Builders FirstSource

Project Information for: L252570

Builder: Lipscomb Eagle
Lot: Unknown
Subdivision: Preserve
County: Columbia
Truss Count: 43
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

October 10,2007

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:
James M. Lipscomb Florida License No. CBC1253543
Address: 255 Southeast Woods Terrace Lake City, Florida 32025

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

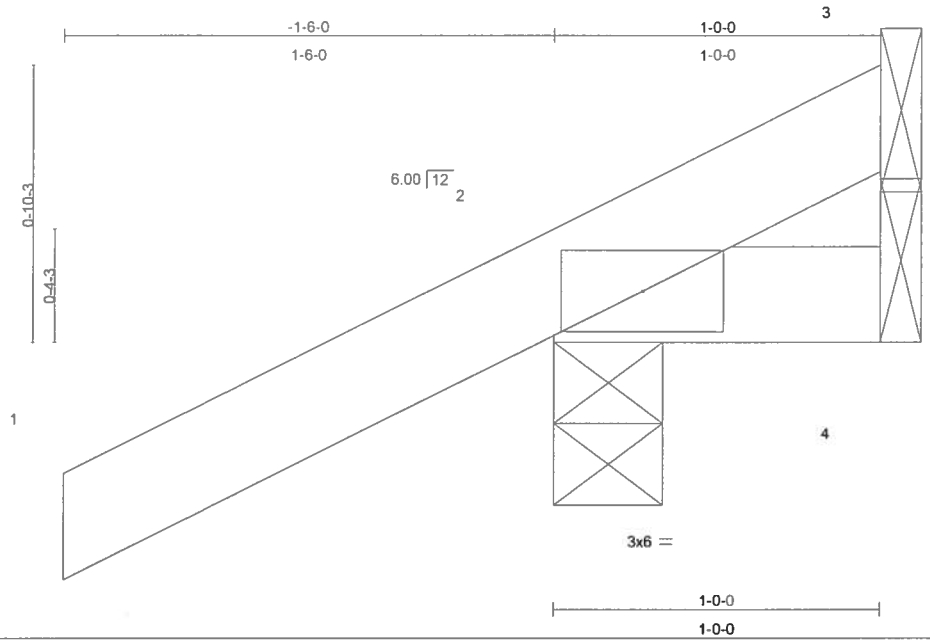
Notes:

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

No.	Drwg. #	Truss ID	Date
1	J1899147	CJ1	10/10/07
2	J1899148	CJ3	10/10/07
3	J1899149	CJ5	10/10/07
4	J1899150	EJ2	10/10/07
5	J1899151	EJ3	10/10/07
6	J1899152	EJ4	10/10/07
7	J1899153	EJ4A	10/10/07
8	J1899154	EJ4B	10/10/07
9	J1899155	EJ7	10/10/07
10	J1899156	EJ7A	10/10/07
11	J1899157	EJ7B	10/10/07
12	J1899158	HJ2	10/10/07
13	J1899159	HJ8	10/10/07
14	J1899160	HJ8A	10/10/07
15	J1899161	HJ9	10/10/07
16	J1899162	T01	10/10/07
17	J1899163	T02	10/10/07
18	J1899164	T03	10/10/07
19	J1899165	T04	10/10/07
20	J1899166	T05	10/10/07
21	J1899167	T06	10/10/07
22	J1899168	T07	10/10/07
23	J1899169	T08	10/10/07
24	J1899170	T09	10/10/07
25	J1899171	T10	10/10/07
26	J1899172	T11	10/10/07
27	J1899173	T12	10/10/07
28	J1899174	T13	10/10/07
29	J1899175	T14	10/10/07
30	J1899176	T15	10/10/07
31	J1899177	T16	10/10/07
32	J1899178	T17	10/10/07
33	J1899179	T18	10/10/07
34	J1899180	T19	10/10/07
35	J1899181	T20	10/10/07
36	J1899182	T21	10/10/07
37	J1899183	T22	10/10/07
38	J1899184	T23	10/10/07
39	J1899185	T24	10/10/07
40	J1899186	T25	10/10/07
41	J1899187	T26	10/10/07
42	J1899188	T27	10/10/07
43	J1899189	T27G	10/10/07

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899147
L252570	CJ1	JACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 09:58:06 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	0.15	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=70(load case 6)
Max Uplift 2=-193(load case 6), 4=-9(load case 4), 3=-41(load case 1)
Max Grav 2=180(load case 1), 4=14(load case 2), 3=62(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-45/35
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 and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2, 9 lb uplift at joint 4 and 41 lb uplift at joint 3.

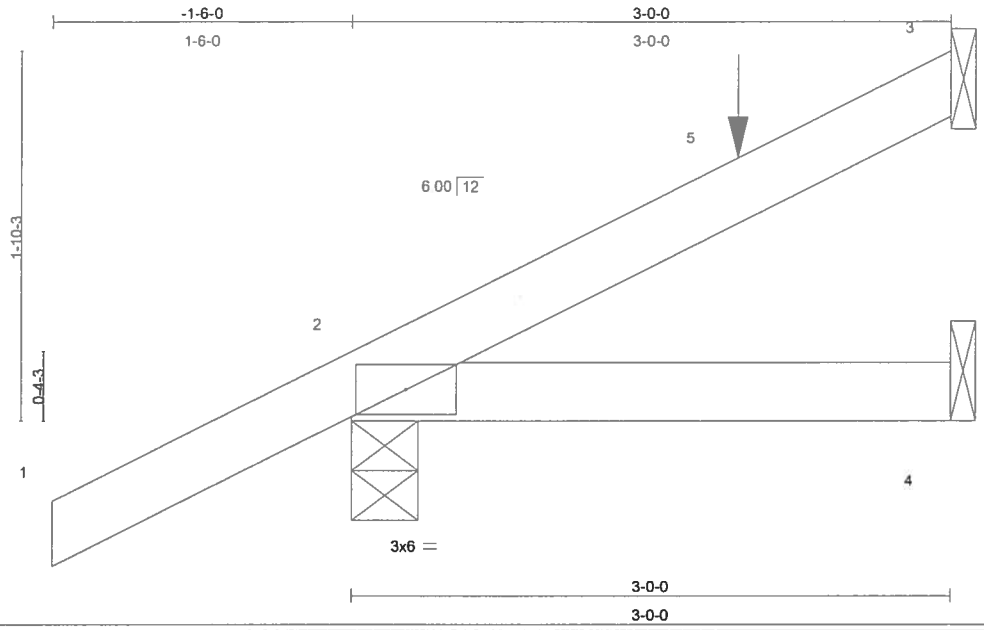
Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

LOAD CASE(S) Standard

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899148
L252570	CJ3	JACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 11:12:56 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	0.20	Vert(LL)	0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	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: 12 lb	

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

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

REACTIONS (lb/size) 3=84/Mechanical, 2=224/0-4-0, 4=14/Mechanical
Max Horz 2=115(load case 6)
Max Uplift 3=-69(load case 6), 2=-204(load case 6), 4=-26(load case 4)
Max Grav 3=84(load case 1), 2=224(load case 1), 4=42(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-5=-58/0, 3-5=-69/33
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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 3, 204 lb uplift at joint 2 and 26 lb uplift at joint 4.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899148
L252570	CJ3	JACK	8	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).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 2-4=-10

Concentrated Loads (lb)

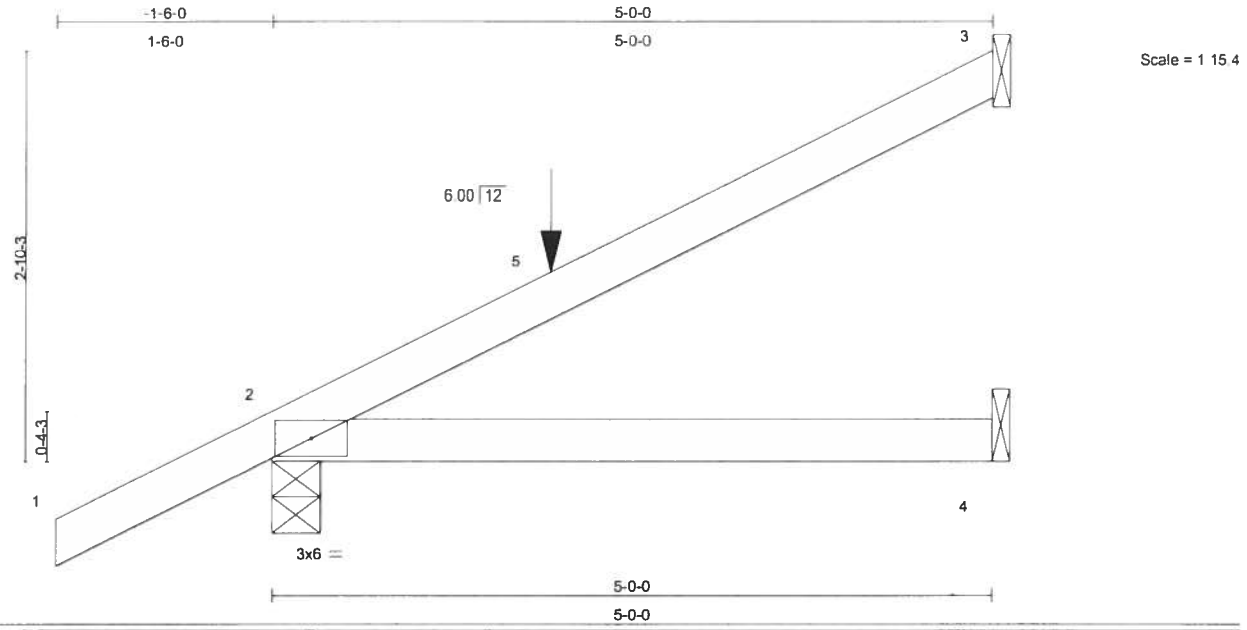
Vert: 5=-55(F)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899149
L252570	CJ5	JACK	8	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 11:13:41 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	0.43	Vert(LL)	0.09	2-4	>672	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.05	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: 18 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=134/Mechanical, 2=292/0-4-0, 4=24/Mechanical
Max Horz 2=162(load case 6)
Max Uplift 3=-119(load case 6), 2=-249(load case 6), 4=-46(load case 4)
Max Grav 3=134(load case 1), 2=292(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-5=-83/0, 3-5=-105/50
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.15

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 3, 249 lb uplift at joint 2 and 46 lb uplift at joint 4.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899149
L252570	CJ5	JACK	8	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).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 2-4=-10

Concentrated Loads (lb)

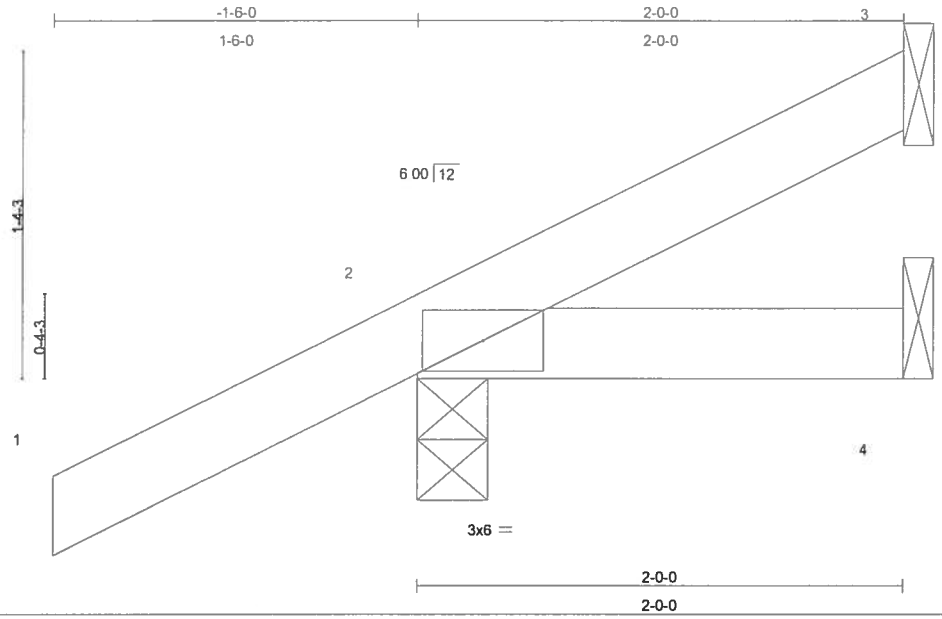
Vert: 5=-55(F)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899150
L252570	EJ2	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:30 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	0.15	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.00	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: 9 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 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=177/0-3-8, 4=10/Mechanical, 3=21/Mechanical
Max Horz 2=94(load case 6)
Max Uplift 2=-171(load case 6), 4=-19(load case 4), 3=-19(load case 7)
Max Grav 2=177(load case 1), 4=29(load case 2), 3=21(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-40/5
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.09

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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2, 19 lb uplift at joint 4 and 19 lb uplift at joint 3.

Continued on page 2

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899150
L252570	EJ2	MONO TRUSS	4	1	Job Reference (optional)

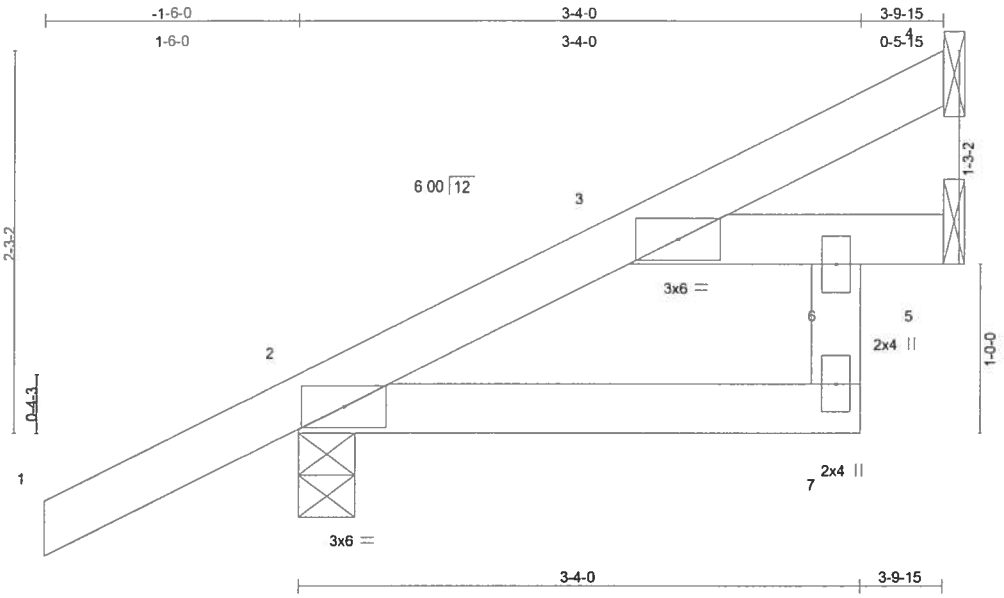
LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899151
L252570	EJ3	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:30 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.00	3	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.00	3	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 18 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
6-7 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=45/Mechanical, 2=230/0-4-0, 5=57/Mechanical
Max Horz 2=134(load case 6)
Max Uplift 4=-40(load case 6), 2=-151(load case 6), 5=-10(load case 7)
Max Grav 4=45(load case 1), 2=230(load case 1), 5=83(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-109/0, 3-4=-36/16
BOT CHORD 2-7=-44/65, 6-7=0/49, 3-6=-65/44, 5-6=0/0

JOINT STRESS INDEX
2 = 0.17, 3 = 0.24, 6 = 0.53 and 7 = 0.32

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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4, 151 lb uplift at joint 2 and 10 lb uplift at joint 5.

Continued on page 2

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

October 10,2007

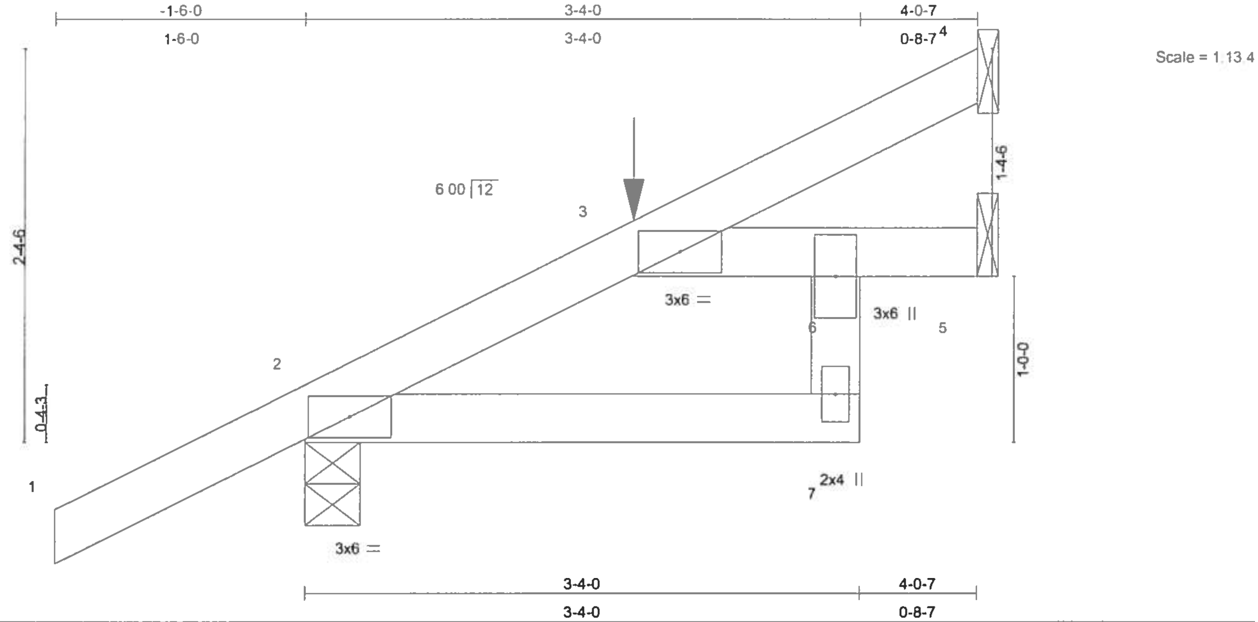
Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899151
L252570	EJ3	SPECIAL	2	1	Job Reference (optional)

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899152
L252570	EJ4	SPECIAL	2	1	Job Reference (optional)



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	0.02	3	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.73	Vert(TL)	-0.02	3	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.01	5	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 *Except*
6-7 2 X 4 SYP No.3

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

REACTIONS (lb/size) 4=64/Mechanical, 2=408/0-4-0, 5=176/Mechanical
Max Horz 2=139(load case 6)
Max Uplift 4=-51(load case 6), 2=-236(load case 6), 5=-70(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-385/200, 3-4=-44/24
BOT CHORD 2-7=-216/255, 6-7=-12/72, 3-6=-255/216, 5-6=0/0

JOINT STRESS INDEX
2 = 0.36, 3 = 0.59, 6 = 0.73 and 7 = 0.82

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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 4, 236 lb uplift at joint 2 and 70 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).

Julius Lee
Truss Design Engineer
Florida PE No. [illegible]
[illegible] Coastal Bay Blvd
Boynton Beach, FL [illegible]

October 10,2007

Continued on page 2

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-82(F=-28), 3-4=-54, 2-7=-10, 3-6=-10, 5-6=-10

Concentrated Loads (lb)

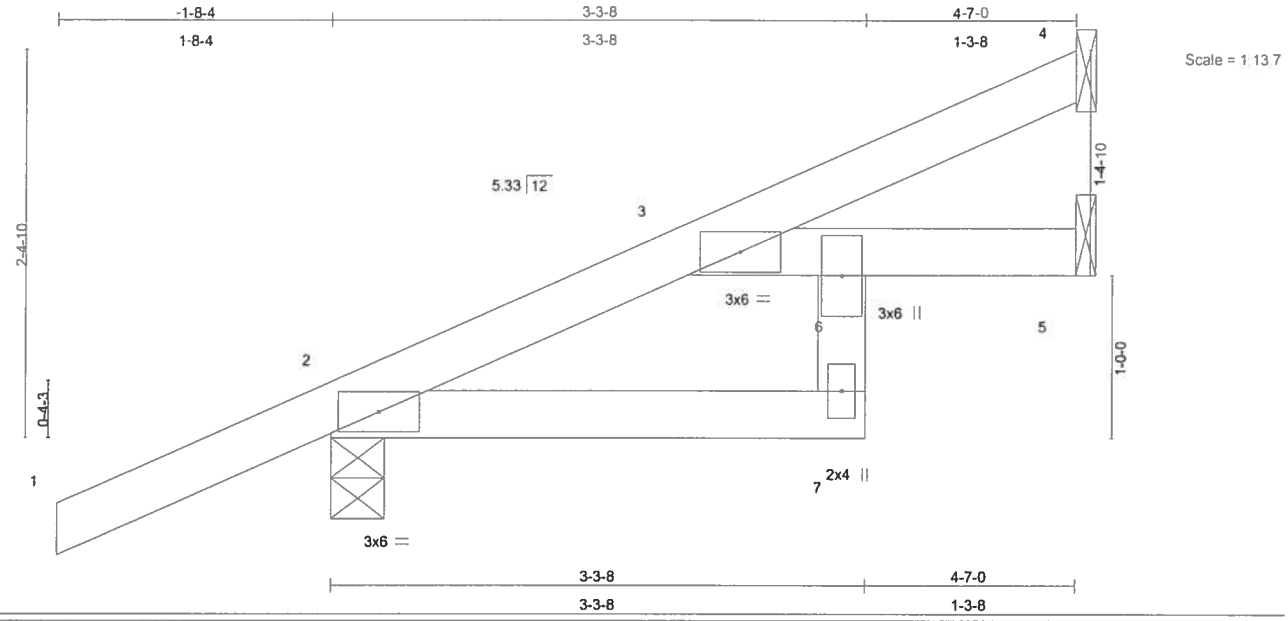
Vert: 3=-252(F)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899153
L252570	EJ4A	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:32 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	0.21	Vert(LL)	-0.01	3	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.01	7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
6-7 2 X 4 SYP No.3

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

REACTIONS (lb/size) 4=64/Mechanical, 2=265/0-4-0, 5=60/Mechanical
Max Horz 2=140(load case 6)
Max Uplift 4=-49(load case 6), 2=-174(load case 6), 5=-13(load case 6)
Max Grav 4=64(load case 1), 2=265(load case 1), 5=80(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-143/0, 3-4=-41/21
BOT CHORD 2-7=-68/92, 6-7=0/51, 3-6=-92/68, 5-6=0/0

JOINT STRESS INDEX
2 = 0.21, 3 = 0.26, 6 = 0.26 and 7 = 0.38

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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4, 174 lb uplift at joint 2 and 13 lb uplift at joint 5.

Continued on page 2

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899153
L252570	EJ4A	SPECIAL	2	1	Job Reference (optional)

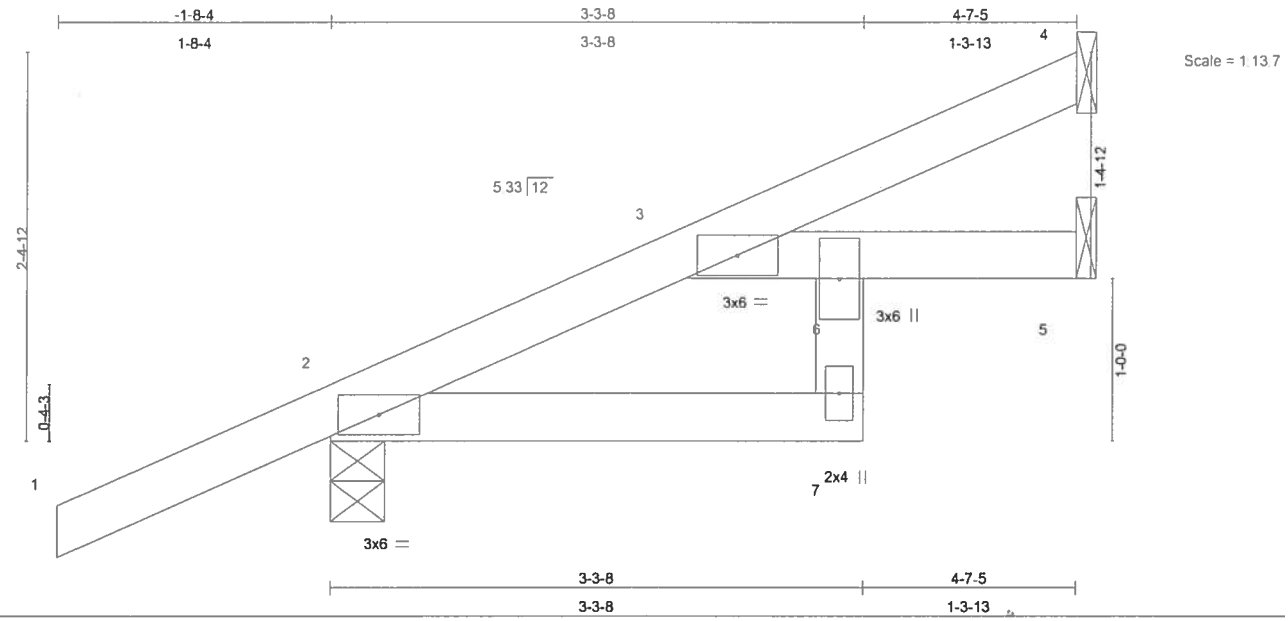
LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899154
L252570	EJ4B	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:32 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	0.21	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.01	7	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
6-7 2 X 4 SYP No.3

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

REACTIONS (lb/size) 4=64/Mechanical, 2=266/0-4-0, 5=60/Mechanical
Max Horz 2=141(load case 6)
Max Uplift 4=-50(load case 6), 2=-174(load case 6), 5=-13(load case 6)
Max Grav 4=64(load case 1), 2=266(load case 1), 5=80(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-144/0, 3-4=-42/21
BOT CHORD 2-7=-69/93, 6-7=0/51, 3-6=-93/69, 5-6=0/0

JOINT STRESS INDEX
2 = 0.21, 3 = 0.26, 6 = 0.27 and 7 = 0.38

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
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 4, 174 lb uplift at joint 2 and 13 lb uplift at joint 5.

Julius Lee
Truss Design Engineer
Florida PE No. 34988
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899154
L252570	EJ4B	SPECIAL	2	1	Job Reference (optional)

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 31988
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899155
L252570	EJ7	MONO TRUSS	13	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 10:00:05 2007 Page 1

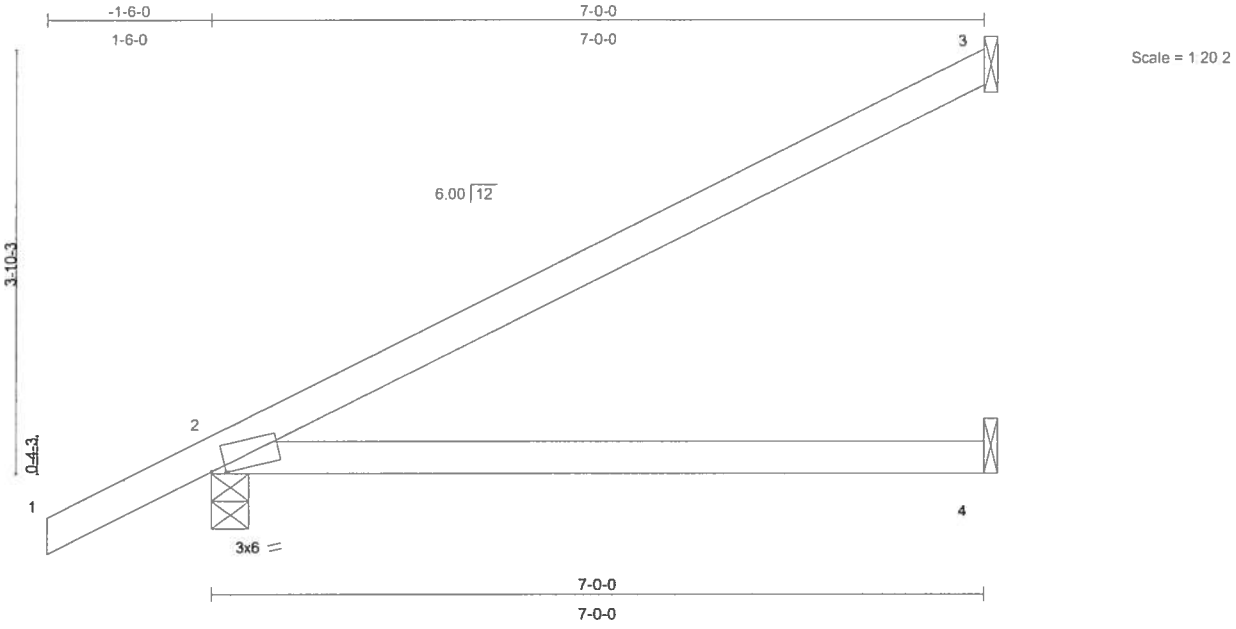


Plate Offsets (X,Y): [2:0-1-9,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.53	Vert(LL)	0.35	2-4	>232	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.17	2-4	>488	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: 25 lb	

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

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

REACTIONS (lb/size) 3=157/Mechanical, 2=318/0-4-0, 4=48/Mechanical
Max Horz 2=149(load case 6)
Max Uplift 3=-98(load case 6), 2=-196(load case 6), 4=-66(load case 6)
Max Grav 3=157(load case 1), 2=318(load case 1), 4=94(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-133/56
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.67

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

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 3, 196 lb uplift at joint 2 and 66 lb uplift at joint 4.

LOAD CASE(S) Standard

October 10,2007

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

October 10,2007

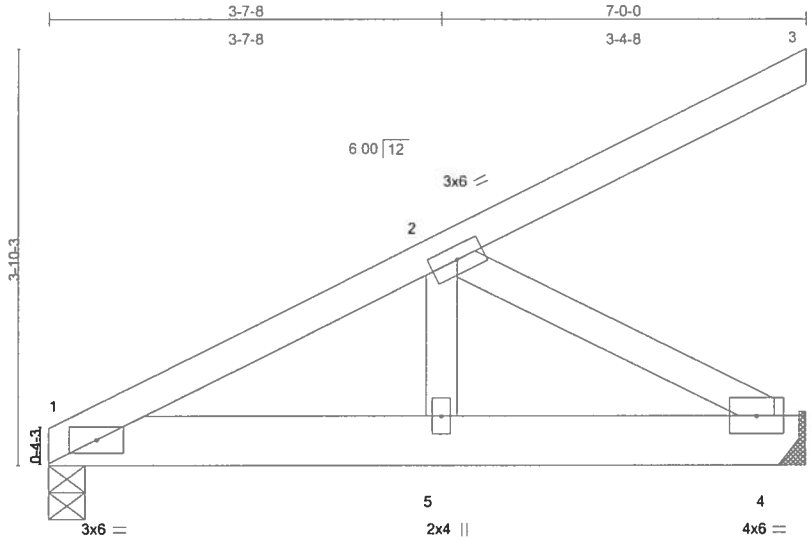
Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

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

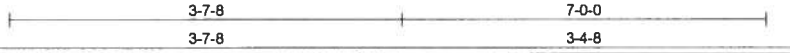
Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL
					J1899156
L252570	EJ7A	MONO TRUSS	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:33 2007 Page 1



WARNING: This truss has not been designed to resist being "pushed or pulled" out of plane by the horizontal movement of the T27 trusses. A bracing system may be required to prevent this out of plane buckling and must be designed by the Engineer/Architect of Record.



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	-0.01	5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.01	1-5	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.13	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 70 lb	

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

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

REACTIONS (lb/size) 1=907/0-4-0, 4=923/Mechanical
Max Horz 1=111(load case 4)
Max Uplift 1=-221(load case 5), 4=-308(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1210/308, 2-3=-82/0
BOT CHORD 1-5=-398/1088, 4-5=-398/1088
WEBS 2-5=-205/783, 2-4=-1254/459

JOINT STRESS INDEX
1 = 0.43, 2 = 0.28, 4 = 0.17 and 5 = 0.28

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL
					J1899156
L252570	EJ7A	MONO TRUSS	1	2	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 221 lb uplift at joint 1 and 308 lb uplift at joint 4.
7) Girder carries tie-in span(s): 15-7-8 from 0-0-0 to 7-0-0

LOAD CASE(S) Standard

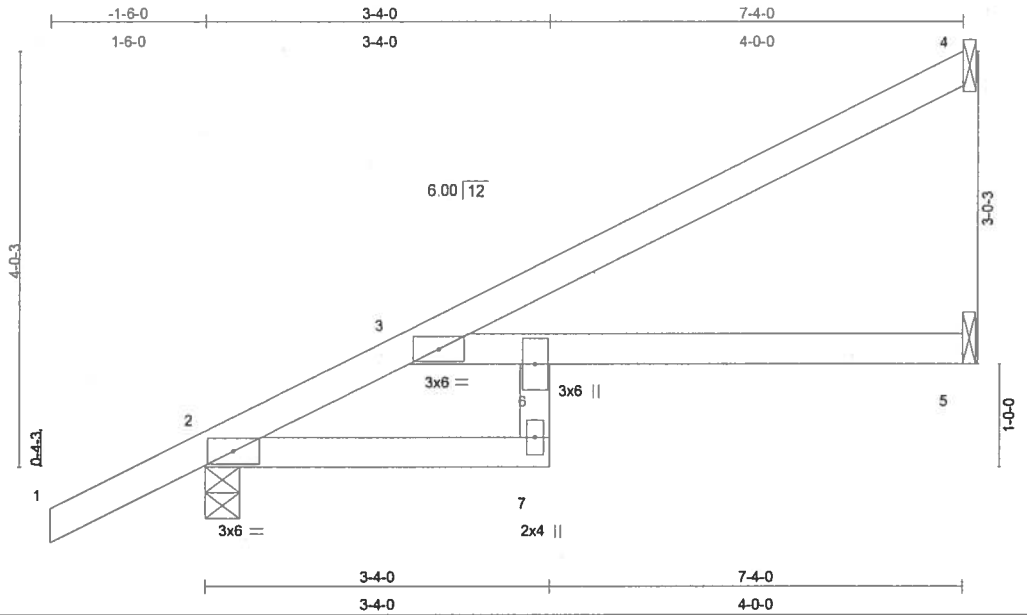
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 1-4=-223(F=-213)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899157
L252570	EJ7B	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:34 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	0.38	Vert(LL)	-0.09	5-6	>943	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.20	5-6	>425	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.06	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 29 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
6-7 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=140/Mechanical, 2=336/0-4-0, 5=81/Mechanical
Max Horz 2=154(load case 5)
Max Uplift 4=-73(load case 5), 2=-108(load case 5), 5=-7(load case 5)
Max Grav 4=140(load case 1), 2=336(load case 1), 5=111(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-329/0, 3-4=-53/50
BOT CHORD 2-7=-81/240, 6-7=0/62, 3-6=-240/81, 5-6=0/0

JOINT STRESS INDEX
2 = 0.19, 3 = 0.38, 6 = 0.72 and 7 = 0.61

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) *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 73 lb uplift at joint 4, 108 lb uplift at joint 2 and 7 lb uplift at joint 5.

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

LOAD CASE(S) Standard

October 10,2007

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

October 10,2007

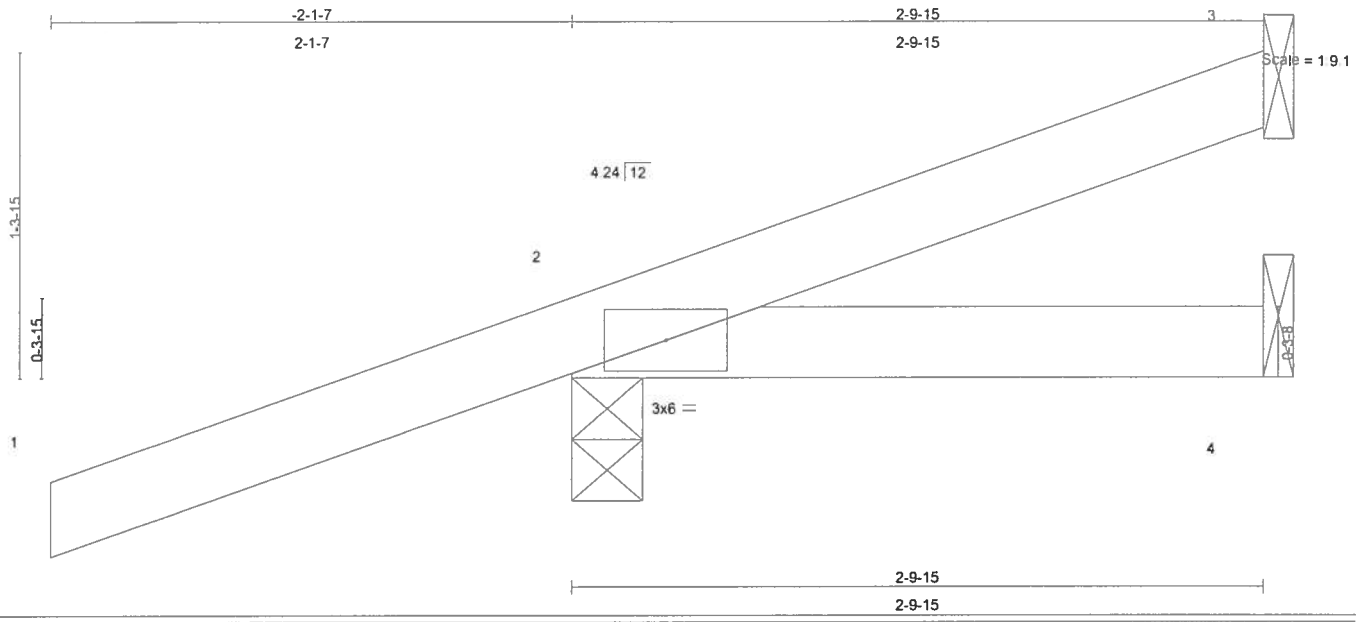
Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

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

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899158
L252570	HJ2	JACK	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:34 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	0.30	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.00	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: 12 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=-19/Mechanical, 2=197/0-3-8, 4=6/Mechanical
Max Horz 2=60(load case 3)
Max Uplift 3=-19(load case 1), 2=-223(load case 3), 4=-29(load case 3)
Max Grav 3=46(load case 7), 2=197(load case 1), 4=32(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-26/16
BOT CHORD 2-4=0/0

JOINT STRESS INDEX
2 = 0.08

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 19 lb uplift at joint 3, 223 lb uplift at joint 2 and 29 lb uplift at joint 4.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899158
L252570	HJ2	JACK	2	1	Job Reference (optional)

NOTES

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54
   Trapezoidal Loads (plf)
   Vert: 2=-2(F=26, B=26)-to-3=-38(F=8, B=8), 2=0(F=5, B=5)-to-4=-7(F=1, B=1)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899159
L252570	HJ8	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:35 2007 Page 1

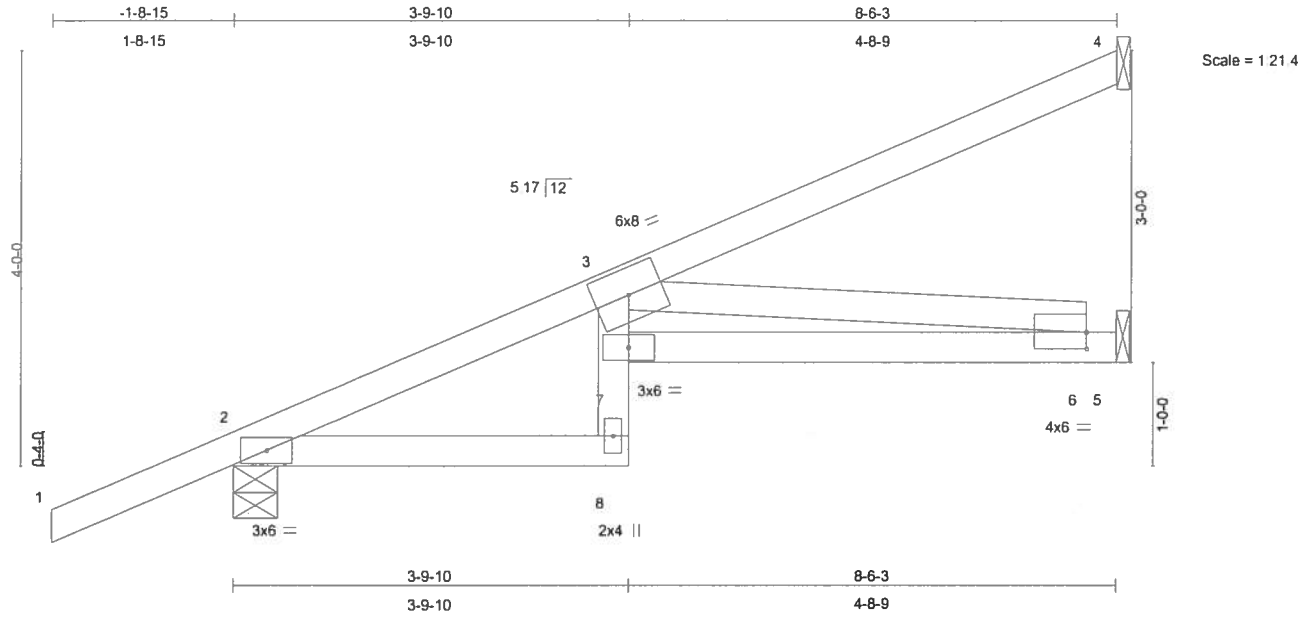


Plate Offsets (X,Y): [6:0-0-0,0-1-15]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	0.07	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.93	Vert(TL)	-0.11	6-7	>893	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.41	Horz(TL)	0.05	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 38 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-8 2 X 4 SYP No.3
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, Except:
7-10-5 oc bracing: 6-7.

REACTIONS (lb/size) 4=193/Mechanical, 2=313/0-5-1, 5=173/Mechanical
Max Horz 2=230(load case 5)
Max Uplift 4=-177(load case 5), 2=-158(load case 5), 5=-67(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-365/16, 3-4=-94/55
BOT CHORD 2-8=-176/303, 7-8=0/64, 3-7=0/155, 6-7=-626/989, 5-6=0/0
WEBS 3-6=-998/632

JOINT STRESS INDEX
2 = 0.23, 3 = 0.79, 6 = 0.33, 7 = 0.40 and 8 = 0.82

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 177 lb uplift at joint 4, 158 lb uplift at joint 2 and 67 lb uplift at joint 5.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899159
L252570	HJ8	SPECIAL	2	1	Job Reference (optional)

NOTES

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

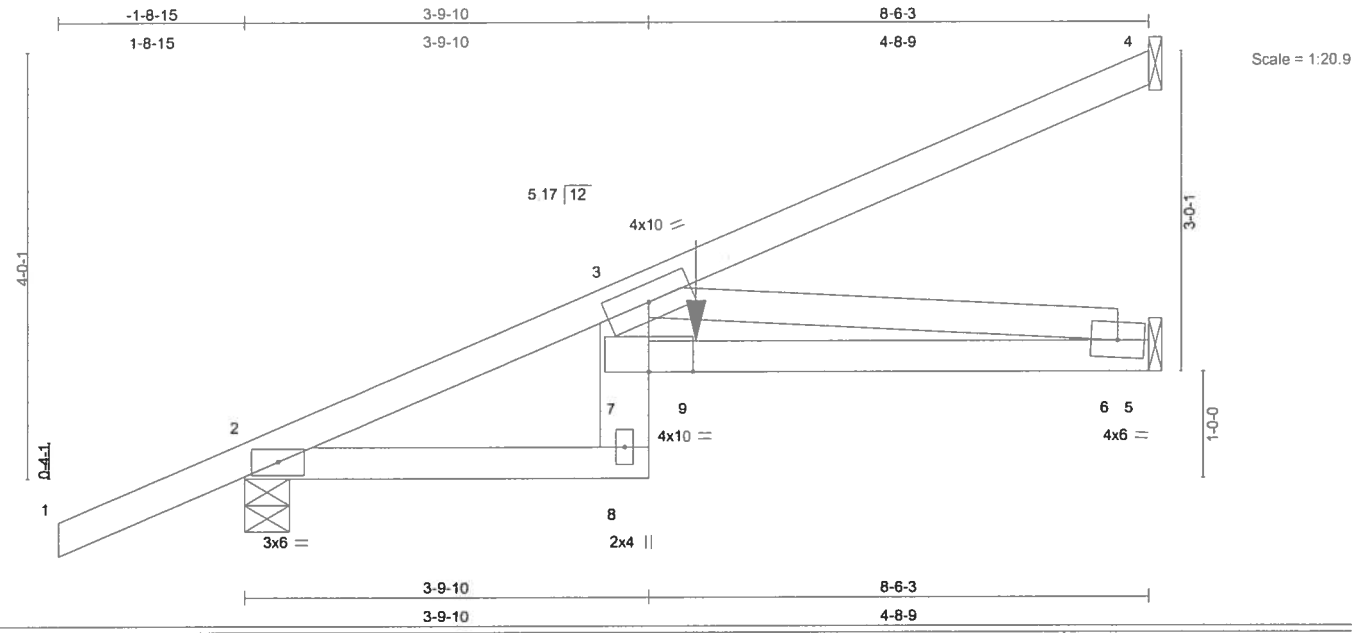
Vert: 2=-3(F=26, B=26)-to-4=-115(F=-30, B=-30), 2=-0(F=5, B=5)-to-8=-9(F=1, B=1), 7=-9(F=1, B=1)-to-5=-21(F=-6, B=-6)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899160
L252570	HJ8A	SPECIAL	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 11:11:43 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	0.40	Vert(LL)	0.10	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.54	Vert(TL)	-0.15	6-7	>640	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.66	Horz(TL)	0.05	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 39 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
3-8 2 X 6 SYP No.1D
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, Except:
6-4-2 oc bracing: 6-7.

REACTIONS (lb/size) 4=202/Mechanical, 2=403/0-5-1, 5=250/Mechanical
Max Horz 2=230(load case 5)
Max Uplift 4=-182(load case 5), 2=-202(load case 5), 5=-106(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-551/97, 3-4=-96/58
BOT CHORD 2-8=-249/474, 7-8=0/53, 3-7=-28/261, 7-9=-939/1603, 6-9=-939/1603, 5-6=0/0
WEBS 3-6=-1616/946

JOINT STRESS INDEX
2 = 0.28, 3 = 0.84, 6 = 0.89, 7 = 0.43 and 8 = 0.62

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 182 lb uplift at joint 4, 202 lb uplift at joint 2 and 106 lb uplift at joint 5.

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

October 10,2007

Continued on page 2

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

Concentrated Loads (lb)

Vert: 9=-176(F)

Trapezoidal Loads (plf)

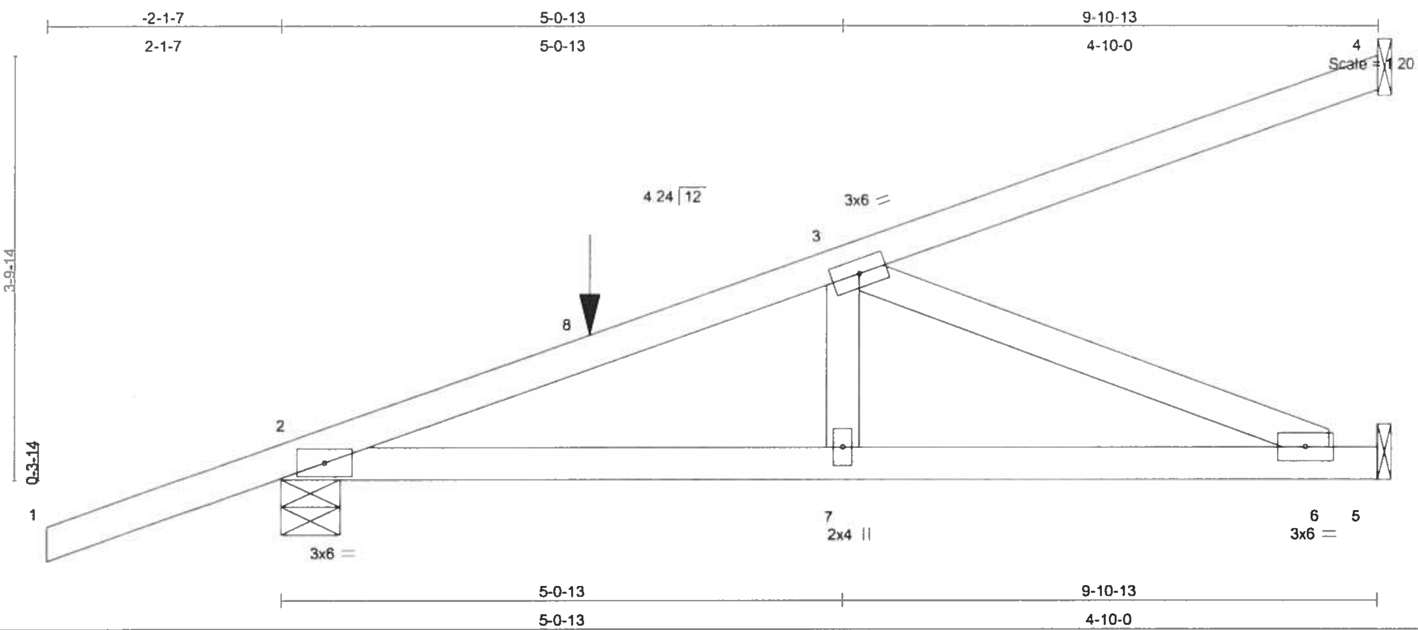
Vert: 2=-3(F=26, B=26)-to-4=-115(F=-30, B=-30), 2=-0(F=5, B=5)-to-8=-9(F=1, B=1), 7=-9(F=1, B=1)-to-5=-21(F=-6, B=-6)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899161
L252570	HJ9	MONO TRUSS	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 11:15:25 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	0.51	Vert(LL)	0.04	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.09	6-7	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.37	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-6 oc bracing.

REACTIONS (lb/size) 4=216/Mechanical, 2=594/0-6-7, 5=346/Mechanical
Max Horz 2=254(load case 3)
Max Uplift 4=-195(load case 3), 2=-322(load case 3), 5=-144(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-8=-919/283, 3-8=-811/249, 3-4=-90/51
BOT CHORD 2-7=-442/805, 6-7=-442/805, 5-6=0/0
WEBS 3-7=0/222, 3-6=-871/478

JOINT STRESS INDEX
2 = 0.38, 3 = 0.24, 6 = 0.24 and 7 = 0.16

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 195 lb uplift at joint 4, 322 lb uplift at joint 2 and 144 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).

October 10,2007

Continued on page 2

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-2=-54
   Concentrated Loads (lb)
      Vert: 8=-252(F)
   Trapezoidal Loads (plf)
      Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899162
L252570	T01	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:37 2007 Page 1

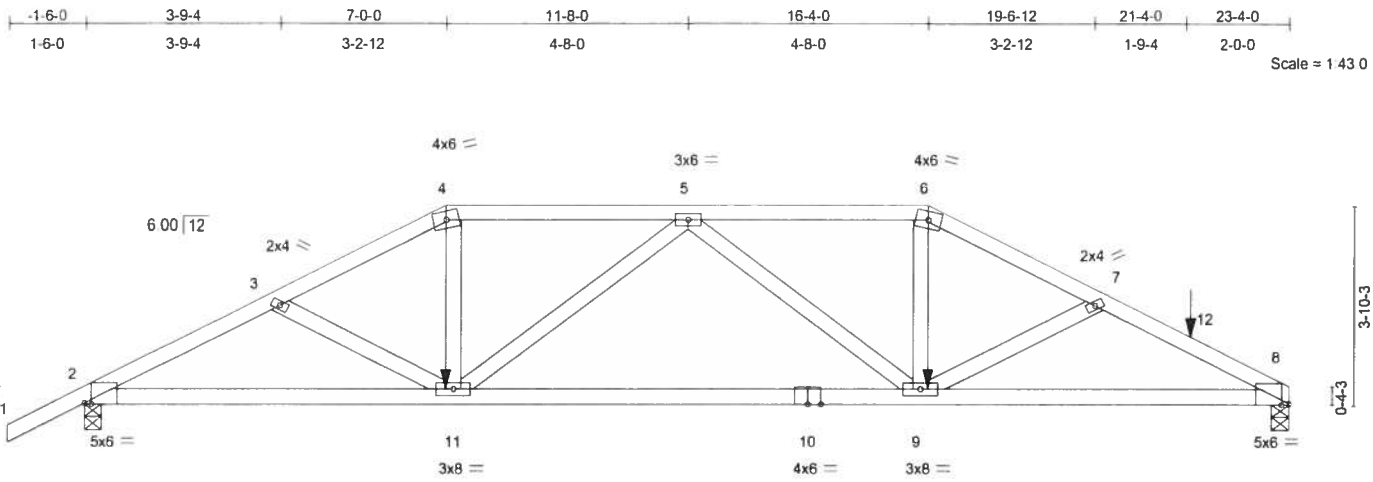


Plate Offsets (X,Y): [2:0-1-11,Edge], [8:0-1-11,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.44	Vert(LL)	-0.14	9-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.77	Vert(TL)	-0.47	9-11	>590	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.33	Horz(TL)	0.11	8	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 3-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-4-2 oc bracing.

REACTIONS (lb/size) 8=1674/0-4-0, 2=1603/0-4-0
Max Horz 2=78(load case 5)
Max Uplift 8=-490(load case 6), 2=-517(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2956/886, 3-4=-2851/892, 4-5=-2575/830, 5-6=-2625/841, 6-7=-2923/907, 7-12=-3066/927, 8-12=-3207/947
BOT CHORD 2-11=-796/2554, 10-11=-971/2963, 9-10=-971/2963, 8-9=-800/2745
WEBS 3-11=-58/122, 4-11=-223/871, 5-11=-564/285, 5-9=-505/267, 6-9=-239/923, 7-9=-183/113

JOINT STRESS INDEX
2 = 0.76, 3 = 0.33, 4 = 0.77, 5 = 0.34, 6 = 0.77, 7 = 0.33, 8 = 0.76, 9 = 0.56, 10 = 0.92 and 11 = 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; 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.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899162
L252570	T01	HIP	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 490 lb uplift at joint 8 and 517 lb uplift at joint 2.
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).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-6=-117(F=-63), 6-8=-54, 2-11=-10, 9-11=-22(F=-12), 8-9=-10
   Concentrated Loads (lb)
   Vert: 11=-411(F) 9=-411(F) 12=-200(F)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899163
L252570	T02	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:38 2007 Page 1

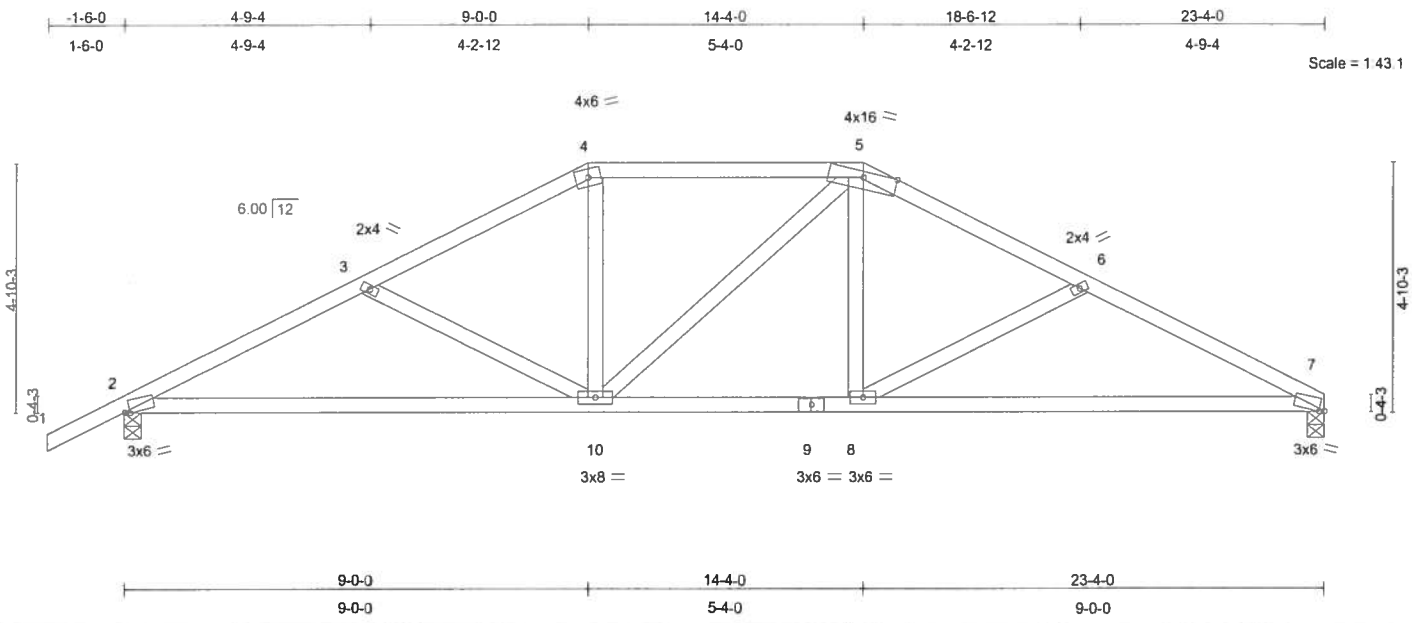


Plate Offsets (X,Y): [2:0-1-5,0-0-7], [7:0-1-5,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.15	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.29	7-8	>948	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.04	7	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 5-2-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-12 oc bracing.

REACTIONS (lb/size) 7=733/0-4-0, 2=829/0-4-0
Max Horz 2=90(load case 6)
Max Uplift 7=-146(load case 7), 2=-220(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1304/721, 3-4=-1057/606, 4-5=-906/595, 5-6=-1064/617, 6-7=-1311/750
BOT CHORD 2-10=-563/1108, 9-10=-372/911, 8-9=-372/911, 7-8=-598/1129
WEBS 3-10=-235/228, 4-10=-65/256, 5-10=-117/109, 5-8=-85/260, 6-8=-254/257

JOINT STRESS INDEX
2 = 0.86, 3 = 0.33, 4 = 0.50, 5 = 0.72, 6 = 0.33, 7 = 0.82, 8 = 0.34, 9 = 0.42 and 10 = 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.
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
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899163
L252570	T02	HIP	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 146 lb uplift at joint 7 and 220 lb uplift at joint 2.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899164
L252570	T03	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:39 2007 Page 1

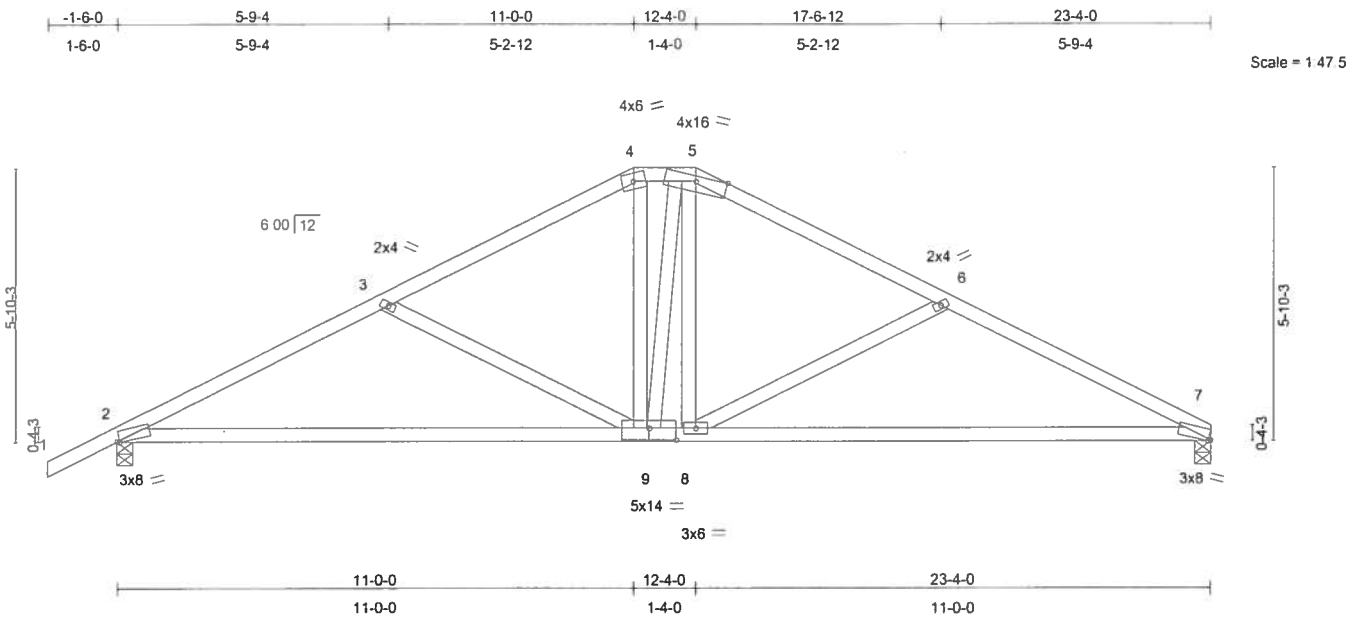


Plate Offsets (X,Y): [2:0-0-10,Edge], [7:0-0-10,Edge], [9:0-7-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.27	2-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.72	Vert(TL)	-0.50	2-9	>551	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 117 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 5-1-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-12 oc bracing.

REACTIONS (lb/size) 7=733/0-4-0, 2=829/0-4-0
Max Horz 2=101(load case 6)
Max Uplift 7=-157(load case 7), 2=-231(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1278/729, 3-4=-941/561, 4-5=-791/566, 5-6=-949/570, 6-7=-1278/749
BOT CHORD 2-9=-561/1082, 8-9=-286/789, 7-8=-586/1098
WEBS 3-9=-344/317, 4-9=-96/254, 5-9=-154/174, 5-8=-148/236, 6-8=-358/342

JOINT STRESS INDEX
2 = 0.81, 3 = 0.33, 4 = 0.54, 5 = 0.54, 6 = 0.33, 7 = 0.75, 8 = 0.34 and 9 = 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; 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.

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1104 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899164
L252570	T03	HIP	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 157 lb uplift at joint 7 and 231 lb uplift at joint 2.

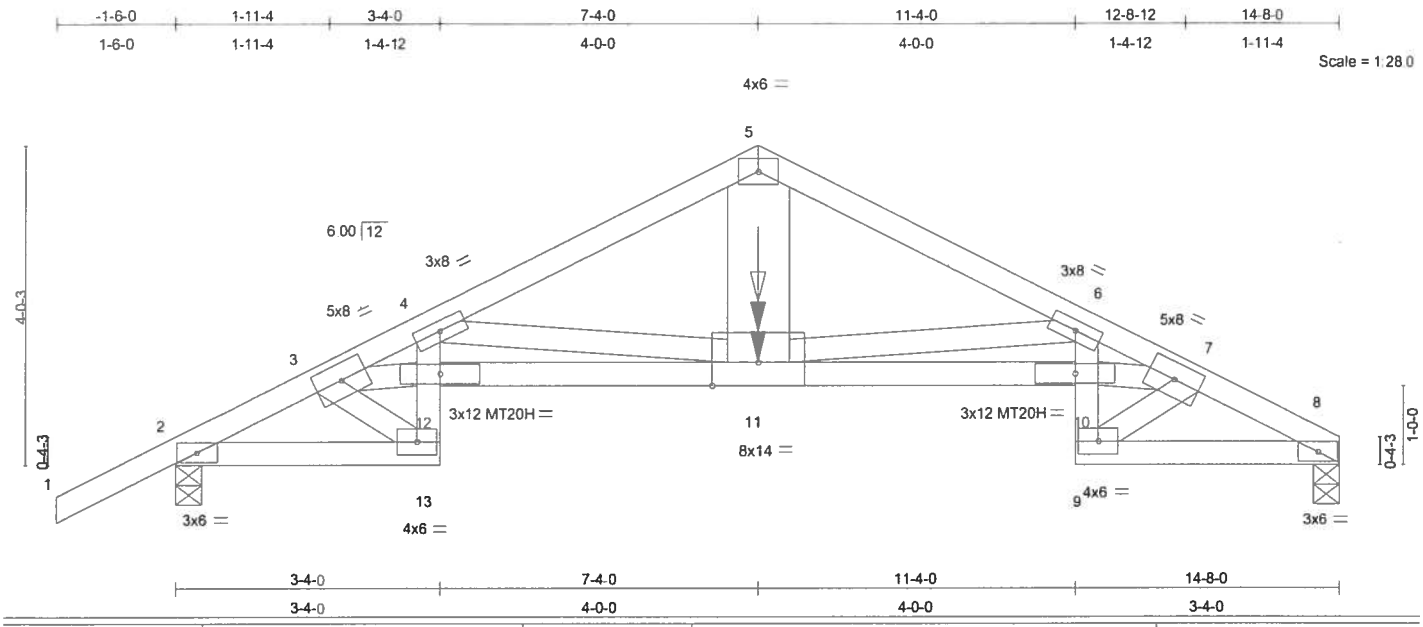
LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899165
L252570	T04	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:40 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	0.39	Vert(LL)	-0.15	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.94	Vert(TL)	-0.29	10-11	>589	240	MT20H	187/143
BCLL	10.0	* Rep Stress Incr	NO	WB	0.71	Horz(TL)	0.22	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 81 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2
BOT CHORD	2 X 4 SYP No.1D *Except* 4-13 2 X 4 SYP No.2, 6-9 2 X 4 SYP No.2
WEBS	2 X 4 SYP No.3 *Except* 5-11 2 X 10 SYP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-3-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-9-6 oc bracing.

REACTIONS (lb/size) 8=840/0-4-0, 2=940/0-4-0
Max Horz 2=80(load case 5)
Max Uplift 8=-206(load case 6), 2=-282(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/35, 2-3=-1541/343, 3-4=-3009/712, 4-5=-1940/469, 5-6=-1940/476, 6-7=-3059/725, 7-8=-1599/395
BOT CHORD	2-13=-293/1281, 12-13=-119/599, 4-12=-113/639, 11-12=-726/2988, 10-11=-700/3043, 9-10=-140/641, 6-10=-132/680, 8-9=-318/1345
WEBS	3-13=-998/234, 3-12=-538/2201, 4-11=-1279/359, 5-11=-316/1377, 6-11=-1335/382, 7-10=-490/2216, 7-9=-1046/248

JOINT STRESS INDEX
2 = 0.67, 3 = 0.65, 4 = 0.80, 5 = 0.47, 6 = 0.80, 7 = 0.65, 8 = 0.67, 9 = 0.72, 10 = 0.93, 11 = 0.22, 12 = 0.93 and 13 = 0.72

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.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899165
L252570	T04	SPECIAL	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 plates are MT20 plates unless otherwise indicated.
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 206 lb uplift at joint 8 and 282 lb uplift at joint 2.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

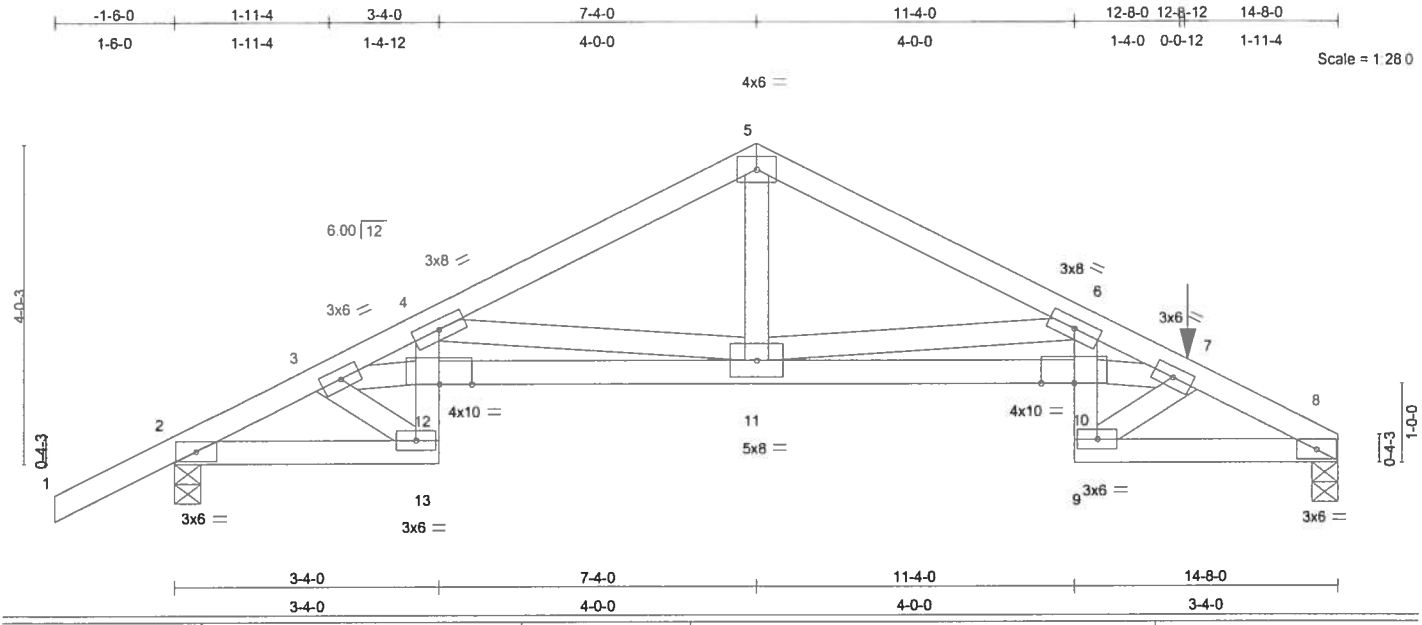
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-8=-54, 2-13=-10, 10-12=-10, 8-9=-10
   Concentrated Loads (lb)
   Vert: 11=-773(F)

Julius Lee
Truss Design Engineer
Florida PE No. 31888
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899166
L252570	T05	SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:41 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	0.29	Vert(LL)	0.13	10-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	1.00	Vert(TL)	-0.19	10-11	>915	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.43	Horz(TL)	0.13	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 75 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 4-13 2 X 4 SYP No.3, 6-9 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-1-7 oc bracing.

REACTIONS (lb/size) 8=631/0-4-0, 2=577/0-4-0
Max Horz 2=80(load case 6)
Max Uplift 8=-148(load case 7), 2=-182(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-809/428, 3-4=-1547/845, 4-5=-845/499, 5-6=-843/497, 6-7=-1848/1081, 7-8=-1166/704
BOT CHORD 2-13=-311/657, 12-13=-126/321, 4-12=-116/348, 11-12=-776/1521, 10-11=-1014/1818, 9-10=-285/511, 6-10=-277/541, 8-9=-571/975
WEBS 3-13=-534/257, 3-12=-592/1149, 4-11=-794/475, 5-11=-209/427, 6-11=-1095/716, 7-10=-733/1350, 7-9=-840/495

JOINT STRESS INDEX
2 = 0.48, 3 = 0.89, 4 = 0.54, 5 = 0.49, 6 = 0.54, 7 = 0.89, 8 = 0.48, 9 = 0.72, 10 = 0.65, 11 = 0.24, 12 = 0.65 and 13 = 0.72

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899166
L252570	T05	SPECIAL	3	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 148 lb uplift at joint 8 and 182 lb uplift at joint 2.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-8=-54, 2-13=-10, 10-12=-10, 8-9=-10
   Concentrated Loads (lb)
   Vert: 7=-200(F)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899167
L252570	T06	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:42 2007 Page 1

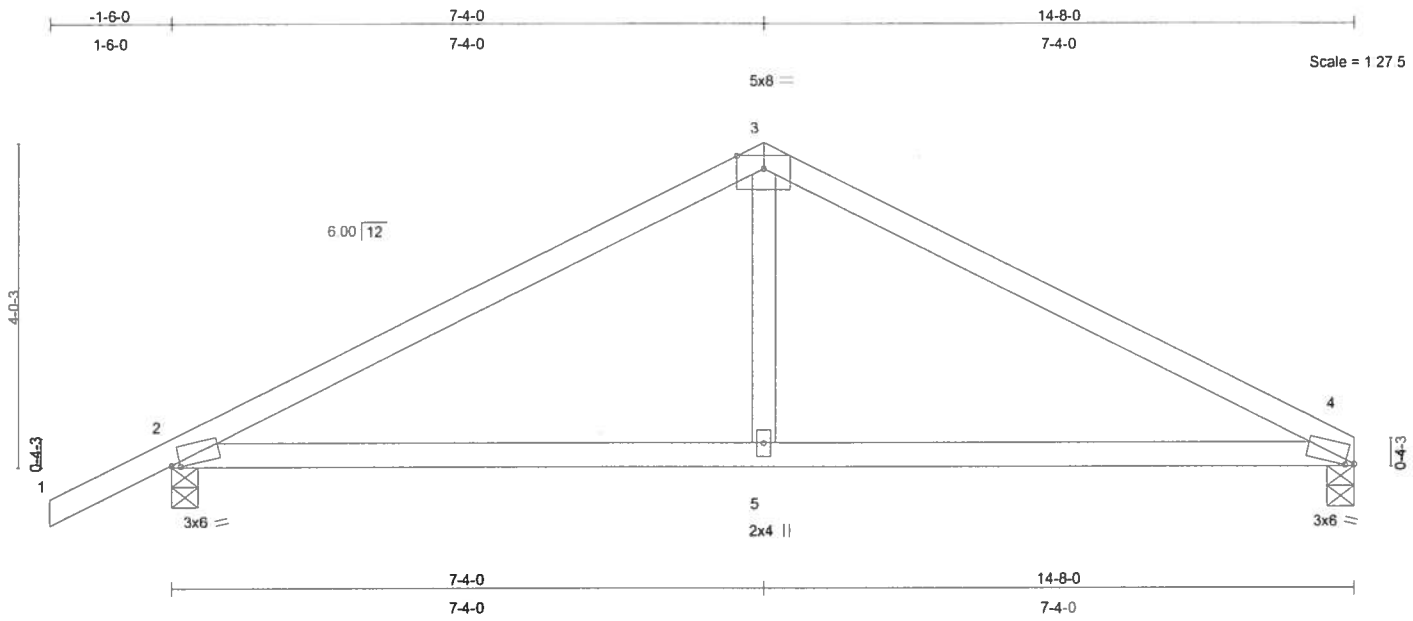


Plate Offsets (X,Y): [2:0-1-5,0-0-7], [4:0-1-5,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.08	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.13	4-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.01	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 54 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=453/0-4-0, 2=554/0-4-0
Max Horz 2=80(load case 6)
Max Uplift 4=-99(load case 7), 2=-175(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-683/388, 3-4=-680/385
BOT CHORD 2-5=-238/536, 4-5=-238/536
WEBS 3-5=0/253

JOINT STRESS INDEX
2 = 0.86, 3 = 0.82, 4 = 0.86 and 5 = 0.18

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. 31809
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899167
L252570	T06	COMMON	1	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 4 and 175 lb uplift at joint 2.

LOAD CASE(S) Standard

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

October 10,2007

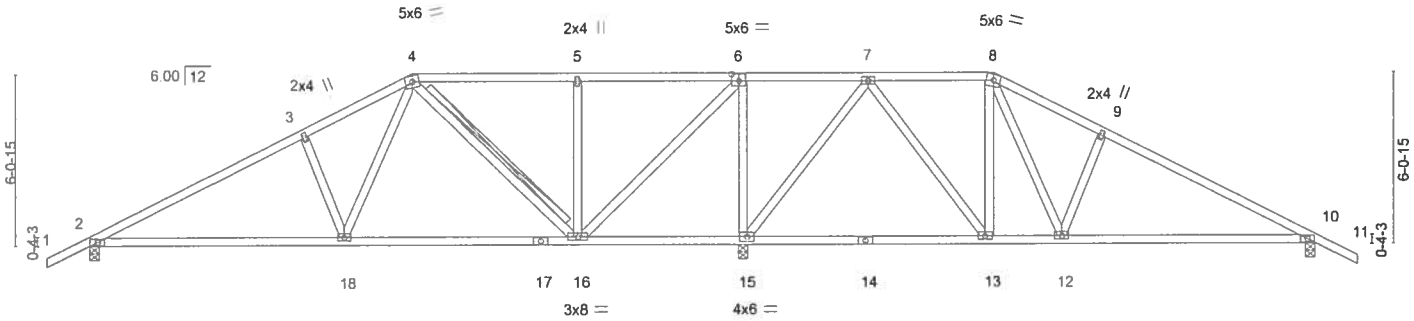
Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899168
L252570	T07	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:43 2007 Page 1

1-6-0	7-7-5	11-5-8	17-3-12	23-2-0	27-7-4	32-0-8	35-10-11	43-6-0	45-0-0
1-6-0	7-7-5	3-10-3	5-10-4	5-10-4	4-5-4	4-5-4	3-10-3	7-7-5	1-6-0

Scale = 1.78.8

WARNING: This truss is not symmetrical and must be installed as shown.



9-0-5	17-3-12	23-2-0	32-0-8	34-5-11	43-6-0
9-0-5	8-3-7	5-10-4	8-10-8	2-5-3	9-0-5

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.14	10-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.28	10-12	>870	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.78	Horz(TL)	0.02	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 236 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 5-11-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-16
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=668/0-4-0, 15=1719/0-4-0, 10=555/0-4-0
Max Horz 2=94(load case 6)
Max Uplift 2=-212(load case 6), 15=-335(load case 5), 10=-212(load case 7)
Max Grav 2=697(load case 10), 15=1719(load case 1), 10=589(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-939/481, 3-4=-787/528, 4-5=-194/229, 5-6=-194/229, 6-7=-143/610, 7-8=-262/267, 8-9=-554/408, 9-10=-704/361, 10-11=0/35
BOT CHORD 2-18=-259/756, 17-18=-92/483, 16-17=-92/483, 15-16=-586/481, 14-15=-111/219, 13-14=-111/219, 12-13=0/271, 10-12=-152/549
WEBS 3-18=-301/304, 4-18=-262/428, 4-16=-447/239, 5-16=-335/239, 6-16=-510/987, 6-15=-978/561, 7-15=-829/454, 7-13=-225/505, 8-13=-370/226, 8-12=-304/424, 9-12=-320/314

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899168
L252570	T07	HIP	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.65, 3 = 0.33, 4 = 0.30, 5 = 0.33, 6 = 0.48, 7 = 0.40, 8 = 0.30, 9 = 0.33, 10 = 0.64, 12 = 0.47, 13 = 0.40, 14 = 0.47, 15 = 0.27, 16 = 0.95, 17 = 0.18 and 18 = 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; 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 212 lb uplift at joint 2, 335 lb uplift at joint 15 and 212 lb uplift at joint 10.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL
					J1899169
L252570	T08	SPECIAL	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 10:34:41 2007 Page 1

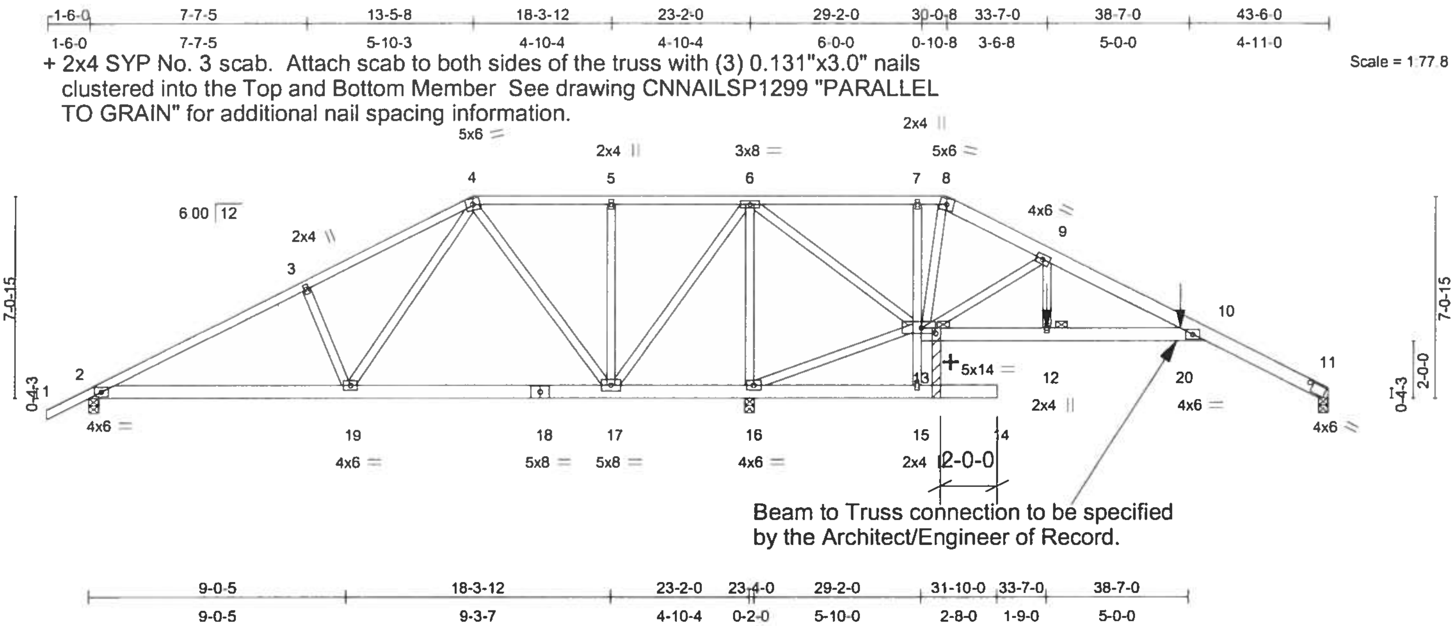


Plate Offsets (X,Y): [13:0-6-0,0-2-4], [15:12-4-1,6-3-2]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.13	10-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.24	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.51	Horz(TL)	0.10	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 576 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2 *Except*
8-11 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
7-15 2 X 4 SYP No.3
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 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 14-15.
1 Row at midpt 10-13
JOINTS 1 Brace at Jt(s): 13

REACTIONS (lb/size) 11=308/0-4-0, 2=-102/0-4-0, 16=3829/0-4-0
Max Horz 2=118(load case 5)
Max Uplift 11=-94(load case 6), 2=-540(load case 10), 16=-767(load case 3)
Max Grav 11=318(load case 10), 2=146(load case 3), 16=3829(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/39, 2-3=-384/1442, 3-4=-357/1473, 4-5=-482/2176, 5-6=-482/2176, 6-7=-465/2032, 7-8=-472/2054, 8-9=-505/2116, 9-10=-213/897, 10-11=-129/67

BOT CHORD 2-19=-1266/440, 18-19=-1436/511, 17-18=-1436/511, 16-17=-3138/877, 15-16=-128/33, 14-15=0/0, 13-15=0/142, 7-13=-454/154, 12-13=-687/280, 12-20=-687/280, 10-20=-687/280

WEBS 3-19=-343/199, 4-19=-160/547, 4-17=-1478/336, 5-17=-266/116, 6-17=-320/1781, 6-16=-2638/530, 13-16=-3181/893, 6-13=-261/1422, 8-13=-740/195, 9-13=-1418/427, 9-12=-197/890

Truss Design Engineer

JOINT STRESS INDEX

2 = 0.31, 3 = 0.34, 4 = 0.39, 5 = 0.34, 6 = 0.91, 7 = 0.34, 8 = 0.28, 9 = 0.30, 10 = 0.65, 12 = 0.34, 13 = 0.96, 15 = 0.87, 15 = 0.00, 16 = 0.44, 17 = 0.44, 18 = 0.07 and 19 = 0.29

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899169
L252570	T08	SPECIAL	1	2	Job Reference (optional)

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
   Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 11, 540 lb uplift at joint 2 and 767 lb uplift at joint 16.

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-8=-54, 8-10=-54, 10-11=-65, 2-15=-10, 14-15=-10, 10-13=-10
   Concentrated Loads (lb)
   Vert: 12=-650(F) 20=-500(F)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899170
L252570	T09	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:45 2007 Page 1

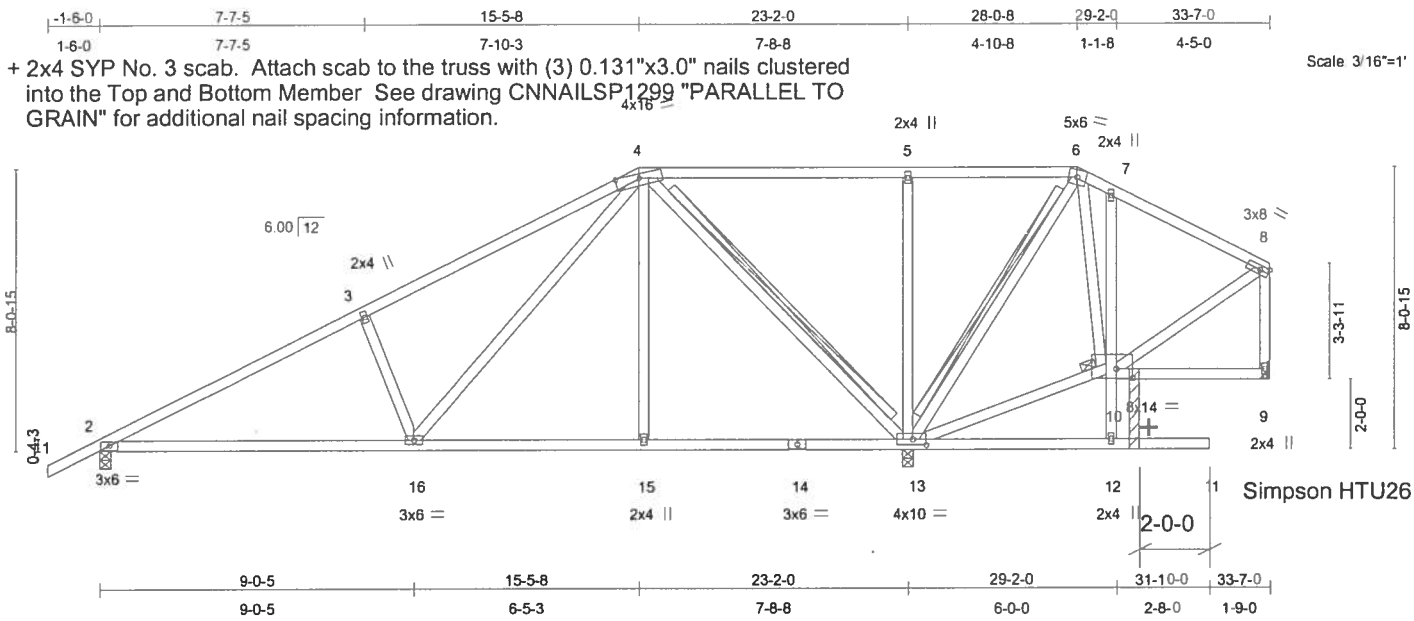


Plate Offsets (X,Y): [10:0-5-9,0-3-2], [13:0-4-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.14	2-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.37	Vert(TL)	-0.28	2-16	>980	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.77	Horz(TL)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 221 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 7-12 2 X 4 SYP No.3
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.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-13, 6-13
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.
JOINTS 1 Brace at Jt(s): 10

REACTIONS (lb/size) 2=688/0-4-0, 9=2/Mechanical, 13=1557/0-4-0
Max Horz 2=231(load case 6)
Max Uplift 2=-206(load case 6), 9=-147(load case 10), 13=-447(load case 6)
Max Grav 2=691(load case 10), 9=162(load case 11), 13=1557(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-939/416, 3-4=-795/486, 4-5=-154/400, 5-6=-160/409, 6-7=-57/205, 7-8=-89/193, 8-9=-137/167
BOT CHORD 2-16=-523/762, 15-16=-114/251, 14-15=-113/252, 13-14=-113/252, 12-13=-43/0, 11-12=0/0, 10-12=0/156, 7-10=-181/168, 9-10=-20/27
WEBS 3-16=-381/390, 4-16=-421/587, 4-15=0/202, 4-13=-905/568, 5-13=-367/249, 6-13=-502/278, 10-13=-179/178, 6-10=-160/269, 8-10=-205/172

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899170
L252570	T09	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.66, 3 = 0.33, 4 = 0.35, 5 = 0.33, 6 = 0.31, 7 = 0.33, 8 = 0.82, 9 = 0.38, 10 = 0.13, 12 = 0.68, 13 = 0.73, 14 = 0.33, 15 = 0.33 and 16 = 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; 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 206 lb uplift at joint 2, 147 lb uplift at joint 9 and 447 lb uplift at joint 13.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899171
L252570	T10	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:46 2007 Page 1

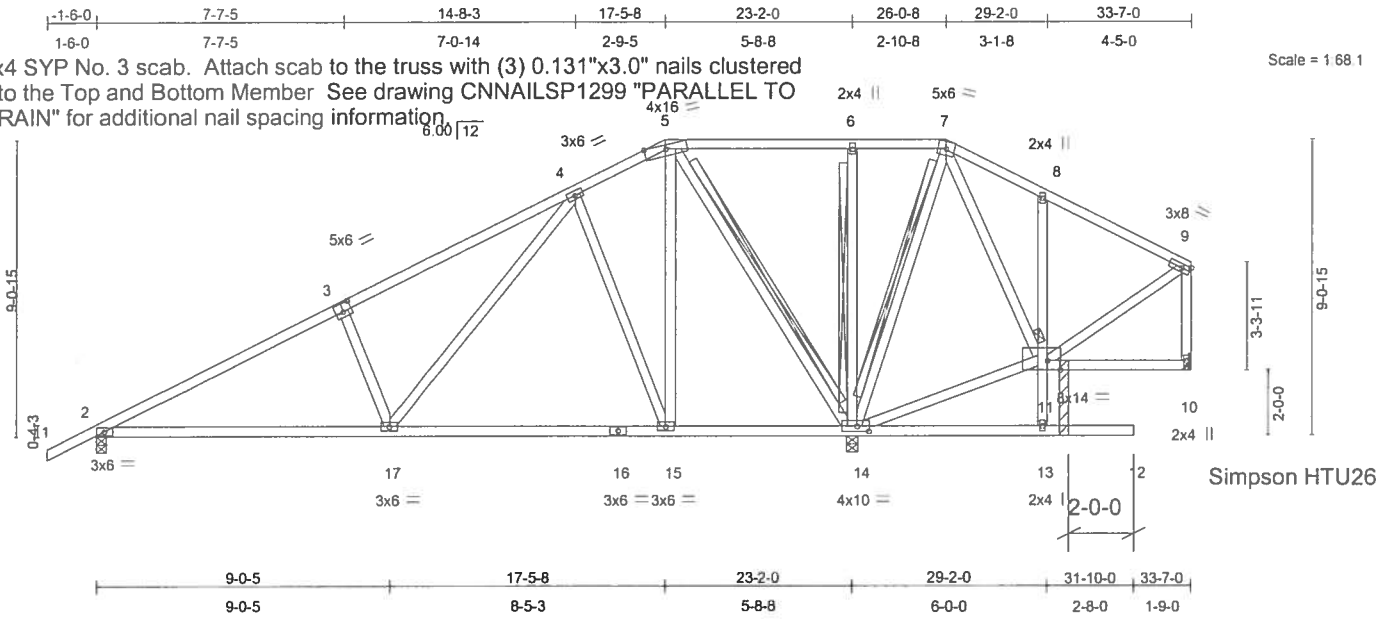


Plate Offsets (X,Y): [3:0-3-0,0-3-0], [11:0-4-13,0-3-6], [14:0-4-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.12	2-17	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.25	2-17	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.01	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 236 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* 8-13 2 X 4 SYP No.3
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.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-14, 6-14, 7-14
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.
JOINTS 1 Brace at Jt(s): 11

REACTIONS (lb/size) 2=668/0-4-0, 10=-45/Mechanical, 14=1625/0-4-0
Max Horz 2=242(load case 6)
Max Uplift 2=-191(load case 6), 10=-219(load case 10), 14=-355(load case 6)
Max Grav 2=673(load case 10), 10=155(load case 11), 14=1625(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-903/384, 3-4=-758/448, 4-5=-105/149, 5-6=-130/420, 6-7=-135/427, 7-8=-71/252, 8-9=-113/260, 9-10=-129/238
BOT CHORD 2-17=-493/730, 16-17=-121/239, 15-16=-121/239, 14-15=-19/66, 13-14=-32/0, 12-13=0/0, 11-13=0/171, 8-11=-224/231, 10-11=-19/26
WEBS 3-17=-378/379, 4-17=-386/582, 4-15=-495/432, 5-15=-353/525, 5-14=-849/513, 6-14=-291/203, 7-14=-500/285, 11-14=-308/263, 7-11=-224/345, 9-11=-275/201

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899171
L252570	T10	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.58, 3 = 0.80, 4 = 0.45, 5 = 0.63, 6 = 0.33, 7 = 0.29, 8 = 0.33, 9 = 0.79, 10 = 0.39, 11 = 0.21, 13 = 0.44, 14 = 0.71, 15 = 0.47, 16 = 0.15 and 17 = 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; 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 191 lb uplift at joint 2, 219 lb uplift at joint 10 and 355 lb uplift at joint 14.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL
L252570	T11	SPECIAL	1	2	J1899172 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 10:39:21 2007 Page 1

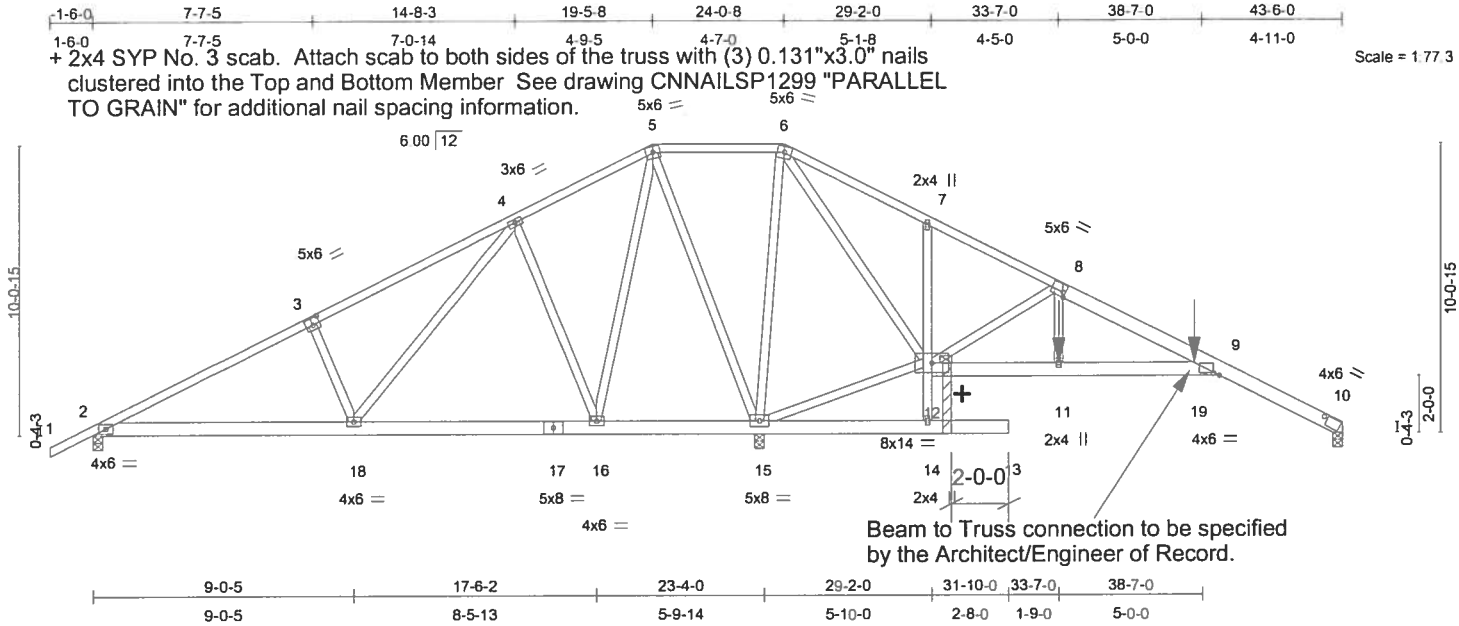


Plate Offsets (X,Y): [3:0-3-0,0-3-0], [8:Edge,0-2-0], [9:3-11-5,0-5-8], [9:0-2-8,0-0-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.11	9-11	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.19	9-11	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.68	Horz(TL)	0.07	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 595 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2 *Except* 8-10 2 X 6 SYP No.1D
BOT CHORD	2 X 6 SYP No.1D *Except* 7-14 2 X 4 SYP No.3
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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 13-14.
JOINTS	1 Brace at Jt(s): 12

REACTIONS (lb/size) 2=-151/0-4-0, 15=3930/0-4-0, 10=256/0-4-0
Max Horz 2=154(load case 5)
Max Uplift 2=-665(load case 10), 15=-858(load case 6), 10=-81(load case 6)
Max Grav 2=172(load case 3), 15=3930(load case 1), 10=272(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/39, 2-3=-437/1713, 3-4=-409/1748, 4-5=-386/2013, 5-6=-435/2304, 6-7=-450/2290, 7-8=-543/2293, 8-9=-266/1116, 9-10=-108/61
BOT CHORD	2-18=-1506/525, 17-18=-1717/582, 16-17=-1717/582, 15-16=-1831/642, 14-15=-101/27, 13-14=0/0, 12-14=0/153, 7-12=-274/160, 11-12=-852/321, 11-19=-897/331, 9-19=-897/331
WEBS	3-18=-376/214, 4-18=-192/614, 4-16=-559/259, 5-16=-193/560, 5-15=-1677/407, 6-15=-1545/362, 12-15=-2178/727, 6-12=-86/350, 8-12=-1348/407, 8-11=-192/873

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

JOINT STRESS INDEX

2 = 0.28, 3 = 0.52, 4 = 0.46, 5 = 0.34, 6 = 0.41, 7 = 0.34, 8 = 0.64, 9 = 0.49, 9 = 0.00, 11 = 0.34, 12 = 0.34, 14 = 0.63, 15 = 0.30, 16 = 0.38, 17 = 0.07 and 18 = 0.33

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL
					J1899172
L252570	T11	SPECIAL	1	2	Job Reference (optional)

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
   Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 665 lb uplift at joint 2, 858 lb uplift at joint 15 and 81 lb uplift at joint 10.

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-6=-54, 6-9=-54, 9-10=-65, 2-14=-10, 13-14=-10, 9-12=-10
   Concentrated Loads (lb)
   Vert: 11=-650(F) 19=-500(F)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899173
L252570	T12	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:48 2007 Page 1

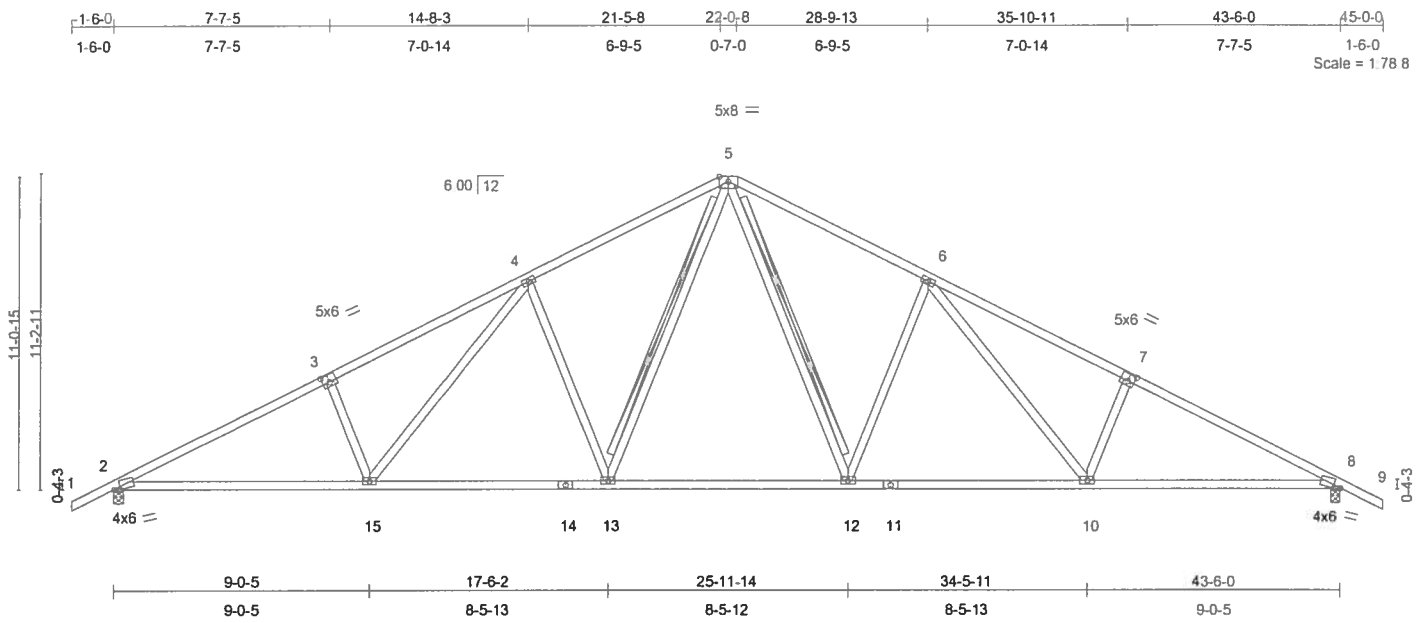


Plate Offsets (X,Y): [2:0-2-13,0-0-11], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-2-13,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	0.24	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.40	12-13	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.14	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 237 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 3-4-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-8 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-13, 5-12
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=1471/0-4-0, 8=1471/0-4-0
Max Horz 2=-155(load case 7)
Max Uplift 2=-374(load case 6), 8=-374(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2630/1469, 3-4=-2481/1530, 4-5=-1890/1289, 5-6=-1890/1289, 6-7=-2481/1530, 7-8=-2630/1469, 8-9=0/35
BOT CHORD 2-15=-1140/2263, 14-15=-798/1819, 13-14=-798/1819, 12-13=-456/1377, 11-12=-798/1819, 10-11=-798/1819, 8-10=-1140/2263
WEBS 3-15=-341/350, 4-15=-352/532, 4-13=-588/503, 5-13=-449/676, 5-12=-449/676, 6-12=-588/503, 6-10=-352/532, 7-10=-341/350

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

JOINT STRESS INDEX
2 = 0.85, 3 = 0.83, 4 = 0.45, 5 = 0.57, 6 = 0.45, 7 = 0.83, 8 = 0.85, 10 = 0.47, 11 = 0.59, 12 = 0.59, 13 = 0.59, 14 = 0.59 and 15 = 0.47

Continued on page 2

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899173
L252570	T12	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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 3x6 MT20 unless otherwise indicated.
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 374 lb uplift at joint 2 and 374 lb uplift at joint 8.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899174
L252570	T13	COMMON	4	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:50 2007 Page 1

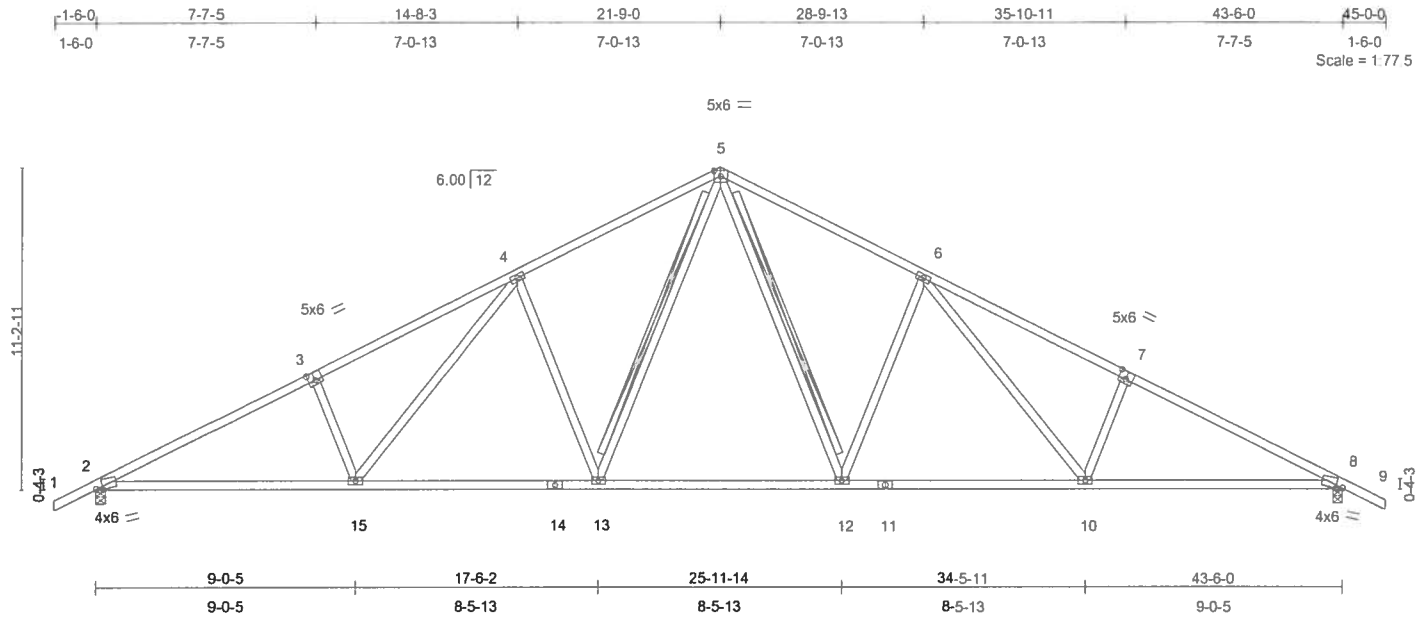


Plate Offsets (X,Y): [2:0-2-13,0-0-11], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-2-13,0-0-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	0.24	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.40	12-13	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.14	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 237 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 3-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-6 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-13, 5-12
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=1469/0-4-0, 8=1469/0-4-0
Max Horz 2=-154(load case 7)
Max Uplift 2=-372(load case 6), 8=-372(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2631/1470, 3-4=-2482/1532, 4-5=-1891/1290, 5-6=-1891/1290, 6-7=-2482/1532, 7-8=-2631/1470, 8-9=0/35
BOT CHORD 2-15=-1142/2264, 14-15=-801/1820, 13-14=-801/1820, 12-13=-458/1378, 11-12=-801/1820, 10-11=-801/1820, 8-10=-1142/2264
WEBS 3-15=-341/350, 4-15=-354/532, 4-13=-588/503, 5-13=-449/676, 5-12=-449/676, 6-12=-588/503, 6-10=-354/532, 7-10=-341/350

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

JOINT STRESS INDEX
2 = 0.85, 3 = 0.83, 4 = 0.45, 5 = 0.68, 6 = 0.45, 7 = 0.83, 8 = 0.85, 10 = 0.47, 11 = 0.59, 12 = 0.59, 13 = 0.59, 14 = 0.59 and 15 = 0.47

Continued on page 2

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899174
L252570	T13	COMMON	4	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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All plates are 3x6 MT20 unless otherwise indicated.
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 372 lb uplift at joint 2 and 372 lb uplift at joint 8.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899175
L252570	T14	SPECIAL	9	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:51 2007 Page 1

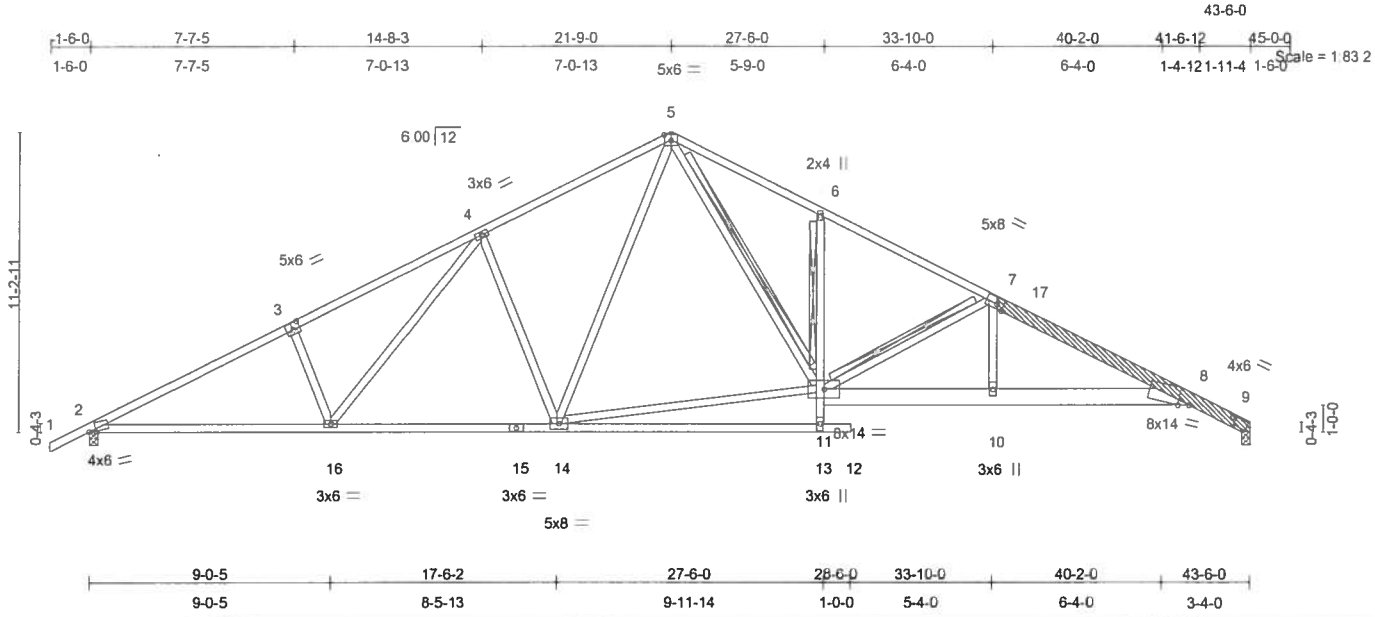


Plate Offsets (X,Y): [2:0-3-1,0-0-11], [3:0-3-0,0-3-0], [7:0-3-0,Edge], [7:9-9-14,0-5-4], [8:0-5-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	0.40	12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.84	Vert(TL)	-0.59	13-14	>879	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.95	Horz(TL)	0.32	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 299 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2 *Except* 7-9 2 X 6 SYP No.1D
BOT CHORD	2 X 4 SYP No.2 *Except* 6-13 2 X 4 SYP No.3, 8-11 2 X 8 SYP 2400F 2.0E
WEBS	2 X 4 SYP No.3
LBR SCAB	7-9 2 X 6 SYP No.1D one side

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-4-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-7-10 oc bracing. Except: T-Brace: 2 X 4 SYP No.3 - 6-11
WEBS	T-Brace: 2 X 4 SYP No.3 - 5-11, 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=1475/0-4-0, 9=1390/0-4-0
Max Horz 2=165(load case 6)
Max Uplift 2=-370(load case 6), 9=-296(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/35, 2-3=-2643/1471, 3-4=-2494/1532, 4-5=-1901/1287, 5-6=-2289/1536, 6-7=-2332/1386, 7-17=-3203/1851, 8-17=-3348/1830, 8-9=-636/375
BOT CHORD	2-16=-1200/2274, 15-16=-859/1833, 14-15=-859/1833, 13-14=-76/341, 12-13=0/0, 11-13=0/185, 6-11=-313/300, 10-11=-1541/3013, 8-10=-1535/2995
WEBS	3-16=-341/348, 4-16=-354/531, 4-14=-586/510, 5-14=-387/578, 11-14=-462/1143, 5-11=-708/1115, 7-11=-1152/737, 7-10=-168/494

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

October 10,2007

Continued on page 2

JOINT STRESS INDEX

2 = 0.84, 3 = 0.82, 4 = 0.45, 5 = 0.60, 6 = 0.37, 7 = 0.51, 7 = 0.00, 7 = 0.00, 8 = 0.60, 8 = 0.00, 9 = 0.00, 9 = 0.00, 10 = 0.16, 11 = 0.71, 13 = 0.85, 14 = 0.46, 15 = 0.59 and 16 = 0.47

NOTES

1) Attached 10-9-10 scab 7 to 9, front face(s) 2 X 6 SYP No.1D with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 7-0-3 from end at joint 7, nail 2 row(s) at 2 o.c. for 2-0-0.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS 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.
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) Bearing at joint(s) 9 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 370 lb uplift at joint 2 and 296 lb uplift at joint 9.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899176
L252570	T15	SPECIAL	1	2	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:52 2007 Page 1

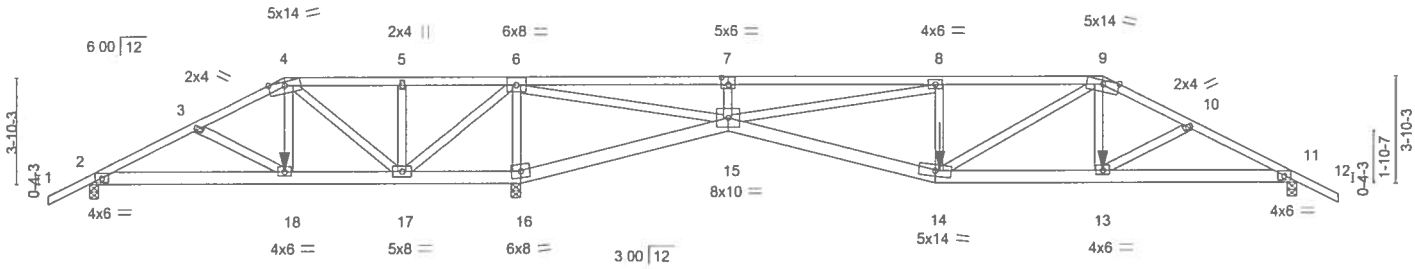


Plate Offsets (X,Y): [7:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	-0.11	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.19	Vert(TL)	-0.21	14-15	>999	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.75	Horz(TL)	0.04	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 514 lb	

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

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

REACTIONS (lb/size) 2=100/0-4-0, 16=4469/0-4-0, 11=1394/0-4-0
Max Horz 2=70(load case 5)
Max Uplift 2=-296(load case 5), 16=-1696(load case 4), 11=-460(load case 6)
Max Grav 2=119(load case 9), 16=4469(load case 1), 11=1397(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/39, 2-3=0/580, 3-4=0/611, 4-5=-423/1835, 5-6=-423/1835, 6-7=-883/283, 7-8=-883/283, 8-9=-2394/854, 9-10=-2433/821, 10-11=-2571/816, 11-12=0/39
BOT CHORD 2-18=-509/41, 17-18=-500/26, 16-17=-3576/1252, 15-16=-3864/1367, 14-15=-779/2453, 13-14=-672/2195, 11-13=-681/2238
WEBS 3-18=-164/103, 4-18=-318/589, 4-17=-1823/680, 5-17=-402/210, 6-17=-1002/2352, 6-16=-3246/1348, 6-15=-1529/4675, 7-15=-915/479, 8-15=-1543/570, 8-14=-528/319, 9-14=-134/307, 9-13=-125/525, 10-13=-74/76

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

JOINT STRESS INDEX
2 = 0.17, 3 = 0.33, 4 = 0.36, 5 = 0.33, 6 = 0.81, 7 = 0.54, 8 = 0.27, 9 = 0.45, 10 = 0.33, 11 = 0.40, 13 = 0.24, 14 = 0.36, 15 = 0.60, 16 = 0.81, 17 = 0.54 and 18 = 0.24

October 10,2007

Continued on page 2

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
   Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) All 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 296 lb uplift at joint 2, 1696 lb uplift at joint 16 and 460 lb uplift at joint 11.
9) Girder carries hip end with 7-0-0 end setback.

LOAD CASE(S) Standard

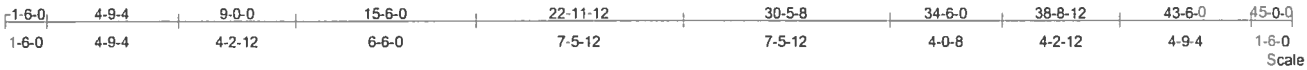
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-9=-117(F=-63), 9-12=-54, 2-18=-10, 16-18=-22(F=-12), 15-16=-22(F=-12), 14-15=-22(F=-12), 13-14=-22(F=-12), 11-13=-10
   Concentrated Loads (lb)
   Vert: 18=-411(F) 13=-411(F)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899177
L252570	T16	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:53 2007 Page 1



Scale = 1 80 2

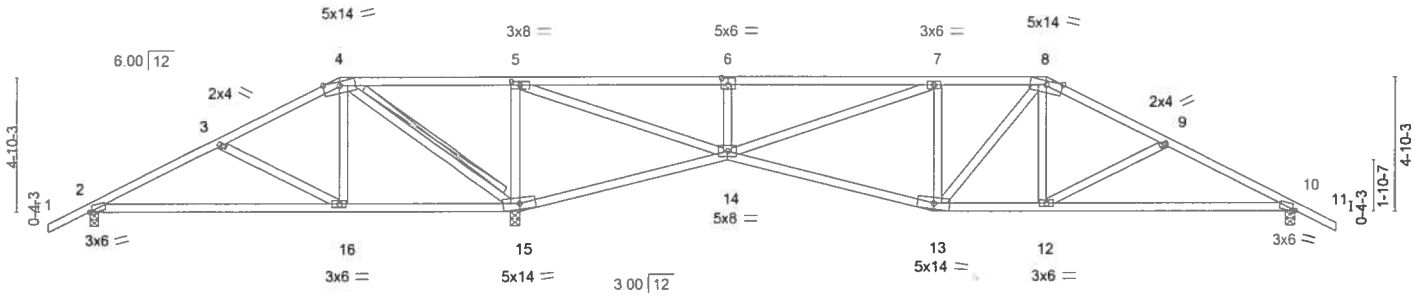


Plate Offsets (X,Y): [2:0-1-5,0-0-7], [5:0-3-8,0-1-8], [6:0-3-0,0-3-0], [10:0-1-1,0-0-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.23	2-16	>792	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.26	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.83	Horz(TL)	0.04	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 224 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-15
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=236/0-4-0, 15=1916/0-4-0, 10=791/0-4-0
Max Horz 2=80(load case 6)
Max Uplift 2=-336(load case 6), 15=-654(load case 5), 10=-220(load case 7)
Max Grav 2=267(load case 10), 15=1916(load case 1), 10=798(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-107/431, 3-4=0/431, 4-5=-445/1103, 5-6=-517/225, 6-7=-520/227, 7-8=-874/560, 8-9=-983/542, 9-10=-1246/669, 10-11=0/35
BOT CHORD 2-16=-303/50, 15-16=-363/23, 14-15=-1178/782, 13-14=-279/903, 12-13=-244/833, 10-12=-461/1058
WEBS 3-16=-272/307, 4-16=-442/300, 4-15=-1049/911, 5-15=-969/524, 5-14=-727/1700, 6-14=-425/309, 7-14=-404/348, 7-13=-250/120, 8-13=-92/160, 8-12=-63/265, 9-12=-260/246

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899177
L252570	T16	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.84, 3 = 0.33, 4 = 0.64, 5 = 0.65, 6 = 0.59, 7 = 0.34, 8 = 0.24, 9 = 0.33, 10 = 0.87, 12 = 0.34, 13 = 0.28, 14 = 0.74, 15 = 0.76 and 16 = 0.34

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 336 lb uplift at joint 2, 654 lb uplift at joint 15 and 220 lb uplift at joint 10.

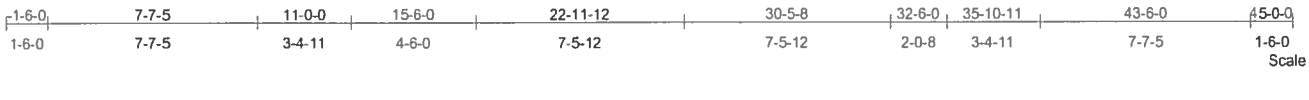
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34160
106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899178
L252570	T17	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:54 2007 Page 1



Scale = 1:80.2

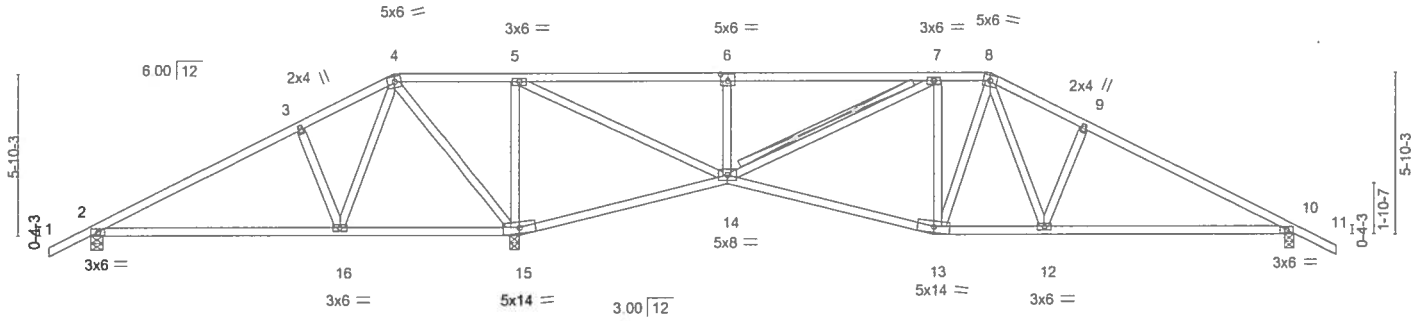


Plate Offsets (X,Y): [6:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.55	Vert(LL)	0.29	2-16	>630	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.28	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.03	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 231 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 7-14
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=240/0-5-8, 15=1909/0-4-0, 10=793/0-4-0
Max Horz 2=92(load case 6)
Max Uplift 2=-331(load case 6), 15=-625(load case 5), 10=-229(load case 7)
Max Grav 2=287(load case 10), 15=1909(load case 1), 10=807(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/36, 2-3=-41/440, 3-4=0/452, 4-5=-358/903, 5-6=-431/177, 6-7=-434/179, 7-8=-739/498, 8-9=-1030/636, 9-10=-1179/591, 10-11=0/35
BOT CHORD 2-16=-366/47, 15-16=-464/248, 14-15=-966/742, 13-14=-165/766, 12-13=-143/709, 10-12=-356/971
WEBS 3-16=-332/351, 4-16=-691/434, 4-15=-808/714, 5-15=-987/531, 5-14=-610/1430, 6-14=-431/310, 7-14=-384/352, 7-13=-263/127, 8-13=-97/187, 8-12=-291/428, 9-12=-330/322

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899178
L252570	T17	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.54, 3 = 0.33, 4 = 0.30, 5 = 0.80, 6 = 0.59, 7 = 0.34, 8 = 0.30, 9 = 0.33, 10 = 0.69, 12 = 0.48, 13 = 0.34, 14 = 0.76, 15 = 0.76 and 16 = 0.48

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 331 lb uplift at joint 2, 625 lb uplift at joint 15 and 229 lb uplift at joint 10.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899179
L252570	T18	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:55 2007 Page 1

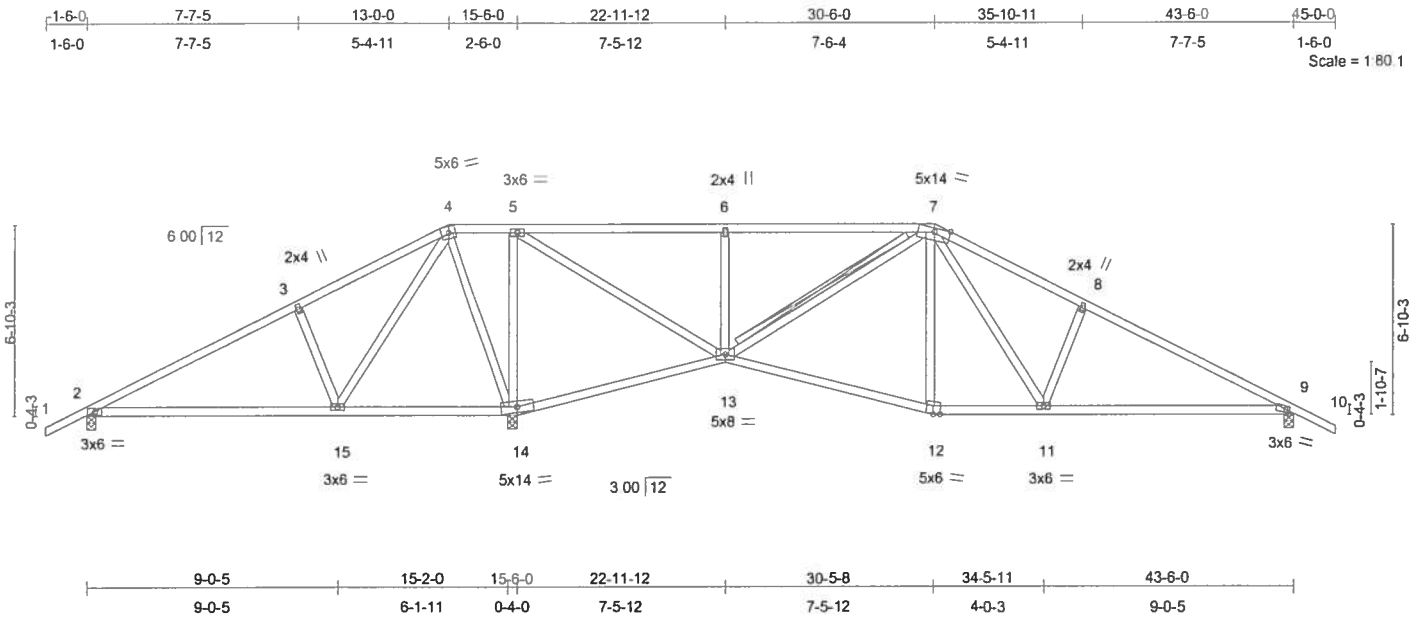


Plate Offsets (X,Y): [9:0-1-12,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	0.30	2-15	>609	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.32	Vert(TL)	-0.28	9-11	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.82	Horz(TL)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 234 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 7-13
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=240/0-4-0, 14=1910/0-4-0, 9=793/0-4-0
Max Horz 2=104(load case 6)
Max Uplift 2=-317(load case 6), 14=-588(load case 5), 9=-234(load case 7)
Max Grav 2=306(load case 10), 14=1910(load case 1), 9=816(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-92/443, 3-4=0/463, 4-5=-299/770, 5-6=-380/150, 6-7=-380/150, 7-8=-1044/633, 8-9=-1194/579, 9-10=0/35
BOT CHORD 2-15=-369/60, 14-15=-521/456, 13-14=-825/731, 12-13=-71/666, 11-12=-65/637, 9-11=-346/983
WEBS 3-15=-360/377, 4-15=-791/511, 4-14=-712/656, 5-14=-1006/513, 5-13=-540/1258, 6-13=-442/310, 7-13=-366/361, 7-12=-118/47, 7-11=-318/452, 8-11=-312/321

Julius Lee
Truss Design Engineer
Florida PE No. 31983
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Continued on page 2

JOINT STRESS INDEX

2 = 0.54, 3 = 0.33, 4 = 0.29, 5 = 0.71, 6 = 0.33, 7 = 0.26, 8 = 0.33, 9 = 0.81, 11 = 0.47, 12 = 0.30, 13 = 0.77, 14 = 0.76 and 15 = 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 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 317 lb uplift at joint 2, 588 lb uplift at joint 14 and 234 lb uplift at joint 9.

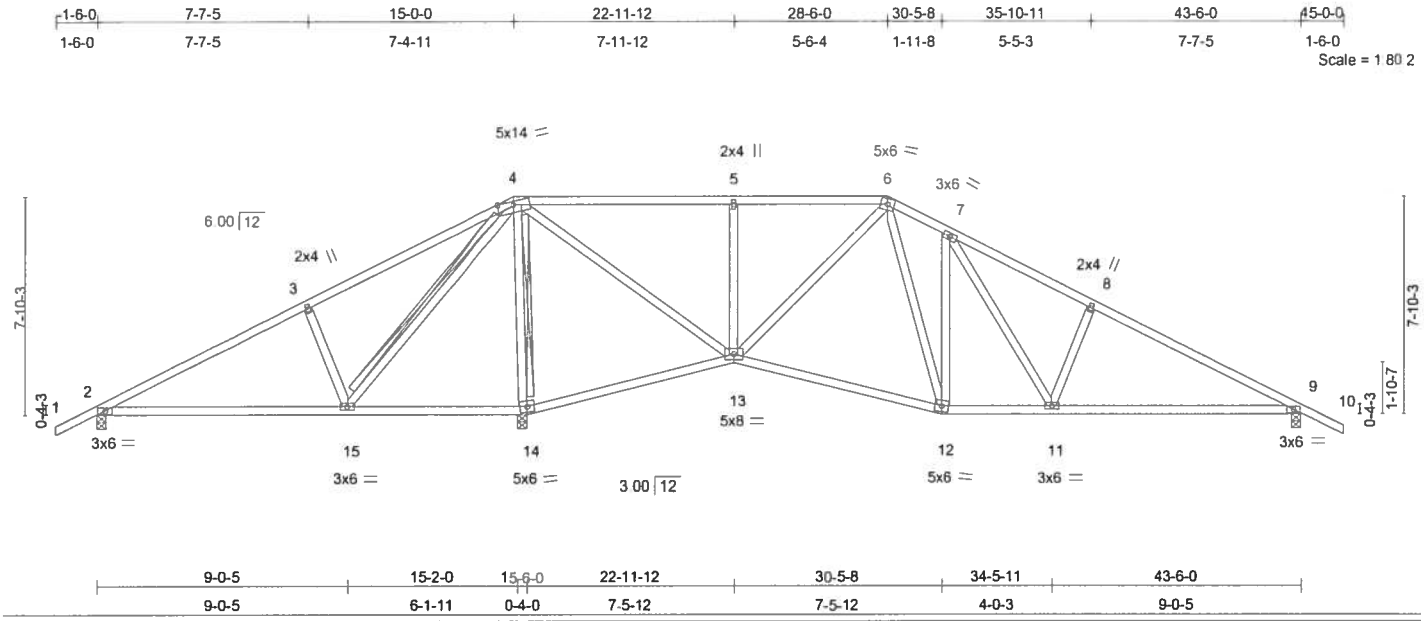
LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899180
L252570	T19	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:56 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	0.48	Vert(LL)	0.31	2-15	>600	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.28	9-11	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 241 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-15, 4-14
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=272/0-4-0, 14=1860/0-4-0, 9=810/0-4-0
Max Horz 2=116(load case 6)
Max Uplift 2=-308(load case 6), 14=-534(load case 6), 9=-241(load case 7)
Max Grav 2=351(load case 10), 14=1860(load case 1), 9=841(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-193/370, 3-4=-48/408, 4-5=-397/172, 5-6=-397/172, 6-7=-764/535, 7-8=-1104/648, 8-9=-1253/594, 9-10=0/35
BOT CHORD 2-15=-306/98, 14-15=-544/591, 13-14=-681/695, 12-13=0/602, 11-12=-68/673, 9-11=-360/1037
WEBS 3-15=-375/402, 4-15=-887/570, 4-14=-1637/1140, 4-13=-486/1166, 5-13=-410/271, 6-13=-329/343, 6-12=-362/361, 7-12=-441/372, 7-11=-333/476, 8-11=-339/338

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

JOINT STRESS INDEX
2 = 0.54, 3 = 0.33, 4 = 0.37, 5 = 0.33, 6 = 0.32, 7 = 0.39, 8 = 0.33, 9 = 0.69, 11 = 0.47, 12 = 0.39, 13 = 0.76, 14 = 0.78 and 15 = 0.47

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899180
L252570	T19	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 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 308 lb uplift at joint 2, 534 lb uplift at joint 14 and 241 lb uplift at joint 9.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899181
L252570	T20	SPECIAL	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:58 2007 Page 1

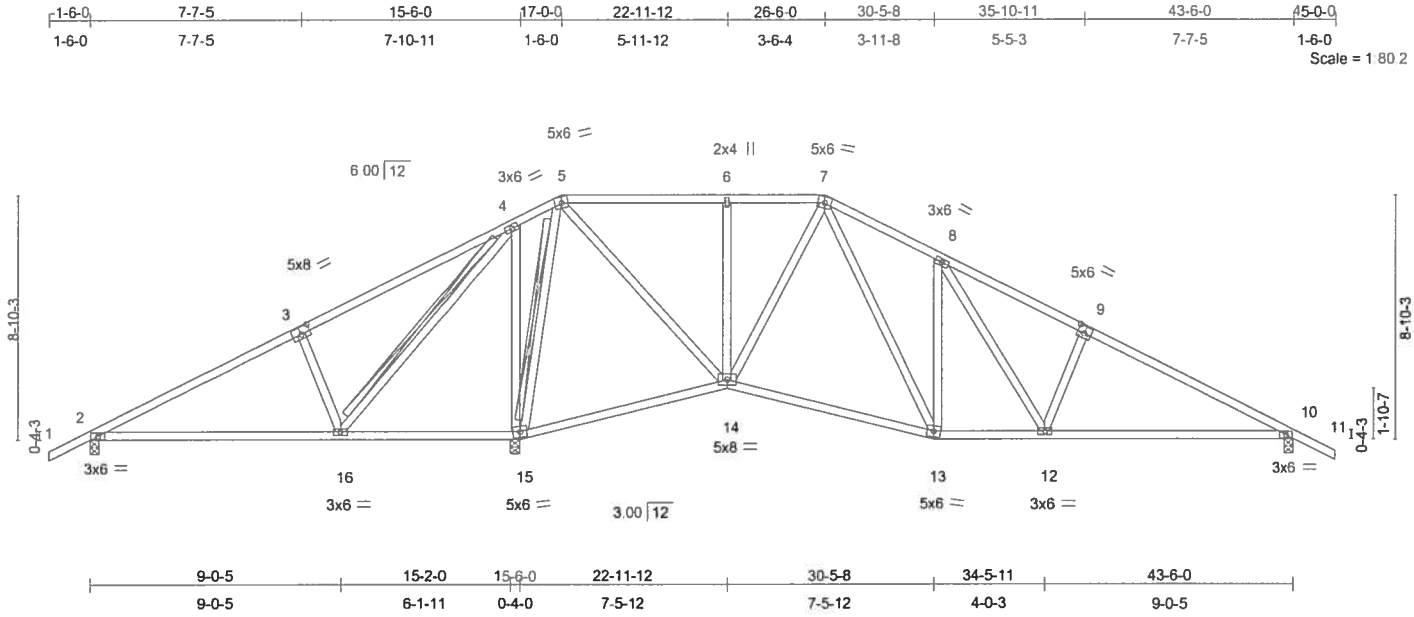


Plate Offsets (X,Y): [3:0-4-0,0-3-0], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	0.30	2-16	>618	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.34	Vert(TL)	-0.28	10-12	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.77	Horz(TL)	0.02	10	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 257 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-16, 5-15
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=271/0-4-0, 15=1862/0-4-0, 10=810/0-4-0
Max Horz 2=127(load case 6)
Max Uplift 2=-286(load case 6), 15=-589(load case 6), 10=-242(load case 7)
Max Grav 2=359(load case 10), 15=1862(load case 1), 10=849(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-219/320, 3-4=-76/358, 4-5=-208/644, 5-6=-345/148, 6-7=-345/148, 7-8=-816/551, 8-9=-1121/623, 9-10=-1271/570, 10-11=0/35
BOT CHORD 2-16=-259/124, 15-16=-577/672, 14-15=-412/630, 13-14=0/510, 12-13=-52/695, 10-12=-339/1053
WEBS 3-16=-401/420, 4-16=-920/608, 4-15=-581/736, 5-15=-1137/476, 5-14=-388/925, 6-14=-295/197, 7-14=-368/386, 7-13=-493/496, 8-13=-510/437, 8-12=-326/468, 9-12=-331/331

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899181
L252570	T20	SPECIAL	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.56, 3 = 0.72, 4 = 0.39, 5 = 0.44, 6 = 0.33, 7 = 0.29, 8 = 0.39, 9 = 0.66, 10 = 0.70, 12 = 0.47, 13 = 0.39, 14 = 0.78, 15 = 0.78 and 16 = 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 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 286 lb uplift at joint 2, 589 lb uplift at joint 15 and 242 lb uplift at joint 10.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34908
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899182
L252570	T21	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:20:59 2007 Page 1

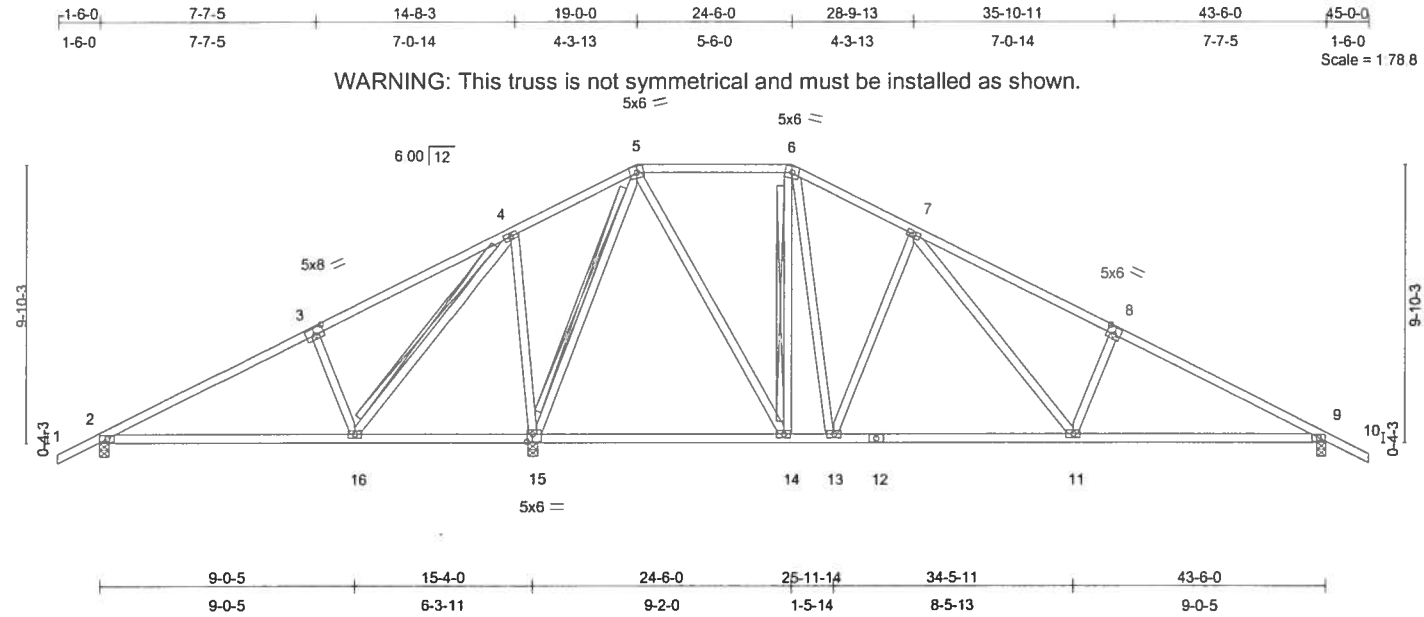


Plate Offsets (X,Y): [3:0-4-0,0-3-0], [8:0-3-0,0-3-0], [15:0-2-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.30	2-16	>603	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.25	2-16	>734	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 260 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-16, 5-15, 6-14
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=339/0-4-0, 15=1746/0-4-0, 9=858/0-4-0
Max Horz 2=139(load case 6)
Max Uplift 2=-281(load case 6), 15=-655(load case 6), 9=-251(load case 7)
Max Grav 2=415(load case 10), 15=1746(load case 1), 9=858(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-335/281, 3-4=-190/348, 4-5=-181/558, 5-6=-327/336, 6-7=-516/405, 7-8=-1158/690, 8-9=-1304/626, 9-10=0/35
BOT CHORD 2-16=-195/225, 15-16=-407/586, 14-15=-41/411, 13-14=0/335, 12-13=-25/602, 11-12=-25/602, 9-11=-392/1085
WEBS 3-16=-385/403, 4-16=-880/570, 4-15=-561/717, 5-15=-1196/669, 5-14=-414/727, 6-14=-542/398, 6-13=-400/517, 7-13=-544/460, 7-11=-382/575, 8-11=-369/373

Julius Lee
Truss Design Engineer
Florida PE No. 31988
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899182
L252570	T21	HIP	1	1	Job Reference (optional)

JOINT STRESS INDEX

2 = 0.58, 3 = 0.67, 4 = 0.38, 5 = 0.34, 6 = 0.31, 7 = 0.45, 8 = 0.81, 9 = 0.66, 11 = 0.47, 12 = 0.24, 13 = 0.47, 14 = 0.57, 15 = 0.63 and 16 = 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 281 lb uplift at joint 2, 655 lb uplift at joint 15 and 251 lb uplift at joint 9.

LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899183
L252570	T22	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:21:00 2007 Page 1

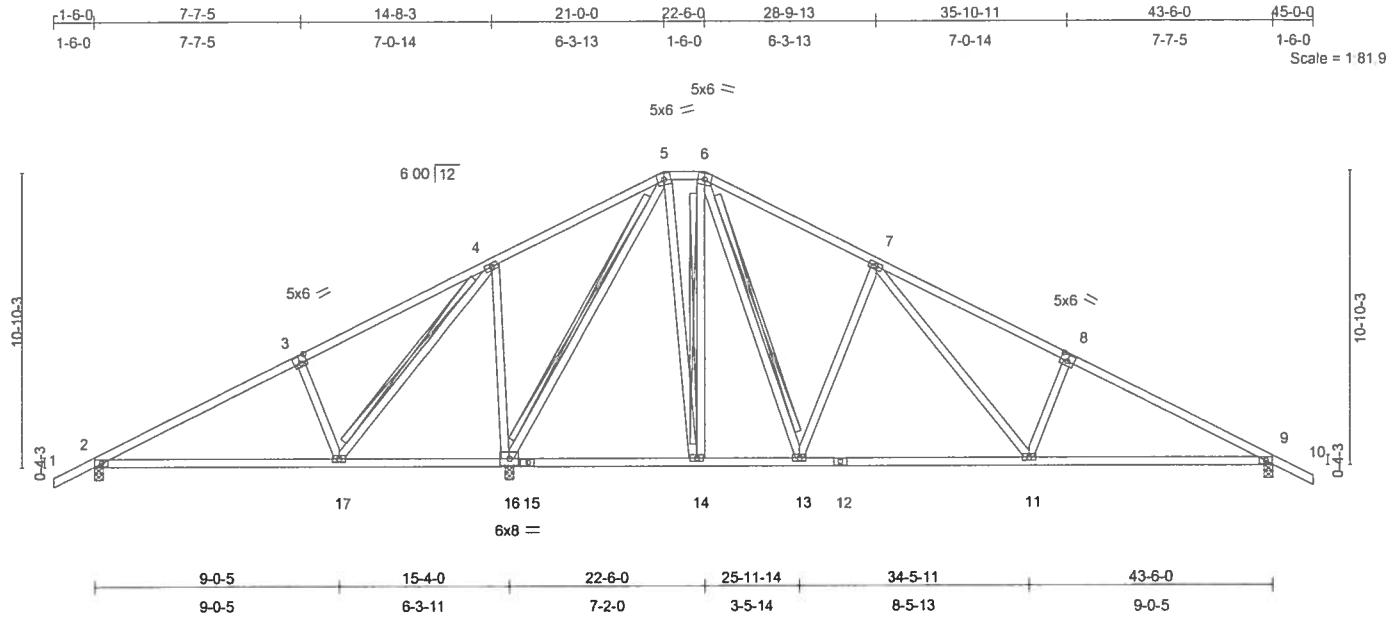


Plate Offsets (X,Y): [3:0-3-0,0-3-4], [8:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	0.31	2-17	>590	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.33	Vert(TL)	-0.25	9-11	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.97	Horz(TL)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 267 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-17, 5-16, 6-14, 6-13
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) 2=362/0-4-0, 16=1707/0-4-0, 9=874/0-4-0
Max Horz 2=151(load case 6)
Max Uplift 2=-276(load case 6), 16=-625(load case 6), 9=-256(load case 7)
Max Grav 2=427(load case 10), 16=1707(load case 1), 9=888(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-360/281, 3-4=-213/346, 4-5=-148/530, 5-6=-249/307, 6-7=-600/445, 7-8=-1218/702, 8-9=-1366/639, 9-10=0/35
BOT CHORD 2-17=-190/246, 16-17=-351/567, 15-16=0/326, 14-15=0/326, 13-14=0/278, 12-13=-48/670, 11-12=-48/670, 9-11=-403/1139
WEBS 3-17=-372/391, 4-17=-859/556, 4-16=-613/761, 5-16=-1178/653, 5-14=-331/658, 6-14=-601/366, 6-13=-459/628, 7-13=-582/507, 7-11=-368/559, 8-11=-357/363

Julius Lee
Truss Design Engineer
Florida PE No. 71808
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Continued on page 2

JOINT STRESS INDEX

2 = 0.56, 3 = 0.71, 4 = 0.40, 5 = 0.49, 6 = 0.37, 7 = 0.45, 8 = 0.77, 9 = 0.69, 11 = 0.47, 12 = 0.25, 13 = 0.57, 14 = 0.44, 15 = 0.16, 16 = 0.23 and 17 = 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 276 lb uplift at joint 2, 625 lb uplift at joint 16 and 256 lb uplift at joint 9.

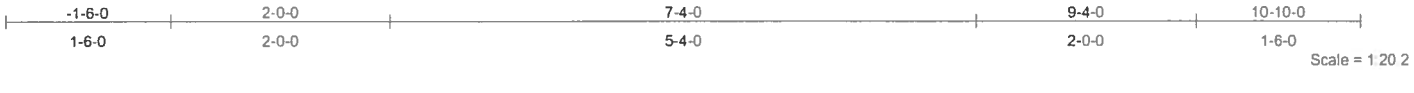
LOAD CASE(S) Standard

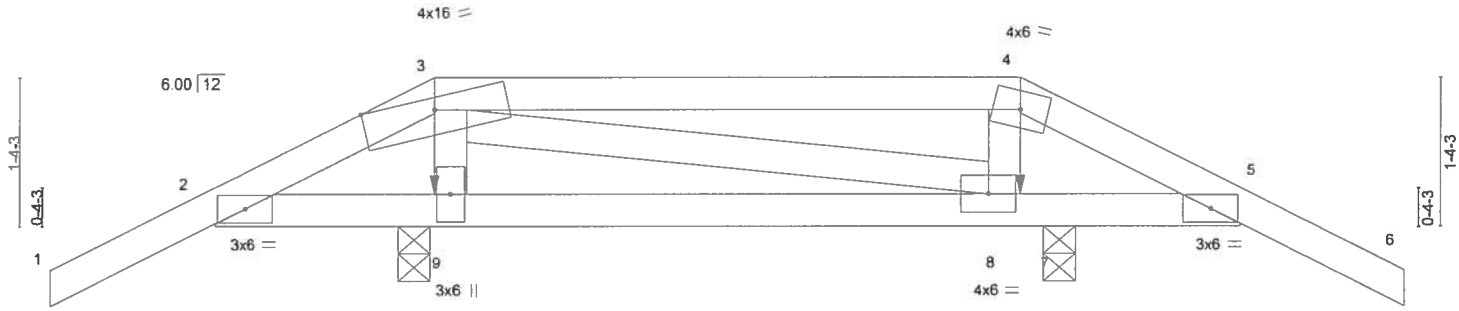
Julius Lee
Truss Design Engineer
Florida PE No. 34869
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

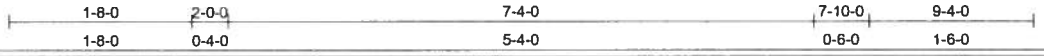
October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899184
L252570	T23	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 10:10:43 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	0.30	Vert(LL)	0.02	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.28	Vert(TL)	-0.03	8-9	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.10	Horz(TL)	-0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 lb	

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

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

REACTIONS (lb/size) 9=426/0-3-8, 7=355/0-3-8
Max Horz 9=39(load case 5)
Max Uplift 9=-290(load case 5), 7=-259(load case 6)
Max Grav 9=461(load case 9), 7=403(load case 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-213/264, 3-4=-109/144, 4-5=-123/155, 5-6=0/35
BOT CHORD 2-9=-192/238, 8-9=-244/227, 7-8=-106/165, 5-7=-106/165
WEBS 3-9=-411/202, 3-8=-224/277, 4-8=-276/98

JOINT STRESS INDEX
2 = 0.29, 3 = 0.80, 4 = 0.66, 5 = 0.10, 8 = 0.12 and 9 = 0.07

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; cantilever left and right exposed ; porch left and right 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 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 290 lb uplift at joint 9 and 259 lb uplift at joint 7.

Julius Lee
Truss Design Engineer
Florida PE No. 34985
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899184
L252570	T23	HIP	1	1	Job Reference (optional)

NOTES

7) Girder carries hip end with 2-0-0 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=-54, 4-6=-54, 2-5=-10

Concentrated Loads (lb)

Vert: 9=-11(F) 8=-11(F)

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899185
L252570	T24	HIP	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:21:01 2007 Page 1

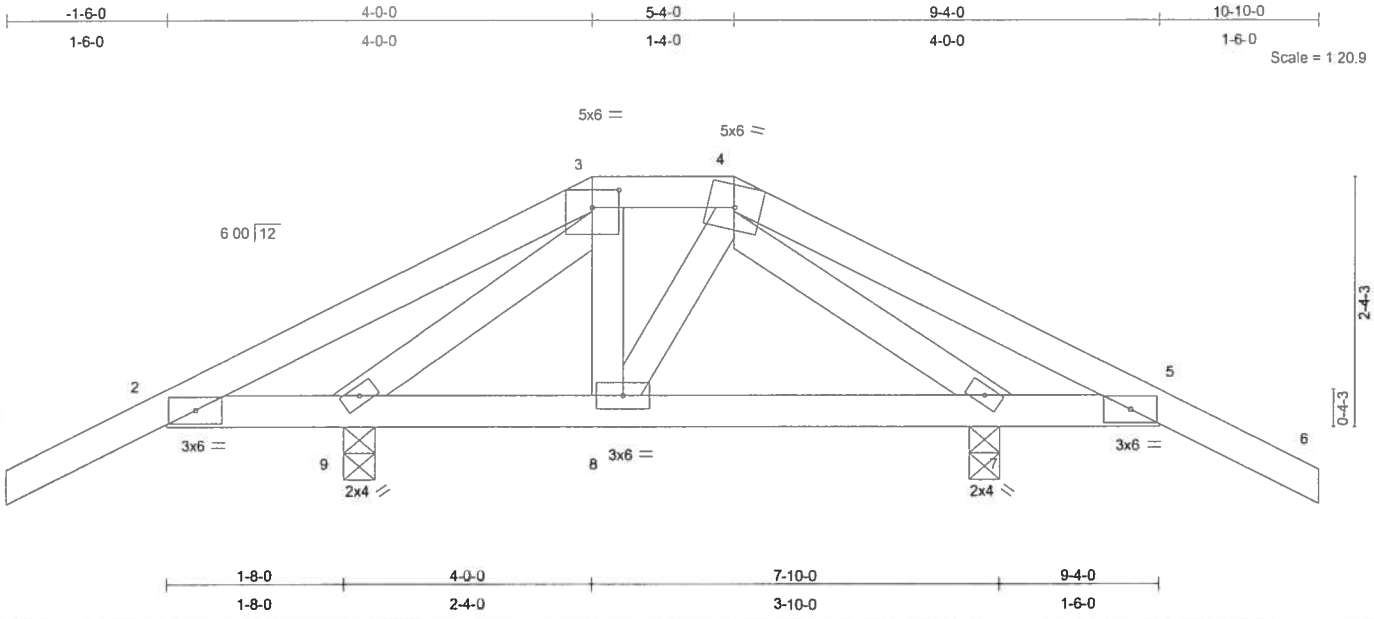


Plate Offsets (X,Y): [3:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	0.01	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.21	Vert(TL)	-0.01	7-8	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.17	Horz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 49 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 6-0-0 oc bracing.

REACTIONS (lb/size) 9=391/0-3-8, 7=369/0-3-8
Max Horz 9=-50(load case 7)
Max Uplift 9=-279(load case 6), 7=-268(load case 7)
Max Grav 9=397(load case 10), 7=381(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-470/397, 3-4=-69/157, 4-5=-397/377, 5-6=0/35
BOT CHORD 2-9=-313/539, 8-9=-38/65, 7-8=-10/62, 5-7=-296/474
WEBS 3-9=-476/667, 3-8=-95/57, 4-8=-63/34, 4-7=-459/544

JOINT STRESS INDEX
2 = 0.26, 3 = 0.29, 4 = 0.22, 5 = 0.28, 7 = 0.25, 8 = 0.04 and 9 = 0.31

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 ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.

Julius Lee
Truss Design Engineer
Florida PE No. 34908
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899185
L252570	T24	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 279 lb uplift at joint 9 and 268 lb uplift at joint 7.

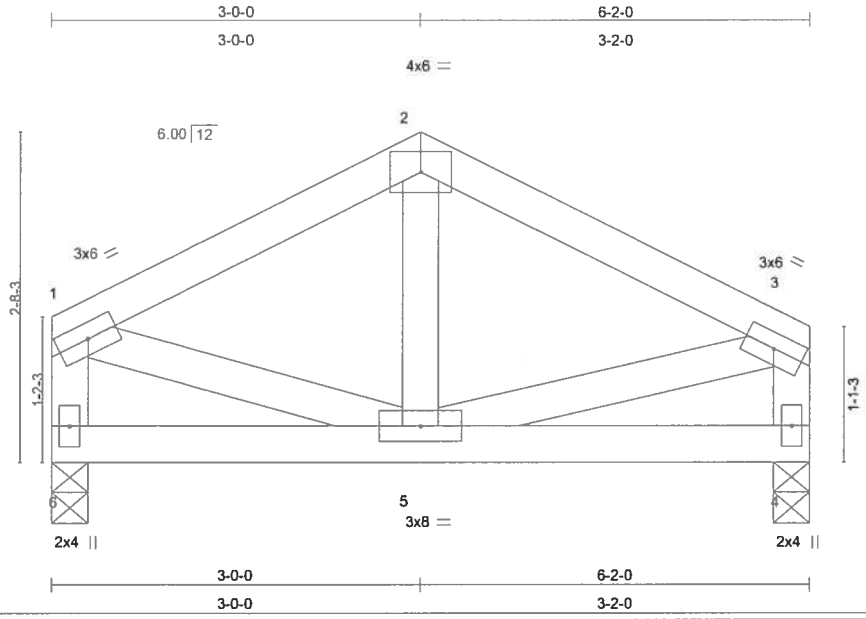
LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No 34985
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899186
L252570	T25	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:21:02 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	0.01	4-5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.00	4-5	>999	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 33 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) 6=188/0-3-8, 4=188/0-3-8
Max Horz 6=-20(load case 4)
Max Uplift 6=-112(load case 6), 4=-112(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-161/287, 2-3=-163/284, 1-6=-176/278, 3-4=-175/271
BOT CHORD 5-6=-17/20, 4-5=0/0
WEBS 2-5=-78/51, 1-5=-216/126, 3-5=-207/124

JOINT STRESS INDEX
1 = 0.16, 2 = 0.08, 3 = 0.15, 4 = 0.15, 5 = 0.11 and 6 = 0.15

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *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
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899186
L252570	T25	COMMON	3	1	Job Reference (optional)

NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 6 and 112 lb uplift at joint 4.

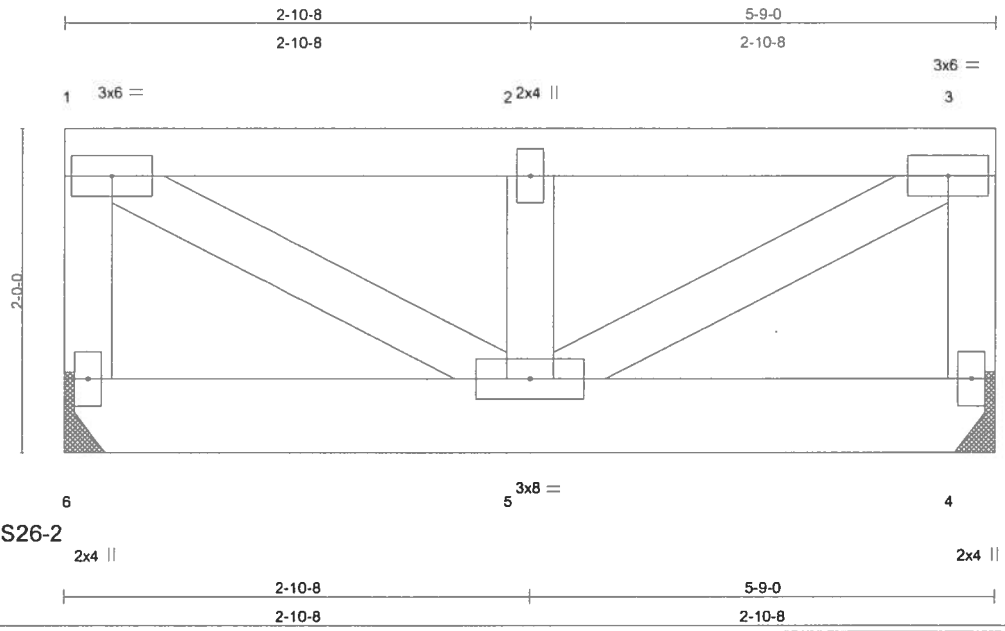
LOAD CASE(S) Standard

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

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL
L252570	T26	SPECIAL	1	2	J1899187 Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Oct 10 10:13:06 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	0.06	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.01	5	>999	240		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.11	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 71 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=650/Mechanical, 4=650/Mechanical
Max Uplift 6=-180(load case 3), 4=-180(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-455/135, 1-2=-602/166, 2-3=-602/166, 3-4=-455/135
BOT CHORD 5-6=-0/0, 4-5=-0/0
WEBS 1-5=-193/700, 2-5=-276/106, 3-5=-193/700

JOINT STRESS INDEX
1 = 0.20, 2 = 0.05, 3 = 0.20, 4 = 0.08, 5 = 0.33 and 6 = 0.08

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
4) Provide adequate drainage to prevent water ponding.
5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899187
L252570	T26	SPECIAL	1	2	Job Reference (optional)

NOTES

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 180 lb uplift at joint 6 and 180 lb uplift at joint 4.
8) Girder carries tie-in span(s): 10-3-0 from 0-0-0 to 5-9-0

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

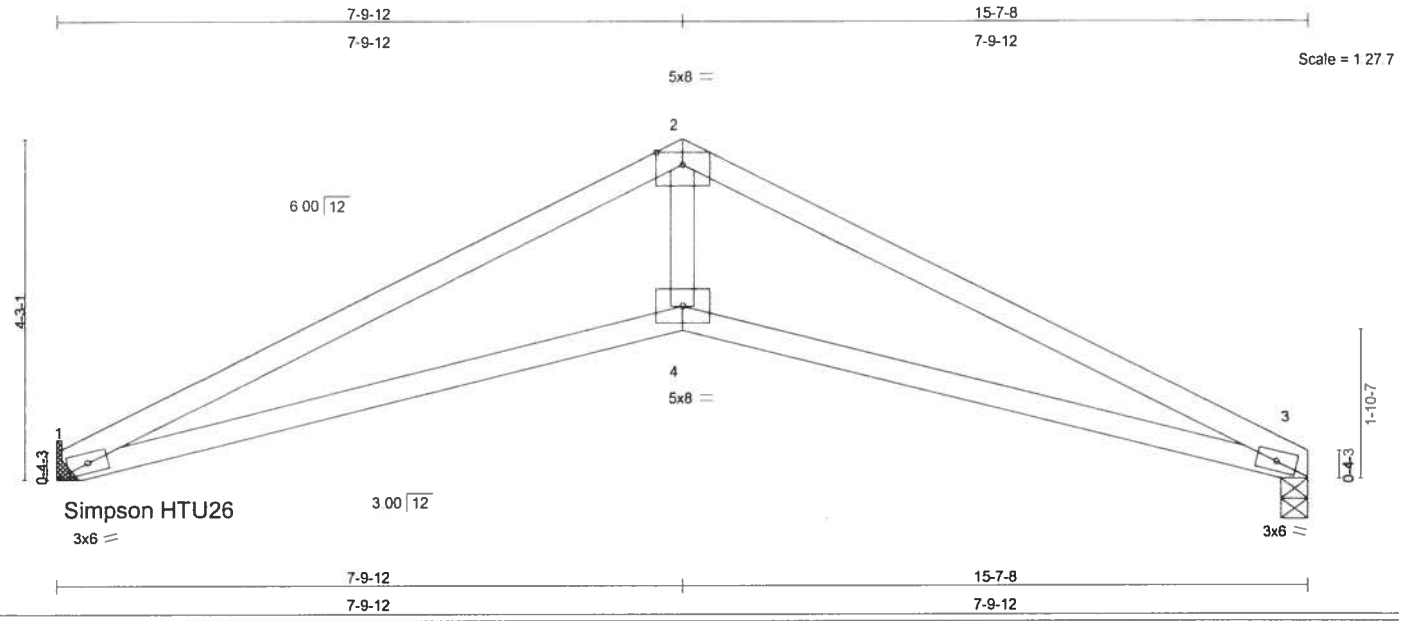
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-86(F=-32), 4-6=-152(F=-142)

Julius Lee
Truss Design Engineer
Florida PE No. 34988
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899188
L252570	T27	SCISSOR	3	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:21:03 2007 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	0.13	1-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.21	1-4	>866	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.10	3	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 53 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 4-11-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-13 oc bracing.

REACTIONS (lb/size) 1=490/Mechanical, 3=490/0-4-0
Max Horz 1=51(load case 5)
Max Uplift 1=-107(load case 6), 3=-107(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1331/699, 2-3=-1331/699
BOT CHORD 1-4=-538/1157, 3-4=-538/1157
WEBS 2-4=-258/685

JOINT STRESS INDEX
1 = 0.71, 2 = 0.92, 3 = 0.71 and 4 = 0.88

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) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899188
L252570	T27	SCISSOR	3	1	Job Reference (optional)

NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 1 and 107 lb uplift at joint 3.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33436

October 10,2007

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899189
L252570	T27G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Oct 09 15:21:04 2007 Page 1

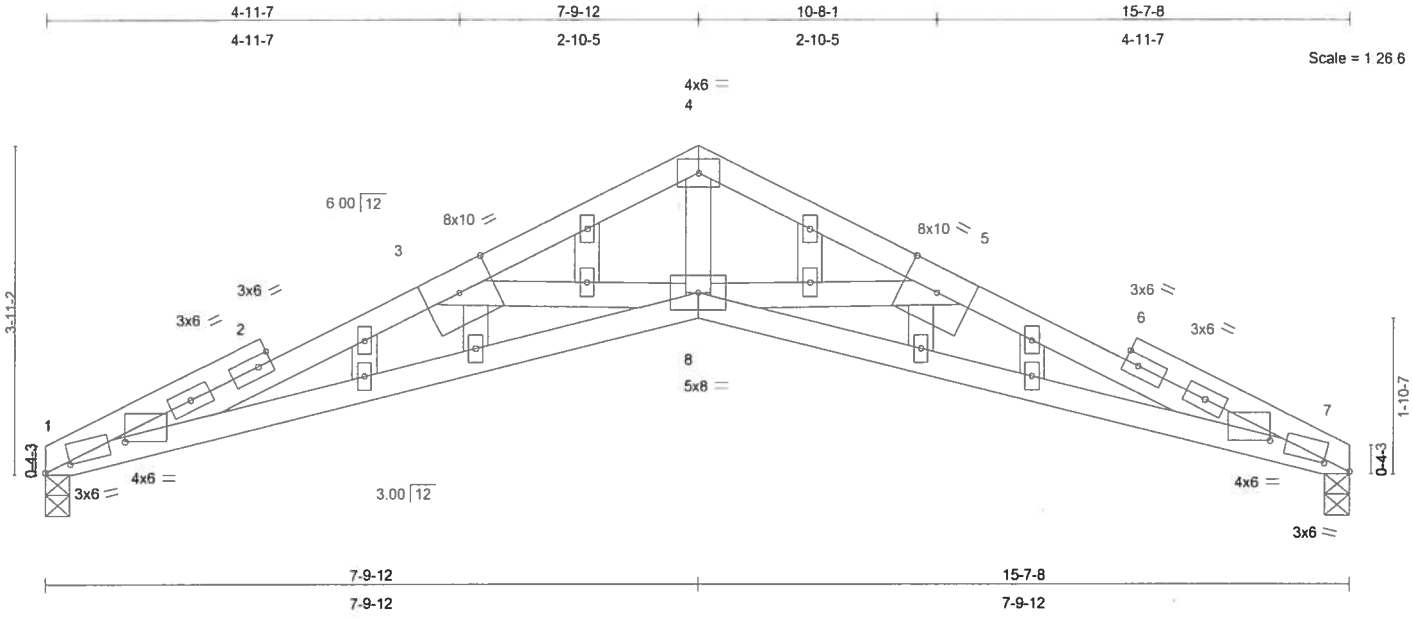


Plate Offsets (X,Y): [1:0-3-13,0-0-5], [1:0-11-7,0-4-7], [7:0-3-13,0-0-5], [7:0-11-7,0-4-7]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.62	Vert(LL)	0.23	8	>790	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.35	1-8	>528	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.45	Horz(TL)	0.24	7	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 73 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-6 oc bracing.

REACTIONS (lb/size) 1=744/0-3-8, 7=744/0-3-8
Max Horz 1=53(load case 5)
Max Uplift 1=-336(load case 6), 7=-336(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2790/1626, 2-3=-2714/1613, 3-4=-1946/1052, 4-5=-1946/1052, 5-6=-2714/1613, 6-7=-2790/1626
BOT CHORD 1-8=-1464/2568, 7-8=-1464/2568
WEBS 4-8=-733/1411, 3-8=-797/633, 5-8=-797/633

JOINT STRESS INDEX
1 = 0.69, 1 = 0.58, 2 = 0.00, 2 = 0.38, 2 = 0.79, 3 = 0.13, 4 = 0.66, 5 = 0.13, 6 = 0.00, 6 = 0.79, 6 = 0.38, 7 = 0.69, 7 = 0.58, 8 = 0.79, 9 = 0.00, 10 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00 and 18 = 0.00

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS 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.

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

October 10,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LIPSCOMB EAGLE - ALEXANDRA MODEL J1899189
L252570	T27G	GABLE	1	1	Job Reference (optional)

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) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 336 lb uplift at joint 1 and 336 lb uplift at joint 7.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

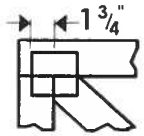
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-87(F=-33), 4-7=-87(F=-33), 1-8=-10, 7-8=-10

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

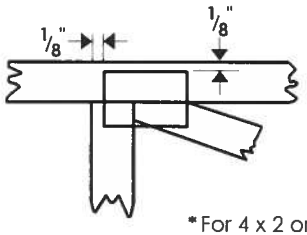
October 10,2007

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

PLATE SIZE

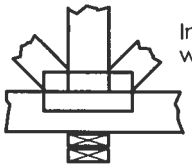
4 X 4

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

LATERAL BRACING

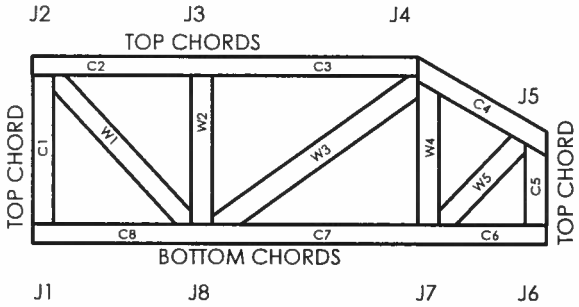
Indicates location of required continuous lateral bracing.

BEARING



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

Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

MAX GABLE VERTICAL LENGTH

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

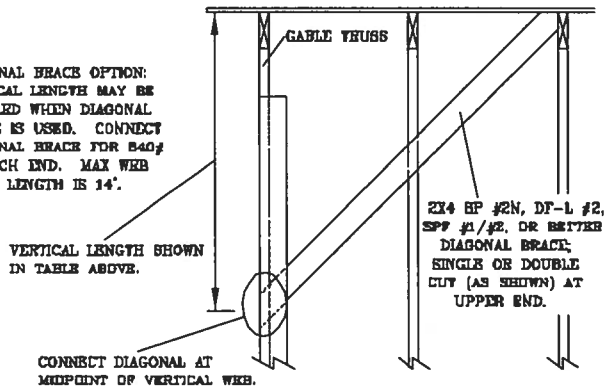
GROUP B:

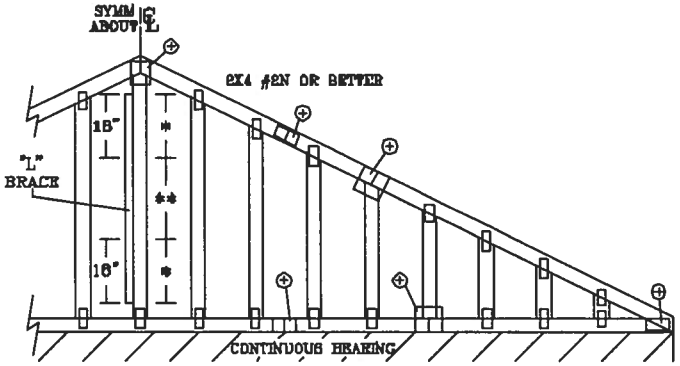
HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#2
#2

DOUGLAS FIR-LARCH
#1
#2

DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 840# 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 (6 PSF TC DEAD LOAD).

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

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 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.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-GAB13015
DATE 11/26/03
DRWG MITEK STD GABLE 15 E HT
-ENG

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

MAX GABLE VERTICAL LENGTH

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

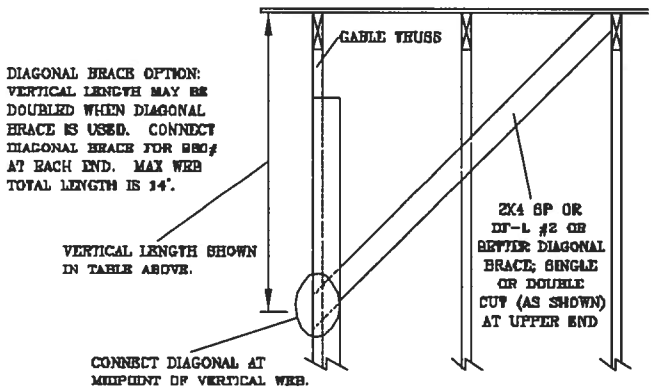
SOUTHERN PINE
#3
STUD
STANDARD

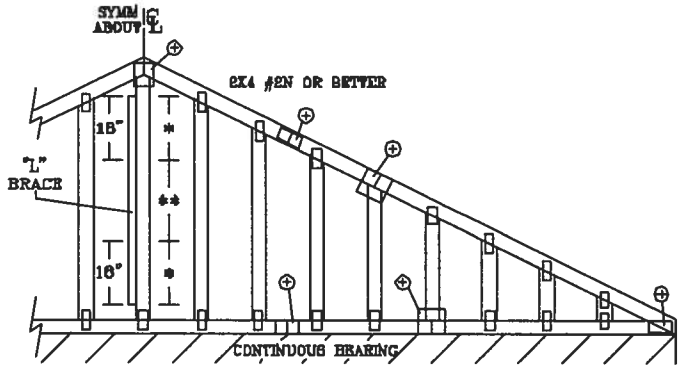
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





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 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' 6"	2X4
GREATER THAN 11' 6"	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.

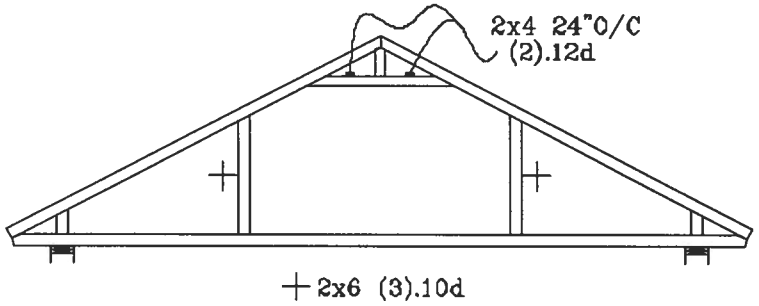
JULIUS LEE'S
CONS. ENGINEERS P.A.
1466 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

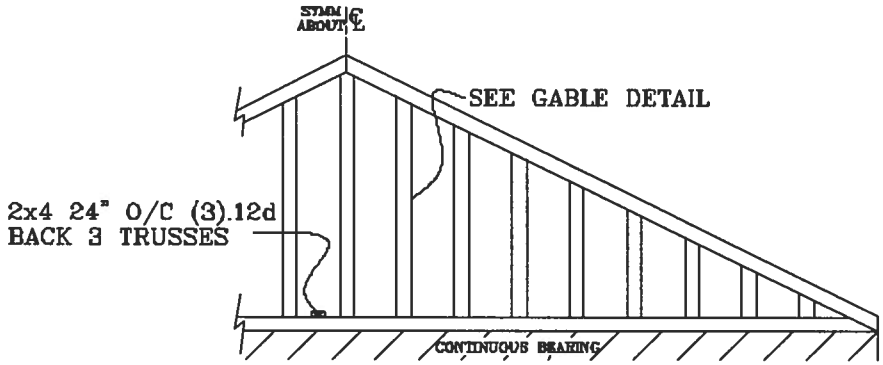
MAX. SPACING 24.0"

REF ASCE7-02-GAB13030
DATE 11/26/03
DWG MITEK STD GABLE 30' E W7
-ENG

TYPICAL ATTIC TRUSS BRACING

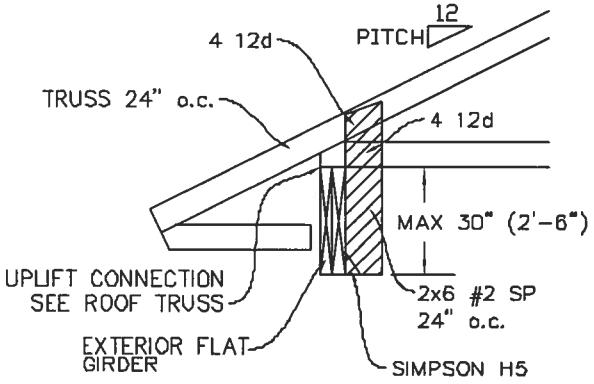


GABLE END TRUSS DETAIL

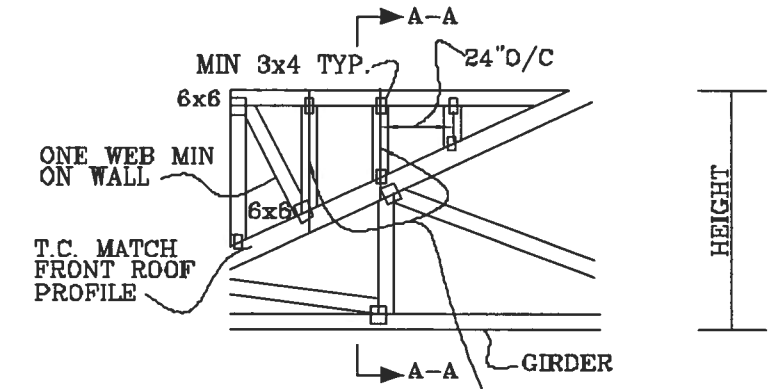


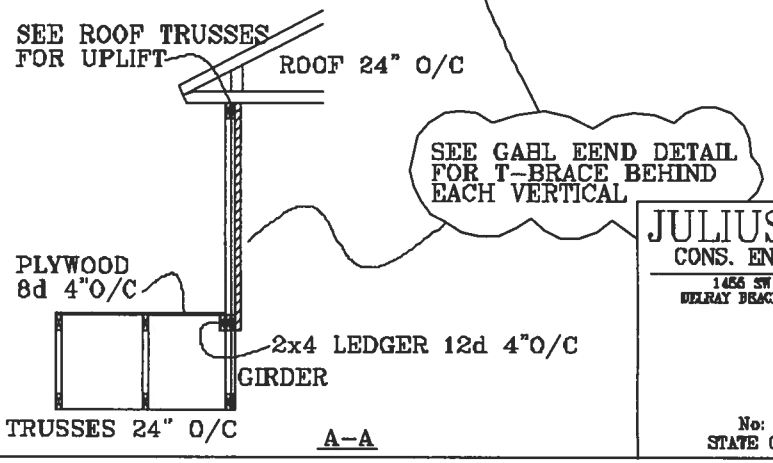
MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

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 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

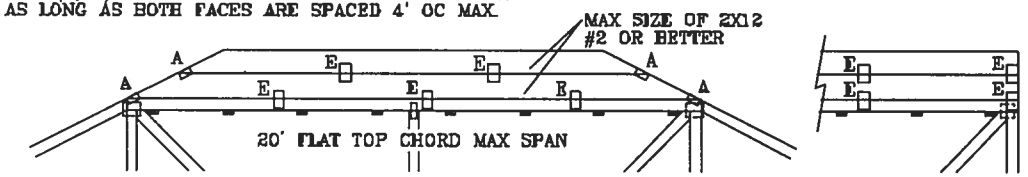
110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

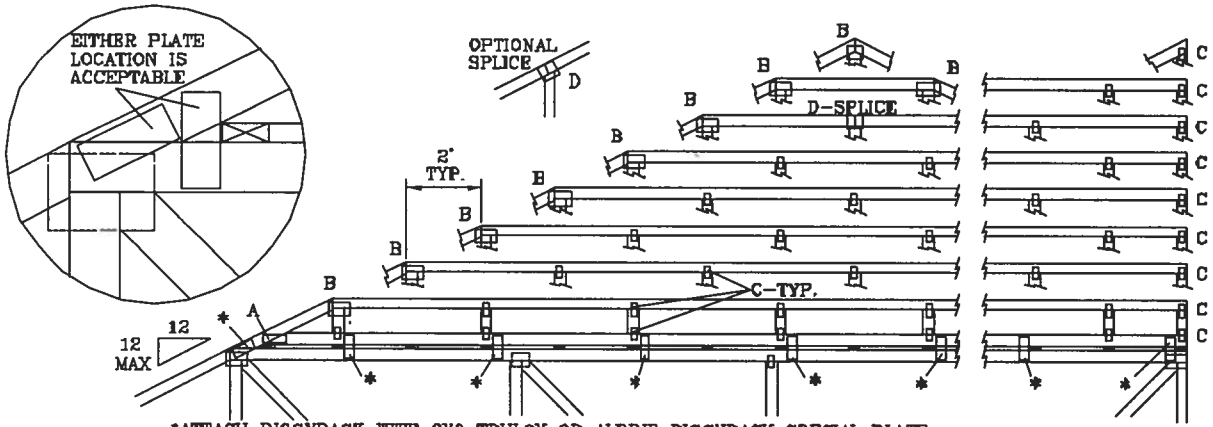
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X8	5X8	5X8	5X8
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X8 OR 3X6 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.



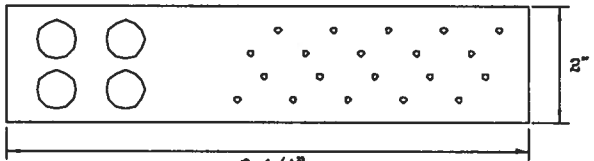


*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

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 634,018 634,017 & 847,045

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

No: 34869
STATE OF FLORIDA

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.
SPACING 24.0"

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

VALLEY TRUSS DETAIL

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

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

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

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

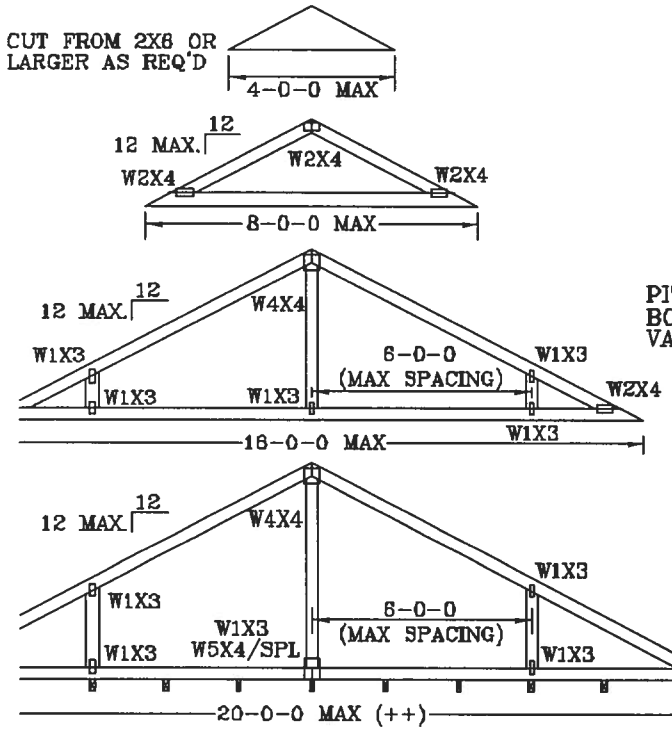
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

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

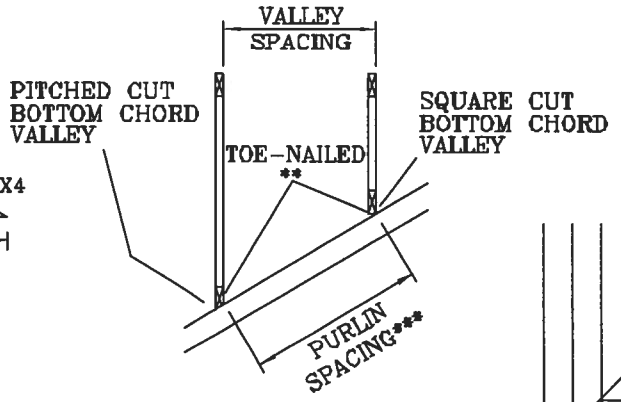
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

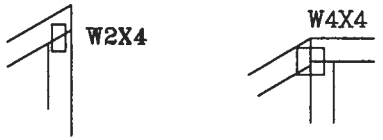
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

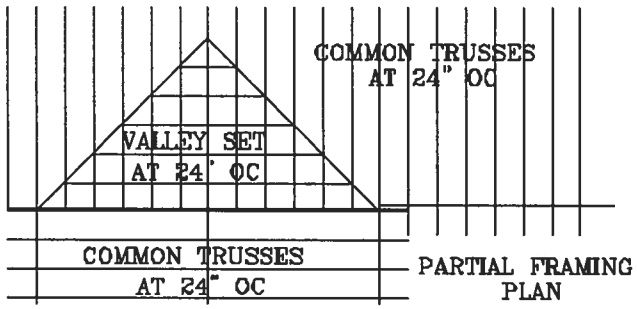
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

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: 34569
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		
DURFAC.	1.25	1.25			
SPACING		24"			

TOE-NAIL DETAIL

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

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

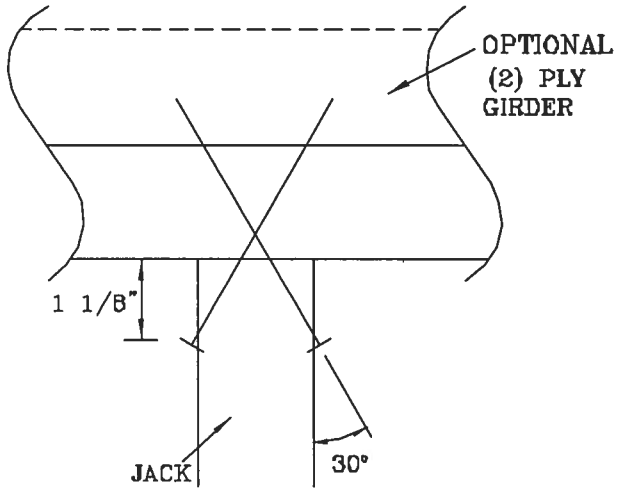
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

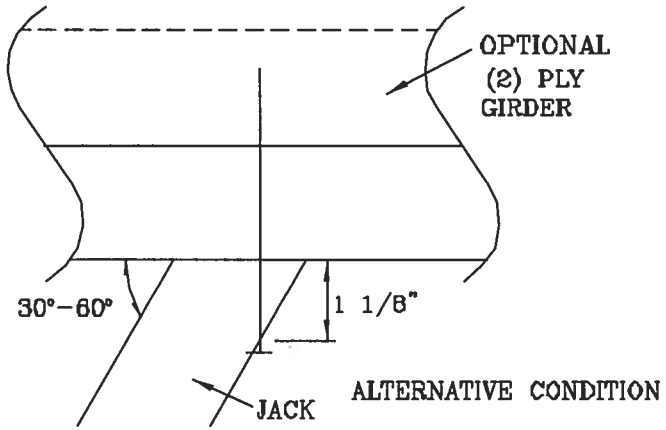
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

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

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

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





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

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

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

No: 34869
STATE OF FLORIDA

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

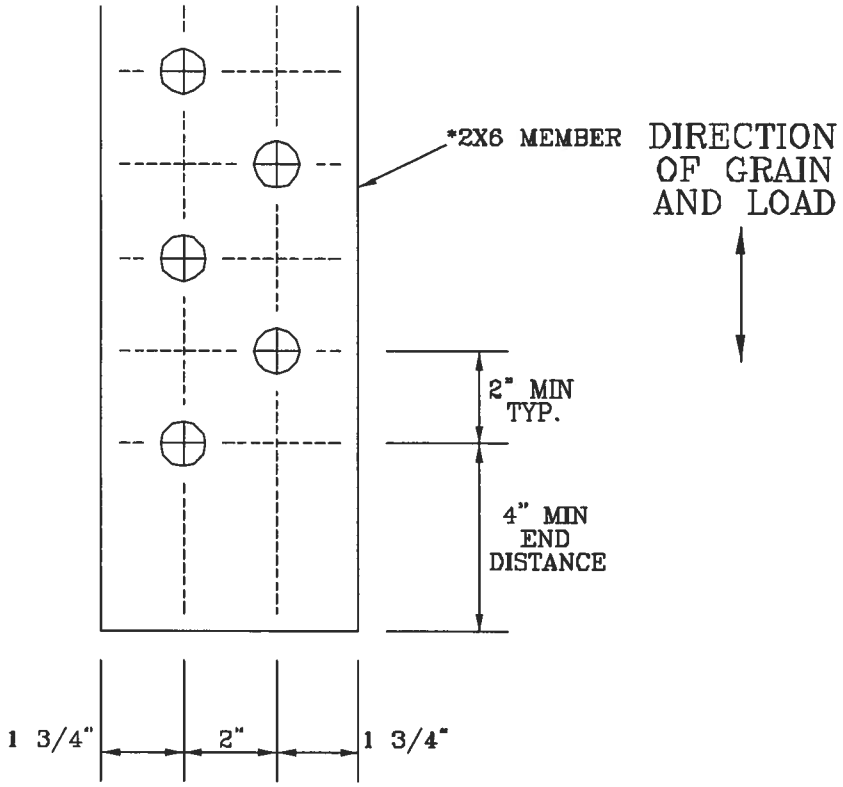
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

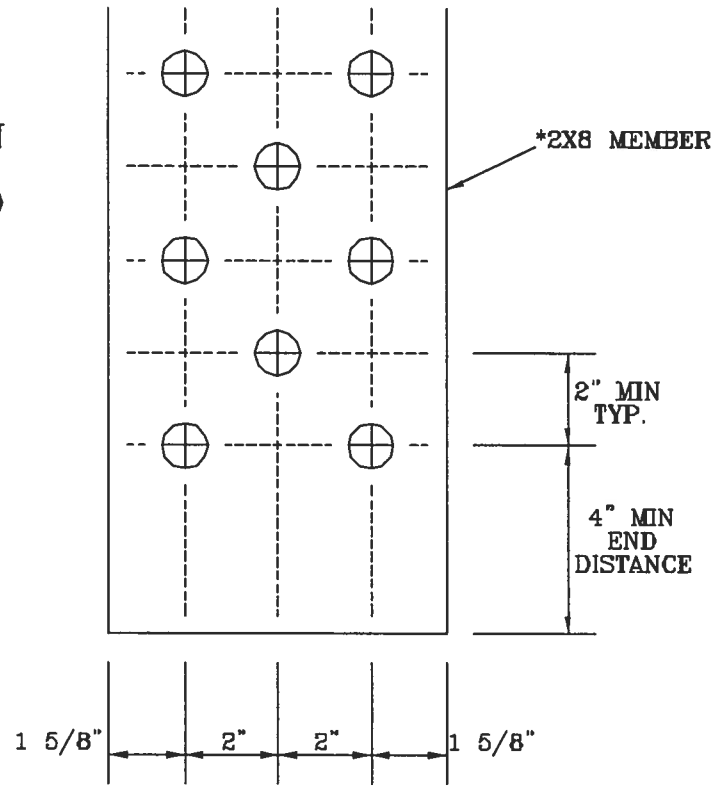
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

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

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628,016

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

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

No: 34869
STATE OF FLORIDA

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

TRULOX CONNECTION DETAIL

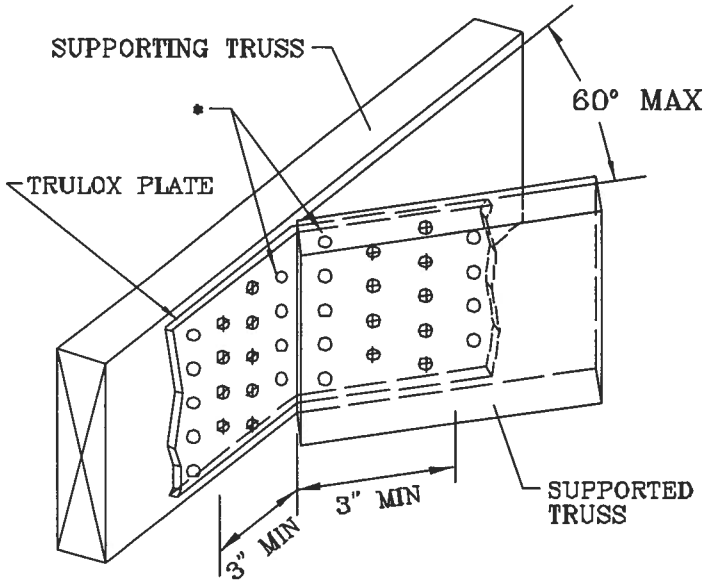
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

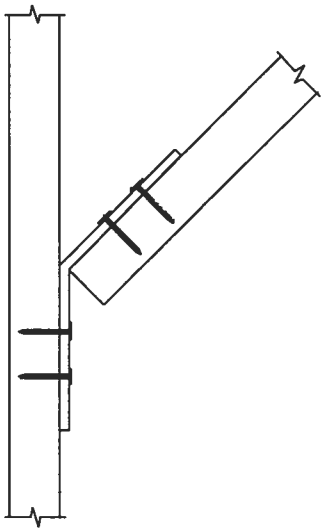
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

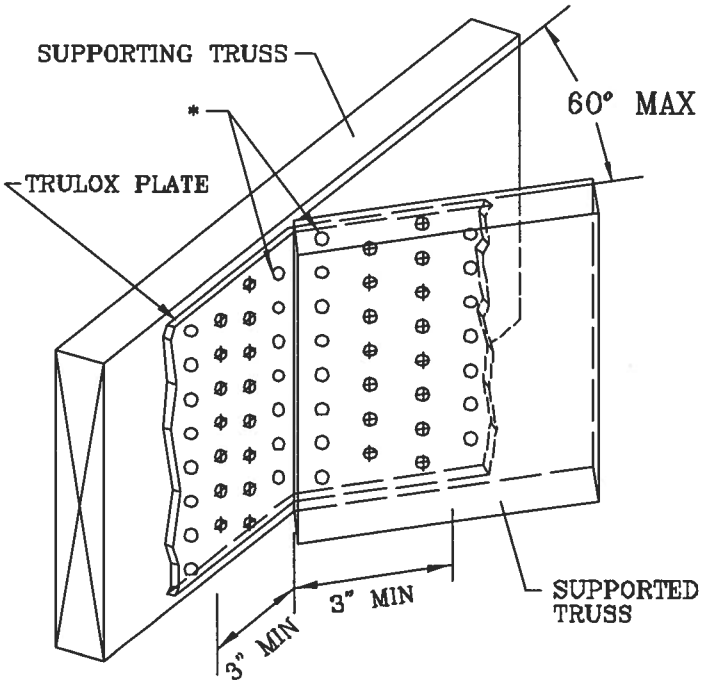
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

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



MINIMUM 3X6 TRULOX PLATE





MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
5X6	16	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

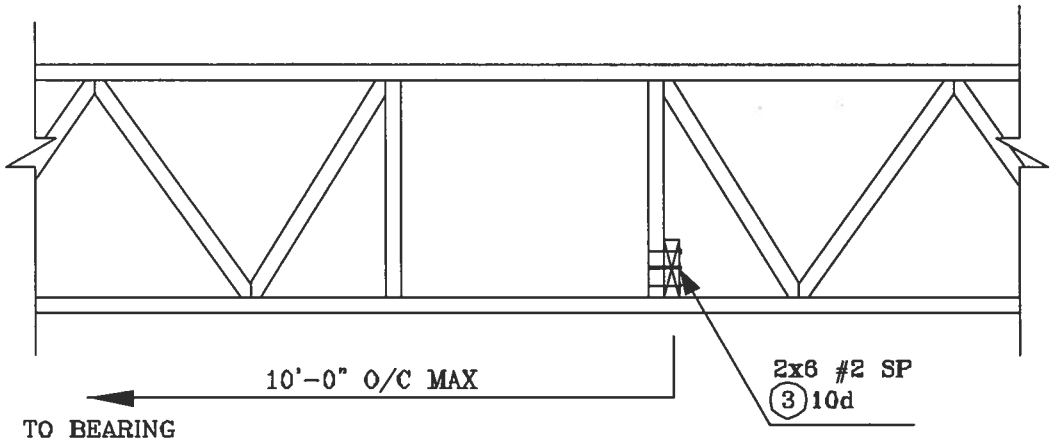
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE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

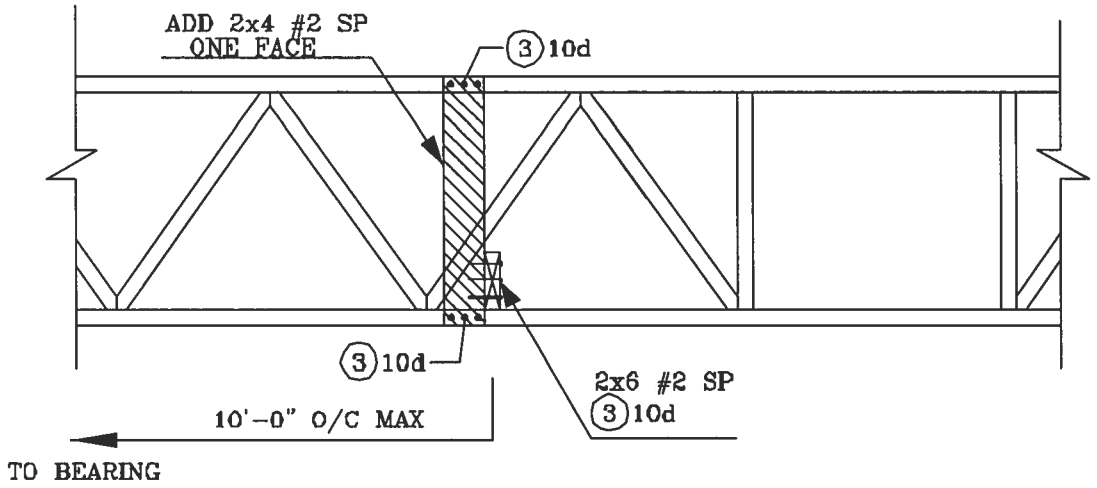
No: 34869
STATE OF FLORIDA

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