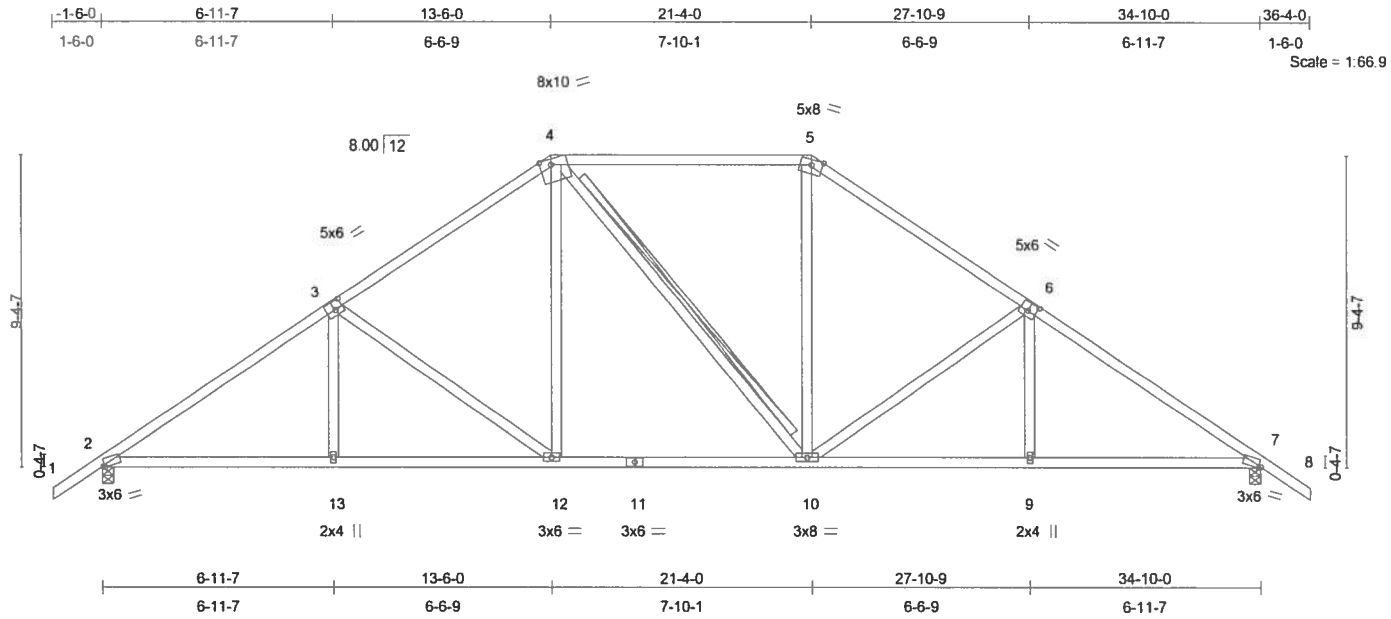


Plate Offsets (X,Y): [2:0-0-12,Edge], [3:0-3-0,0-3-0], [4:0-4-0,Edge], [6:0-3-0,0-3-0], [7:0-0-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.09	10-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.19	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 197 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins, except
2-0-0 oc purlins (5-9-4 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 9-1-10 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-10
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=1194/0-4-0, 7=1194/0-4-0
Max Horz 2=250(load case 5)
Max Uplift 2=-287(load case 6), 7=-287(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1705/772, 3-4=-1316/715, 4-5=-1020/678, 5-6=-1317/715, 6-7=-1705/772, 7-8=0/45
BOT CHORD 2-13=-459/1322, 12-13=-459/1323, 11-12=-222/1020, 10-11=-222/1020, 9-10=-459/1323, 7-9=-460/1322
WEBS 3-13=0/214, 3-12=-374/293, 4-12=-123/367, 4-10=-150/150, 5-10=-123/367, 6-10=-374/293, 6-9=0/213

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

JOINT STRESS INDEX
2 = 0.73, 3 = 0.66, 4 = 0.76, 5 = 0.76, 6 = 0.66, 7 = 0.73, 9 = 0.33, 10 = 0.56, 11 = 0.37, 12 = 0.34 and 13 = 0.33

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869343
L246421	T13	HIP	2	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; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 2 and 287 lb uplift at joint 7.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	ORLEANS/1580 CANOPY PASTURE DR.
L246421	T14	MONO HIP	1	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 26 14:10:15 2007 Page 1

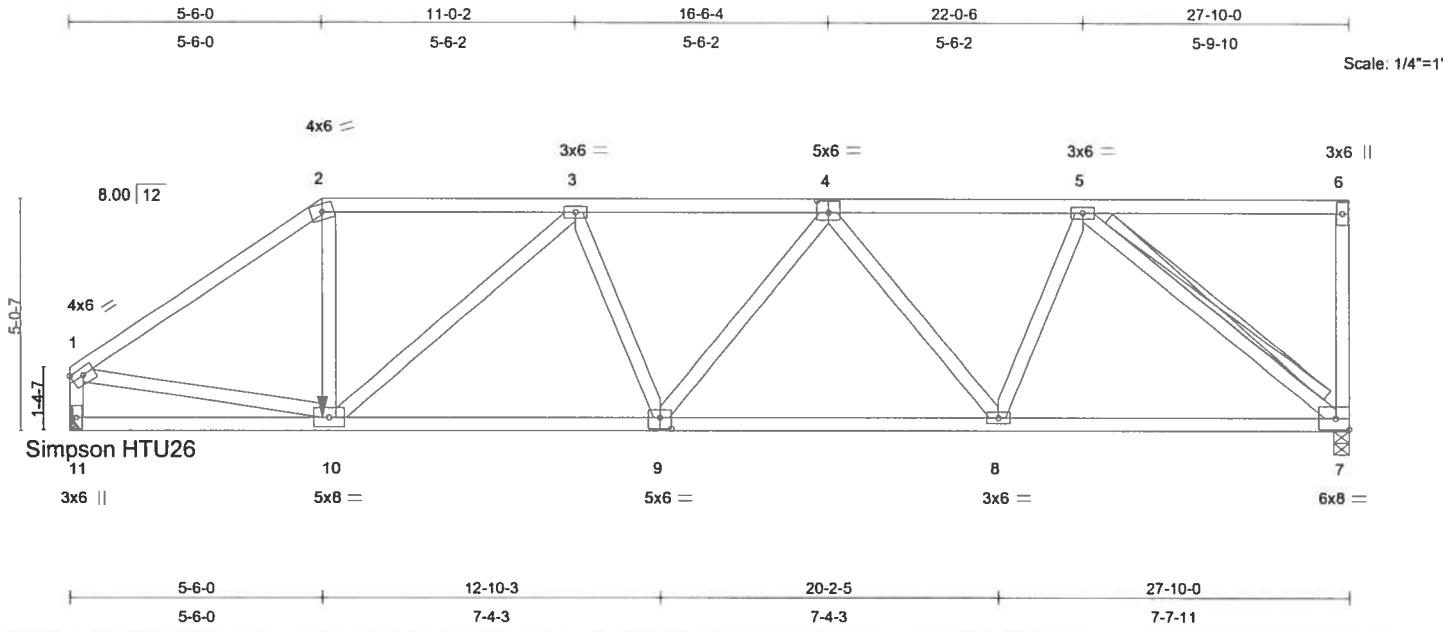


Plate Offsets (X,Y): [1:Edge,0-1-12], [4:0-3-0,0-3-0], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	0.16	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.30	8-9	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.97	Horz(TL)	0.10	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 159 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W1 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-2-15 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-7
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) 7=1977/0-4-0, 11=2182/Mechanical
Max Horz 11=116(load case 5)
Max Uplift 7=-978(load case 3), 11=-907(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2623/1151, 2-3=-2150/1006, 3-4=-2958/1401, 4-5=-2301/1100, 5-6=-64/23, 6-7=-307/212, 1-11=-1922/827
BOT CHORD 10-11=-260/325, 9-10=-1430/2943, 8-9=-1420/2872, 7-8=-981/1953
WEBS 2-10=-432/951, 3-10=-1060/631, 3-9=0/188, 4-9=-14/160, 4-8=-933/524, 5-8=-328/963, 5-7=-2466/1251, 1-10=-931/1833

JOINT STRESS INDEX
1 = 0.76, 2 = 0.82, 3 = 0.48, 4 = 0.69, 5 = 0.86, 6 = 0.56, 7 = 0.43, 8 = 0.86, 9 = 0.83, 10 = 0.86 and 11 = 0.85

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide adequate drainage to prevent water ponding.

Julius Lee
Truss Design Engineer
Florida PE No. 34927
1100 Coastal Bay Blvd
Ocean Beach, FL 32456

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ORLEANS/1580 CANOPY PASTURE DR.
L246421	T14	MONO HIP	1	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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 978 lb uplift at joint 7 and 907 lb uplift at joint 11.
6) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 5-6-0
7) Girder carries hip end with 0-0-0 right side setback, 5-6-0 left side setback, and 7-0-0 end setback.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-6=-117(F=-63), 10-11=-86(F=-76), 7-10=-22(F=-12)
   Concentrated Loads (lb)
   Vert: 10=-323(F)

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T15	MONO HIP	1	1	J1869345
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:42 2007 Page 1

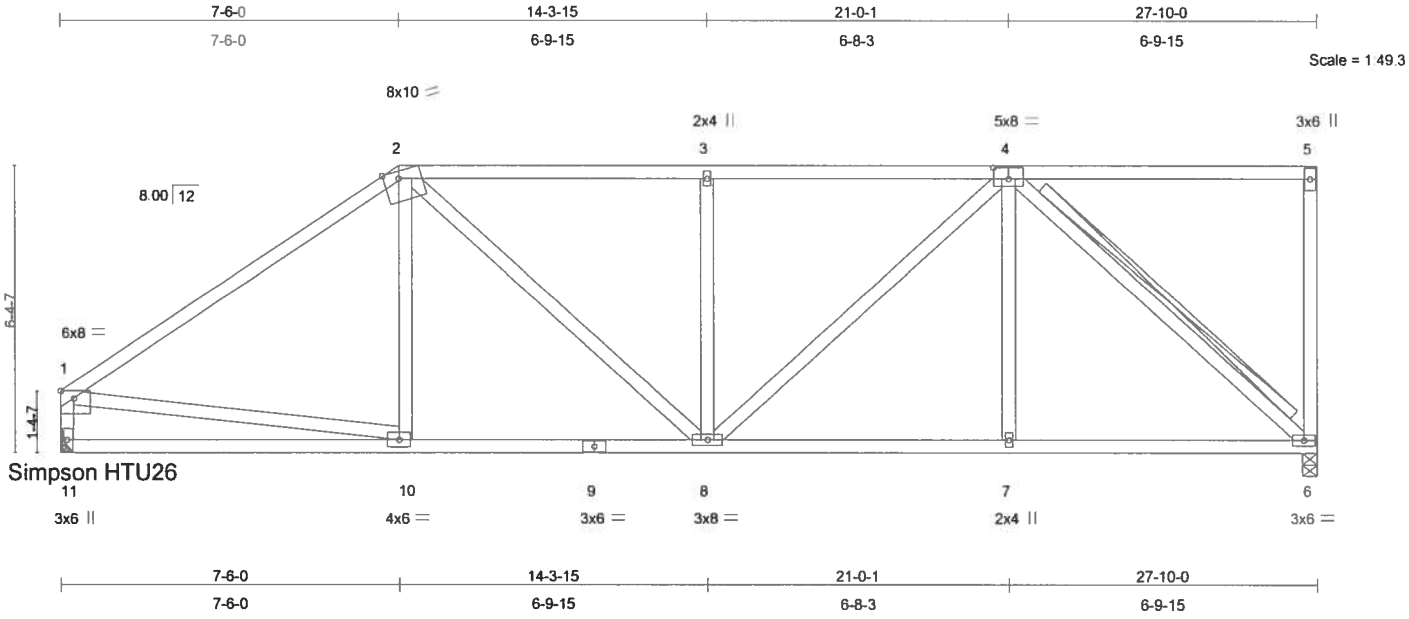


Plate Offsets (X,Y): [1:Edge,0-1-14], [2:0-4-0,Edge], [4:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.77	Vert(LL)	-0.05	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.10	10-11	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 170 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 5-7-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-11 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-6
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 6=881/0-4-0, 11=881/Mechanical
Max Horz 11=158(load case 6)
Max Uplift 6=-283(load case 4), 11=-168(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1107/507, 2-3=-1034/582, 3-4=-1034/582, 4-5=-27/13, 5-6=-163/115, 1-11=-839/420
BOT CHORD 10-11=-400/256, 9-10=-513/829, 8-9=-513/829, 7-8=-425/775, 6-7=-425/775
WEBS 2-10=-22/156, 2-8=-188/274, 3-8=-349/240, 4-8=-212/350, 4-7=0/211, 4-6=-1012/556, 1-10=-246/580

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1326 Coastal Bay Blvd
Ocean Usach, FL 32456

JOINT STRESS INDEX
1 = 0.56, 2 = 0.69, 3 = 0.33, 4 = 0.35, 5 = 0.31, 6 = 0.35, 7 = 0.33, 8 = 0.56, 9 = 0.30, 10 = 0.26 and 11 = 0.42

Continued on page 2

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869345
L246421	T15	MONO HIP	1	1	
					Job Reference (optional)

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; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide adequate drainage to prevent water ponding.
3) *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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 283 lb uplift at joint 6 and 168 lb uplift at joint 11.

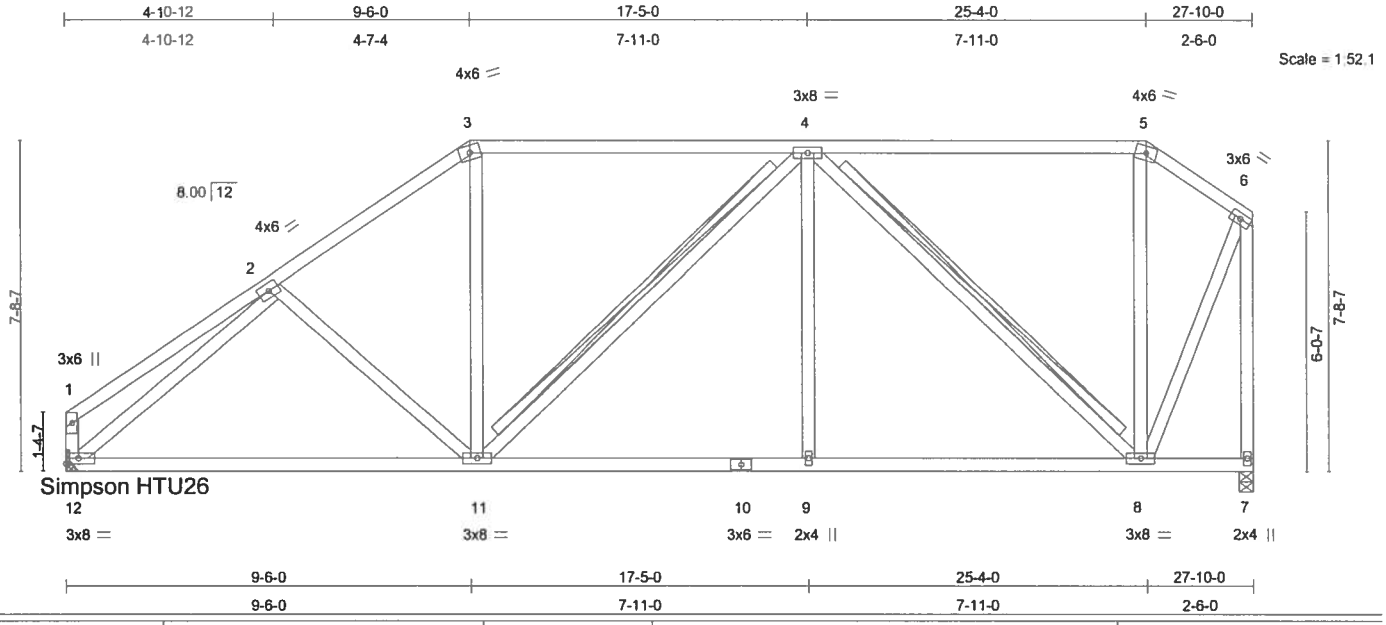
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1102 Grandall Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T16	HIP	1	1	J1869346
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:43 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	0.85	Vert(LL)	-0.13	11-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.38	Vert(TL)	-0.23	11-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.03	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 186 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 5-10-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	T-Brace: 2 X 4 SYP No.3 - 4-11, 4-8

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) 12=881/Mechanical, 7=881/0-4-0
Max Horz 12=168(load case 6)
Max Uplift 12=-204(load case 5), 7=-242(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-305/152, 2-3=-980/523, 3-4=-773/502, 4-5=-300/220, 5-6=-349/195, 1-12=-259/161, 6-7=-881/457
BOT CHORD	11-12=-541/806, 10-11=-438/815, 9-10=-438/815, 8-9=-438/815, 7-8=-4/3
WEBS	2-11=-95/145, 3-11=-45/263, 4-11=-157/141, 4-9=0/230, 4-8=-720/397, 5-8=-163/126, 2-12=-847/391, 6-8=-387/768

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

JOINT STRESS INDEX
1 = 0.36, 2 = 0.27, 3 = 0.68, 4 = 0.56, 5 = 0.63, 6 = 0.59, 7 = 0.33, 8 = 0.89, 9 = 0.33, 10 = 0.26, 11 = 0.56 and 12 = 0.70

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869346
L246421	T16	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; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 12 and 242 lb uplift at joint 7.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1116 Crystal Ray Drive
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T17	SPECIAL	1	1	J1869347 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:44 2007 Page 1

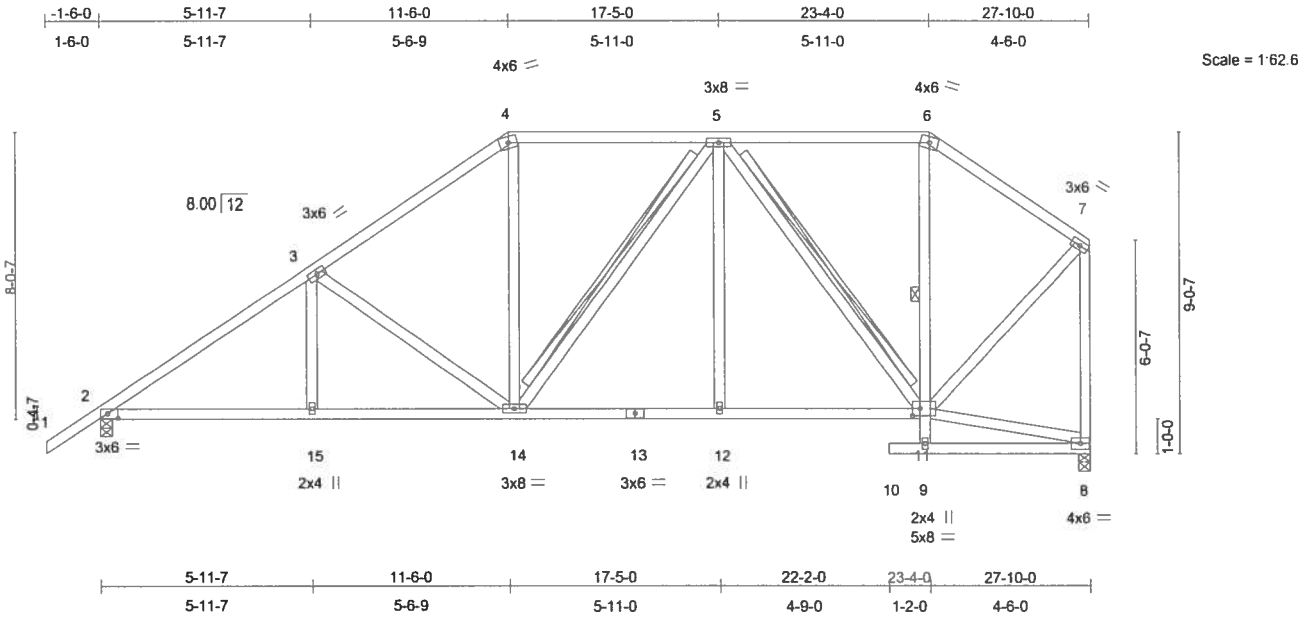


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [11:0-2-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.88	Vert(LL)	0.05	14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.28	Vert(TL)	-0.09	11-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.04	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 194 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 5-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.
WEBS 1 Row at midpt 6-9
T-Brace: 2 X 4 SYP No.3 - 5-14, 5-11
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=975/0-4-0, 8=885/0-4-0
Max Horz 2=237(load case 6)
Max Uplift 2=-238(load case 6), 8=-163(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1342/576, 3-4=-1014/535, 4-5=-778/515, 5-6=-455/336, 6-7=-599/329, 7-8=-859/451
BOT CHORD 2-15=-585/1033, 14-15=-585/1033, 13-14=-365/757, 12-13=-365/757, 11-12=-365/757, 9-10=0/0, 8-9=0/17
WEBS 3-15=0/185, 3-14=-318/243, 4-14=-77/280, 5-14=-93/131, 5-12=0/193, 5-11=-541/265, 9-11=0/95, 6-11=-24/135, 7-11=-292/639, 8-11=-8/4

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Emerald Bay Rich
Daytona Beach, FL 32119

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869347
L246421	T17	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.67, 3 = 0.41, 4 = 0.55, 5 = 0.56, 6 = 0.49, 7 = 0.51, 8 = 0.28, 9 = 0.33, 11 = 0.32, 12 = 0.33, 13 = 0.27, 14 = 0.56 and 15 = 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 2 and 163 lb uplift at joint 8.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No 34869
1105 Coastal Bay Blvd
Ocean Beach, FL 32068

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T18	SPECIAL	3	1	J1869348 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:44 2007 Page 1

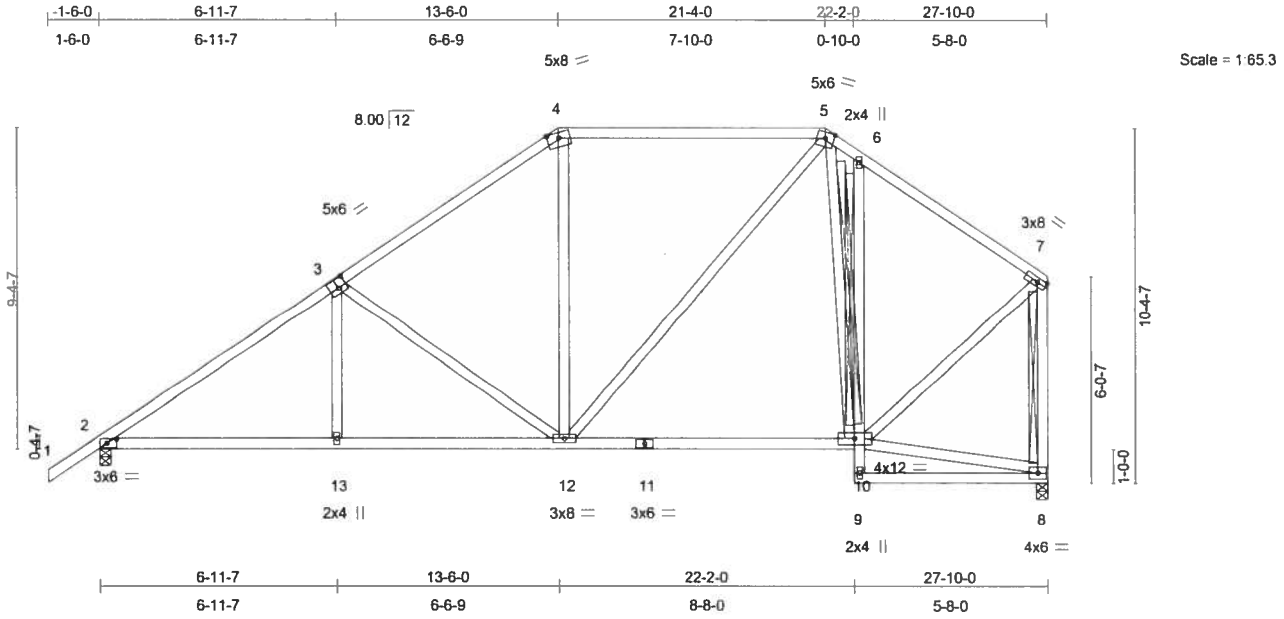


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [3:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.51	Vert(TL)	-0.19	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.04	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 193 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 6-9 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
T-Brace: 2 X 4 SYP No.3 - 6-10
WEBS T-Brace: 2 X 4 SYP No.3 - 5-10, 7-8
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=973/0-4-0, 8=878/0-4-0
Max Horz 2=264(load case 5)
Max Uplift 2=-282(load case 6), 8=-200(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1317/562, 3-4=-927/502, 4-5=-693/500, 5-6=-502/414, 6-7=-644/349, 7-8=-857/445
BOT CHORD 2-13=-559/1003, 12-13=-559/1004, 11-12=-212/501, 10-11=-212/501, 9-10=0/83, 6-10=-215/155, 8-9=-83/1
WEBS 3-13=0/207, 3-12=-381/297, 4-12=-1/219, 5-12=-160/335, 5-10=-418/197, 7-10=-257/608, 8-10=-17/98

Julius Lee
Truss Design Engineer
Florida PE No. 34985
1100 Coastal Way Ron
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

JOINT STRESS INDEX

2 = 0.67, 3 = 0.63, 4 = 0.71, 5 = 0.63, 6 = 0.35, 7 = 0.67, 8 = 0.27, 9 = 0.77, 10 = 0.49, 11 = 0.24, 12 = 0.56 and 13 = 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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 2 and 200 lb uplift at joint 8.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T18A	HIP	1	1	J1869349
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:45 2007 Page 1

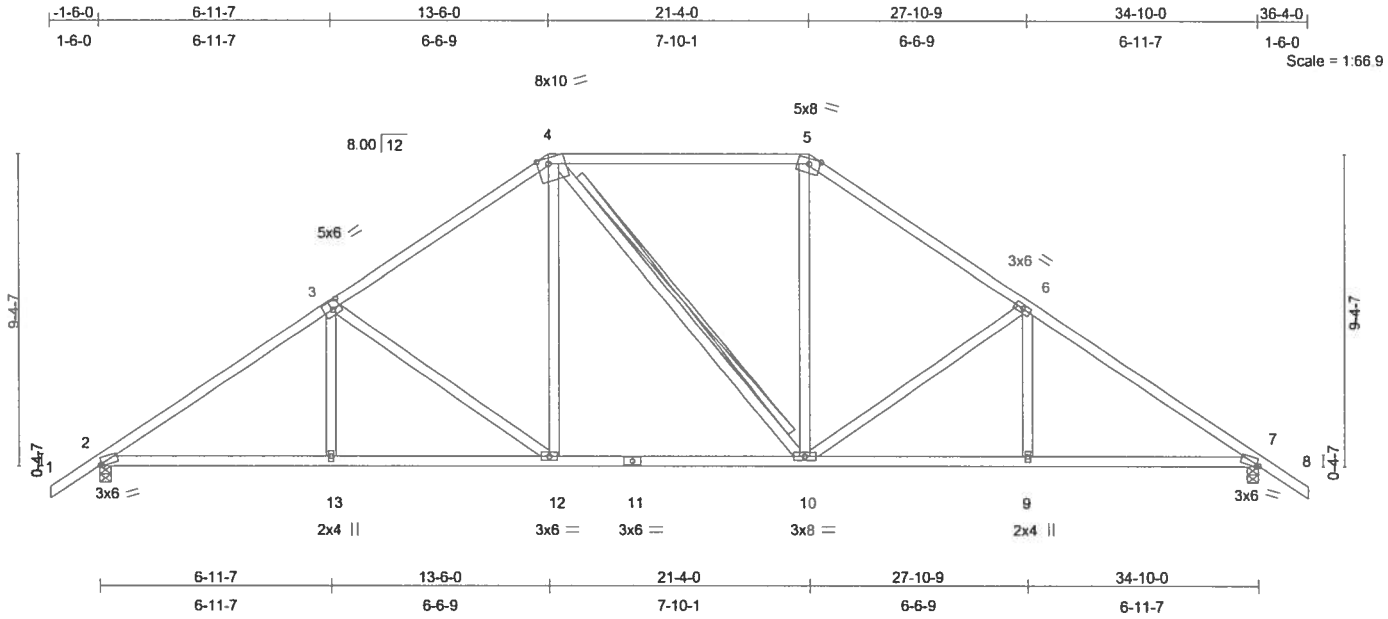


Plate Offsets (X,Y): [2:0-0-12,Edge], [3:0-3-0,0-3-0], [4:0-4-0,Edge], [7:0-0-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.09	10-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.36	Vert(TL)	-0.19	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.07	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 197 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-14 oc purlins, except
2-0-0 oc purlins (5-9-3 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 9-1-10 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-10
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=1194/0-4-0, 7=1194/0-4-0
Max Horz 2=250(load case 5)
Max Uplift 2=-287(load case 6), 7=-287(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1705/772, 3-4=-1316/715, 4-5=-1020/678, 5-6=-1316/715, 6-7=-1704/772, 7-8=0/45
BOT CHORD 2-13=-459/1322, 12-13=-459/1323, 11-12=-222/1020, 10-11=-222/1020, 9-10=-459/1321, 7-9=-459/1321
WEBS 3-13=0/214, 3-12=-374/293, 4-12=-123/367, 4-10=-150/150, 5-10=-124/367, 6-10=-373/293, 6-9=0/213

Julius Lee
Truss Design Engineer
Florida PE No. 31935
1106 Emerald Bay Drive
Vero Beach, FL 32963

JOINT STRESS INDEX
2 = 0.73, 3 = 0.66, 4 = 0.76, 5 = 0.76, 6 = 0.41, 7 = 0.73, 9 = 0.33, 10 = 0.56, 11 = 0.37, 12 = 0.34 and 13 = 0.33

Continued on page 2

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869349
L246421	T18A	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; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 2 and 287 lb uplift at joint 7.
7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

LOAD CASE(S) Standard

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	ORLEANS/1580 CANOPY PASTURE DR.
L246421	T19	COMMON	8	1	J1869350
					Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 26 14:13:35 2007 Page 1

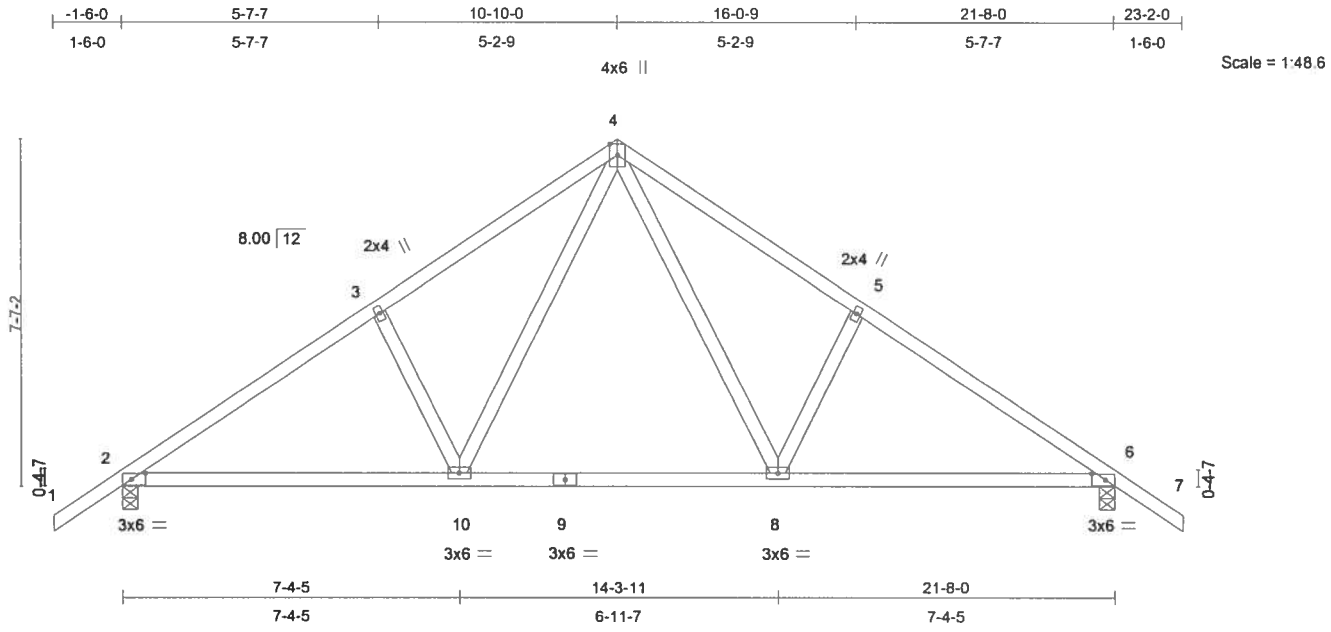


Plate Offsets (X,Y): [2:0-3-9,0-1-8], [6:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.12	8-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.23	8-10	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.30	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 112 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 5-6-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=912/0-4-0, 6=912/0-4-0
Max Horz 2=200(load case 5)
Max Uplift 2=-255(load case 6), 6=-255(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1250/547, 3-4=-1116/606, 4-5=-1116/606, 5-6=-1250/547, 6-7=0/45
BOT CHORD 2-10=-291/958, 9-10=-80/657, 8-9=-80/657, 6-8=-291/958
WEBS 3-10=-234/229, 4-10=-261/494, 4-8=-261/494, 5-8=-234/229

JOINT STRESS INDEX
2 = 0.65, 3 = 0.34, 4 = 0.54, 5 = 0.34, 6 = 0.65, 8 = 0.46, 9 = 0.48 and 10 = 0.46

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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 2 and 255 lb uplift at joint 6.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Julius Lee
Truss Design Engineer
Florida PE# No. 70668
1106 Emerald Bay Rd
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ORLEANS/1580 CANOPY PASTURE DR.
L246421	T19	COMMON	8	1	J1869350
					Job Reference (optional)

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 2-10=-10, 8-10=-50(F=-40), 6-8=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Ocean Beach, FL 32456

July 26,2007

Job	Truss	Truss Type	Qty	Ply	ORLEANS/1580 CANOPY PASTURE DR. J1869351
L246421	T19A	COMMON	4	1	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 26 14:14:34 2007 Page 1

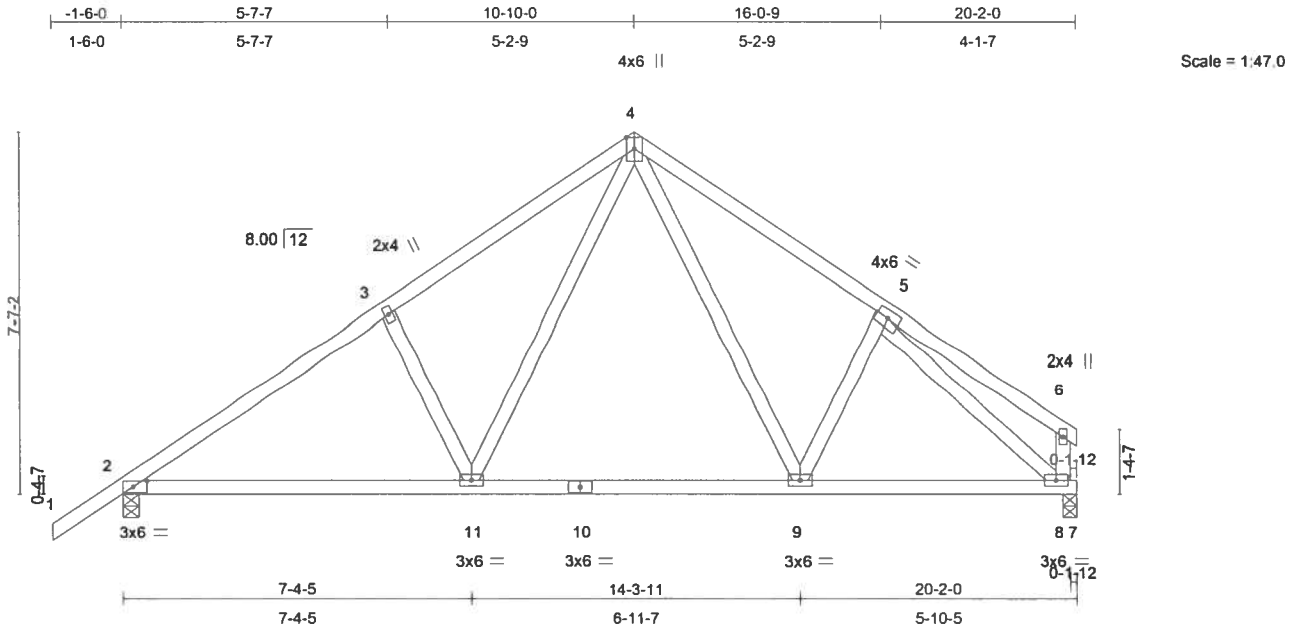


Plate Offsets (X,Y): [2:0-3-9,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.24	Vert(LL)	0.11	9-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.21	9-11	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.44	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 113 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 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=852/0-4-0, 8=777/0-3-8
Max Horz 2=218(load case 5)
Max Uplift 2=-243(load case 6), 8=-167(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-1146/503, 3-4=-1012/561, 4-5=-901/516, 5-6=-109/88, 6-8=-126/100
BOT CHORD 2-11=-372/873, 10-11=-161/571, 9-10=-161/571, 8-9=-296/698, 7-8=0/0
WEBS 3-11=-235/228, 4-11=-258/495, 4-9=-175/317, 5-9=-65/136, 5-8=-919/392

JOINT STRESS INDEX
2 = 0.59, 3 = 0.34, 4 = 0.56, 5 = 0.30, 6 = 0.61, 8 = 0.36, 9 = 0.46, 10 = 0.46 and 11 = 0.46

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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2 and 167 lb uplift at joint 8.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34863
1102 Crandall Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	ORLEANS/1580 CANOPY PASTURE DR. J1869351
L246421	T19A	COMMON	4	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-6=-54, 2-11=-10, 9-11=-50(F=-40), 8-9=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1105 Coastal Bay Blvd
Ocean Isle, NC 28469

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T19G	GABLE	1	1	J1869352
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:48 2007 Page 1

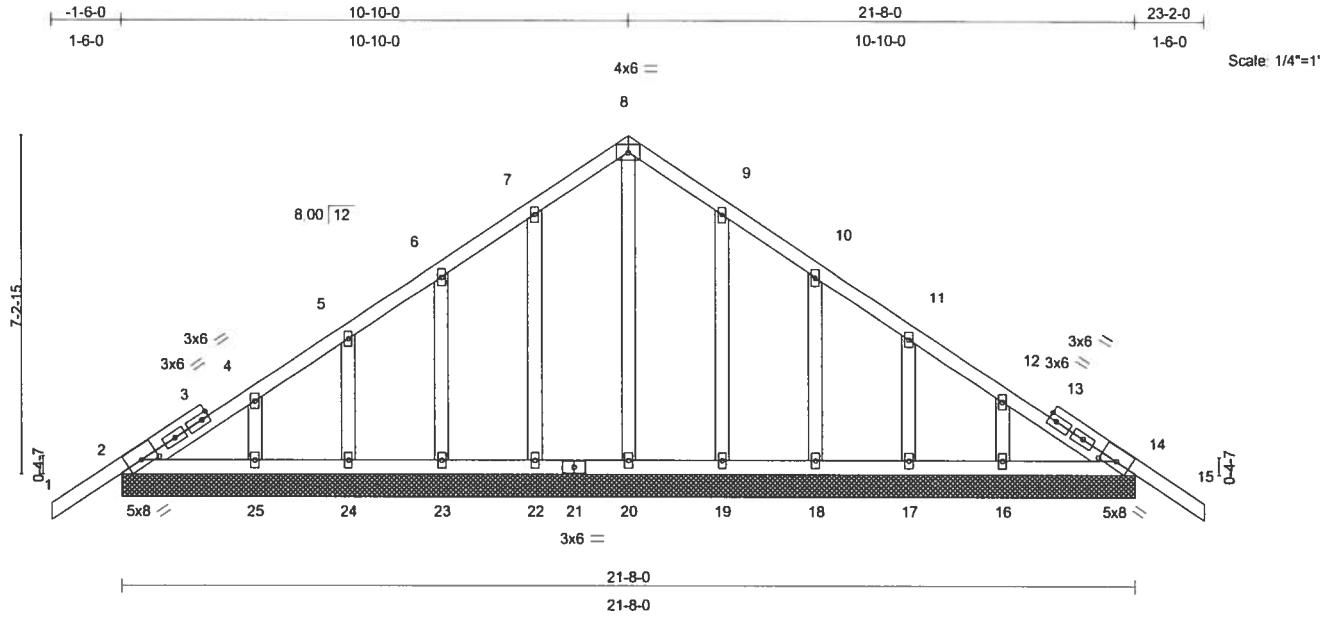


Plate Offsets (X,Y): [2:0-4-5,0-1-12], [14:0-4-5,0-1-12]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.02	15	n/r	90		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.12	Horz(TL)	0.01	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 131 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 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) 2=301/21-8-0, 14=301/21-8-0, 20=166/21-8-0, 22=193/21-8-0, 23=195/21-8-0, 24=189/21-8-0, 25=219/21-8-0, 19=193/21-8-0, 18=195/21-8-0, 17=189/21-8-0, 16=219/21-8-0
Max Horz 2=245(load case 5)
Max Uplift 2=-143(load case 6), 14=-166(load case 7), 22=-128(load case 6), 23=-139(load case 6), 24=-145(load case 6), 25=-106(load case 6), 19=-125(load case 7), 18=-140(load case 7), 17=-144(load case 7), 16=-112(load case 7)
Max Grav 2=301(load case 1), 14=301(load case 1), 20=166(load case 1), 22=197(load case 10), 23=195(load case 1), 24=190(load case 10), 25=219(load case 1), 19=197(load case 11), 18=195(load case 1), 17=190(load case 11), 16=219(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-6/70, 2-3=-186/149, 3-4=-186/150, 4-5=-144/144, 5-6=-93/138, 6-7=-74/172, 7-8=-74/214, 8-9=-74/211, 9-10=-74/150, 10-11=-74/77, 11-12=-76/51, 12-13=-98/62, 13-14=-97/61, 14-15=-6/70
BOT CHORD 2-25=-35/179, 24-25=-35/179, 23-24=-35/179, 22-23=-35/179, 21-22=-35/179, 20-21=-35/179, 19-20=-35/179, 18-19=-35/179, 17-18=-35/179, 16-17=-35/179, 14-16=-35/179
WEBS 8-20=-146/8, 7-22=-178/140, 6-23=-175/152, 5-24=-171/153, 4-25=-196/130,

Continued on page 2

Julius Lee
Truce Design Engineer
Florida PE No. 31861
1192 Coastal Bay Blvd
Ocean Isle, NC 28469

July 26,2007

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869352
L246421	T19G	GABLE	1	1	
					Job Reference (optional)

JOINT STRESS INDEX

2 = 0.40, 3 = 0.00, 3 = 0.21, 3 = 0.21, 4 = 0.33, 5 = 0.33, 6 = 0.33, 7 = 0.33, 8 = 0.27, 9 = 0.33, 10 = 0.33, 11 = 0.33, 12 = 0.33 , 13 = 0.00, 13 = 0.21, 13 = 0.21, 14 = 0.40, 16 = 0.33, 17 = 0.33, 18 = 0.33, 19 = 0.33, 20 = 0.33, 21 = 0.15, 22 = 0.33, 23 = 0.33, 24 = 0.33 and 25 = 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 gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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 143 lb uplift at joint 2, 166 lb uplift at joint 14, 128 lb uplift at joint 22, 139 lb uplift at joint 23, 145 lb uplift at joint 24, 106 lb uplift at joint 25, 125 lb uplift at joint 19, 140 lb uplift at joint 18, 144 lb uplift at joint 17 and 112 lb uplift at joint 16.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-8=-87, 8-15=-87, 2-14=-10

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T20	HIP	1	1	J1869353
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:49 2007 Page 1

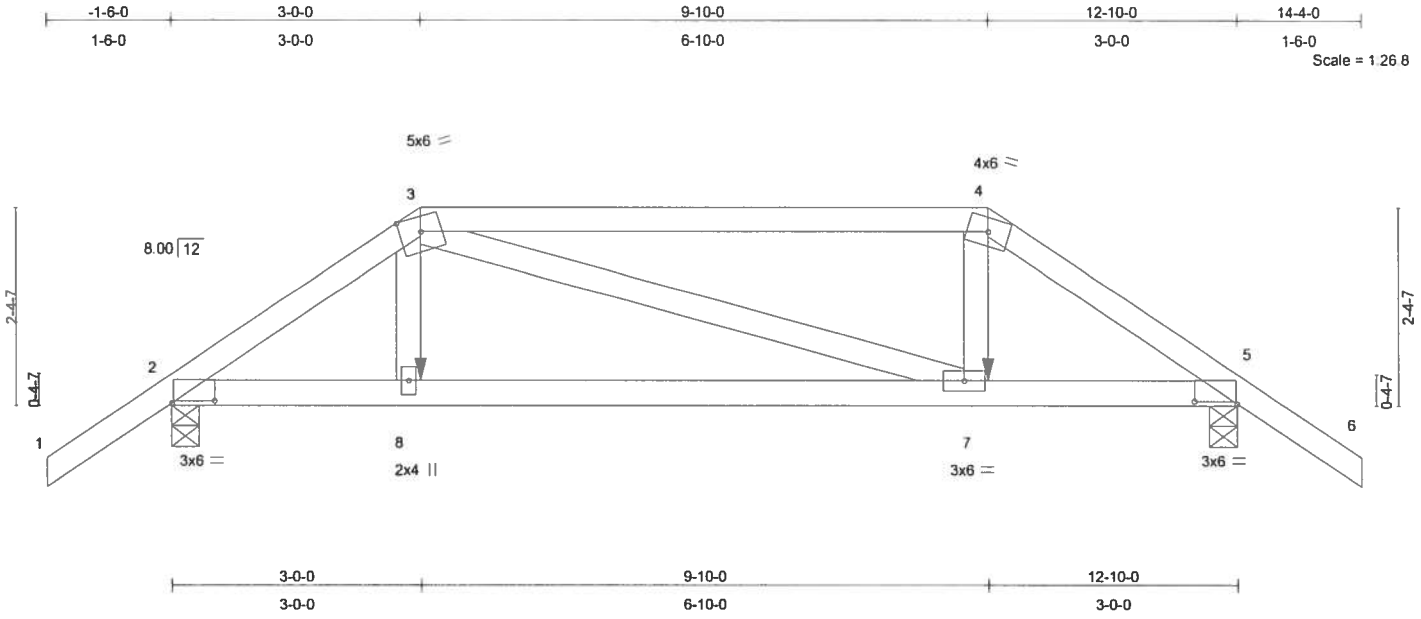


Plate Offsets (X,Y): [2:0-6-3,0-0-6], [5:0-6-3,0-0-6]

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)	-0.04	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.28	Vert(TL)	-0.10	7-8	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 61 lb	

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

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

REACTIONS (lb/size) 2=576/0-4-0, 5=573/0-4-0
Max Horz 2=-59(load case 6)
Max Uplift 2=-194(load case 5), 5=-192(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-761/250, 3-4=-611/245, 4-5=-757/253, 5-6=0/45
BOT CHORD 2-8=-228/609, 7-8=-230/603, 5-7=-177/605
WEBS 3-8=0/200, 3-7=-54/57, 4-7=0/196

JOINT STRESS INDEX
2 = 0.66, 3 = 0.47, 4 = 0.59, 5 = 0.64, 7 = 0.12 and 8 = 0.14

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; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee
Truss Design Engineer
Florida PE No. 34985
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T20	HIP	1	1	J1869353 Job Reference (optional)

NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 2 and 192 lb uplift at joint 5.
7) Girder carries hip end with 3-0-0 end setback.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-63(F=-9), 4-6=-54, 2-8=-10, 7-8=-12(F=-2), 5-7=-10
   Concentrated Loads (lb)
   Vert: 8=-48(F) 7=-48(F)

Julius Lee
Truss Design Engineer
Florida PE No. 34160
1105 Crystal Bay Drive
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	ORLEANS/1580 CANOPY PASTURE DR. J1869354
L246421	T21	HIP	1	2	Job Reference (optional)

Builders First Source, Jacksonville ,Florida 32244 6.300 s Apr 19 2006 MiTek Industries, Inc. Thu Jul 26 14:15:45 2007 Page 1

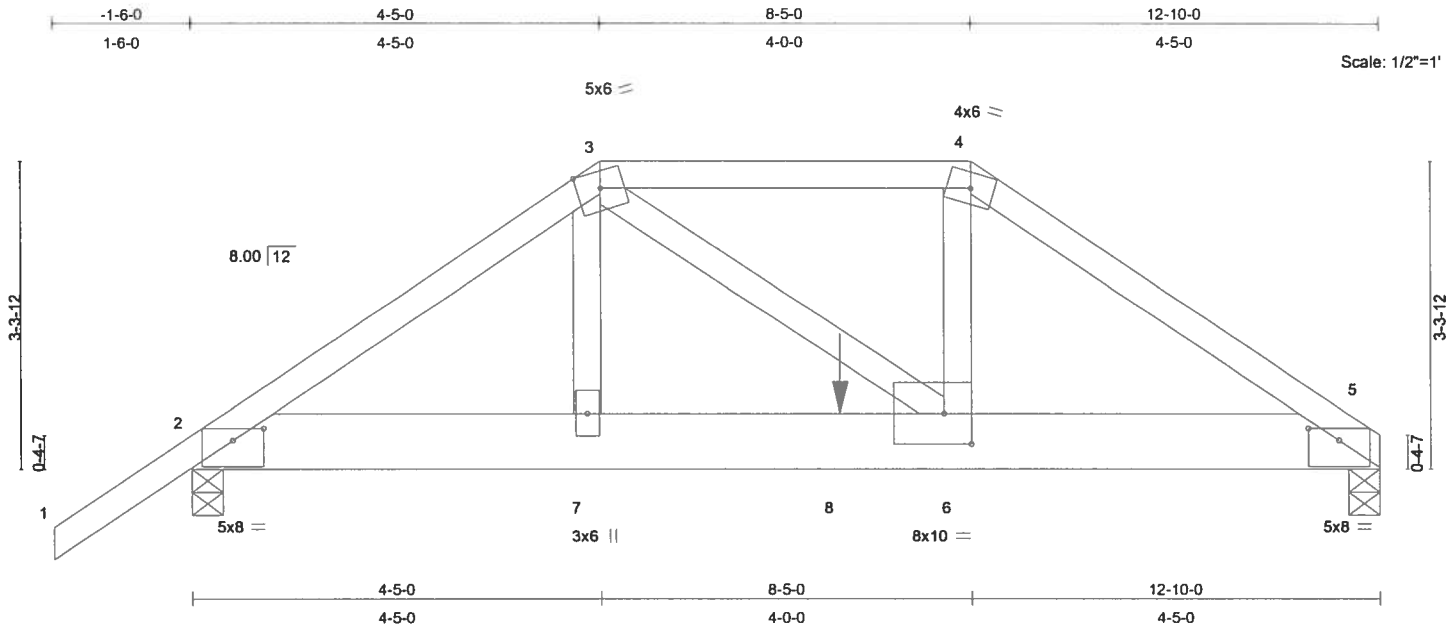


Plate Offsets (X,Y): [2:0-4-0,0-1-9], [4:0-0-0,0-0-0], [5:0-4-0,0-1-9], [6:0-3-8,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.12	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.22	Vert(TL)	-0.06	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.32	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 156 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 5=3065/0-4-0, 2=1801/0-4-0
Max Horz 2=100(load case 4)
Max Uplift 5=-1042(load case 3), 2=-564(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-3=-2996/989, 3-4=-3394/1198, 4-5=-4024/1365
BOT CHORD 2-7=-855/2433, 7-8=-844/2398, 6-8=-844/2398, 5-6=-1113/3293
WEBS 3-7=-212/679, 3-6=-516/1292, 4-6=-707/2002

JOINT STRESS INDEX
2 = 0.40, 3 = 0.39, 4 = 0.55, 5 = 0.52, 6 = 0.21 and 7 = 0.11

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 8 - 2 rows at 0-7-0 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; Lumber DOL=1.60 plate grip DOL=1.60.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Ponte Vedra, FL 32082

July 26,2007

Continued on page 2

NOTES

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 bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1042 lb uplift at joint 5 and 564 lb uplift at joint 2.
9) Girder carries tie-in span(s): 27-10-0 from 8-0-0 to 12-10-0

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-54, 4-5=-54, 2-6=-10, 5-6=-418(F=-408)
   Concentrated Loads (lb)
   Vert: 8=-2182(F)

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T22	COMMON	2	1	J1869355 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:50 2007 Page 1

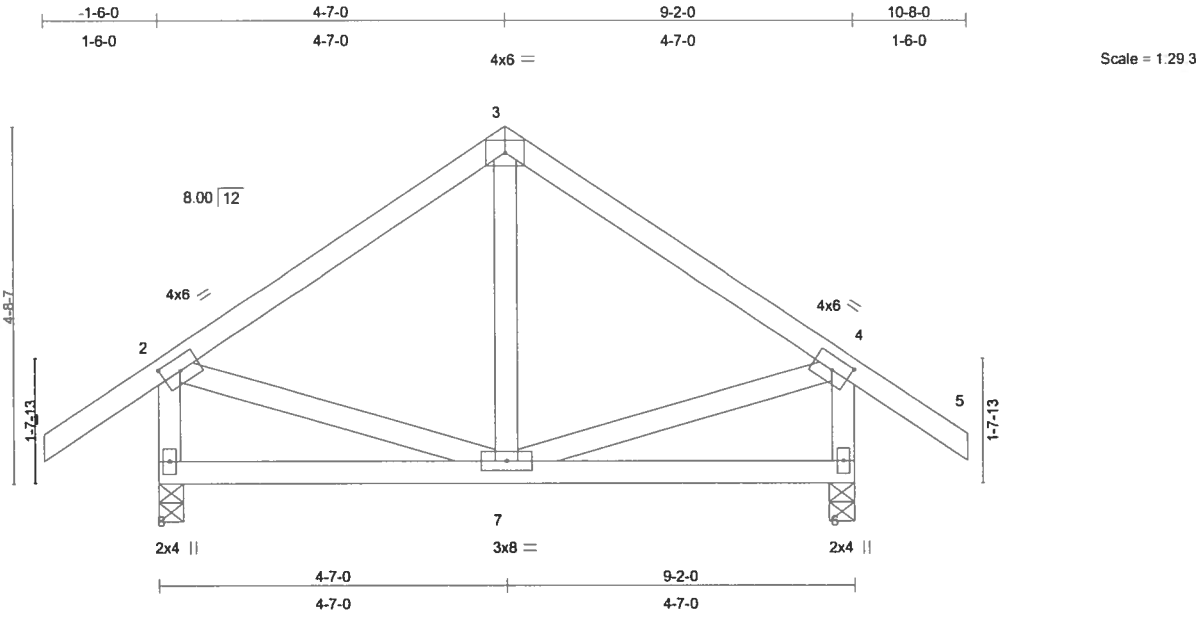


Plate Offsets (X,Y): [2:0-2-14,0-2-0], [4:0-2-14,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.02	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.11	Vert(TL)	-0.01	7-8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 58 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 8=373/0-4-0, 6=373/0-4-0
Max Horz 8=138(load case 5)
Max Uplift 8=-236(load case 6), 6=-236(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-247/356, 3-4=-247/356, 4-5=0/49, 2-8=-350/408, 4-6=-350/408
BOT CHORD 7-8=-163/138, 6-7=-28/32
WEBS 3-7=-219/90, 2-7=-111/133, 4-7=-115/134

JOINT STRESS INDEX
2 = 0.45, 3 = 0.31, 4 = 0.45, 6 = 0.67, 7 = 0.12 and 8 = 0.67

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; end vertical left and right exposed; 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) *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

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1326 Coastal Bay Blvd
Boynton Beach, FL 33435

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869355
L246421	T22	COMMON	2	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 8 and 236 lb uplift at joint 6.

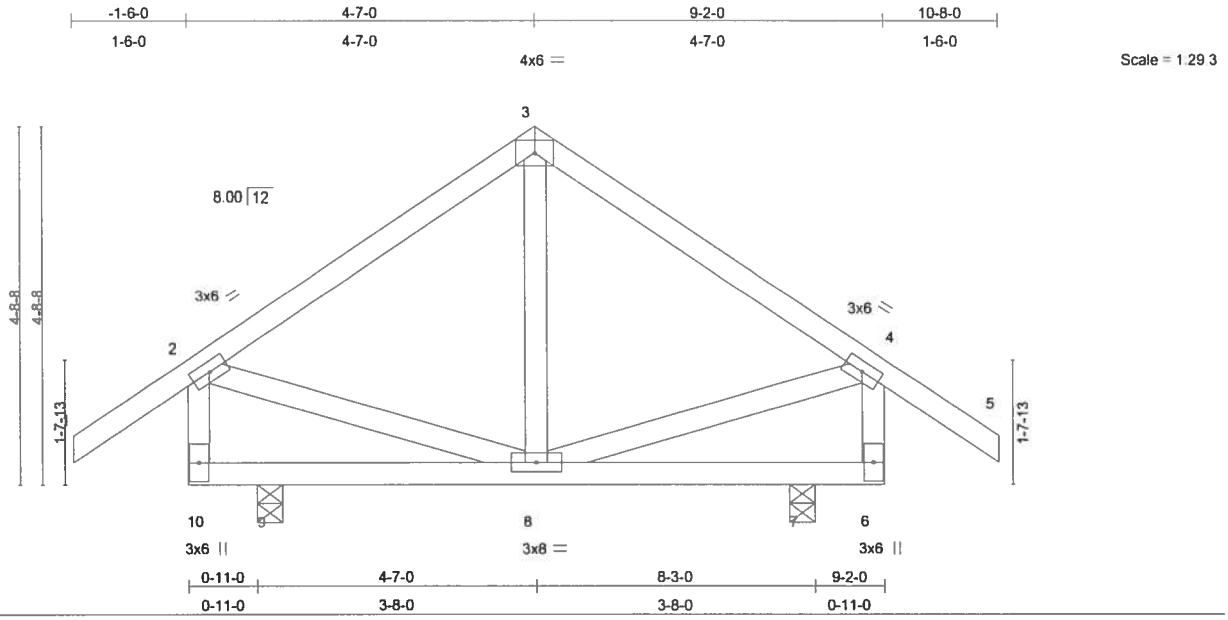
LOAD CASE(S) Standard

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

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T22A	COMMON	1	1	J1869356 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:51 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	0.46	Vert(LL)	0.02	8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.28	Vert(TL)	-0.02	8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 58 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 9=373/0-4-0, 7=373/0-4-0
Max Horz 9=-138(load case 4)
Max Uplift 9=-247(load case 6), 7=-247(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/49, 2-3=-125/186, 3-4=-125/186, 4-5=0/49, 2-10=-284/316, 4-6=-284/316
BOT CHORD 9-10=-94/159, 8-9=-125/185, 7-8=-94/159, 6-7=-94/159
WEBS 3-8=-183/5, 2-8=-123/153, 4-8=-126/153

JOINT STRESS INDEX
2 = 0.67, 3 = 0.42, 4 = 0.67, 6 = 0.43, 8 = 0.14 and 10 = 0.43

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; cantilever left and right exposed ; end vertical left and right exposed; 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) *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

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1156 Cassia Bay Alcn
Boynton Beach, FL 33435

July 26,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
					J1869356
L246421	T22A	COMMON	1	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 9 and 247 lb uplift at joint 7.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34985
1106 Orchid Ray Run
Bonifay, FL 32425

July 26,2007

Job	Truss	Truss Type	Qty	Ply	PRUDENTIAL BUILDERS
L246421	T22G	GABLE	1	1	J1869357 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Wed Jul 25 12:55:52 2007 Page 1

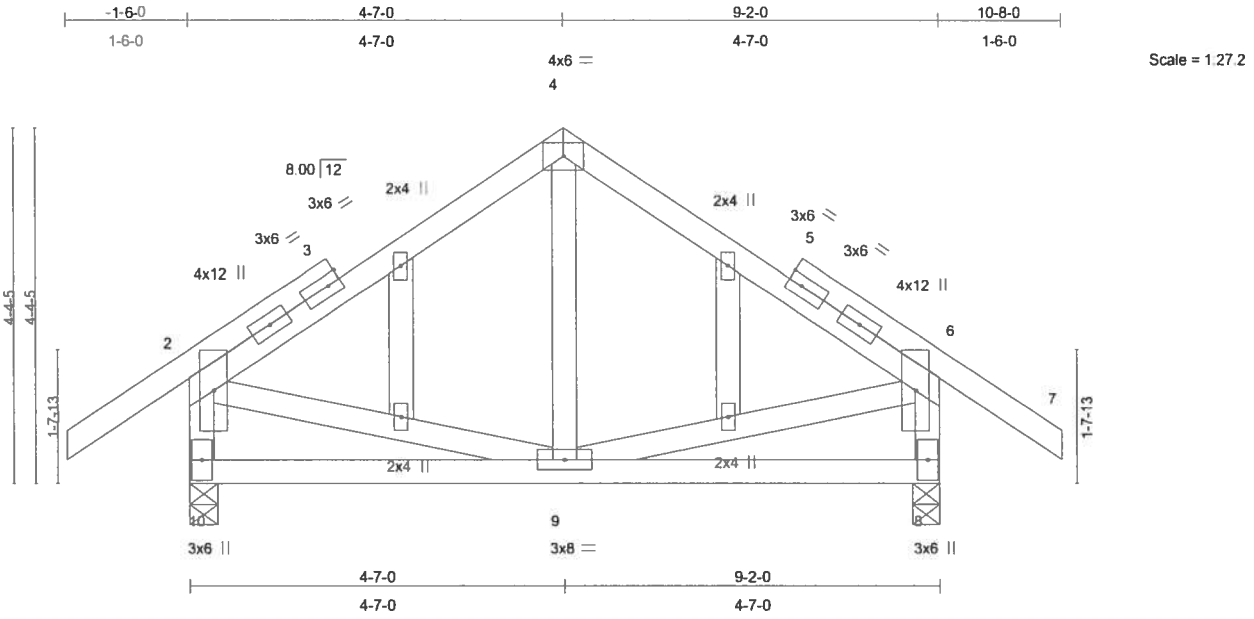


Plate Offsets (X,Y): [13:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	0.02	9-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.01	9-10	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.07	Horz(TL)	-0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 69 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 10=574/0-4-0, 8=574/0-4-0
Max Horz 10=-165(load case 4)
Max Uplift 10=-498(load case 6), 8=-498(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-32/69, 2-3=-388/540, 3-4=-290/497, 4-5=-291/497, 5-6=-388/540, 6-7=-32/69, 2-10=-545/693, 6-8=-545/693
BOT CHORD 9-10=-236/136, 8-9=-106/89
WEBS 4-9=-180/75, 2-9=-165/168, 6-9=-179/168

JOINT STRESS INDEX
2 = 0.96, 3 = 0.00, 3 = 0.40, 3 = 0.40, 4 = 0.56, 5 = 0.00, 5 = 0.40, 5 = 0.40, 6 = 0.96, 8 = 0.40, 9 = 0.15, 10 = 0.40, 11 = 0.00, 12 = 0.00, 13 = 0.00 and 14 = 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 gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; 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.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1105 Emerald Bay Drive
Hoover Beach, FL 33448

July 26,2007

Continued on page 2

NOTES

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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Gable studs spaced at 2-0-0 oc.
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 498 lb uplift at joint 10 and 498 lb uplift at joint 8.
8) Gable truss supports 18" max. rake gable overhang.

LOAD CASE(S) Standard

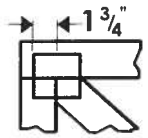
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-87, 2-4=-87, 4-6=-87, 6-7=-87, 8-10=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34869
106 Colonial Bay Blvd
Royal Palm Beach, FL 33411

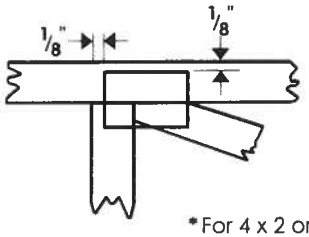
July 26,2007

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

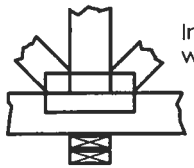
4 x 4

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

LATERAL BRACING

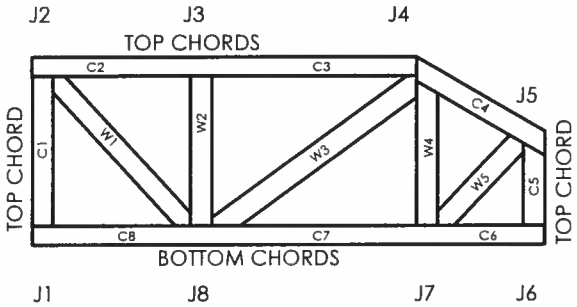
Indicates location of required continuous lateral bracing.

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 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"	5' 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"	6' 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' 8"	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"	6' 2"	9' 6"	9' 11"	12' 6"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	6' 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' 6"	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' 6"	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' 6"	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' 5"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 1"	7' 1"	8' 9"	9' 2"	10' 6"	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

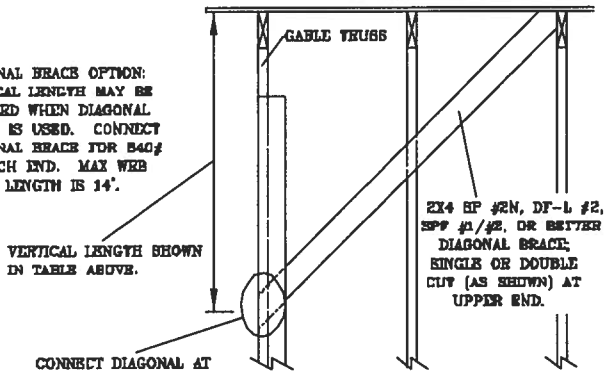
GROUP B:

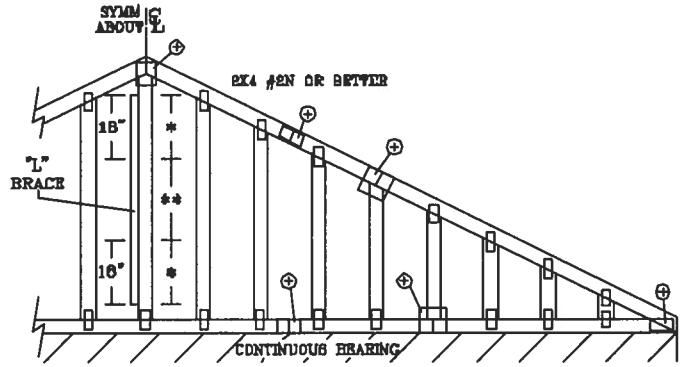
HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 540# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER CONTINUOUS BEARING (5 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.
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 16 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' 6"	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"	6' 0"	6' 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' 8"
		STUD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 8"
		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' 8"	7' 8"	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' 6"	5' 6"	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"	9' 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"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"
		STUD	3' 9"	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"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"
		STUD	3' 11"	6' 3"	6' 5"	8' 3"	8' 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' 6"	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"

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

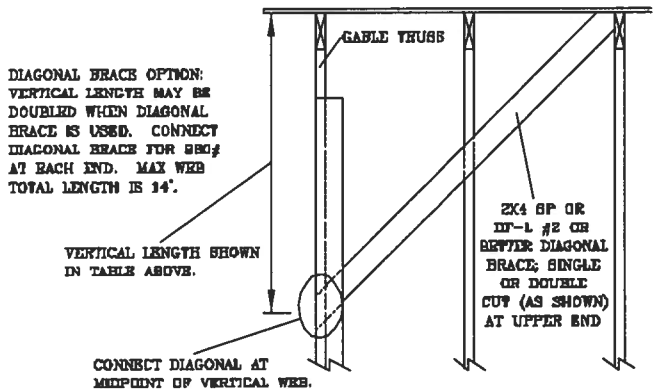
SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

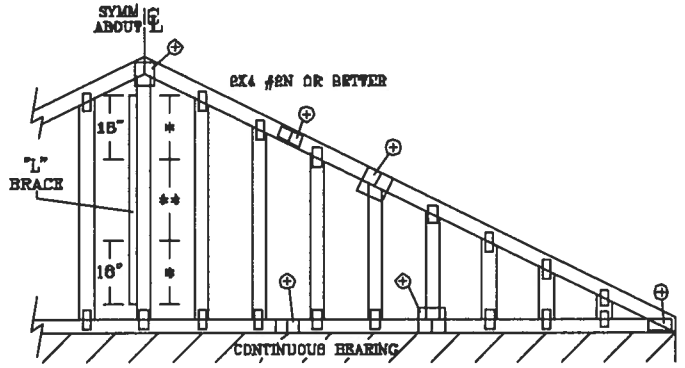
HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2



DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR SBO# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (5 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 16" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 16" 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

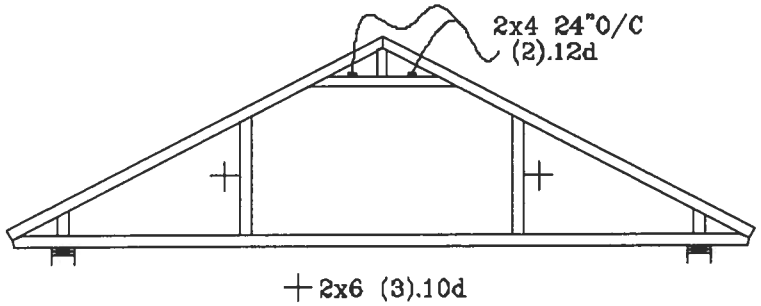
No: 34669
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

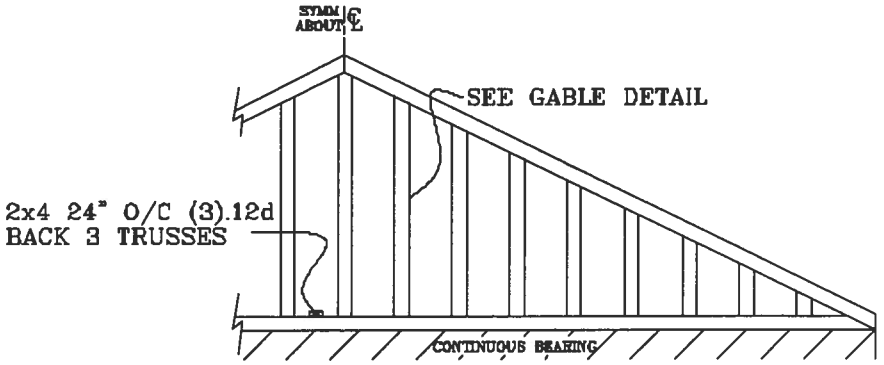
MAX. SPACING 24.0"

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

TYPICAL ATTIC TRUSS BRACING

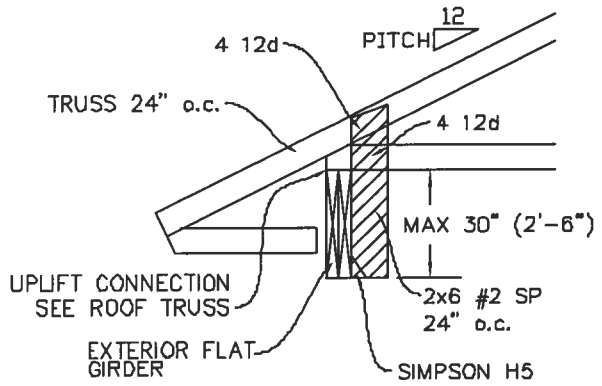


GABLE END TRUSS DETAIL

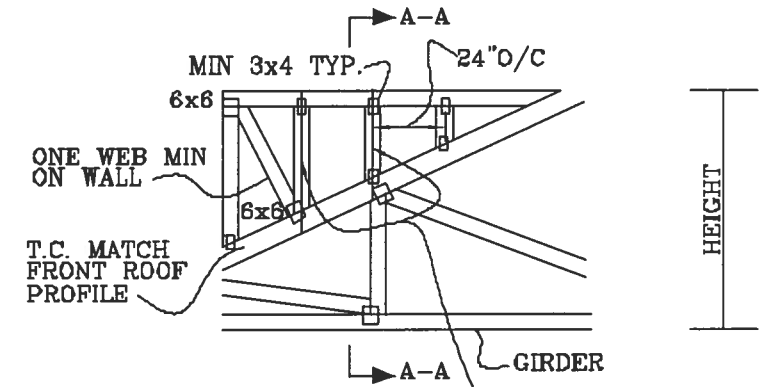


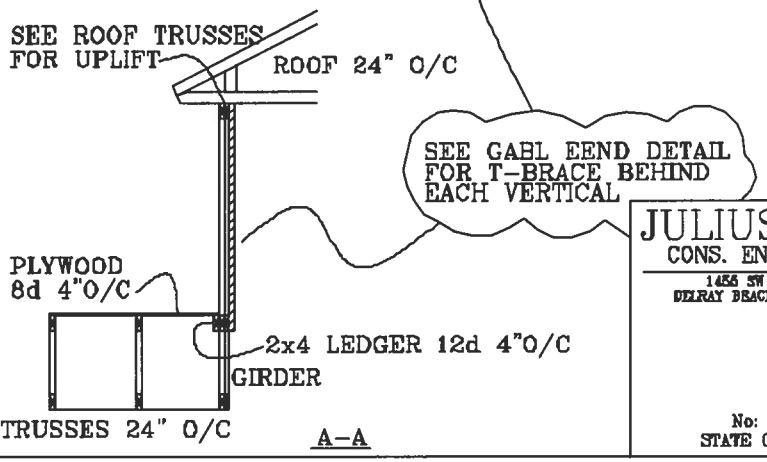
MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL





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.

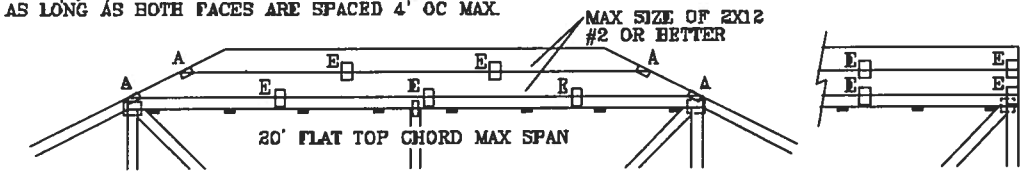
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

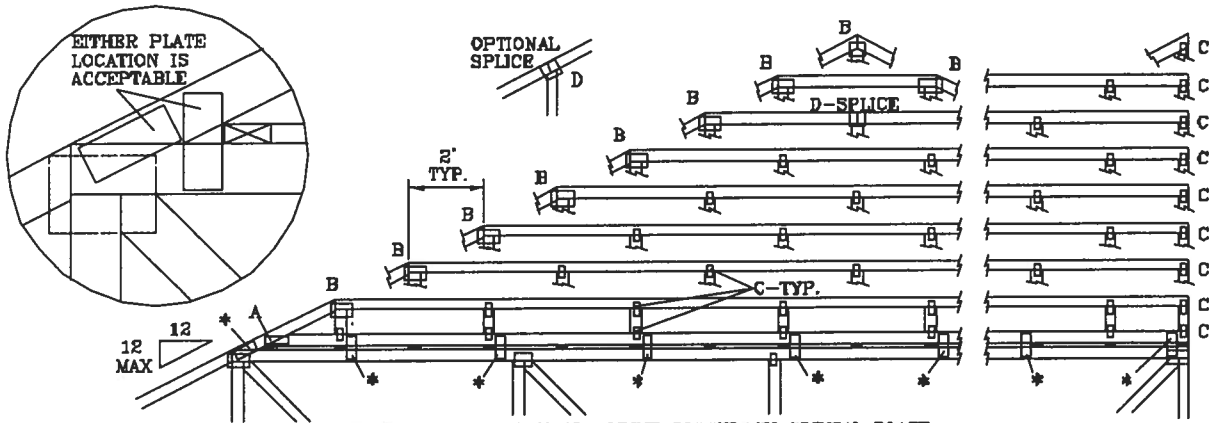
110 MPH WIND, 30' MEAN HGT, ASCE 7-93, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST
CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

130 MPH WIND, 30' MEAN HGT, ASCE 7-98, 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.





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

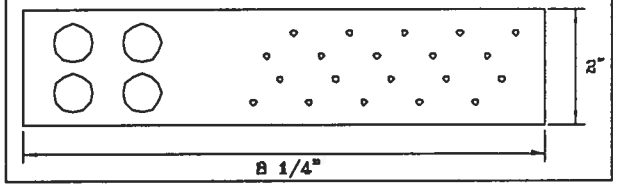
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	62'
A	2X4	2.5X4	2.5X4	3X5
B	4X8	5X8	5X8	5X8
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X8
E	4X8 OR 3X8 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (8) 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.

* 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 11/26/03
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 SBC 110 MPH, ASCE 7-93 110 MPH WIND OR (3) 16d FOR ASCE 7-98 130 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".

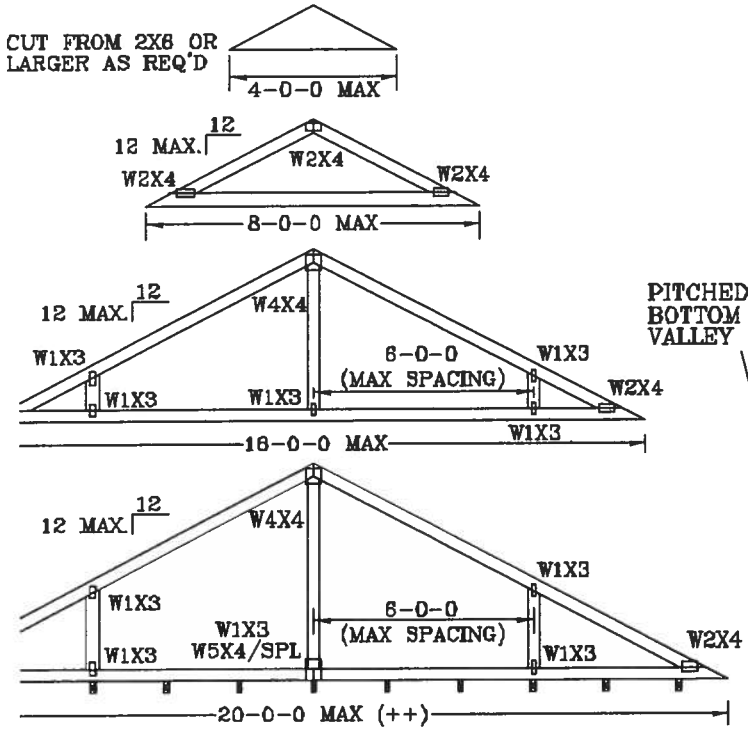
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

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.

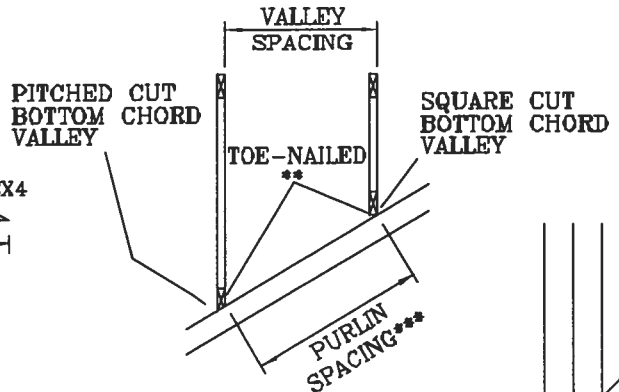
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

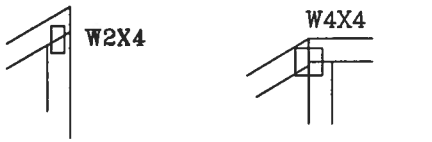
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

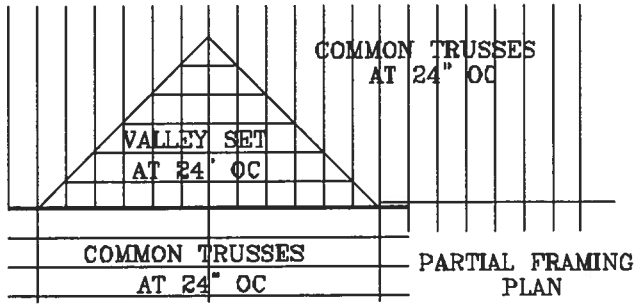
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

xxVARNINGxx 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. 33444-2181

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-1997 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."

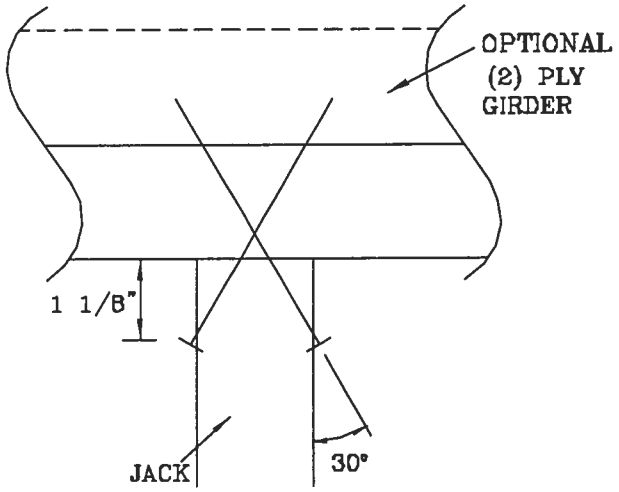
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

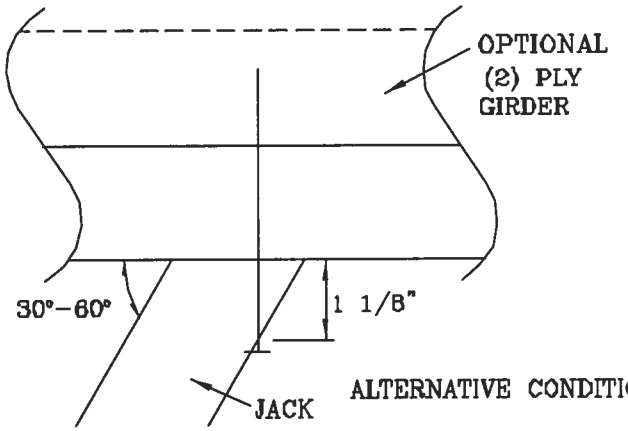
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM LATERAL 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.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF TOE-NAIL
TC DL	PSF	DATE 11/26/03
BC DL	PSF	DRWG CNTONAIL1103
BC LL	PSF	-ENG JL
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

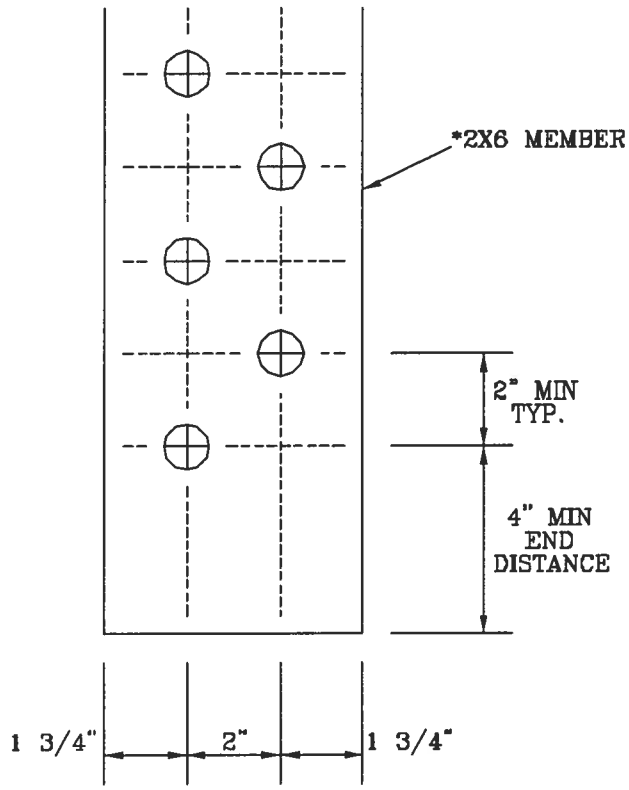
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* 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.

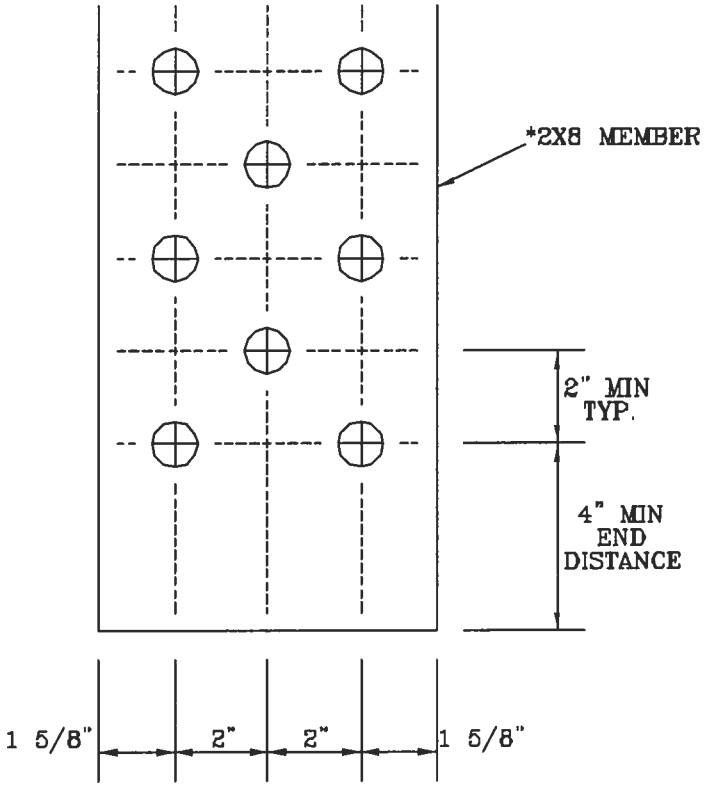
TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

DIRECTION OF GRAIN AND LOAD



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A828,016

=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

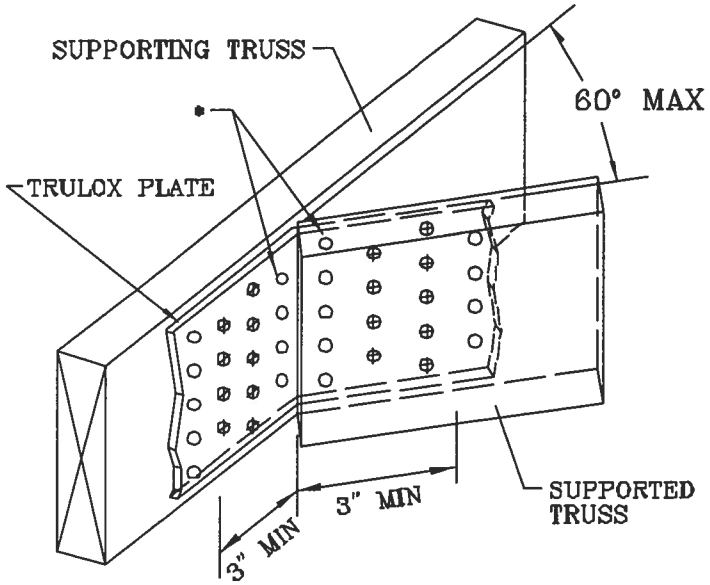
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

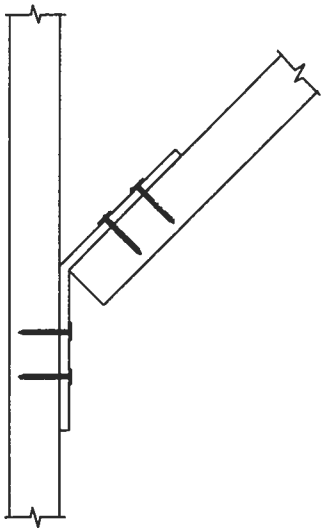
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

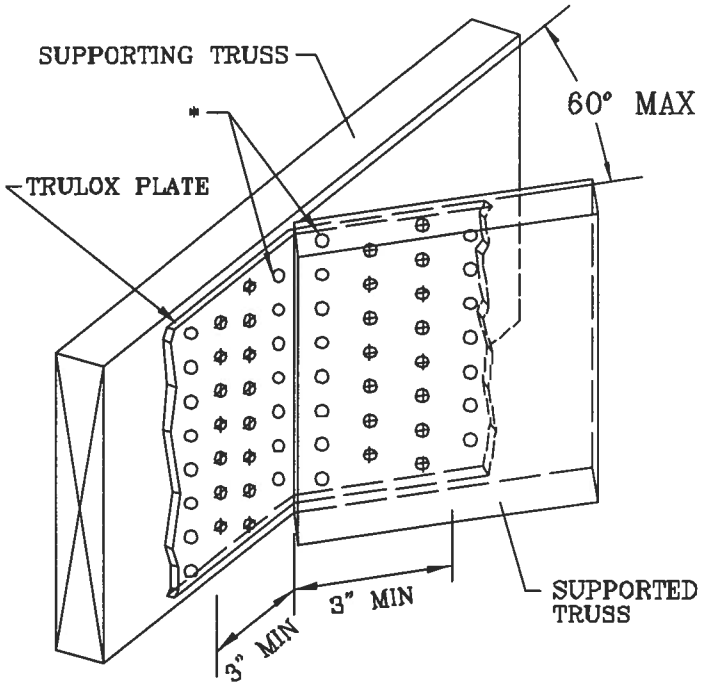
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

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

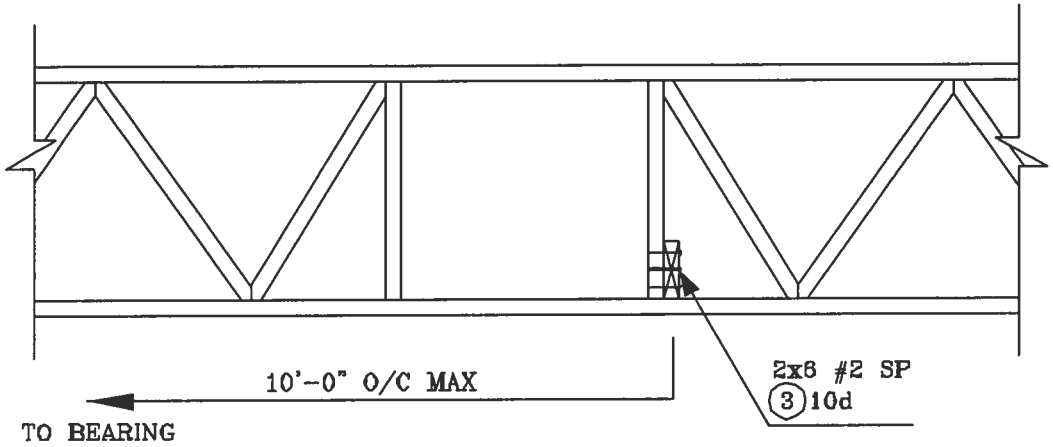
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE 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

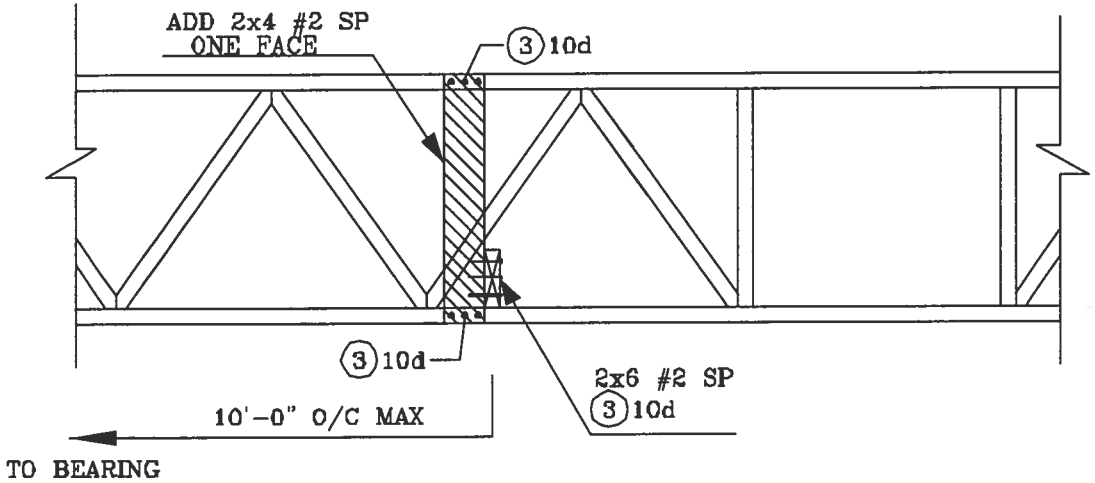
No: 34869
STATE OF FLORIDA

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