



**Project Information for: L258252**

Address : 456 SW MORNING GLORY DR.  
 LAKE CITY, FL  
 County: COLUMBIA  
 Truss Count: 51  
 Design Program: MiTek 20/20 6.3  
 Building Code: FBC2004/TPI2002

**Truss Design Load Information:**

**Gravity: Wind:**

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

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

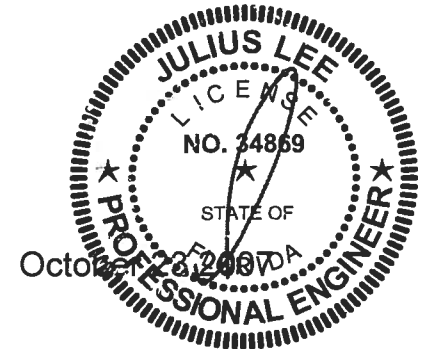
**Contractor of Record, responsible for structural engineering:**

Hugo Escalante Florida Registered Residential Contractor License No. CRC1326967

Address: EWPL, Incorporated P.O. Box 280 Fort White, Florida 32038

**Truss Design Engineer:** Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

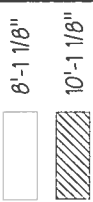


**Notes:**

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 elements in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date	No.	Drwg. #	Truss ID	Date
1	J1903357	CJ1	10/23/07	29	J1903385	T11	10/23/07
2	J1903358	CJ1A	10/23/07	30	J1903386	T12	10/23/07
3	J1903359	CJ2	10/23/07	31	J1903387	T13	10/23/07
4	J1903360	CJ3	10/23/07	32	J1903388	T14	10/23/07
5	J1903361	CJ3A	10/23/07	33	J1903389	T15	10/23/07
6	J1903362	CJ5	10/23/07	34	J1903390	T16	10/23/07
7	J1903363	CJ6	10/23/07	35	J1903391	T17	10/23/07
8	J1903364	EJ4	10/23/07	36	J1903392	T18	10/23/07
9	J1903365	EJ7	10/23/07	37	J1903393	T19	10/23/07
10	J1903366	EJ7A	10/23/07	38	J1903394	T20	10/23/07
11	J1903367	EJ7B	10/23/07	39	J1903395	T21	10/23/07
12	J1903368	EJ7C	10/23/07	40	J1903396	T22	10/23/07
13	J1903369	EJ7D	10/23/07	41	J1903397	T23	10/23/07
14	J1903370	EJ7E	10/23/07	42	J1903398	T24	10/23/07
15	J1903371	HJ9	10/23/07	43	J1903399	T25	10/23/07
16	J1903372	HJ9A	10/23/07	44	J1903400	T26	10/23/07
17	J1903373	T01G	10/23/07	45	J1903401	T27	10/23/07
18	J1903374	T02	10/23/07	46	J1903402	T28	10/23/07
19	J1903375	T02G	10/23/07	47	J1903403	T29	10/23/07
20	J1903376	T03	10/23/07	48	J1903404	T30	10/23/07
21	J1903377	T03G	10/23/07	49	J1903405	T31	10/23/07
22	J1903378	T04	10/23/07	50	J1903406	T31G	10/23/07
23	J1903379	T05	10/23/07	51	J1903407	T32	10/23/07
24	J1903380	T06	10/23/07				
25	J1903381	T07	10/23/07				
26	J1903382	T08	10/23/07				
27	J1903383	T09	10/23/07				
28	J1903384	T10	10/23/07				

**BEARING HEIGHT SCHEDULE**



**NOTES:**

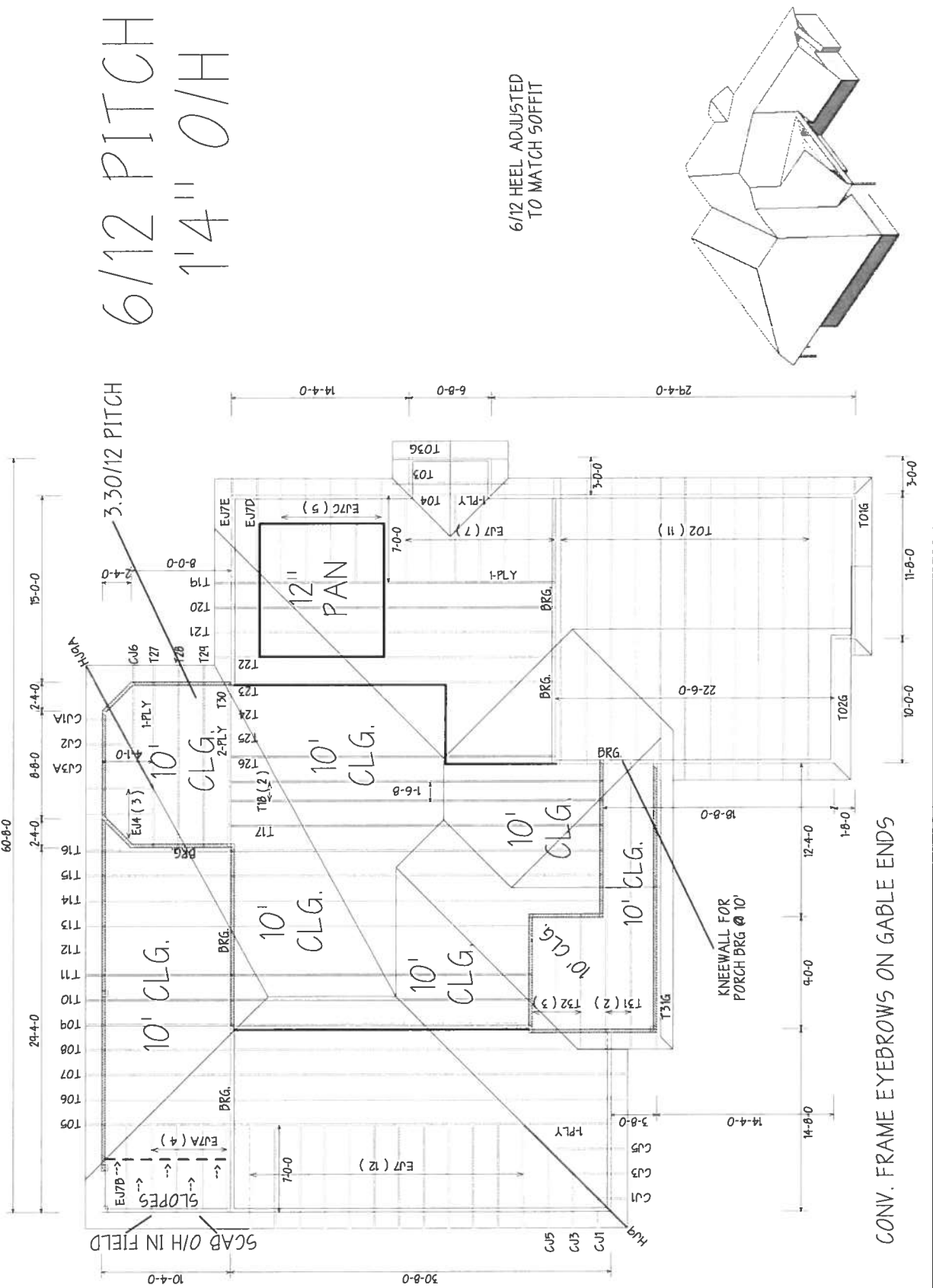
- 1) REFER TO THE FOUNDATION DRAWING FOR ALL FOUNDATION DETAILS. REFER TO THE FOUNDATION DRAWING FOR ALL FOUNDATION DETAILS.
- 2) ALL DETAILS INCLUDING FOUNDATION DETAILS SHALL BE CONFORMANT WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND ALL APPLICABLE LOCAL ORDINANCES.
- 3) ALL DETAILS INCLUDING FOUNDATION DETAILS SHALL BE CONFORMANT WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AND ALL APPLICABLE LOCAL ORDINANCES.
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**SHOP DRAWING APPROVAL**

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL TO THE ARCHITECT AND THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

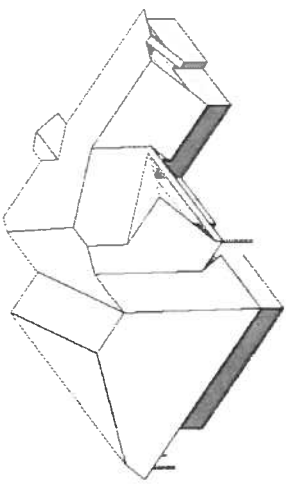
**Builders FirstSource**  
 Durrill  
 Jacksonville  
 Lake City  
 Sanford

HUGO ESCALANTE  
 WRUBEL RES.  
 CUSTOM  
 10-22-07 K.L.H. L258252



6/12 PITCH  
 1'4" O/H

6/12 HEEL ADJUSTED  
 TO MATCH SOFFIT



CONV. FRAME EYEBROWS ON GABLE ENDS



**Project Information for: L258252**

Address : 456 SW MORNING GLORY DR.  
 LAKE CITY, FL  
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 Building Code: FBC2004/TPI2002

October 23,2007

**Truss Design Load Information:**  
**Gravity: Wind:**

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

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

**Contractor of Record, responsible for structural engineering:**

Hugo Escalante Florida Registered Residential Contractor License No. CRC1326967

Address: EWPL, Incorporated P.O. Box 280 Fort White, Florida 32038

**Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869**

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

**Notes:**

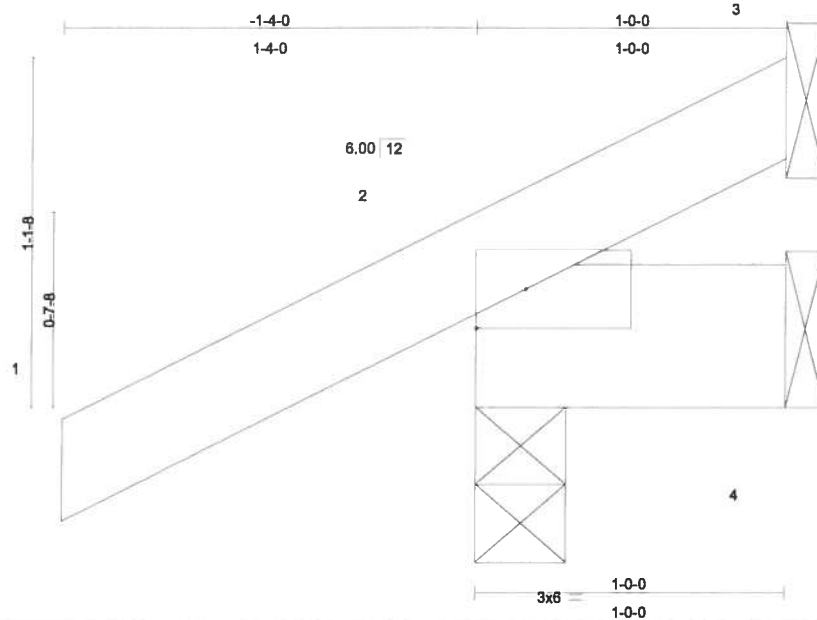
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11	J1903367	EJ7B	10/23/07	39	J1903395	T21	10/23/07
12	J1903368	EJ7C	10/23/07	40	J1903396	T22	10/23/07
13	J1903369	EJ7D	10/23/07	41	J1903397	T23	10/23/07
14	J1903370	EJ7E	10/23/07	42	J1903398	T24	10/23/07
15	J1903371	HJ9	10/23/07	43	J1903399	T25	10/23/07
16	J1903372	HJ9A	10/23/07	44	J1903400	T26	10/23/07
17	J1903373	T01G	10/23/07	45	J1903401	T27	10/23/07
18	J1903374	T02	10/23/07	46	J1903402	T28	10/23/07
19	J1903375	T02G	10/23/07	47	J1903403	T29	10/23/07
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26	J1903382	T08	10/23/07				
27	J1903383	T09	10/23/07				
28	J1903384	T10	10/23/07				

Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903357
L258252	CJ1	JACK	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:08:54 2007 Page 1



Scale = 1:7.2

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.11	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.00	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 6 SYP No.1D

**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=157/0-3-8, 4=5/Mechanical, 3=-26/Mechanical  
 Max Horz 2=62(load case 6)  
 Max Uplift 2=-140(load case 6), 3=-26(load case 1)  
 Max Grav 2=157(load case 1), 4=14(load case 2), 3=30(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-47/18  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**

2 = 0.11

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 140 lb uplift at joint 2 and 26 lb uplift at joint 3.
- Continued on page 2

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31288  
 1100 Central Expressway  
 Covington, LA 70038

October 23, 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, 563 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903357
L258252	CJ1	JACK	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:08:54 2007 Page 2

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 37828  
 1100 Coastal Bay Blvd  
 Boynton Beach, FL 33435

October 23, 2007

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

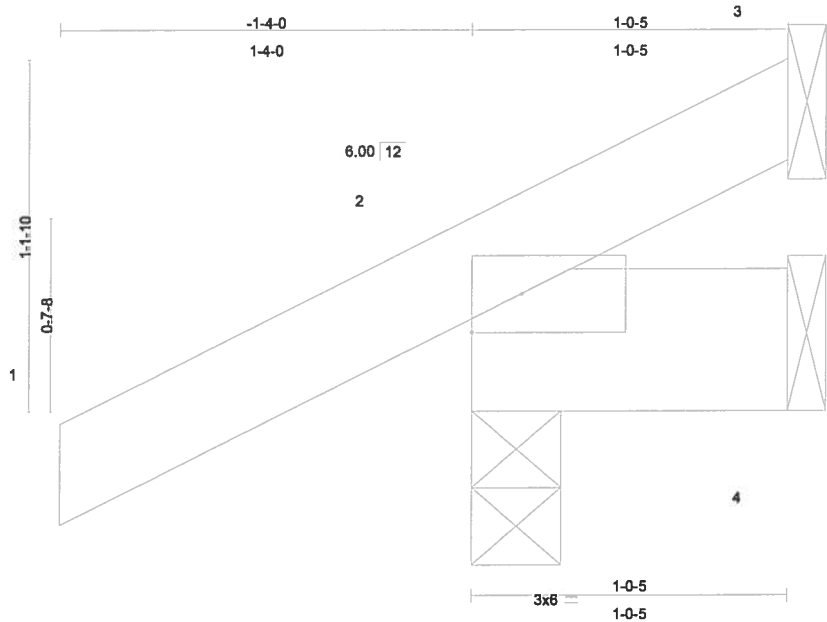
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903358
L258252	CJ1A	JACK	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MITek Industries, Inc. Mon Oct 22 16:08:55 2007 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.11	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.00	Vert(TL)	-0.00	2	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 7 lb

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-0-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=156/0-3-8, 4=5/Mechanical, 3=-24/Mechanical  
 Max Horz 2=62(load case 6)  
 Max Uplift 2=-138(load case 6), 3=-24(load case 1)  
 Max Grav 2=156(load case 1), 4=15(load case 2), 3=28(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-46/16  
 BOT CHORD 2-4=0/0

**JOINT STRESS INDEX**

2 = 0.11

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 138 lb uplift at joint 2 and 24 lb uplift at joint 3.
- Continued on page 2

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34888  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32119

October 23, 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, 8300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.
L258252	CJ1A	JACK	1	1	J1903358 Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MITek Industries, Inc. Mon Oct 22 16:08:55 2007 Page 2

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 34888  
1100 Coastal Bay Blvd  
Layton Beach, FL 32055

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903359
L258252	CJ2	JACK	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:08:55 2007 Page 1

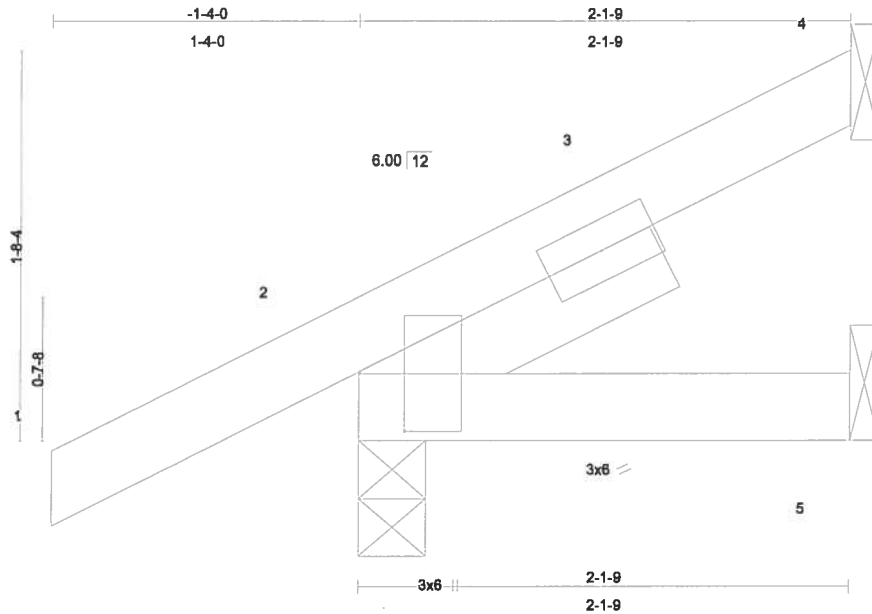


Plate Offsets (X,Y): [2:0-3-0,0-2-6]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.10	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.03	Vert(TL)	-0.00	2-5	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 11 lb

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 SLIDER Left 2 X 4 SYP No.3 1-4-14

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-1-9 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 4=33/Mechanical, 2=161/0-3-8, 5=10/Mechanical  
 Max Horz 2=85(load case 6)  
 Max Uplift 4=-33(load case 6), 2=-113(load case 6)  
 Max Grav 4=33(load case 1), 2=161(load case 1), 5=31(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-48/0, 3-4=-30/9  
 BOT CHORD 2-5=0/0

#### JOINT STRESS INDEX

2 = 0.16, 2 = 0.07 and 3 = 0.00

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Corporate Way, Suite 100  
 Boynton Beach, FL 33426

October 23, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.
L258252	CJ2	JACK	1	1	J1903359 Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:08:55 2007 Page 2

**NOTES**

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 4 and 113 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 3-1888  
1100 Coastal Hwy Blvd  
Gwynn Beach, FL 32435

October 23, 2007

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

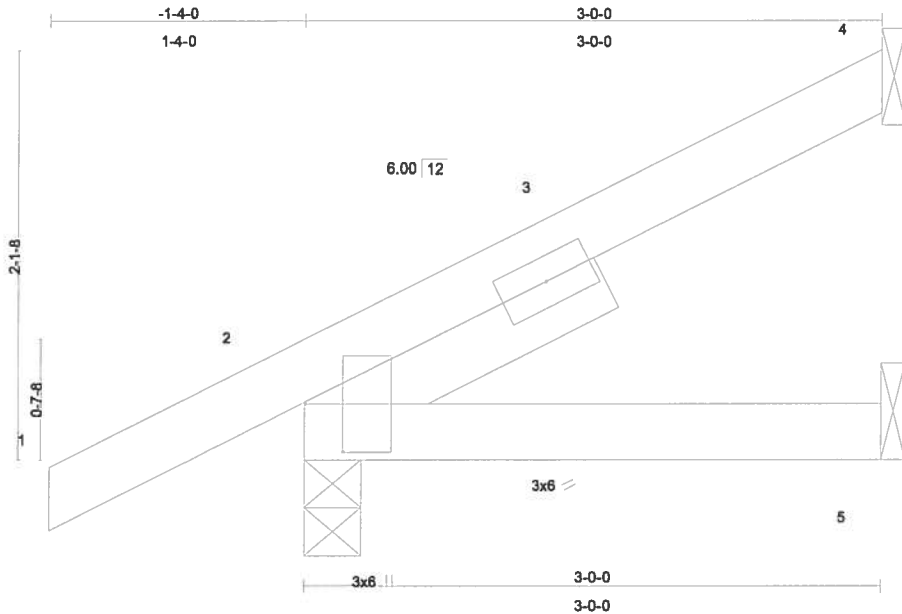
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903360
L258252	CJ3	JACK	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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Scale = 1:11.6

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

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	1.25	TC 0.10	Vert(LL) -0.00	2-5	>999	360		MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.06	Vert(TL) -0.01	2-5	>999	240			
BCLL 10.0	* Rep Stress Incr YES		WB 0.00	Horz(TL) -0.00	4	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 14 lb

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 SLIDER Left 2 X 4 SYP No.3 1-8-3

**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) 4=63/Mechanical, 2=182/0-3-8, 5=15/Mechanical  
 Max Horz 2=105(load case 6)  
 Max Uplift 4=-62(load case 6), 2=-115(load case 6)  
 Max Grav 4=63(load case 1), 2=182(load case 1), 5=44(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-56/0, 3-4=-51/20  
 BOT CHORD 2-5=0/0

**JOINT STRESS INDEX**

2 = 0.18, 2 = 0.07 and 3 = 0.00

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Coastal Hwy Blvd  
 Daytona Beach, FL 32119

October 23, 2007

Continued on page 2

**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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903360
L258252	CJ3	JACK	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

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**NOTES**

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 4 and 115 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 04888  
 1120 Coastal Hwy Blvd  
 Daytona Beach, FL 32105

October 23, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903361
L258252	CJ3A	JACK	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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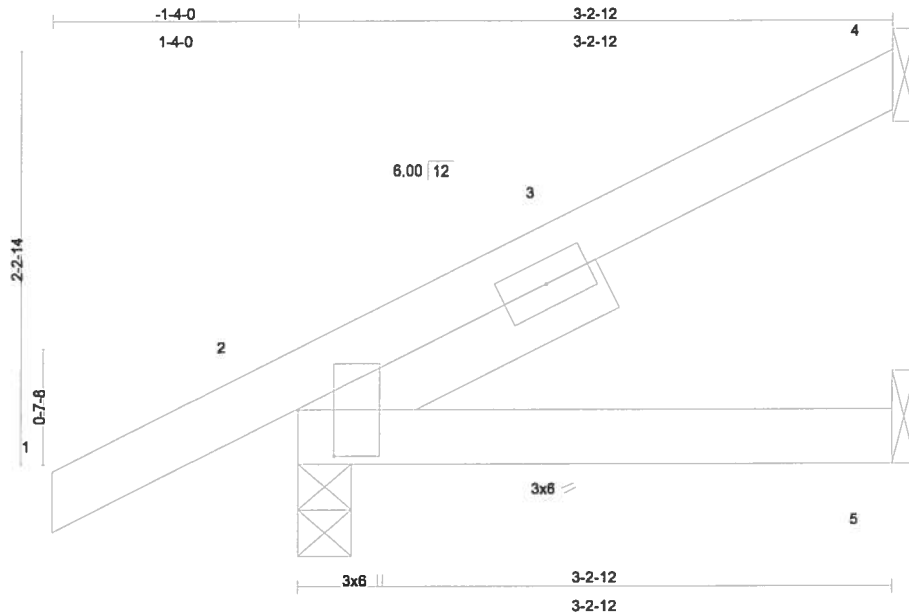


Plate Offsets (X,Y): [2:0-3-0,0-2-6]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.12	Vert(LL)	-0.01	2-5	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.07	Vert(TL)	-0.01	2-5	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 15 lb

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 SLIDER Left 2 X 4 SYP No.3 1-9-11

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 4=70/Mechanical, 2=188/0-3-8, 5=16/Mechanical  
 Max Horz 2=110(load case 6)  
 Max Uplift 4=69(load case 6), 2=-116(load case 6)  
 Max Grav 4=70(load case 1), 2=188(load case 1), 5=47(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-62/0, 3-4=-56/23  
 BOT CHORD 2-5=0/0

#### JOINT STRESS INDEX

2 = 0.19, 2 = 0.07 and 3 = 0.00

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 041888  
 1100 Central Express Way  
 Boynton Beach, FL 33435

October 23, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903361
L258252	CJ3A	JACK	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

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**NOTES**

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 4 and 116 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34888  
 1100 Coastal Bay Blvd  
 Lynn Haven Beach, FL 33455

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903362
L258252	CJ5	JACK	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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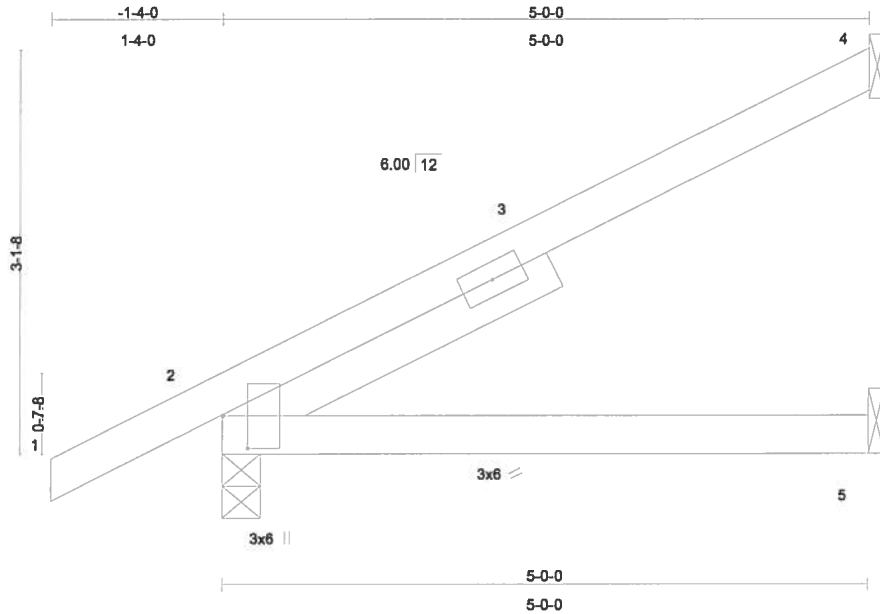


Plate Offsets (X,Y): [2:0-3-0,0-2-5]

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	1.25	TC 0.33	Vert(LL)	-0.03	2-5	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.17	Vert(TL)	-0.05	2-5	>999	240		
BCLL 10.0	* Rep Stress Incr YES		WB 0.00	Horz(TL)	-0.01	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 22 lb

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 SLIDER Left 2 X 4 SYP No.3 2-9-9

**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) 4=124/Mechanical, 2=240/0-3-8, 5=25/Mechanical  
 Max Horz 2=151(load case 6)  
 Max Uplift 4=-118(load case 6), 2=-128(load case 6)  
 Max Grav 4=124(load case 1), 2=240(load case 1), 5=74(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-105/0, 3-4=-95/43  
 BOT CHORD 2-5=0/0

**JOINT STRESS INDEX**

2 = 0.23, 2 = 0.09 and 3 = 0.00

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee  
 Truss Design Engineer  
 Florida Reg No. 03888  
 1100 Corporate Way, Suite 200  
 Boynton Beach, FL 33435

October 23, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903362
L258252	CJ5	JACK	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MITek Industries, Inc. Mon Oct 22 16:08:57 2007 Page 2

**NOTES**

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 4 and 128 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 3-1888  
 1170 Coastal Hwy Blvd  
 Daytona Beach, FL 32105

October 23, 2007

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

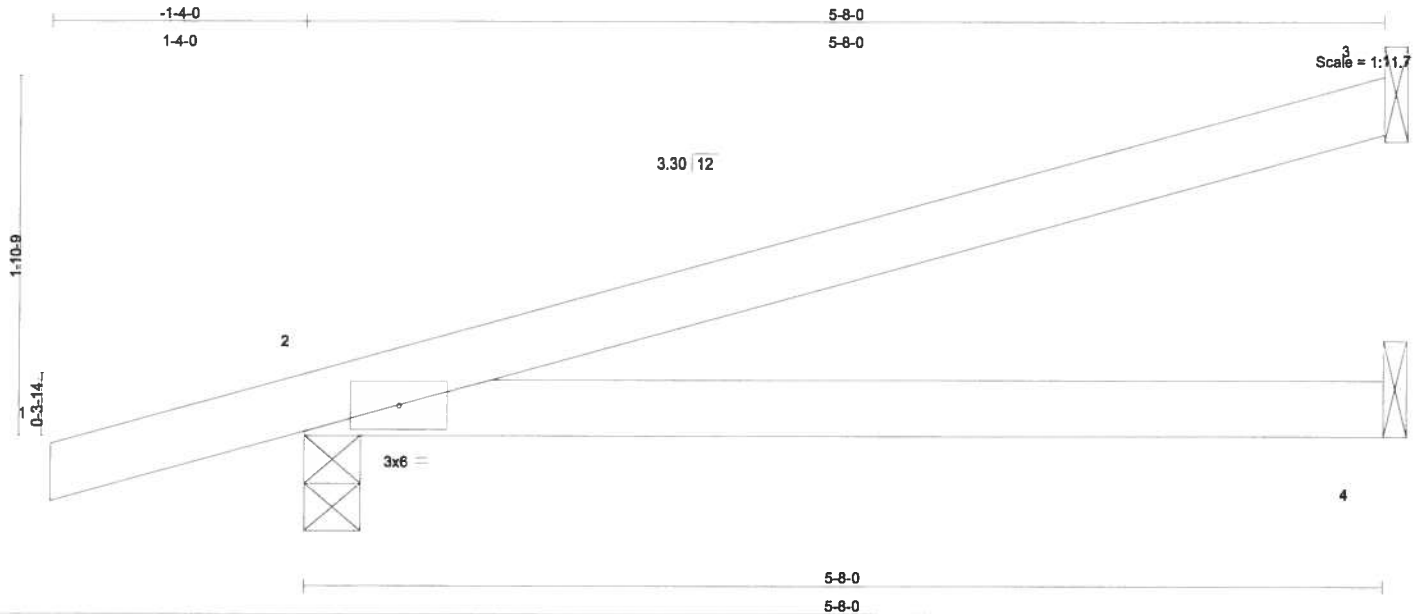
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903363
L258252	CJ6	JACK	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.31	Vert(LL)	-0.05 2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.21	Vert(TL)	-0.08 2-4	>804	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00 3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 19 lb	

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=137/Mechanical, 2=265/0-3-8, 4=27/Mechanical  
Max Horz 2=94(load case 4)  
Max Uplift 3=-101(load case 4), 2=-171(load case 4)  
Max Grav 3=137(load case 1), 2=265(load case 1), 4=82(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-58/30  
BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.09

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 101 lb uplift at joint 3 and 171 lb uplift at joint 2.
- Continued on page 2

Justin Lee  
Truss Design Engineer  
Florida PE No. 37889  
1100 Coastal Bay Blvd  
Gulfport Beach, FL 32562

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903363
L258252	CJ6	JACK	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:08:58 2007 Page 2

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 24888  
 1122 Cassel Bay Blvd  
 Daytona Beach, FL 32127

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903364
L258252	EJ4	JACK	3	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:08:58 2007 Page 1

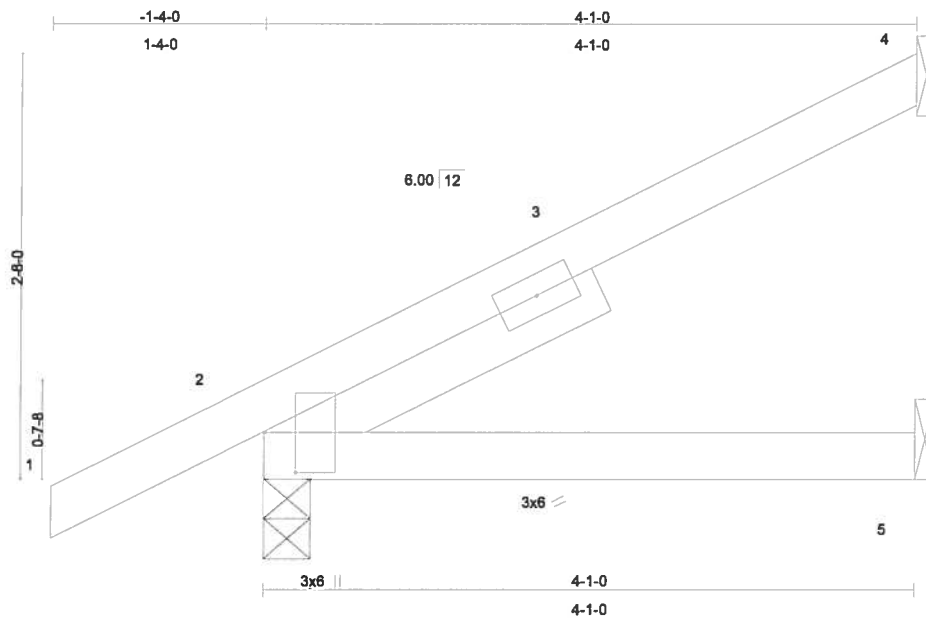


Plate Offsets (X,Y): [2:0-3-0,0-2-6]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.21	Vert(LL)	-0.01	2-5	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.12	Vert(TL)	-0.02	2-5	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.01	4	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  
 SLIDER Left 2 X 4 SYP No.3 2-3-7

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 4=97/Mechanical, 2=213/0-3-8, 5=20/Mechanical  
 Max Horz 2=130(load case 6)  
 Max Uplift 4=-93(load case 6), 2=-121(load case 6)  
 Max Grav 4=97(load case 1), 2=213(load case 1), 5=60(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-83/0, 3-4=-75/33  
 BOT CHORD 2-5=0/0

**JOINT STRESS INDEX**

2 = 0.21, 2 = 0.08 and 3 = 0.00

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 3-1883  
 1100 Central Expressway  
 Boynton Beach, FL 33435

October 23, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903364
L258252	EJ4	JACK	3	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:08:59 2007 Page 2

**NOTES**

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 4 and 121 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34888  
 1100 Coastal Bay Blvd  
 Boynton Beach, FL 33435

October 23, 2007

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

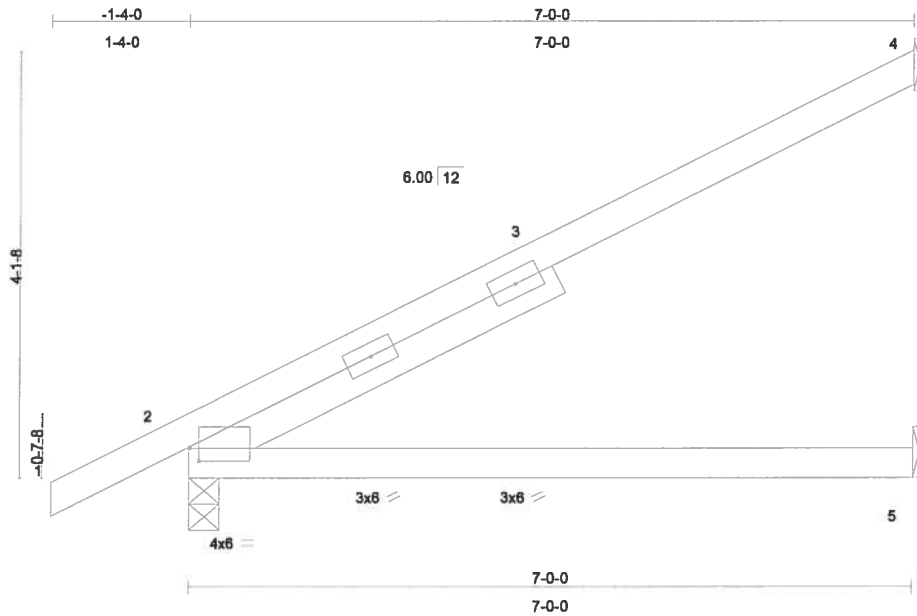
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903365
L258252	EJ7	JACK	19	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:08:59 2007 Page 1



Scale = 1:21.5

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

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	1.25	TC 0.51	Vert(LL)	0.11	2-5	>728	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.29	Vert(TL)	-0.15	2-5	>566	240		
BCLL 10.0	* Rep Stress Incr YES		WB 0.00	Horz(TL)	-0.03	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 30 lb

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 SLIDER Left 2 X 4 SYP No.3 3-11-0

#### 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=170/Mechanical, 2=301/0-3-8, 5=45/Mechanical  
 Max Horz 2=139(load case 6)  
 Max Uplift 4=-96(load case 6), 2=-90(load case 6)  
 Max Grav 4=170(load case 1), 2=301(load case 1), 5=89(load case 2)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-127/0, 3-4=-113/59  
 BOT CHORD 2-5=0/0

#### JOINT STRESS INDEX

2 = 0.88, 2 = 0.06, 2 = 0.06 and 3 = 0.00

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 4 and 90 lb uplift at joint 2.

Continued on page 2

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1192 Central Expressway  
 Daytona Beach, FL 32115

October 23, 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, 8300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903365
L258252	EJ7	JACK	19	1	Job Reference (optional)	

Builders FirstSource, Lake City, FI 32055

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**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 24888  
 6175 Coastal Way NW  
 Lovett Station, FL 32050

October 23, 2007

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

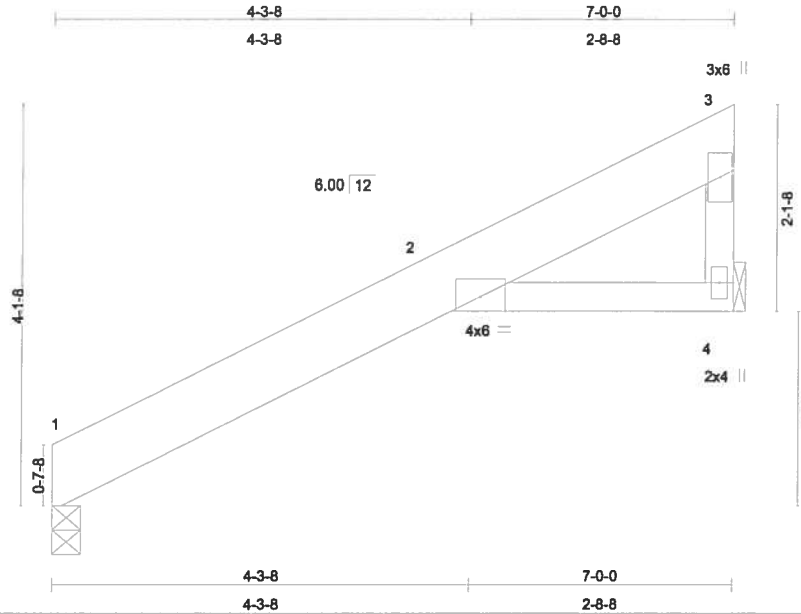
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903366
L258252	EJ7A	SPECIAL	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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Scale = 1:22.9

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.25	Vert(LL)	0.06	1-2	>999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.10	Vert(TL)	-0.04	1-2	>999		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.03	4	n/a		
BCDL 5.0	Code	FBC2004/TPI2002	(Matrix)						
								Weight: 31 lb	

#### LUMBER

TOP CHORD 2 X 8 SYP No.1D  
 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) 1=217/0-3-8, 4=216/Mechanical  
 Max Horz 1=108(load case 6)  
 Max Uplift 1=-45(load case 6), 4=-140(load case 6)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-144/6, 2-3=-72/49, 3-4=-176/267  
 BOT CHORD 2-4=-83/44

#### JOINT STRESS INDEX

2 = 0.20, 3 = 0.25 and 4 = 0.61

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Justin Lee  
 Truss Design Engineer  
 Builders FirstSource  
 11700 Enterprise Lane, Madison, WI 53719  
 608.271.1111

October 23, 2007

Continued on page 2

#### 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 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903366
L258252	EJ7A	SPECIAL	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1 and 140 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida P.E. No. 24888  
 1100 Corporate Park Drive  
 Daytona Beach, FL 32119

October 23, 2007

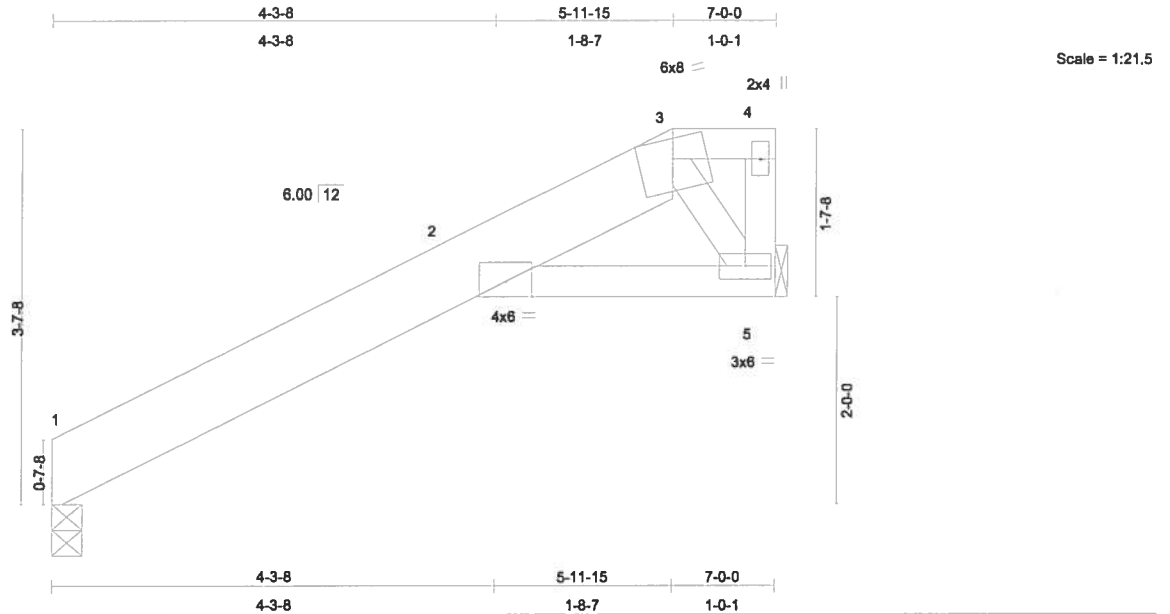
**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
 This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of 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 HIG-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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903367
L258252	EJ7B	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.16	Vert(LL)	0.05	1-2	>999	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.04	1-2	>999		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.08	Horz(TL)	-0.02	5	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 31 lb	

#### LUMBER

TOP CHORD 2 X 8 SYP No.1D \*Except\*  
3-4 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) 1=217/0-3-8, 5=216/Mechanical  
Max Horz 1=99(load case 6)  
Max Uplift 1=-49(load case 6), 5=-127(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-126/6, 2-3=-100/66, 3-4=-22/41, 4-5=-4/9  
BOT CHORD 2-5=-232/144  
WEBS 3-5=-222/332

#### JOINT STRESS INDEX

2 = 0.13, 3 = 0.08, 4 = 0.15 and 5 = 0.30

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julian Lee  
Truss Design Engineer  
Florida Permit No. 00000000  
1100 Coastal Bay Blvd  
Lakewood Beach, FL 33409

October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903367
L258252	EJ7B	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

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**NOTES**

- 5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1 and 127 lb uplift at joint 5.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32105

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903368
L258252	EJ7C	SPECIAL	5	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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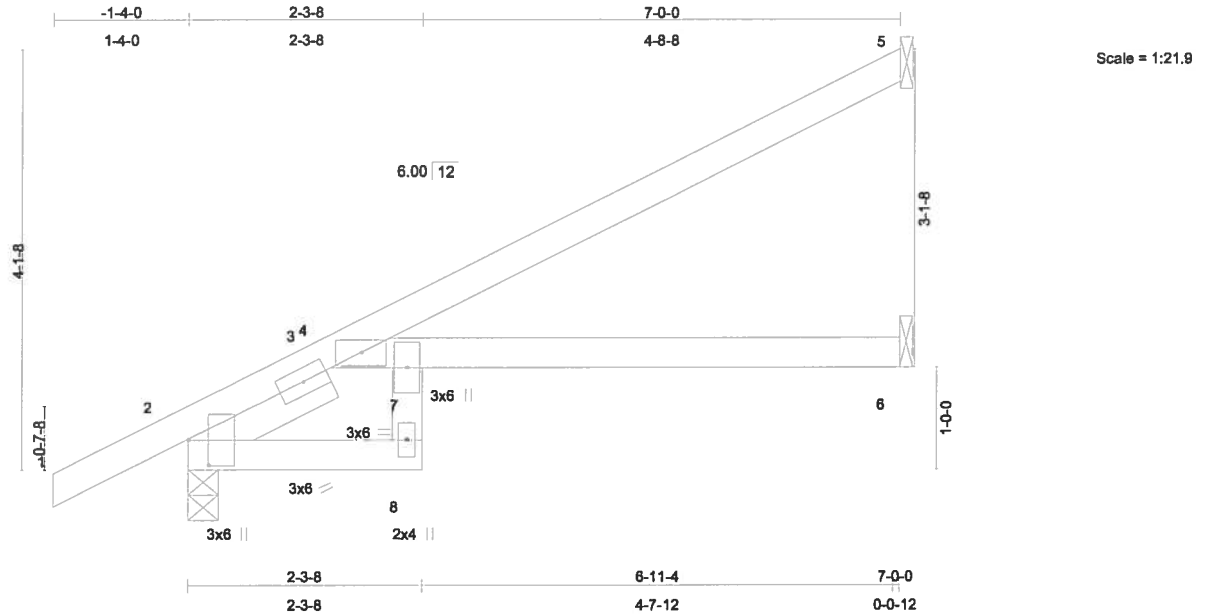


Plate Offsets (X,Y): [2:0-3-0,0-2-5]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.36	Vert(LL)	0.22	6-7	>384	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.54	Vert(TL)	-0.21	6-7	>405	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.09	6	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\*  
 7-8 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 1-6-1

**BRACING**

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

**REACTIONS** (lb/size) 5=147/Mechanical, 2=307/0-3-8, 6=71/Mechanical  
 Max Horz 2=140(load case 6)  
 Max Uplift 5=-80(load case 6), 2=-87(load case 6), 6=-8(load case 6)  
 Max Grav 5=147(load case 1), 2=307(load case 1), 6=100(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-305/107, 3-4=-241/95, 4-5=-106/53  
 BOT CHORD 2-8=-255/195, 7-8=-29/47, 4-7=-195/255, 6-7=0/0

**JOINT STRESS INDEX**

2 = 0.41, 2 = 0.11, 3 = 0.00, 4 = 0.58, 7 = 0.57 and 8 = 0.51

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Justin Lee  
 Truss Design Engineer  
 Builders FirstSource  
 1800 Corporate Blvd  
 Dayton, OH 45424

October 23, 2007

Continued on page 2

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903368
L258252	EJ7C	SPECIAL	5	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:01 2007 Page 2

**NOTES**

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 5, 87 lb uplift at joint 2 and 8 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Justin Lee  
 Truss Design Engineer  
 Florida PE No. 041888  
 1100 Coastal Bay Blvd  
 Lovinton Beach, FL 32055

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903369
L258252	EJ7D	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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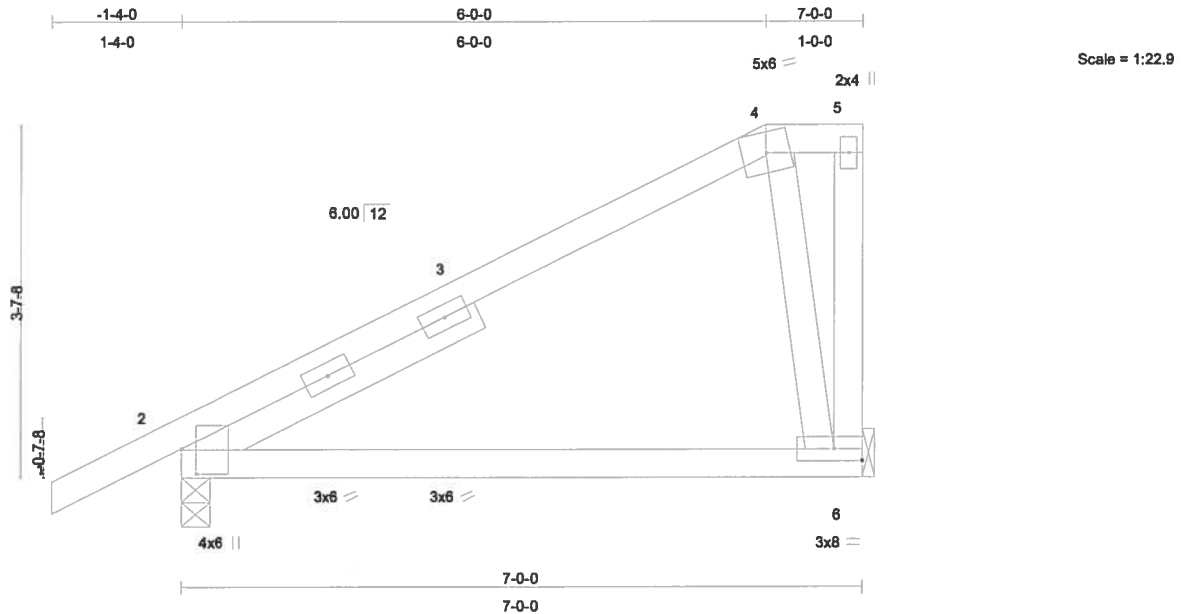


Plate Offsets (X,Y): [2:0-3-1,0-1-13]

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)	-0.04	2-6	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.14	Vert(TL)	-0.08	2-6	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.11	Horz(TL)	-0.00	6	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  
 WEBS 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 3-4-5

**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=212/Mechanical, 2=298/0-3-8  
 Max Horz 2=125(load case 6)  
 Max Uplift 6=-71(load case 6), 2=-96(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-187/11, 3-4=-105/23, 4-5=-37/5, 5-6=-211/137  
 BOT CHORD 2-6=-115/97  
 WEBS 4-6=-317/450

**JOINT STRESS INDEX**  
 2 = 0.85, 2 = 0.05, 2 = 0.05, 3 = 0.00, 4 = 0.66, 5 = 0.39 and 6 = 0.56

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 01888  
 1800 Central Exp. Hwy  
 Boynton Beach, FL 33435

October 23, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903369
L258252	EJ7D	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:01 2007 Page 2

**NOTES**

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 6 and 96 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julie Lee  
 Truss Design Engineer  
 Florida PE No. 2-1886  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32105

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903370
L258252	EJ7E	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:02 2007 Page 1

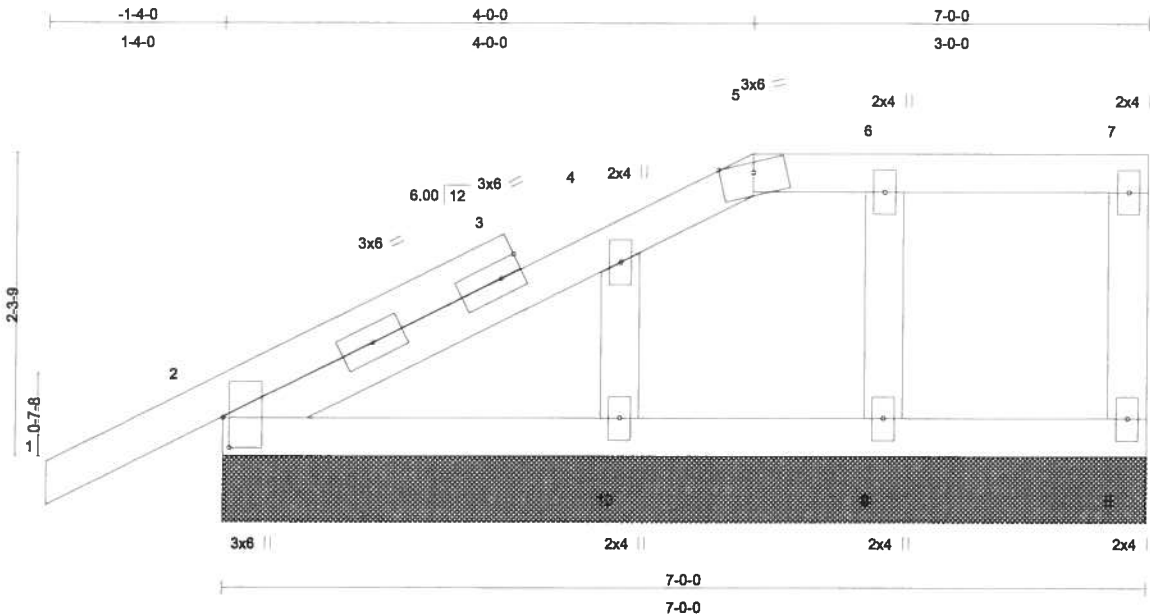


Plate Offsets (X,Y): [2:0-2-12,0-0-10]

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	1.25	TC 0.15	Vert(LL) -0.00	1	n/r	120		MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.04	Vert(TL) -0.00	1	n/r	90			
BCLL 10.0	* Rep Stress Incr NO		WB 0.05	Horz(TL) 0.00	8	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 34 lb

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(lb/size) 2=254/7-0-0, 8=78/7-0-0, 9=168/7-0-0, 10=216/7-0-0  
 Max Horz 2=115(load case 6)  
 Max Uplift 2=-130(load case 6), 8=-35(load case 5), 9=-74(load case 4), 10=-106(load case 6)  
 Max Grav 2=254(load case 1), 8=79(load case 11), 9=168(load case 1), 10=216(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-4/27, 2-3=-68/0, 3-4=-83/38, 4-5=-47/14, 5-6=-9/8, 6-7=-9/8, 7-8=-67/67  
 BOT CHORD 2-10=-8/9, 9-10=-8/9, 8-9=-8/9  
 WEBS 6-9=-153/158, 4-10=-187/214

**JOINT STRESS INDEX**

2 = 0.78, 3 = 0.00, 3 = 0.23, 3 = 0.23, 4 = 0.11, 5 = 0.04, 6 = 0.09, 7 = 0.13, 8 = 0.06, 9 = 0.09 and 10 = 0.12

**NOTES**

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

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34886  
 1100 Coastal Bay Blvd  
 Boynton Beach, FL 33435

Continued on page 2

October 23,2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903370
L258252	EJ7E	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) Provide adequate drainage to prevent water ponding.
- 5) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 2, 35 lb uplift at joint 8, 74 lb uplift at joint 9 and 106 lb uplift at joint 10.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 11) Gable truss supports 16" max. rake gable overhang.

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-79(F=-25), 5-7=-79(F=-25), 2-8=-10

Johnis Lee  
Truss Design Engineer  
Florida PE No. 31888  
1170 Coastal Bay Blvd  
Loynton Beach, FL 33405

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903371
L258252	HJ9	MONO TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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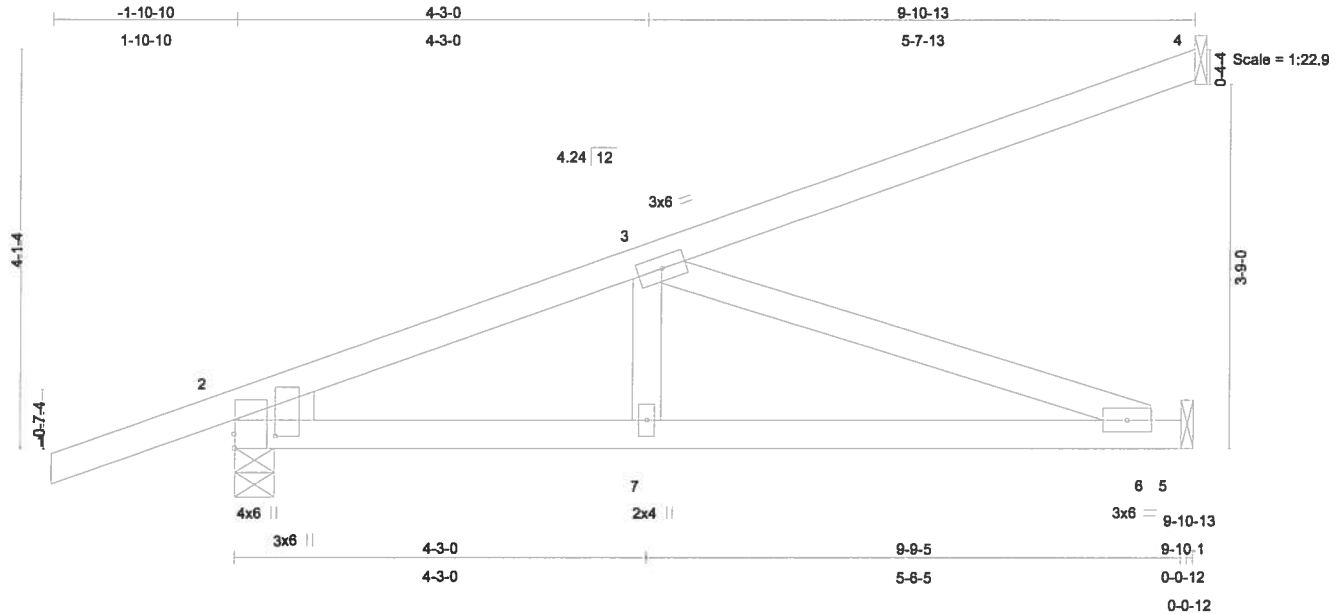


Plate Offsets (X,Y): [2:Edge,0-0-2], [2:0-0-4,0-5-2]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.59	Vert(LL)	0.04	6-7	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.32	Vert(TL)	-0.10	6-7	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.35	Horz(TL)	0.01	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 45 lb	

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 4=264/Mechanical, 5=247/Mechanical, 2=368/0-4-15  
 Max Horz 2=233(load case 3)  
 Max Uplift 4=-229(load case 3), 5=-95(load case 3), 2=-182(load case 3)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-641/169, 3-4=-104/64  
 BOT CHORD 2-7=-363/592, 6-7=-363/592, 5-6=0/0  
 WEBS 3-7=0/195, 3-6=-626/385

#### JOINT STRESS INDEX

2 = 0.70, 2 = 0.18, 3 = 0.16, 6 = 0.17 and 7 = 0.14

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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

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 1100 Central Expressway  
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October 23, 2007

Continued on page 2

#### 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.
L258252	HJ9	MONO TRUSS	1	1	J1903371 Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:03 2007 Page 2

#### NOTES

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 4, 95 lb uplift at joint 5 and 182 lb uplift at joint 2.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### 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=0(F=27, B=27)-to-4=-134(F=-40, B=-40), 2=-0(F=5, B=5)-to-5=-25(F=-7, B=-7)

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Lakeland, FL 33705

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903372
L258252	HJ9A	MONO TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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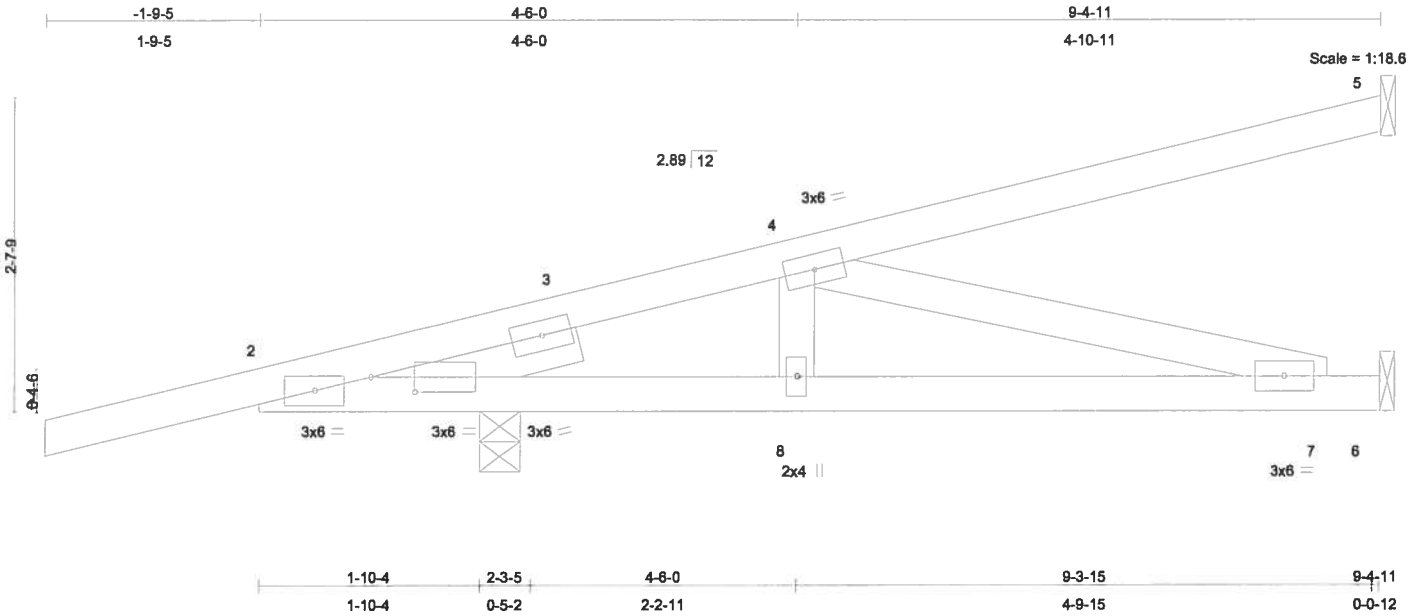


Plate Offsets (X,Y): [2:0-4-8,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.34	Vert(LL)	-0.03	7-8	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.27	Vert(TL)	-0.07	7-8	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.23	Horz(TL)	0.01	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 42 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  
 SLIDER Left 2 X 4 SYP No.3 1-9-1

**BRACING**

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

**REACTIONS**

(lb/size) 5=168/Mechanical, 2=291/0-4-1, 6=163/Mechanical  
 Max Horz 2=114(load case 3)  
 Max Uplift 5=-127(load case 3), 2=-189(load case 3), 6=-48(load case 3)  
 Max Grav 5=168(load case 1), 2=291(load case 1), 6=170(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-568/187, 3-4=-547/191, 4-5=-42/29  
 BOT CHORD 2-8=-266/541, 7-8=-266/541, 6-7=0/0  
 WEBS 4-8=0/159, 4-7=-559/275

**JOINT STRESS INDEX**

2 = 0.25, 2 = 0.21, 2 = 0.05, 3 = 0.00, 4 = 0.15, 7 = 0.15 and 8 = 0.11

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left 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

Julius Lee  
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 1100 Central Expressway  
 Lakeland, FL 33405

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903372
L258252	HJ9A	MONO TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 5, 189 lb uplift at joint 2 and 48 lb uplift at joint 6.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S) Standard**

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-2(F=26, B=26)-to-5=-94(F=-20, B=-20), 2=-0(F=5, B=5)-to-6=-17(F=-4, B=-4)

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October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903373
L258252	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 2, 143 lb uplift at joint 8, 158 lb uplift at joint 12 and 134 lb uplift at joint 10.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) Gable truss supports 16" max. rake gable overhang.

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-79(F=-25), 5-9=-54, 2-8=-10

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1100 Central Bay Blvd  
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October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903374
L258252	T02	COMMON	11	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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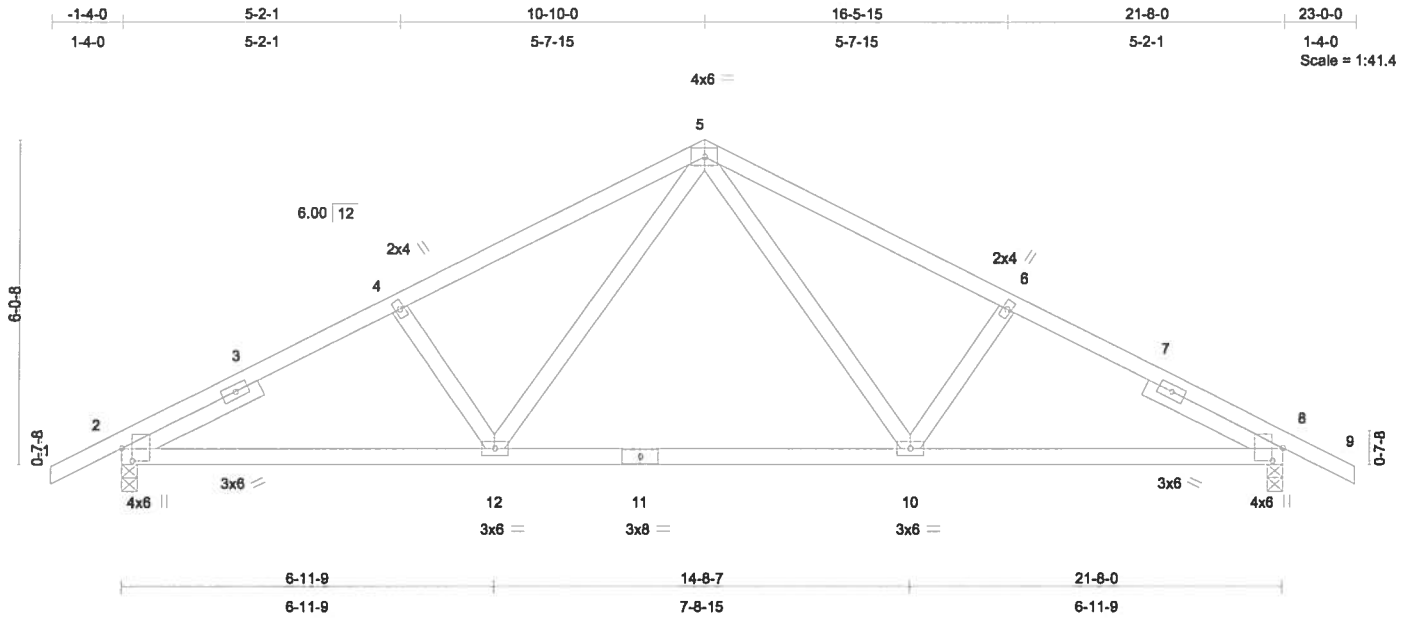


Plate Offsets (X,Y): [2:0-2-13,0-2-5], [8:0-2-13,0-2-5]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.36	Vert(LL)	0.30 10-12	>879	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.75	Vert(TL)	-0.48 10-12	>544	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.28	Horz(TL)	0.05 8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 111 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  
 SLIDER Left 2 X 4 SYP No.3 2-9-14,  
 Right 2 X 4 SYP No.3 2-9-14

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 7-3-14 oc bracing.

**REACTIONS** (lb/size) 2=998/0-3-8, 8=998/0-3-8  
 Max Horz 2=-81(load case 7)  
 Max Uplift 2=-273(load case 6), 8=-273(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-1675/922, 3-4=-1604/940, 4-5=-1523/938, 5-6=-1523/938,  
 6-7=-1604/940, 7-8=-1675/922, 8-9=0/18  
 BOT CHORD 2-12=-701/1395, 11-12=-403/992, 10-11=-403/992, 8-10=-701/1395  
 WEBS 4-12=-183/202, 5-12=-334/599, 5-10=-334/599, 6-10=-183/202

**JOINT STRESS INDEX**

2 = 0.92, 2 = 0.60, 3 = 0.00, 4 = 0.33, 5 = 0.76, 6 = 0.33, 7 = 0.00, 8 = 0.92, 8 = 0.60, 10 = 0.43, 11 = 0.84 and 12 = 0.43

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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.

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 Lakeland, FL 33809

October 23, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903374
L258252	T02	COMMON	11	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:05 2007 Page 2

**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 273 lb uplift at joint 2 and 273 lb uplift at joint 8.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S) Standard**

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-54, 5-9=-54, 2-12=-10, 10-12=-70(F=-60), 8-10=-10

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October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903375
L258252	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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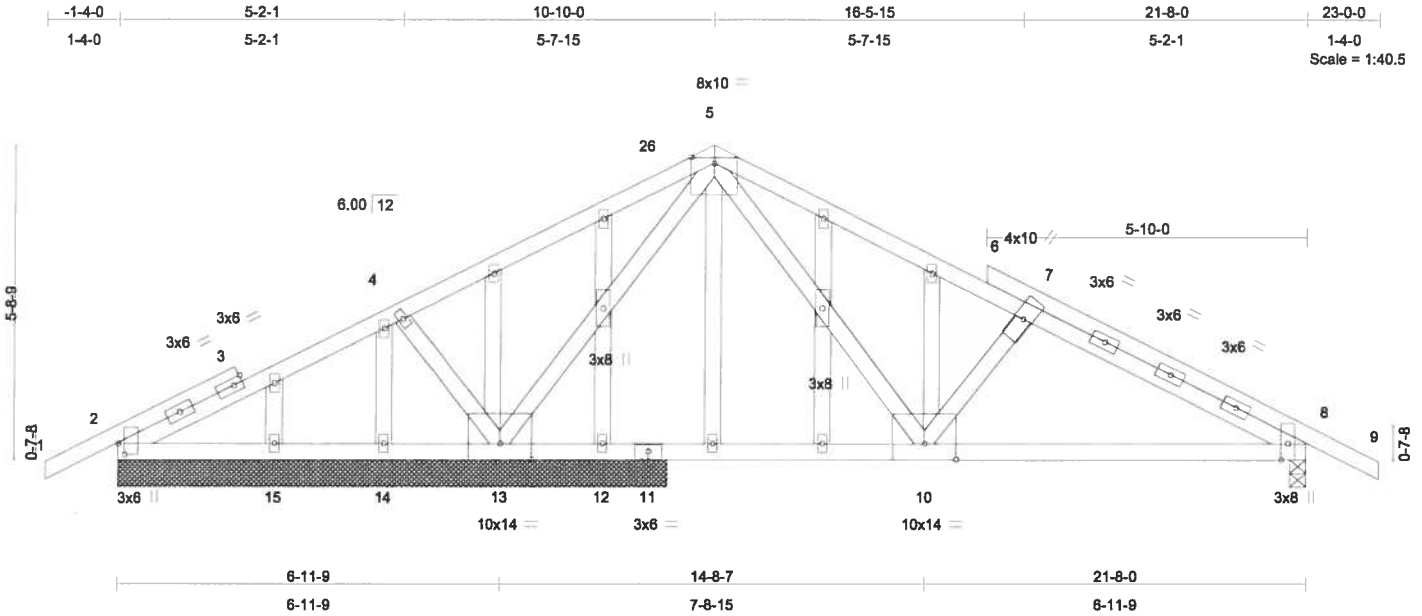


Plate Offsets (X,Y): [2:0-2-8,0-1-6]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.48	Vert(LL)	-0.04	8-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.28	Vert(TL)	-0.08	8-10	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.76	Horz(TL)	0.01	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 147 lb

**LUMBER**

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

**BRACING**

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

**REACTIONS** (lb/size) 2=276/10-0-0, 8=610/0-3-8, 13=1079/10-0-0, 12=67/10-0-0, 14=12/10-0-0, 15=63/10-0-0  
 Max Horz 2=-90(load case 7)  
 Max Uplift 2=-164(load case 6), 8=-311(load case 7), 13=-483(load case 6), 15=-7(load case 7)  
 Max Grav 2=313(load case 10), 8=610(load case 1), 13=1079(load case 1), 12=153(load case 2), 14=63(load case 2), 15=91(load case 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-2/27, 2-3=-160/105, 3-4=-4/153, 4-26=-69/270, 5-26=-83/385, 5-6=-659/477, 6-7=-739/470, 7-8=-960/558, 8-9=0/18  
 BOT CHORD 2-15=-96/124, 14-15=-96/124, 13-14=-96/124, 12-13=-26/312, 11-12=-26/312, 10-11=-26/312, 8-10=-407/837  
 WEBS 4-13=-405/342, 5-13=-949/542, 5-10=-290/496, 7-10=-437/355

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**JOINT STRESS INDEX**

2 = 0.75, 3 = 0.00, 3 = 0.27, 3 = 0.27, 4 = 0.33, 5 = 0.55, 6 = 0.00, 7 = 0.27, 7 = 0.32, 7 = 0.32, 7 = 0.32, 8 = 0.76, 10 = 0.22, 11 = 0.15, 12 = 0.33, 13 = 0.22, 14 = 0.33, 15 = 0.33, 16 = 0.33, 17 = 0.54, 18 = 0.33, 19 = 0.33, 20 = 0.33, 21 = 0.33, 22 = 0.33, 23 = 0.33, 24 = 0.54 and 25 = 0.33

October 23, 2007

Continued on page 2

**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 BCS-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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903375
L258252	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:06 2007 Page 2

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2, 311 lb uplift at joint 8, 483 lb uplift at joint 13 and 7 lb uplift at joint 15.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) Gable truss supports 16" max. rake gable overhang.

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)

Vert: 1-26=-79(F=-25), 5-26=-106(F=-52), 5-6=-106(F=-52), 6-9=-54, 2-8=-10

Justin Lee  
Truss Design Engineer  
Phone: 608-338-3888  
1170 Central Bay Blvd  
Layton, WI 53405

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903376
L258252	T03	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:07 2007 Page 1

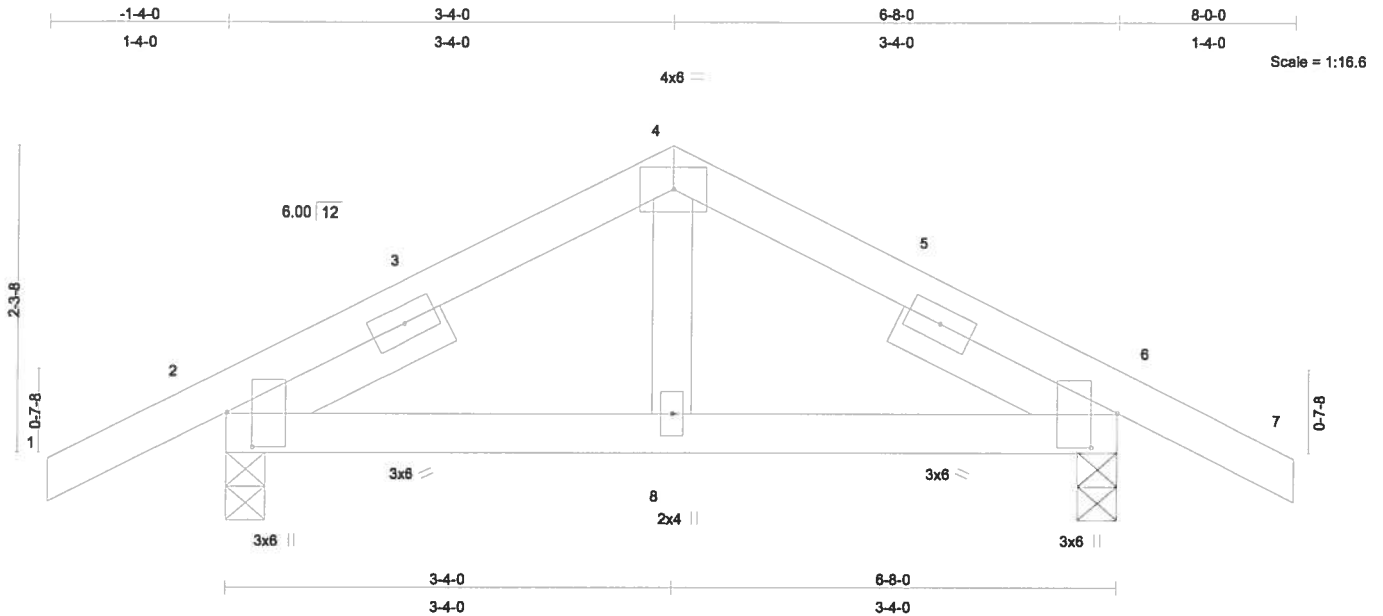


Plate Offsets (X,Y): [2:0-3-1,0-2-5], [6:0-3-1,0-2-5]

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	1.25	TC 0.11	Vert(LL)	-0.00	2-8	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.09	Vert(TL)	-0.01	2-8	>999	240		
BCLL 10.0	* Rep Stress Incr YES		WB 0.04	Horz(TL)	0.00	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 34 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  
 SLIDER Left 2 X 4 SYP No.3 1-9-7,  
 Right 2 X 4 SYP No.3 1-9-7

#### BRACING

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

**REACTIONS** (lb/size) 2=285/0-3-8, 6=285/0-3-8  
 Max Horz 2=-36(load case 7)  
 Max Uplift 2=-107(load case 6), 6=-107(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-247/146, 3-4=-180/148, 4-5=-180/148, 5-6=-247/146, 6-7=0/18  
 BOT CHORD 2-8=-13/161, 6-8=-13/161  
 WEBS 4-8=0/122

#### JOINT STRESS INDEX

2 = 0.24, 2 = 0.10, 3 = 0.00, 4 = 0.06, 5 = 0.00, 6 = 0.24, 6 = 0.10 and 8 = 0.09

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Justin Lee  
 Truss Design Engineer  
 Florida PE No. 37889  
 1100 Central Expressway  
 Lakeland, FL 33805

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903376
L258252	T03	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:07 2007 Page 2

**NOTES**

- 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 107 lb uplift at joint 2 and 107 lb uplift at joint 6.

**LOAD CASE(S)** Standard

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 Truss Design Engineer  
 Florida PE No. 34880  
 1100 Coastal Hwy Blvd  
 Daytona Beach, FL 32105

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903377
L258252	T03G	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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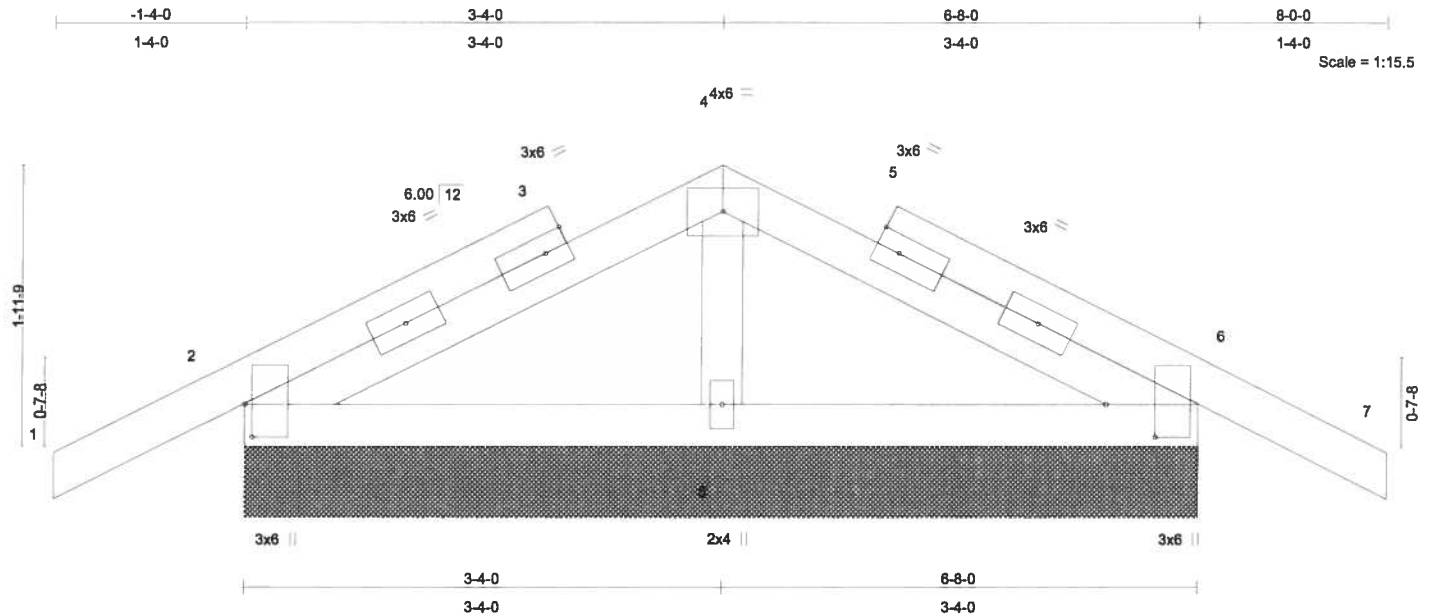


Plate Offsets (X,Y): [2:0-2-12,0-0-10], [6:0-2-12,0-4-2]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0 1.25	TC 0.15	Vert(LL) -0.00	7	n/r	120	MT20	244/190	
TCDL 7.0	Lumber Increase 1.25	BC 0.09	Vert(TL) -0.00	7	n/r	90			
BCLL 10.0	* Rep Stress Incr NO	WB 0.04	Horz(TL) 0.00	6	n/a	n/a			
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							Weight: 35 lb

**LUMBER**

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

**BRACING**

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

**REACTIONS**

(lb/size) 2=283/6-8-0, 6=283/6-8-0, 8=238/6-8-0  
 Max Horz 2=-37(load case 7)  
 Max Uplift 2=-177(load case 6), 6=-186(load case 7), 8=-53(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-4/27, 2-3=-96/84, 3-4=-15/72, 4-5=-15/72, 5-6=-96/84, 6-7=-4/27  
 BOT CHORD 2-8=0/27, 6-8=0/27  
 WEBS 4-8=-196/151

**JOINT STRESS INDEX**

2 = 0.77, 3 = 0.00, 3 = 0.27, 3 = 0.27, 4 = 0.06, 5 = 0.00, 5 = 0.27, 5 = 0.27, 6 = 0.77 and 8 = 0.08

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Cable requires continuous bottom chord bearing.

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 1120 Central Expressway  
 Boynton Beach, FL 33426

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903377
L258252	T03G	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:08 2007 Page 2

**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 177 lb uplift at joint 2, 186 lb uplift at joint 6 and 53 lb uplift at joint 8.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) Gable truss supports 16" max. rake gable overhang.

**LOAD CASE(S) Standard**

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-79(F=-25), 4-7=-79(F=-25), 2-6=-10

Julius Lee  
Truss Design Engineer  
Florida PE No. 03888  
11722 Central Bay Blvd  
Lakeland, FL 33855

October 23, 2007

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

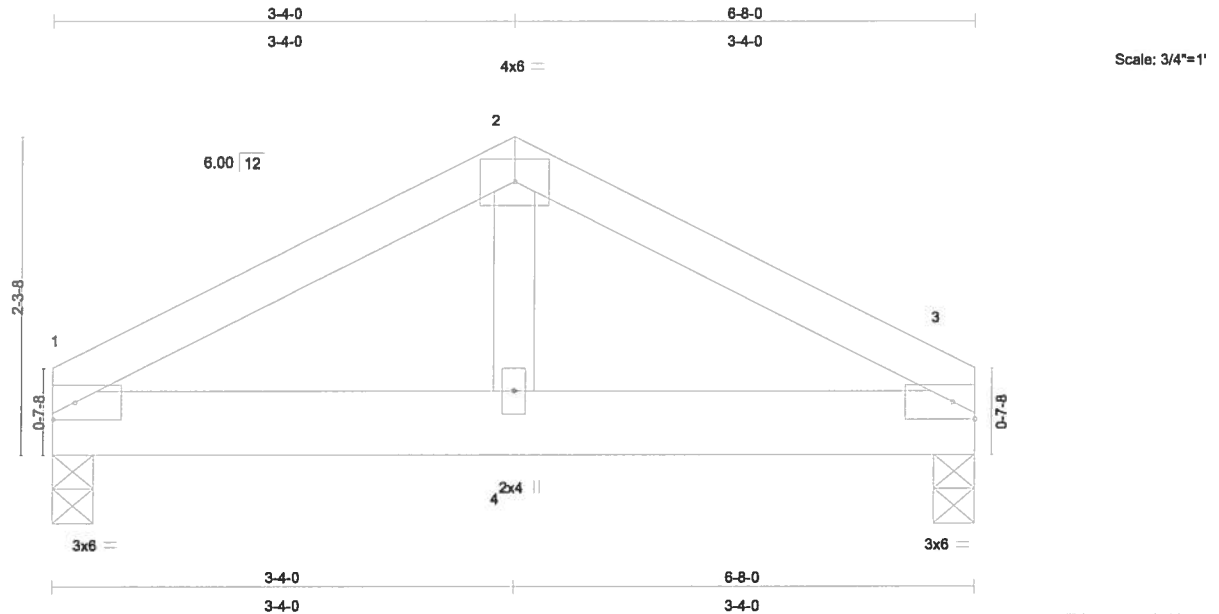
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903378
L258252	T04	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.15	Vert(LL)	-0.00	4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.10	Vert(TL)	-0.01	4	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.11	Horz(TL)	0.00	3	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 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=459/0-3-8, 3=459/0-3-8  
 Max Horz 1=-24(load case 3)  
 Max Uplift 1=-114(load case 5), 3=-114(load case 6)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-523/124, 2-3=-523/124  
 BOT CHORD 1-4=-82/419, 3-4=-82/419  
 WEBS 2-4=-59/330

#### JOINT STRESS INDEX

1 = 0.30, 2 = 0.15, 3 = 0.30 and 4 = 0.23

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 1 and 114 lb uplift at joint 3.
- Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 6-8-0

Justin Lee  
 TRUSS DESIGN ENGINEER  
 FLORIDA REGISTERED PROFESSIONAL ENGINEER  
 LICENSE NO. 12454  
 6300 ENTERPRISE LANE, MADISON, WI 53719

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903378
L258252	T04	COMMON	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

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: 1-2=-54, 2-3=-54, 1-3=-90(F=-80)

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 Truss Design Engineer  
 Florida PE No. 31888  
 1800 Central Express Blvd  
 Lakeland, FL 33405

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903379
L258252	T05	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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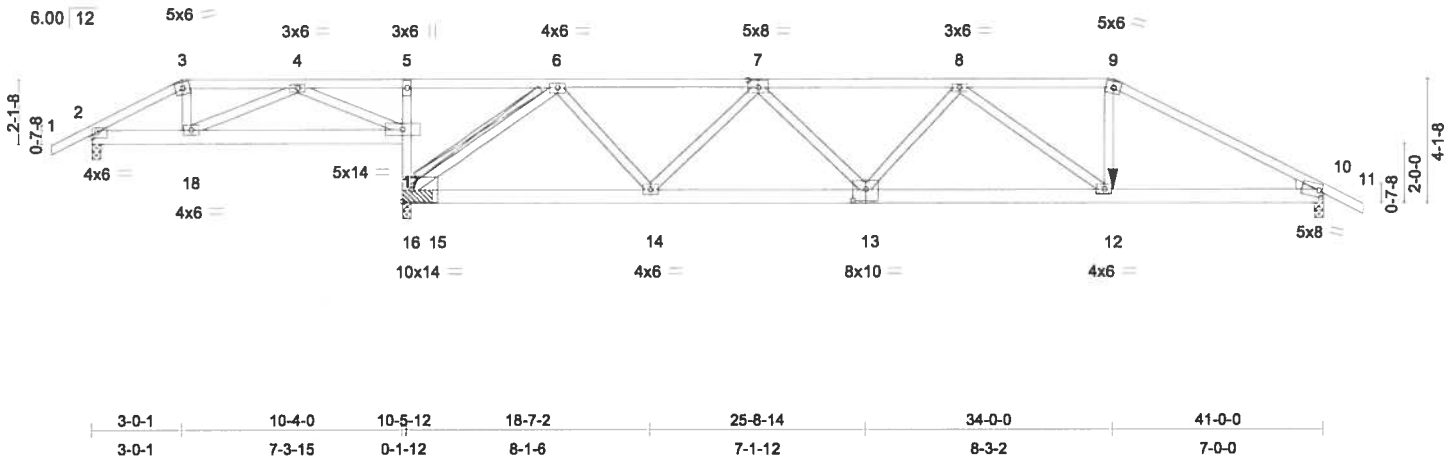


Plate Offsets (X,Y): [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-4-0,0-3-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-1-6 0-2-8], [13:0-5-0 0-4-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.86	Vert(LL)	-0.21 13	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.93	Vert(TL)	-0.42 12-13	>865	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.88	Horz(TL)	-0.10 16	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 6 SYP No.1D \*Except\*  
 5-16 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 WEDGE  
 Right: 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-3-2 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 3-1-13 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 6-16  
 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.  
 Brace must cover 90% of web length.

**REACTIONS**

(lb/size) 2=693/0-3-8, 16=3621/0-4-4 (0-3-8 + bearing block), 10=2016/0-3-8  
 Max Horz 2=101(load case 6)  
 Max Uplift 2=-326(load case 5), 16=-1355(load case 4), 10=-622(load case 6)  
 Max Grav 2=696(load case 9), 16=3621(load case 1), 10=2017(load case 10)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-956/423, 3-4=-808/390, 4-5=-115/334, 5-6=-89/265, 6-7=-3159/1087,  
 7-8=-4208/1441, 8-9=-3243/1118, 9-10=-3725/1219, 10-11=0/22  
 BOT CHORD 2-18=-326/783, 17-18=-164/422, 16-17=-1714/756, 5-17=-408/196, 15-16=-739/2193,  
 14-15=-739/2193, 13-14=-1373/4077, 12-13=-1410/4194, 10-12=-1009/3193  
 WEBS 3-18=-164/311, 4-18=-199/430, 4-17=-830/367, 6-16=-3072/1106, 6-14=-397/1513,  
 7-14=-1332/552, 7-13=0/228, 8-13=0/185, 8-12=-1283/519, 9-12=-387/1304

John A. Lee  
 Truss Design Engineer  
 Florida PE No. 37888  
 1100 Coastal Parkway  
 Daytona Beach, FL 32119

**JOINT STRESS INDEX**

2 = 0.40, 3 = 0.20, 4 = 0.35, 5 = 0.38, 6 = 1.00, 7 = 0.78, 8 = 0.37, 9 = 0.81, 10 = 0.86, 12 = 0.60, 13 = 0.69, 14 = 0.69, 15 = 0.00, 15 = 0.00, 16 = 0.51, 16 = 0.00, 17 = 0.68 and 18 = 0.25

October 23, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903379
L258252	T05	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

- 1) 2 X 6 SYP No.1D bearing block 12" long at jt. 16 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SYP.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; porch left exposed; 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.
- 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 326 lb uplift at joint 2, 1355 lb uplift at joint 16 and 622 lb uplift at joint 10.
- 8) Girder carries tie-in span(s): 7-0-0 from 0-0-0 to 10-4-0
- 9) Girder carries hip end with 7-0-0 right side setback, 10-4-0 left side setback, and 7-0-0 end setback.
- 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: 1-3=-54, 3-5=-54, 5-9=-118(F=-64), 9-11=-54, 2-17=-85(F=-75), 12-16=-22(F=-12), 10-12=-10

Concentrated Loads (lb)

Vert: 17=-606(F) 12=-411(F)

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October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903380
L258252	T06	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:11 2007 Page 1

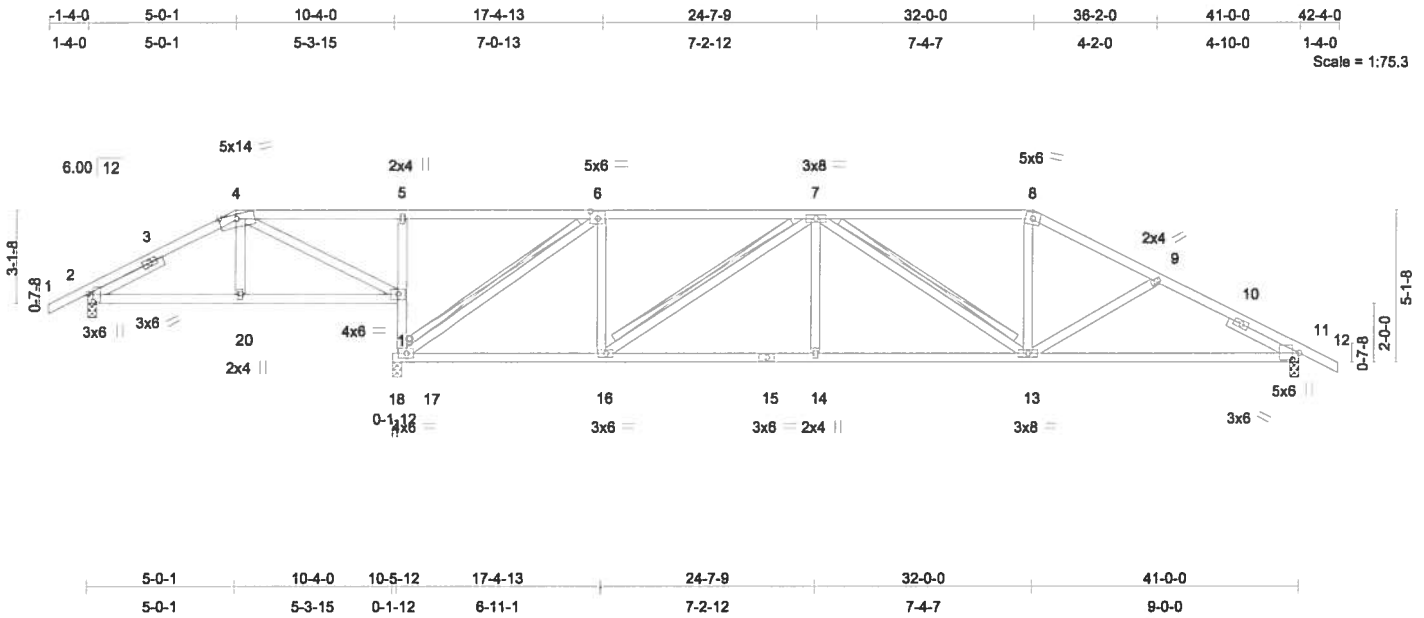


Plate Offsets (X,Y): [2:0-3-1,0-2-2], [6:0-3-0,0-3-0], [11:0-2-13,0-2-9]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.36	Vert(LL)	-0.12 11-13	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.44	Vert(TL)	-0.23 11-13	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.54	Horz(TL)	-0.05 17	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\*  
 5-17 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 2-9-10,  
 Right 2 X 4 SYP No.3 2-7-7

**BRACING**

TOP CHORD Structural wood sheathing directly applied or  
 4-10-1 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 7-6-10 oc  
 bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 -  
 6-17, 7-16, 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=376/0-3-8, 17=1364/0-3-8, 11=1031/0-3-8  
 Max Horz 2=-110(load case 7)  
 Max Uplift 2=-269(load case 6), 17=-471(load case 5), 11=-246(load case 7)  
 Max Grav 2=378(load case 10), 17=1364(load case 1), 11=1031(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-393/499, 3-4=-274/513, 4-5=0/187, 5-6=0/201, 6-7=-1034/737,  
 7-8=-1299/830, 8-9=-1464/858, 9-10=-1596/931, 10-11=-1649/915, 11-12=0/18  
 BOT CHORD 2-20=-236/286, 19-20=-246/289, 17-19=-556/504, 5-19=-352/240, 17-18=0/0,  
 16-17=-459/1022, 15-16=-697/1524, 14-15=-697/1524, 13-14=-697/1524,  
 11-13=-694/1390  
 WEBS 4-20=-189/162, 4-19=-402/373, 6-17=-1321/658, 6-16=-118/440, 7-16=-591/283,  
 7-14=0/205, 7-13=-376/170, 8-13=-128/361, 9-13=-117/165

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 3-1888  
 1100 Central Express Blvd  
 Levittown Beach, FL 32055

Continued on page 2

October 23, 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 BCS-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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903380
L258252	T06	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**JOINT STRESS INDEX**

2 = 0.76, 2 = 0.17, 3 = 0.00, 4 = 0.54, 5 = 0.40, 6 = 0.76, 7 = 0.56, 8 = 0.57, 9 = 0.33, 10 = 0.00, 11 = 0.89, 11 = 0.59, 13 = 0.56, 14 = 0.33, 15 = 0.51, 16 = 0.34, 17 = 0.37, 19 = 0.56 and 20 = 0.33

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 269 lb uplift at joint 2, 471 lb uplift at joint 17 and 246 lb uplift at joint 11.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 3-1888  
 1100 Coastal Hwy Blvd  
 Daytona Beach, FL 32105

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903381
L258252	T07	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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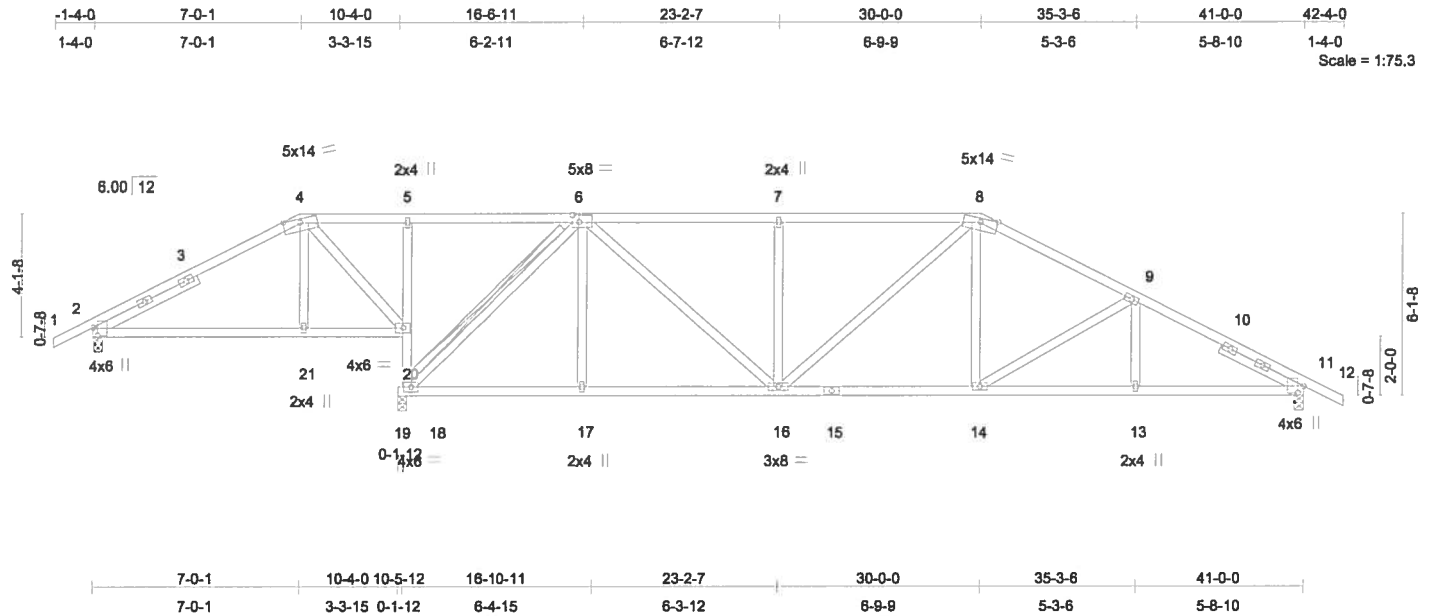


Plate Offsets (X,Y): [2:0-3-1,0-1-14], [6:0-2-12,0-3-0], [11:0-2-13,0-2-5]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.33	Vert(LL)	0.13 2-21	>988	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.30	Vert(TL)	-0.15 14-16	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.46	Horz(TL)	-0.04 18	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\*  
 5-18 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 3-11-0,  
 Right 2 X 4 SYP No.3 3-1-7

**BRACING**

TOP CHORD Structural wood sheathing directly applied or  
 4-11-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 7-6-6 oc  
 bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 -  
 6-18  
 Fasten T and I braces to narrow edge of web  
 with 10d Common wire nails, 9in o.c., with 4in  
 minimum end distance.  
 Brace must cover 90% of web length.

**REACTIONS**

(lb/size) 2=385/0-3-8, 18=1352/0-3-8, 11=1034/0-3-8  
 Max Horz 2=-122(load case 7)  
 Max Uplift 2=-295(load case 6), 18=-428(load case 5), 11=-271(load case 7)  
 Max Grav 2=390(load case 10), 18=1352(load case 1), 11=1034(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-337/476, 3-4=-243/494, 4-5=0/255, 5-6=0/283, 6-7=-1232/883,  
 7-8=-1233/883, 8-9=-1371/860, 9-10=-1607/952, 10-11=-1668/931, 11-12=0/18  
 BOT CHORD 2-21=-198/218, 20-21=-207/221, 18-20=-514/441, 5-20=-257/127, 18-19=0/0,  
 17-18=-352/770, 16-17=-351/772, 15-16=-508/1183, 14-15=-508/1183,  
 13-14=-709/1407, 11-13=-709/1407  
 WEBS 4-21=-235/188, 4-20=-407/403, 6-18=-1145/559, 6-17=0/199, 6-16=-273/611,  
 7-16=-385/264, 8-16=-102/202, 8-14=-85/281, 9-14=-266/235, 9-13=0/153

Julius Lee  
 Truss Design Engineer  
 Builders FirstSource  
 6300 Enterprise Lane, Madison, WI 53719

Continued on page 2

October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903381
L258252	T07	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

6.300 s Feb 15 2006 MITek Industries, Inc. Mon Oct 22 16:09:12 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.82, 2 = 0.15, 2 = 0.15, 3 = 0.00, 4 = 0.84, 5 = 0.68, 6 = 0.80, 7 = 0.33, 8 = 0.88, 9 = 0.39, 10 = 0.00, 11 = 0.93, 11 = 0.30, 11 = 0.30, 13 = 0.33, 14 = 0.34, 15 = 0.40, 16 = 0.58, 17 = 0.33, 18 = 0.34, 20 = 0.25 and 21 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 295 lb uplift at joint 2, 428 lb uplift at joint 18 and 271 lb uplift at joint 11.

LOAD CASE(S) Standard

Julius Lee  
Truss Design Engineer  
Florida P.E. No. 34888  
1100 Coastal Bay Blvd  
Loynton Beach, FL 33485

October 23,2007

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

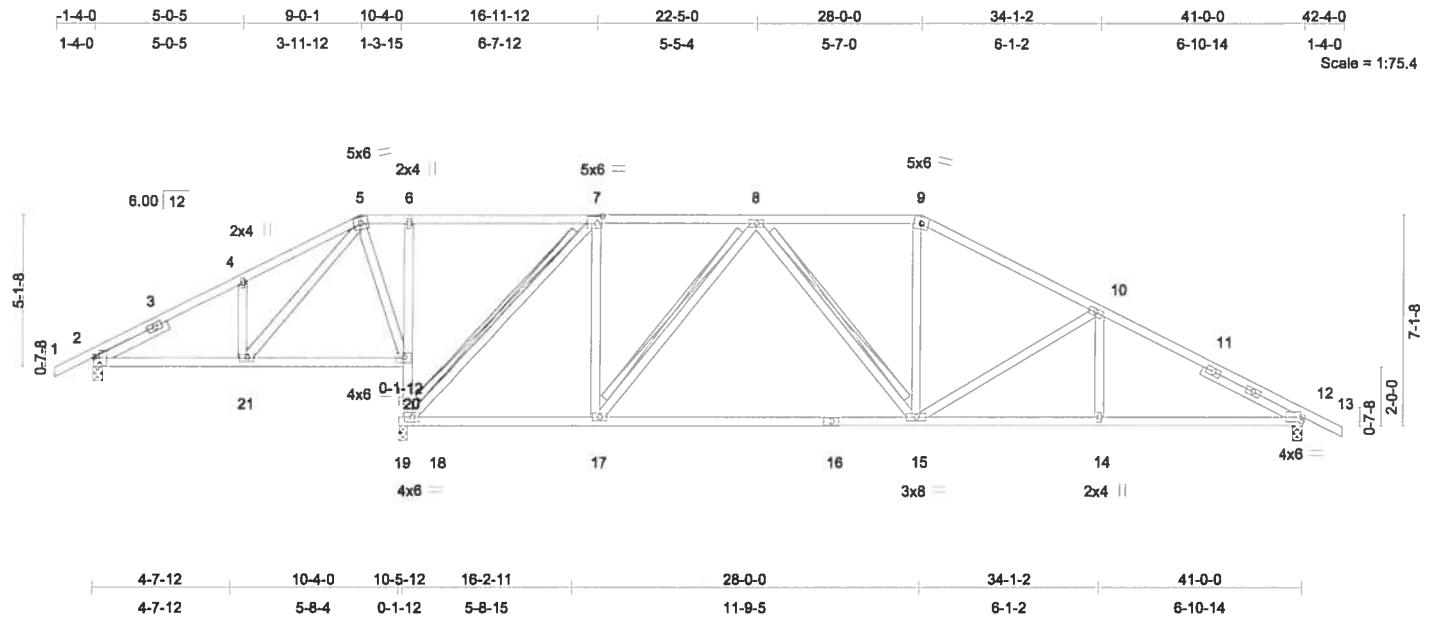
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MITek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903382
L258252	T08	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.30	Vert(LL)	-0.27 15-17	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.61	Vert(TL)	-0.50 15-17	>735	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.55	Horz(TL)	-0.04 18	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 243 lb

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 6-18 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 2-8-12,  
 Right 2 X 4 SYP No.3 3-9-6

**BRACING**

TOP CHORD Structural wood sheathing directly applied or  
 5-1-6 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc  
 bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 -  
 7-18, 8-17, 8-15  
 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=366/0-3-8, 18=1378/0-3-8, 12=1028/0-3-8  
 Max Horz 2=-134(load case 7)  
 Max Uplift 2=-293(load case 6), 18=-411(load case 5), 12=-287(load case 7)  
 Max Grav 2=372(load case 10), 18=1378(load case 1), 12=1029(load case 11)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-376/599, 3-4=-300/613, 4-5=-354/735, 5-6=0/284, 6-7=0/296,  
 7-8=-690/646, 8-9=-1058/797, 9-10=-1250/815, 10-11=-1491/955, 11-12=-1633/938,  
 12-13=0/18  
 BOT CHORD 2-21=-322/268, 20-21=-44/43, 18-20=-562/467, 6-20=-297/178, 18-19=0/0,  
 17-18=-270/692, 16-17=-422/984, 15-16=-422/984, 14-15=-699/1375,  
 12-14=-699/1375  
 WEBS 4-21=-248/239, 5-21=-552/391, 5-20=-270/198, 7-18=-1091/512, 7-17=-139/497,  
 8-17=-474/245, 8-15=-45/161, 9-15=-112/280, 10-15=-375/327, 10-14=0/159

John Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32115

October 23, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903382
L258252	T08	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:13 2007 Page 2

### JOINT STRESS INDEX

2 = 0.73, 2 = 0.21, 3 = 0.00, 4 = 0.33, 5 = 0.29, 6 = 0.58, 7 = 0.69, 8 = 0.39, 9 = 0.50, 10 = 0.39, 11 = 0.00, 12 = 0.82, 12 = 0.29, 12 = 0.29, 14 = 0.33, 15 = 0.56, 16 = 0.42, 17 = 0.39, 18 = 0.34, 20 = 0.53 and 21 = 0.38

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 293 lb uplift at joint 2, 411 lb uplift at joint 18 and 287 lb uplift at joint 12.

**LOAD CASE(S)** Standard

Julius Lee  
 TRUSS DESIGN ENGINEER  
 Florida PE No. 3-8833  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32110

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903383
L258252	T09	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Oct 23 08:31:16 2007 Page 1

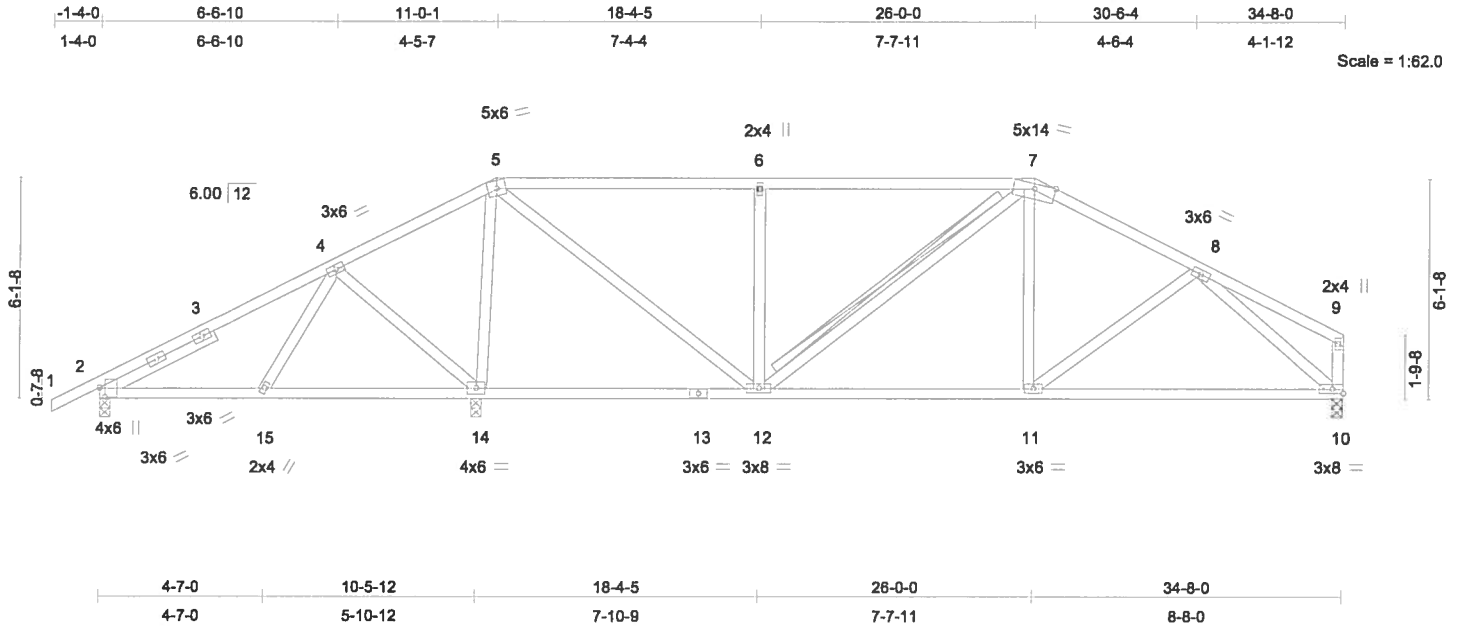


Plate Offsets (X,Y): [2:0-3-1, 0-1-14]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.57	Vert(LL)	-0.09 10-11	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.31	Vert(TL)	-0.17 10-11	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.75	Horz(TL)	0.02 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 197 lb

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 3-6-6

**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 - 7-12  
 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=327/0-3-8, 14=1224/0-3-8, 10=731/0-3-8  
 Max Horz 2=118(load case 6)  
 Max Uplift 2=-241(load case 6), 14=-411(load case 5), 10=-137(load case 7)  
 Max Grav 2=344(load case 10), 14=1224(load case 1), 10=731(load case 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-297/336, 3-4=-203/349, 4-5=-61/208, 5-6=-647/428, 6-7=-647/428,  
 7-8=-838/484, 8-9=-172/78, 9-10=-159/110  
 BOT CHORD 2-15=-279/181, 14-15=-133/137, 13-14=-92/163, 12-13=-92/163, 11-12=-275/713,  
 10-11=-347/676  
 WEBS 4-15=-293/182, 4-14=-326/462, 5-14=-938/547, 5-12=-477/903, 6-12=-438/306,  
 7-12=-95/81, 7-11=-7/202, 8-11=-34/150, 8-10=-785/446

Julius Law  
 Truss Design Engineer  
 1100 Coastal Hwy Blvd  
 Daytona Beach, FL 32118

**JOINT STRESS INDEX**

2 = 0.83, 2 = 0.15, 2 = 0.15, 3 = 0.00, 4 = 0.41, 5 = 0.55, 6 = 0.34, 7 = 0.96, 8 = 0.41, 9 = 0.79, 10 = 0.55, 11 = 0.35, 12 = 0.88, 13 = 0.15, 14 = 0.25 and 15 = 0.34

October 23, 2007

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903383
L258252	T09	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Oct 23 08:31:16 2007 Page 2

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 241 lb uplift at joint 2, 411 lb uplift at joint 14 and 137 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Please do not alter or  
 delete any part  
 without written permission

October 23, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M11-7473 BEFORE USE**

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903384
L258252	T10	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Oct 23 08:31:45 2007 Page 1

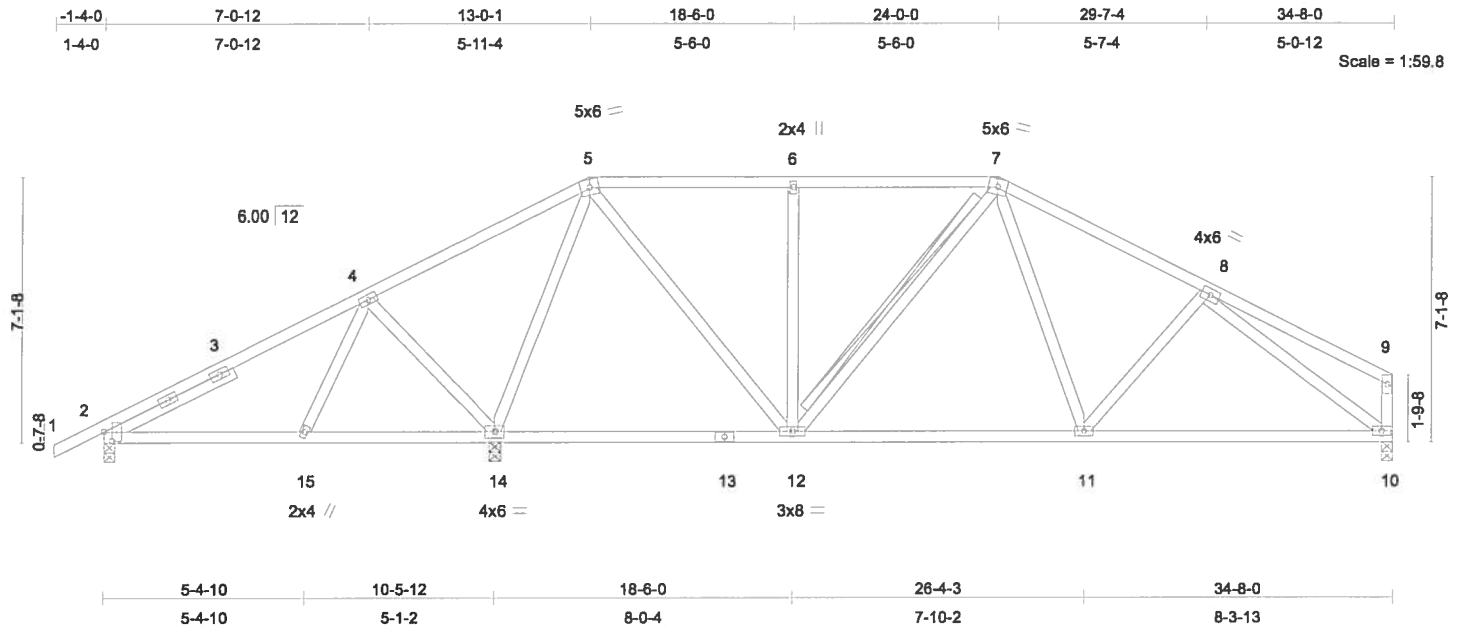


Plate Offsets (X,Y): [2:0-2-13 0-2-10]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.49	Vert(LL)	-0.07 10-11	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.29	Vert(TL)	-0.13 10-11	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.84	Horz(TL)	0.02 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 202 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  
 SLIDER Left 2 X 4 SYP No.3 3-10-0

**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 - 7-12  
 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=349/0-3-8, 14=1191/0-3-8, 10=742/0-3-8  
 Max Horz 2=130(load case 6)  
 Max Uplift 2=-248(load case 6), 14=-359(load case 6), 10=-152(load case 7)  
 Max Grav 2=373(load case 10), 14=1191(load case 1), 10=742(load case 1)

**FORCES (lb) - Maximum Compression/Maximum Tension**

TOP CHORD 1-2=0/18, 2-3=-333/319, 3-4=-238/336, 4-5=-25/204, 5-6=-564/428, 6-7=-564/428,  
 7-8=-839/526, 8-9=-169/112, 9-10=-175/137  
 BOT CHORD 2-15=-265/213, 14-15=-153/180, 13-14=-30/185, 12-13=-30/185, 11-12=-235/644,  
 10-11=-380/738  
 WEBS 4-15=-271/164, 4-14=-392/531, 5-14=-888/494, 5-12=-299/633, 6-12=-306/194,  
 7-12=-137/121, 7-11=-92/225, 8-11=-78/179, 8-10=-824/446

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 3-1888  
 1100 Coastal Pkwy Blvd  
 Daytona Beach, FL 32115

**JOINT STRESS INDEX**

2 = 0.94, 2 = 0.15, 2 = 0.15, 3 = 0.00, 4 = 0.41, 5 = 0.48, 6 = 0.34, 7 = 0.45, 8 = 0.27, 9 = 0.29, 10 = 0.70, 11 = 0.49, 12 = 0.64, 13 = 0.15, 14 = 0.34 and 15 = 0.34

October 23, 2007

Continued on page 2

**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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903384
L258252	T10	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 248 lb uplift at joint 2, 359 lb uplift at joint 14 and 152 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 04886  
 1192 Central Bay Blvd  
 Daytona Beach, FL 32105

October 23,2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903385
L258252	T11	SPECIAL	1	1		
Job Reference (optional)						

Builders FirstSource, Lake City, FL 32055

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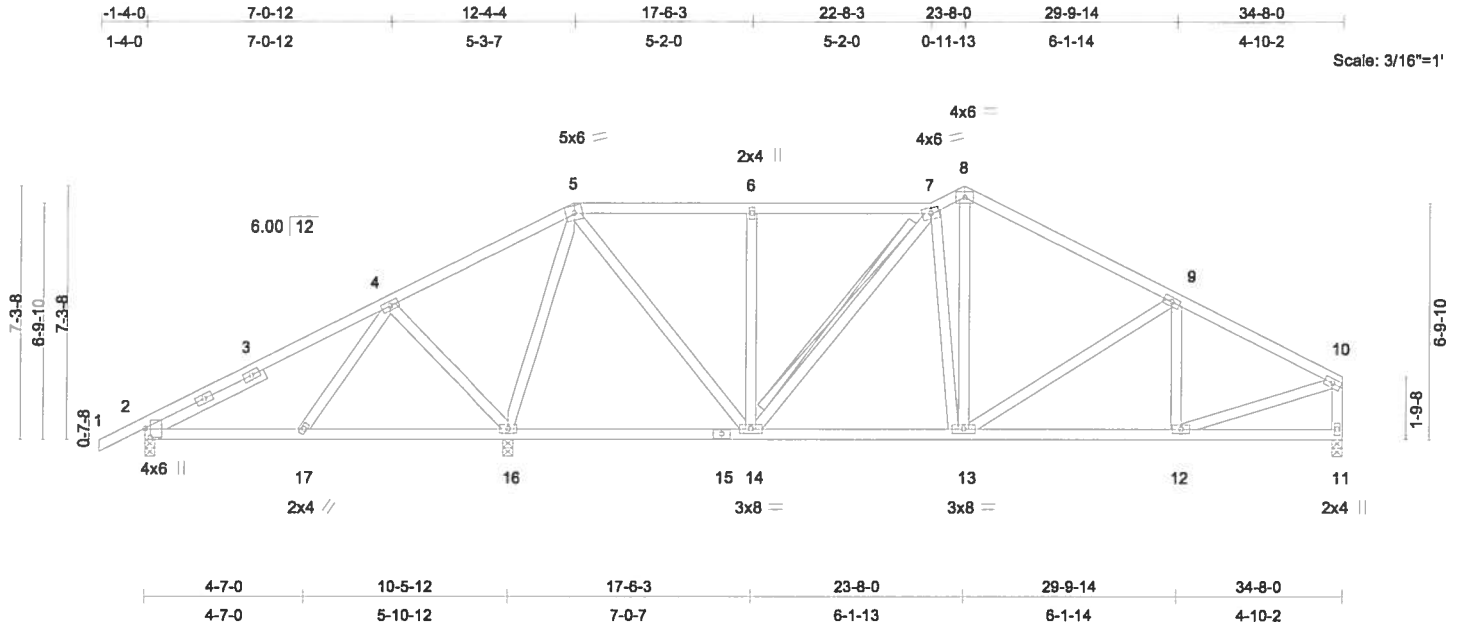


Plate Offsets (X,Y): [2:0-3-1,0-1-14], [2:0-0-0,0-0-0], [2:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.36	Vert(LL)	0.05 16-17	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.22	Vert(TL)	-0.08 14-16	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.75	Horz(TL)	0.02 11	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 216 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  
 SLIDER Left 2 X 4 SYP No.3 3-9-9

**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 - 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=322/0-3-8, 16=1229/0-3-8, 11=730/0-3-8  
 Max Horz 2=132(load case 6)  
 Max Uplift 2=230(load case 6), 16=469(load case 6), 11=151(load case 7)  
 Max Grav 2=343(load case 10), 16=1229(load case 1), 11=730(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-292/324, 3-4=-194/339, 4-5=-57/246, 5-6=-511/382, 6-7=-511/382,  
 7-8=-656/481, 8-9=-770/471, 9-10=-874/473, 10-11=-703/397  
 BOT CHORD 2-17=-264/174, 16-17=-104/118, 15-16=-11/90, 14-15=-11/90, 13-14=-229/650,  
 12-13=-363/737, 11-12=-47/67  
 WEBS 4-17=-309/198, 4-16=-376/491, 5-16=-919/516, 5-14=-354/684, 6-14=-296/208,  
 7-14=-223/160, 7-13=-316/109, 8-13=-163/371, 9-13=-194/176, 9-12=-175/147,  
 10-12=-333/706

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34828  
 1100 Coastal Pkwy Blvd  
 Daytona Beach, FL 32119

**JOINT STRESS INDEX**

2 = 0.94, 2 = 0.15, 2 = 0.15, 3 = 0.00, 4 = 0.40, 5 = 0.37, 6 = 0.35, 7 = 0.37, 8 = 0.67, 9 = 0.41, 10 = 0.74, 11 = 0.46, 12 = 0.40, 13 = 0.59, 14 = 0.69, 15 = 0.15, 16 = 0.51 and 17 = 0.34

October 23, 2007

Continued on page 2

**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, 8300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903385
L258252	T11	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 230 lb uplift at joint 2, 469 lb uplift at joint 16 and 151 lb uplift at joint 11.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 6300 Enterprise Lane, FL 32055

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903386
L258252	T12	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:18 2007 Page 1

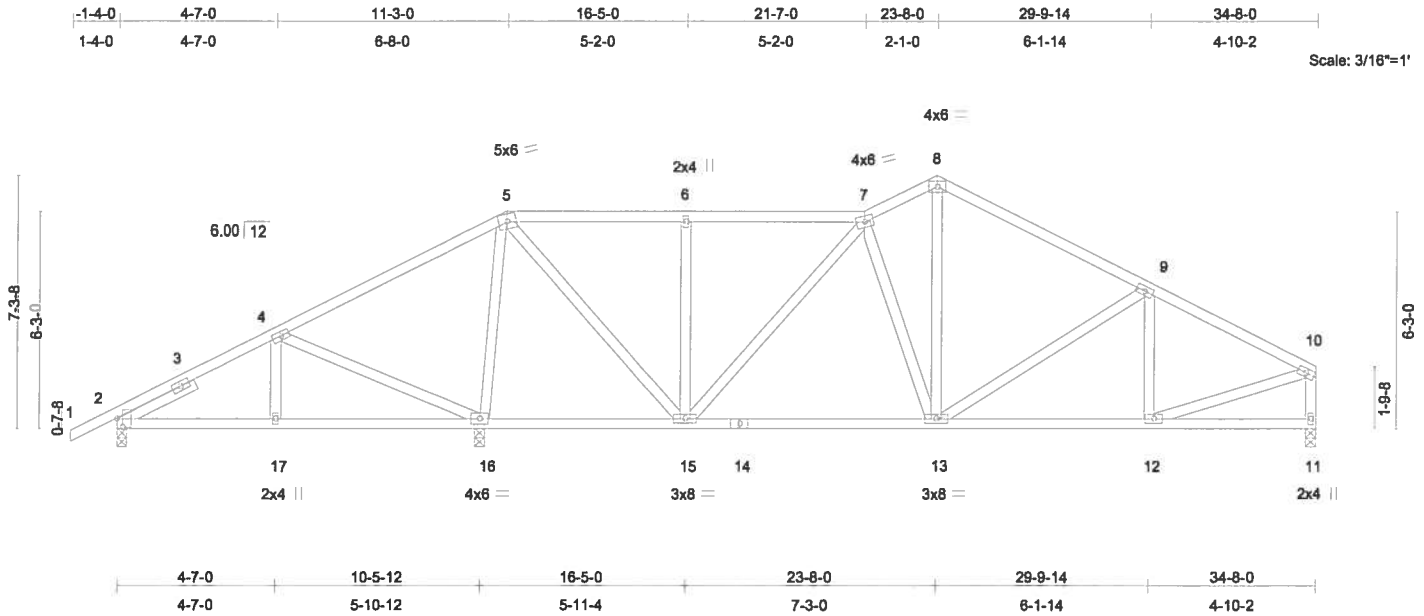


Plate Offsets (X,Y): [2:0-3-1,0-2-2]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.34	Vert(LL)	0.06 16-17	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.25	Vert(TL)	-0.11 13-15	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.69	Horz(TL)	0.01 11	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 209 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  
 SLIDER Left 2 X 4 SYP No.3 2-5-13

**BRACING**

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

**REACTIONS** (lb/size) 2=237/0-3-8, 16=1359/0-3-8, 11=685/0-3-8  
 Max Horz 2=132(load case 6)  
 Max Uplift 2=-189(load case 6), 16=-535(load case 6), 11=-138(load case 7)  
 Max Grav 2=265(load case 10), 16=1359(load case 1), 11=685(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-204/225, 3-4=-96/240, 4-5=-268/436, 5-6=-346/222, 6-7=-346/222,  
 7-8=-625/431, 8-9=-692/403, 9-10=-815/424, 10-11=-657/360  
 BOT CHORD 2-17=-220/133, 16-17=-220/133, 15-16=-197/291, 14-15=-180/598, 13-14=-180/598,  
 12-13=-320/685, 11-12=-43/64  
 WEBS 4-17=-215/166, 4-16=-437/640, 5-16=-1127/714, 5-15=-441/829, 6-15=-275/185,  
 7-15=-385/278, 7-13=-226/89, 8-13=-156/306, 9-13=-204/200, 9-12=-161/132,  
 10-12=-291/654

John Lee  
 Truss Design Engineer  
 Florida PE No. 34888  
 1100 Coastal Hwy Blvd  
 Daytona Beach, FL 32115

**JOINT STRESS INDEX**

2 = 0.73, 2 = 0.15, 3 = 0.00, 4 = 0.39, 5 = 0.60, 6 = 0.33, 7 = 0.39, 8 = 0.55, 9 = 0.39, 10 = 0.68, 11 = 0.47, 12 = 0.36, 13 = 0.64, 14 = 0.22, 15 = 0.80, 16 = 0.26 and 17 = 0.33

Continued on page 2

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903386
L258252	T12	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:18 2007 Page 2

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 189 lb uplift at joint 2, 535 lb uplift at joint 16 and 138 lb uplift at joint 11.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Plate No. 2-1008  
11755 Corporate Way Blvd  
Lakeland, FL 33705

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903387
L258252	T13	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:19 2007 Page 1

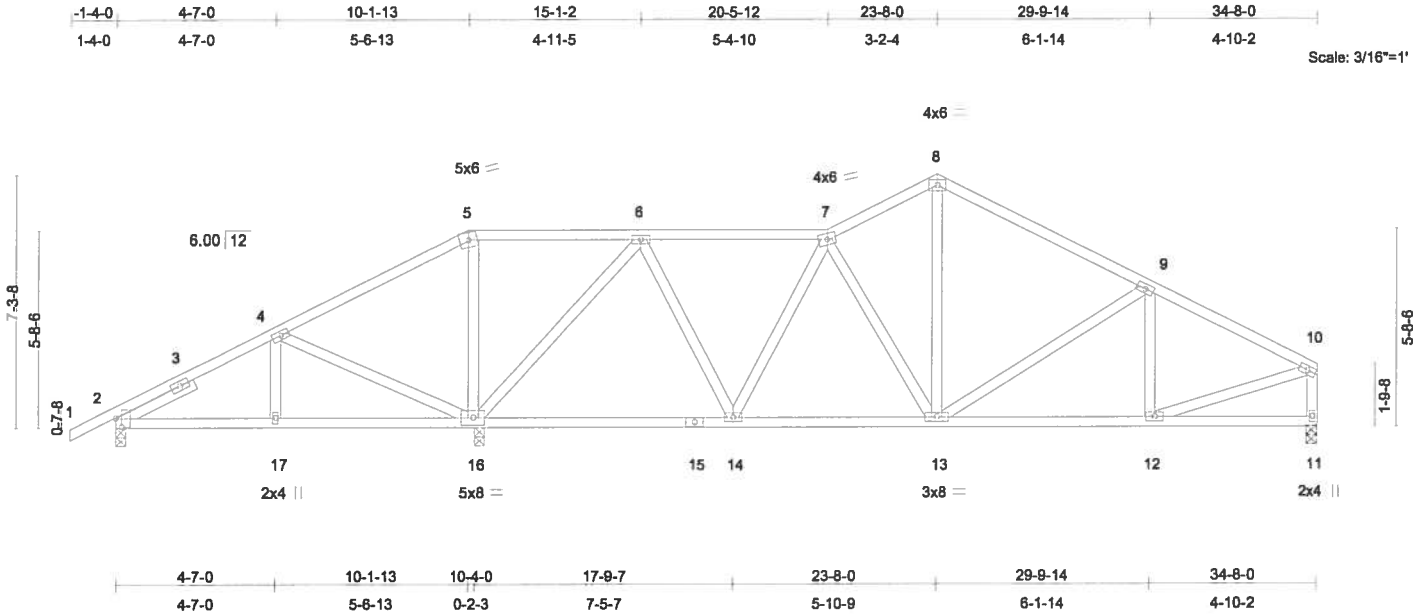


Plate Offsets (X,Y): [2:0-3-1,0-2-2]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.28	Vert(LL)	-0.05 14-16	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.25	Vert(TL)	-0.10 14-16	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.88	Horz(TL)	0.02 11	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 205 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  
 SLIDER Left 2 X 4 SYP No.3 2-5-13

**BRACING**

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

**REACTIONS**

(lb/size) 2=177/0-3-8, 16=1427/0-3-8, 11=678/0-3-8  
 Max Horz 2=132(load case 6)  
 Max Uplift 2=-176(load case 6), 16=-537(load case 6), 11=-138(load case 7)  
 Max Grav 2=217(load case 10), 16=1427(load case 1), 11=678(load case 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-96/150, 3-4=0/162, 4-5=-308/509, 5-6=-205/408, 6-7=-429/260, 7-8=-629/430, 8-9=-675/406, 9-10=-806/426, 10-11=-651/361  
 BOT CHORD 2-17=-172/33, 16-17=-172/33, 15-16=0/220, 14-15=0/220, 13-14=-196/605, 12-13=-322/677, 11-12=-43/62  
 WEBS 4-17=-220/147, 4-16=-396/593, 5-16=-482/353, 6-16=-947/544, 6-14=-232/468, 7-14=-395/295, 7-13=-209/83, 8-13=-150/291, 9-13=-213/199, 9-12=-155/134, 10-12=-293/648

Julius Lee  
 Truss Design Engineer  
 Florida P.E. No. 31888  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32115

**JOINT STRESS INDEX**

2 = 0.73, 2 = 0.15, 3 = 0.00, 4 = 0.39, 5 = 0.59, 6 = 0.44, 7 = 0.39, 8 = 0.54, 9 = 0.39, 10 = 0.67, 11 = 0.43, 12 = 0.35, 13 = 0.58, 14 = 0.44, 15 = 0.15, 16 = 0.27 and 17 = 0.33

Continued on page 2

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903387
L258252	T13	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:19 2007 Page 2

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 176 lb uplift at joint 2, 537 lb uplift at joint 16 and 138 lb uplift at joint 11.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 21888  
 1110 Coastal Hwy Blvd  
 Daytona Beach, FL 32109

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903388
L258252	T14	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MITek Industries, Inc. Mon Oct 22 16:09:20 2007 Page 1



Scale = 1:75.7

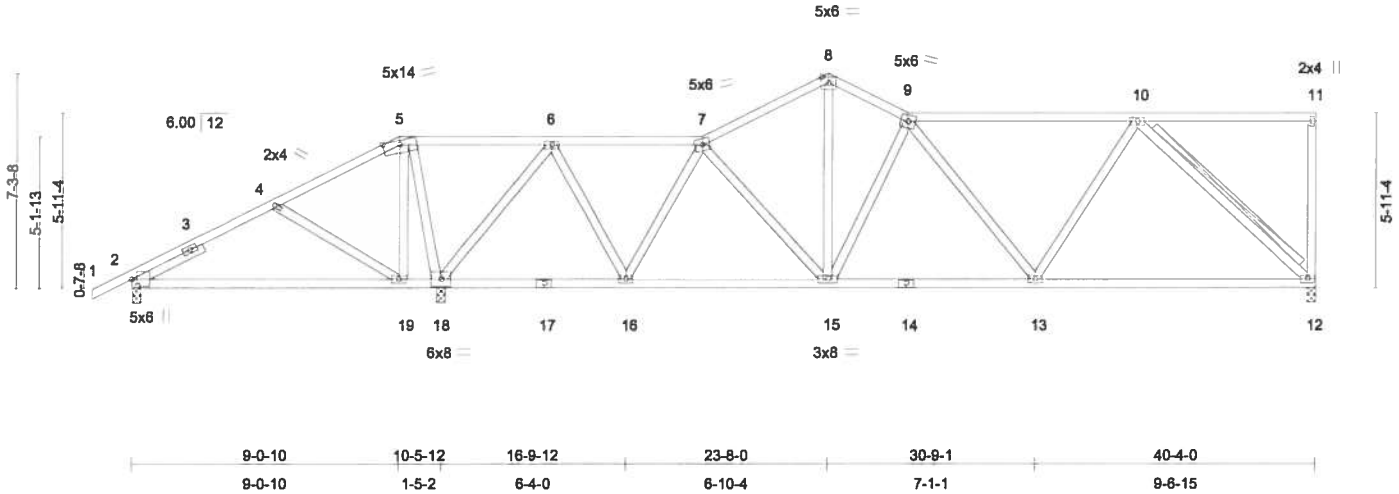


Plate Offsets (X,Y): [2:0-2-13,0-2-2]

<b>LOADING</b> (psf)	<b>SPACING</b>	2-0-0	<b>CSI</b>	<b>DEFL</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plates Increase	1.25	TC 0.57	Vert(LL)	0.24 2-19	>529	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.50	Vert(TL)	-0.30 12-13	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.86	Horz(TL)	0.03 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 242 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  
 SLIDER Left 2 X 4 SYP No.3 2-7-14

**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 - 10-12  
 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) 12=835/0-3-8, 2=63/0-3-8, 18=1746/0-3-8  
 Max Horz 2=215(load case 6)  
 Max Uplift 12=-208(load case 7), 2=-176(load case 6), 18=-549(load case 6)  
 Max Grav 12=835(load case 1), 2=170(load case 10), 18=1746(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-109/343, 3-4=-96/385, 4-5=-273/653, 5-6=-401/731, 6-7=-412/196, 7-8=-878/477, 8-9=-880/508, 9-10=-871/452, 10-11=-37/3, 11-12=-130/90  
 BOT CHORD 2-19=-290/0, 18-19=-531/131, 17-18=-64/100, 16-17=-64/100, 15-16=-433/741, 14-15=-557/995, 13-14=-557/995, 12-13=-404/720  
 WEBS 4-19=-307/351, 5-19=-558/319, 5-18=-768/884, 6-18=-1250/679, 6-16=-369/774, 7-16=-703/420, 7-15=-128/121, 8-15=-321/618, 9-15=-603/357, 9-13=-203/171, 10-13=-92/357, 10-12=-957/551

Justin Lee  
 Truss Design Engineer  
 Florida PE No. 34880  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32055

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October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903388
L258252	T14	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:20 2007 Page 2

#### JOINT STRESS INDEX

2 = 0.90, 2 = 0.15, 3 = 0.00, 4 = 0.33, 5 = 0.63, 6 = 0.61, 7 = 0.41, 8 = 0.21, 9 = 0.69, 10 = 0.42, 11 = 0.72, 12 = 0.70, 13 = 0.42, 14 = 0.35, 15 = 0.61, 16 = 0.61, 17 = 0.18, 18 = 0.21 and 19 = 0.34

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 208 lb uplift at joint 12, 176 lb uplift at joint 2 and 549 lb uplift at joint 18.

**LOAD CASE(S)** Standard

Julian Lee  
Truss Design Engineer  
Florida PE No. 0-18858  
1100 Central Expressway  
Lakeland, FL 34055

October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903389
L258252	T15	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MITek Industries, Inc. Mon Oct 22 16:09:21 2007 Page 1

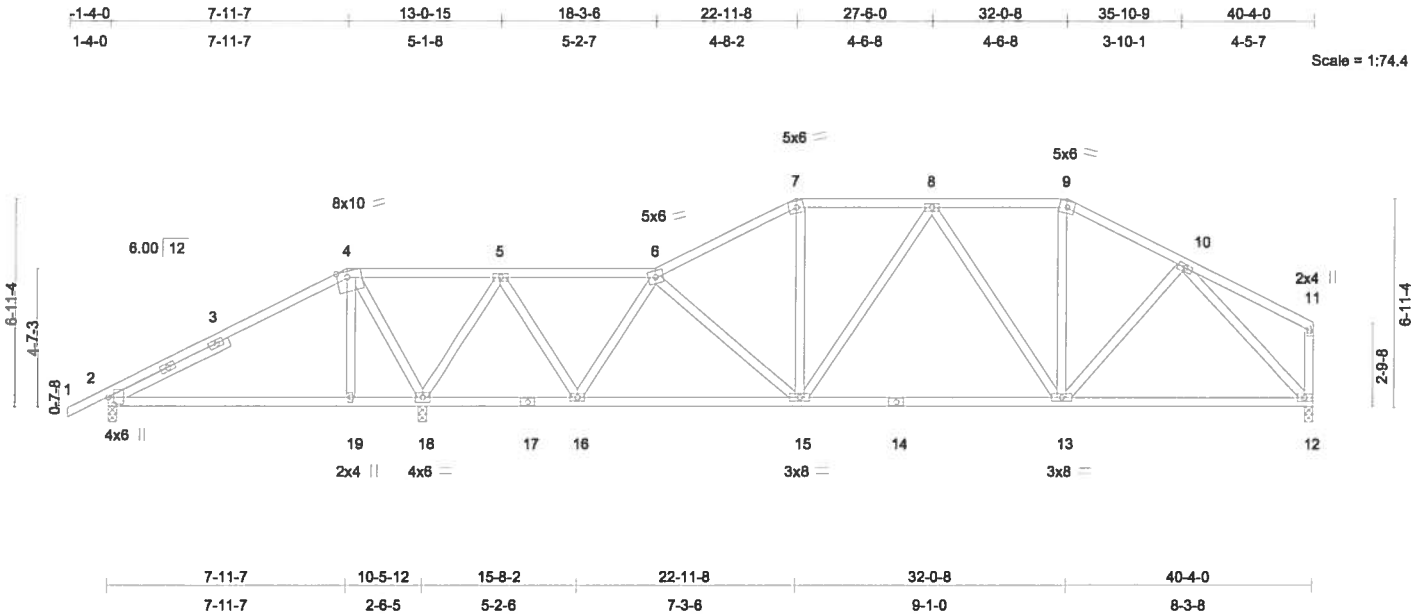


Plate Offsets (X,Y): [2:0-2-13,0-2-6], [4:0-4-3,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.57	Vert(LL)	-0.09 13-15	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.37	Vert(TL)	-0.18 13-15	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.64	Horz(TL)	0.03 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 239 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  
 SLIDER Left 2 X 4 SYP No.3 4-5-6

**BRACING**

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

**REACTIONS**

(lb/size) 2=199/0-3-8, 18=1570/0-3-8, 12=875/0-3-8  
 Max Horz 2=148(load case 6)  
 Max Uplift 2=-112(load case 6), 18=-337(load case 6), 12=-161(load case 7)  
 Max Grav 2=220(load case 10), 18=1570(load case 1), 12=875(load case 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-103/256, 3-4=-74/294, 4-5=-152/515, 5-6=-507/370, 6-7=-1022/637, 7-8=-867/622, 8-9=-781/565, 9-10=-916/582, 10-11=-109/83, 11-12=-142/118  
 BOT CHORD 2-19=-221/126, 18-19=-219/127, 17-18=-82/89, 16-17=-82/89, 15-16=-522/909, 14-15=-440/904, 13-14=-440/904, 12-13=-368/677  
 WEBS 4-19=0/214, 4-18=-694/394, 5-18=-1129/594, 5-16=-416/848, 6-16=-777/465, 6-15=-93/147, 7-15=-88/228, 8-15=-187/82, 8-13=-293/151, 9-13=-84/207, 10-13=-38/226, 10-12=-934/524

John W. Lane  
 Truss Design Engineer  
 Florida PE No. 3-8888  
 1100 Coastal Energy Blvd  
 Daytona Beach, FL 32115

**JOINT STRESS INDEX**

2 = 0.92, 2 = 0.15, 2 = 0.15, 3 = 0.00, 4 = 0.76, 5 = 0.64, 6 = 0.48, 7 = 0.32, 8 = 0.41, 9 = 0.26, 10 = 0.37, 11 = 0.73, 12 = 0.59, 13 = 0.57, 14 = 0.38, 15 = 0.57, 16 = 0.64, 17 = 0.15, 18 = 0.30 and 19 = 0.33

Continued on page 2

October 23, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903389
L258252	T15	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 112 lb uplift at joint 2, 337 lb uplift at joint 18 and 161 lb uplift at joint 12.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Plate No. 0-1000  
 1125 Central Ave. #100  
 Weymouth Mass. 01978

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903390
L258252	T16	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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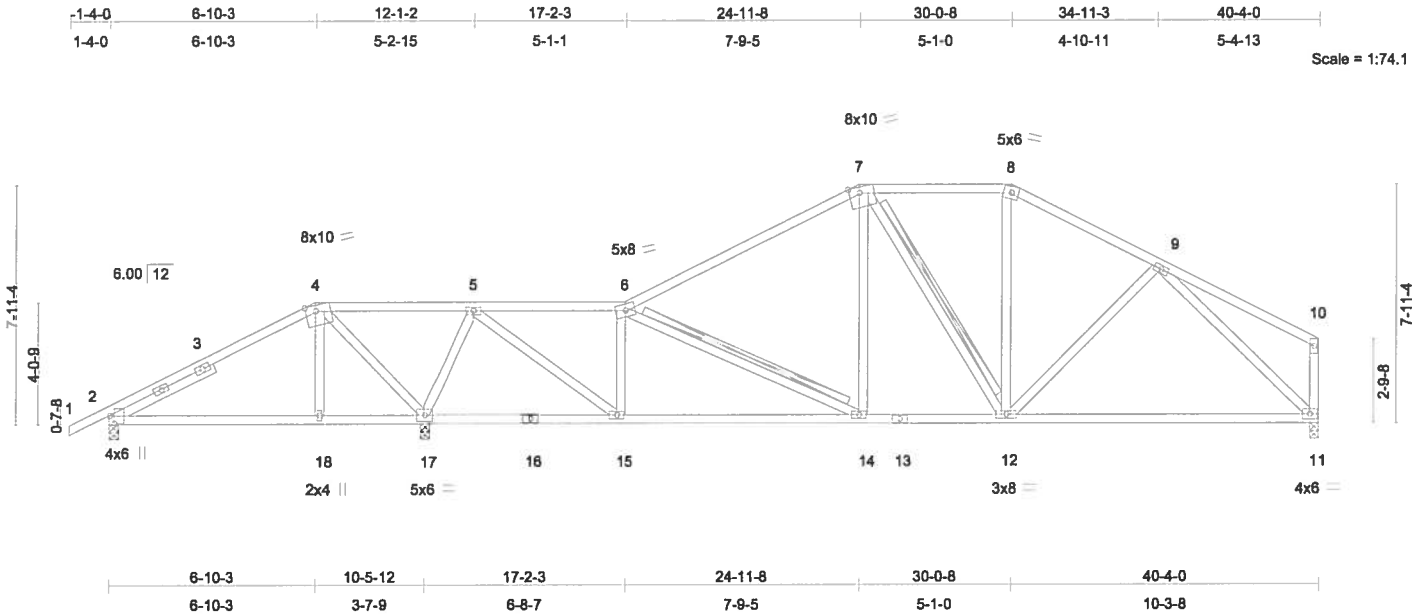


Plate Offsets (X,Y): [2:0-3-1,0-1-14], [4:0-4-3,Edge], [7:0-4-3,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.90	Vert(LL)	-0.21 11-12	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.47	Vert(TL)	-0.37 11-12	>959	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.83	Horz(TL)	0.02 11	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  
 SLIDER Left 2 X 4 SYP No.3 3-10-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-10-5 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 - 6-14, 7-12  
 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=170/0-3-8, 17=1609/0-3-8, 11=865/0-3-8  
 Max Horz 2=160(load case 6)  
 Max Uplift 2=-214(load case 6), 17=-519(load case 6), 11=-170(load case 7)  
 Max Grav 2=196(load case 10), 17=1609(load case 1), 11=865(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=0/193, 3-4=0/280, 4-5=-323/679, 5-6=-833/519, 6-7=-973/590, 7-8=-739/570, 8-9=-887/581, 9-10=-156/95, 10-11=-176/138  
 BOT CHORD 2-18=-166/0, 17-18=-163/0, 16-17=-233/136, 15-16=-233/136, 14-15=-477/861, 13-14=-355/789, 12-13=-355/789, 11-12=-392/715  
 WEBS 4-18=-238/171, 4-17=-741/710, 5-17=-1128/629, 5-15=-746/1338, 6-15=-734/504, 6-14=-132/135, 7-14=-28/184, 7-12=-196/85, 8-12=-97/194, 9-12=-13/138, 9-11=-900/531

Julius Lee  
 Truss Design Engineer  
 Florida P.E. No. 35866  
 1300 Central Expressway  
 Lakeland, FL 33805

Continued on page 2

October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903390
L258252	T16	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### JOINT STRESS INDEX

2 = 0.72, 2 = 0.15, 2 = 0.15, 3 = 0.00, 4 = 0.61, 5 = 0.77, 6 = 0.73, 7 = 0.65, 8 = 0.32, 9 = 0.38, 10 = 0.31, 11 = 0.75, 12 = 0.57, 13 = 0.29, 14 = 0.34, 15 = 0.77, 16 = 0.16, 17 = 0.25 and 18 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 214 lb uplift at joint 2, 519 lb uplift at joint 17 and 170 lb uplift at joint 11.

**LOAD CASE(S)** Standard

Julian Lee  
 Truss Design Engineer  
 Florida PE No. 31826  
 1100 Central Exp Blvd  
 Boynton Beach, FL 33435

October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903391
L258252	T17	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:23 2007 Page 1

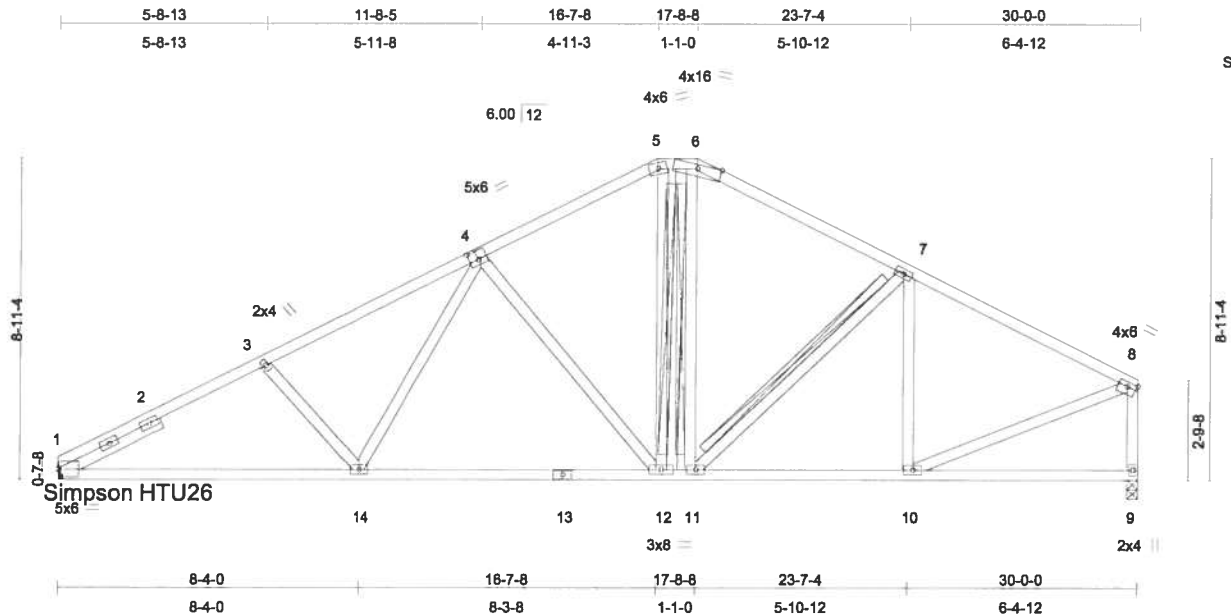


Plate Offsets (X,Y): [1:0-0-13,0-2-9], [4:0-3-0,0-3-0], [8:0-3-0,0-1-8]

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	2-0-0	TC 0.53	Vert(LL)	-0.10	12-14	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.40	Vert(TL)	-0.20	12-14	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.54	Horz(TL)	0.05	9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 197 lb	

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 3-1-10

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-9-5 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 6-12, 6-11, 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) 1=955/Mechanical, 9=955/0-3-8  
 Max Horz 1=154(load case 6)  
 Max Uplift 1=-213(load case 6), 9=-191(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1671/937, 2-3=-1555/953, 3-4=-1483/910, 4-5=-988/698, 5-6=-827/675, 6-7=-985/682, 7-8=-1041/612, 8-9=-918/559  
 BOT CHORD 1-14=-875/1418, 13-14=-616/1123, 12-13=-616/1123, 11-12=-362/812, 10-11=-462/866, 9-10=-56/75  
 WEBS 3-14=-246/270, 4-14=-173/337, 4-12=-479/401, 5-12=-230/304, 6-12=-70/291, 6-11=-98/89, 7-11=-158/139, 7-10=-269/214, 8-10=-438/855

Justin Lee  
 Truss Design Engineer  
 Florida PE No. 34886  
 1100 Coastal Pkwy Blvd  
 Daytona Beach, FL 32055

**JOINT STRESS INDEX**

1 = 0.82, 1 = 0.30, 1 = 0.30, 2 = 0.00, 3 = 0.33, 4 = 0.53, 5 = 0.40, 6 = 0.72, 7 = 0.39, 8 = 0.75, 9 = 0.79, 10 = 0.47, 11 = 0.35,  
 12 = 0.56, 13 = 0.41 and 14 = 0.43

Continued on page 2

October 23, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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, 8300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903391
L258252	T17	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:24 2007 Page 2

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 213 lb uplift at joint 1 and 191 lb uplift at joint 9.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Crystal Bay Blvd  
 Daytona Beach, FL 32115

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903392
L258252	T18	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:24 2007 Page 1

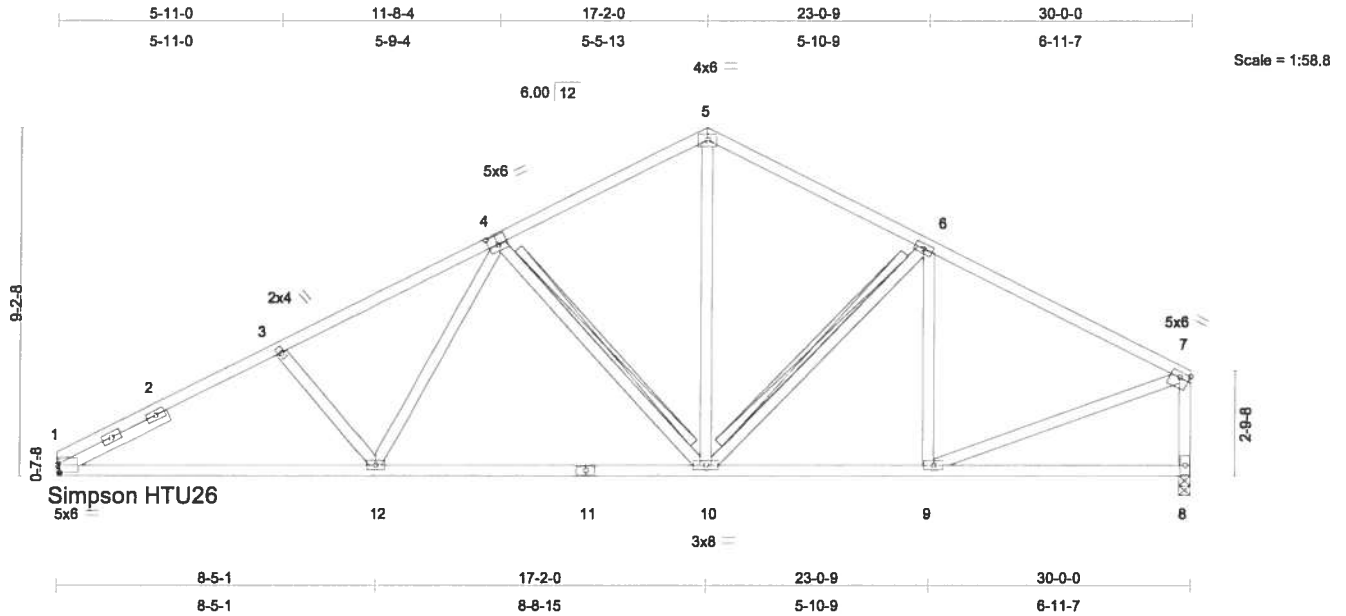


Plate Offsets (X,Y): [1:0-0-13,0-2-9], [4:0-3-0,0-3-0], [7:Edge,0-1-12]

LOADING (psf)	SPACING		CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0		TC 0.66	Vert(LL)	-0.12 10-12	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.42	Vert(TL)	-0.24 10-12	>999	240		
BCLL 10.0	* Rep Stress Incr YES		WB 0.52	Horz(TL)	0.05 8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 174 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  
 SLIDER Left 2 X 4 SYP No.3 3-2-13

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-9-8 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 4-10, 6-10  
 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.  
 Brace must cover 90% of web length.

#### REACTIONS

(lb/size) 1=955/Mechanical, 8=955/0-3-8  
 Max Horz 1=157(load case 6)  
 Max Uplift 1=-214(load case 6), 8=-194(load case 7)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1665/933, 2-3=-1545/950, 3-4=-1481/915, 4-5=-967/688, 5-6=-974/687, 6-7=-1061/628, 7-8=-914/564  
 BOT CHORD 1-12=-869/1412, 11-12=-619/1122, 10-11=-619/1122, 9-10=-466/877, 8-9=-69/93  
 WEBS 3-12=-243/268, 4-12=-175/348, 4-10=-496/402, 5-10=-375/510, 6-10=-195/162, 6-9=-245/195, 7-9=-424/837

Justin Lee  
 Truss Design Engineer  
 Florida PE No. 37828  
 1100 Coastal Play Blvd  
 Daytona Beach, FL 32119

#### JOINT STRESS INDEX

1 = 0.80, 1 = 0.30, 1 = 0.30, 2 = 0.00, 3 = 0.33, 4 = 0.52, 5 = 0.55, 6 = 0.40, 7 = 0.70, 8 = 0.32, 9 = 0.46, 10 = 0.56, 11 = 0.46 and 12 = 0.44

Continued on page 2

October 23, 2007

#### Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 MITTEK 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, 8300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903392
L258252	T18	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 214 lb uplift at joint 1 and 194 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Justin Lee  
 Truss Design Engineer  
 Florida PE No. 31888  
 1100 Coastal Bay Blvd  
 Daytona Beach, FL 32105

October 23,2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903393
L258252	T19	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Oct 23 08:42:03 2007 Page 1

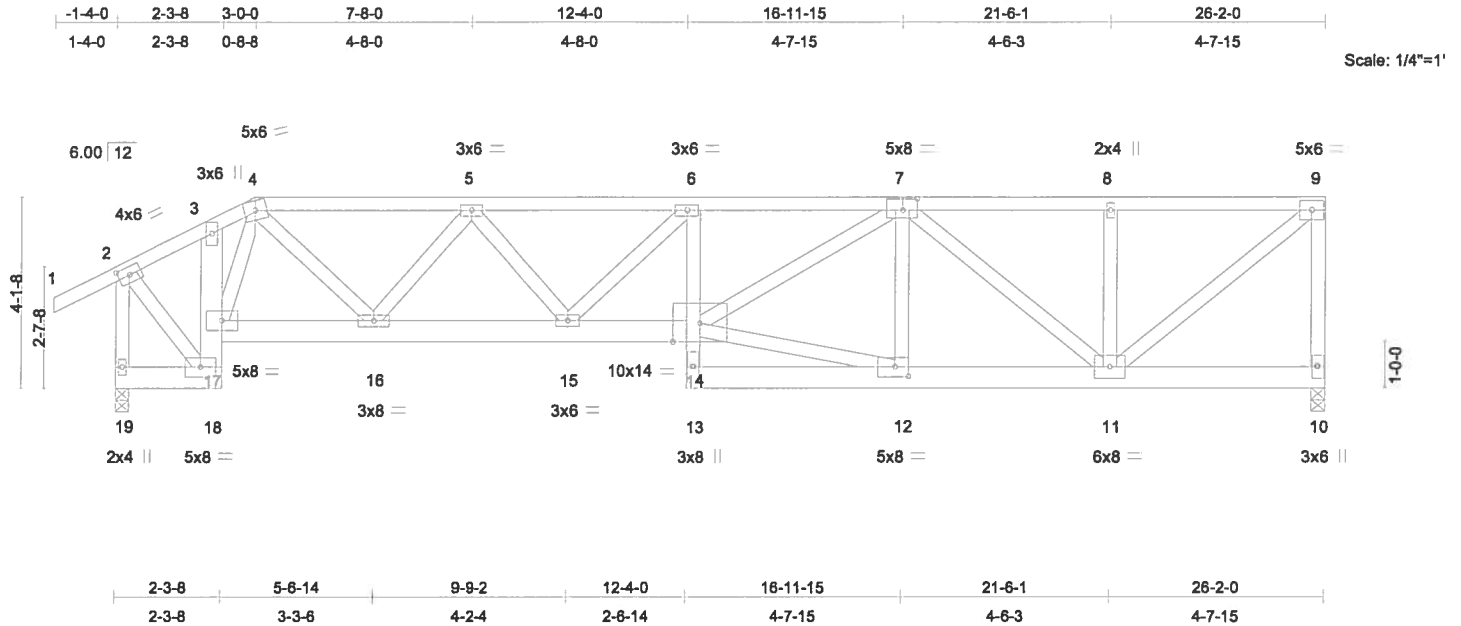


Plate Offsets (X,Y): [2:0-2-15,0-2-0], [7:0-3-12 0-3-0], [12:0-3-8,0-2-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.60	Vert(LL)	-0.19 14-15	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.90	Vert(TL)	-0.37 14-15	>845	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.78	Horz(TL)	0.14 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 190 lb

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 6 SYP No.1D \*Except\*  
 6-13 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-10-1 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 - 9-10  
 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.  
 Brace must cover 90% of web length.

**REACTIONS** (lb/size) 10=1801/0-3-8, 19=1914/0-3-8  
 Max Horz 19=160(load case 5)  
 Max Uplift 10=-629(load case 4), 19=-590(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/36, 2-3=-1228/442, 3-4=-1464/544, 4-5=-2758/994, 5-6=-3899/1375,  
 6-7=-4202/1500, 7-8=-1829/638, 8-9=-1829/638, 9-10=-1719/636, 2-19=-1960/639  
 BOT CHORD 18-19=-129/37, 17-18=-954/304, 3-17=-46/0, 16-17=-651/1662, 15-16=-1297/3544,  
 14-15=-1518/4249, 13-14=0/121, 6-14=-180/135, 12-13=-210/636, 11-12=-1006/2864,  
 10-11=-27/65  
 WEBS 4-17=-994/399, 4-16=-505/1602, 5-16=-1298/511, 5-15=-139/586, 6-15=-499/213,  
 12-14=-817/2286, 7-14=-577/1560, 7-12=-482/268, 7-11=-1346/478, 8-11=-541/285,  
 9-11=-794/2294, 2-18=-497/1552

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34888  
 1100 Coastal Hwy Blvd  
 Daytona Beach, FL 32118

**JOINT STRESS INDEX**

2 = 0.85, 3 = 0.67, 4 = 0.60, 5 = 0.44, 6 = 0.36, 7 = 0.83, 8 = 0.34, 9 = 0.74, 10 = 0.38, 11 = 0.86, 12 = 0.52, 13 = 0.64, 14 = 0.96, 15 = 0.40, 16 = 0.98, 17 = 0.76, 18 = 0.55 and 19 = 0.75

October 23, 2007

Continued on page 2

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK DESIGN 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903393
L258252	T19	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Oct 23 08:42:03 2007 Page 2

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 629 lb uplift at joint 10 and 590 lb uplift at joint 19.
- 6) Girder carries tie-in span(s): 8-0-0 from 0-0-0 to 2-0-12
- 7) Girder carries hip end with 0-0-0 right side setback, 2-0-12 left side setback, and 7-0-0 end setback.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S) Standard**

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-54, 2-3=-54, 3-4=-118(F=-64), 4-9=-118(F=-64), 18-19=-101(F=-91), 14-17=-22(F=-12), 10-13=-22(F=-12)

Julius Lee  
Truss Design Engineer  
Florida PE No. 03880  
1100 Coastal Bay Blvd  
Boynton Beach, FL 33426

October 23,2007

**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





Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903394
L258252	T20	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MITek Industries, Inc. Mon Oct 22 16:09:27 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical 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.
- 2) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 8 and 191 lb uplift at joint 15.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Bay Blvd  
Loynton Beach, FL 33455

October 23,2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903395
L258252	T21	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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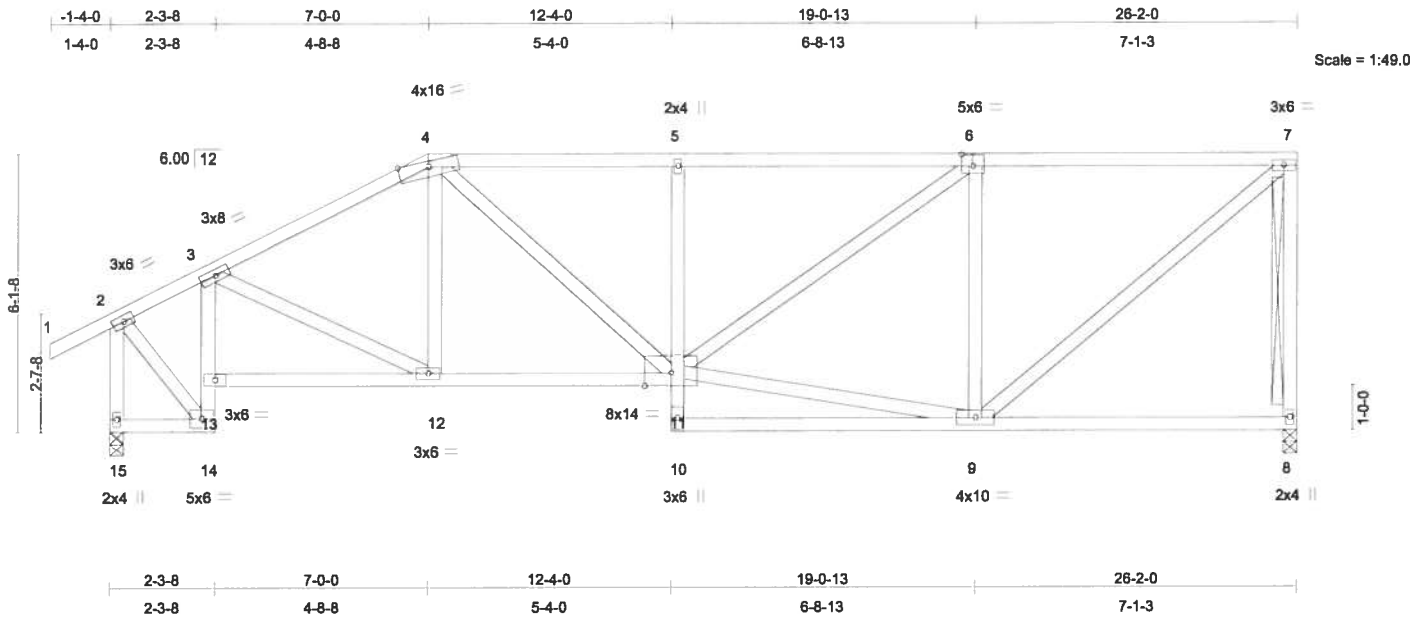


Plate Offsets (X,Y): [6:0-3-0,0-3-0]

LOADING (psf)	SPACING		CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	2-0-0	TC 0.52	Vert(LL)	0.08 11-12	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.97	Vert(TL)	-0.12 11-12	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.78	Horz(TL)	0.08 8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 177 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 3-14 2 X 4 SYP No.3, 5-10 2 X 4 SYP No.3  
 WEBS 2 X 4 SYP No.3

#### BRACING

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

#### REACTIONS

(lb/size) 8=826/0-3-8, 15=910/0-3-8  
 Max Horz 15=203(load case 6)  
 Max Uplift 8=-236(load case 5), 15=-188(load case 6)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-578/396, 3-4=-1056/624, 4-5=-1125/683, 5-6=-1120/683,  
 6-7=-761/435, 7-8=-786/474, 2-15=-1002/646  
 BOT CHORD 14-15=-250/3, 13-14=-458/154, 3-13=-459/190, 12-13=-611/618, 11-12=-614/893,  
 10-11=0/94, 5-11=-313/220, 9-10=-47/101, 8-9=-17/33  
 WEBS 3-12=-86/306, 4-12=-40/103, 4-11=-118/308, 9-11=-398/675, 6-11=-302/437,  
 6-9=-654/466, 7-9=-546/951, 2-14=-348/743

Structural Engineer  
 Thomas Gibson, Inc.  
 1100 Coastal Pkwy Blvd  
 Clayton Beach, FL 32035

#### JOINT STRESS INDEX

2 = 0.59, 3 = 0.89, 4 = 0.76, 5 = 0.33, 6 = 0.55, 7 = 0.77, 8 = 0.77, 9 = 0.46, 10 = 0.33, 11 = 0.16, 12 = 0.34, 13 = 0.37, 14 =  
 0.67 and 15 = 0.70

Continued on page 2

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903395
L258252	T21	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:28 2007 Page 2

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical 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.
- 2) Provide adequate drainage to prevent water ponding.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 8 and 188 lb uplift at joint 15.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34884  
 1400 Coastal Bay Blvd  
 Daytona Beach, FL 32105

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903396
L258252	T22	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

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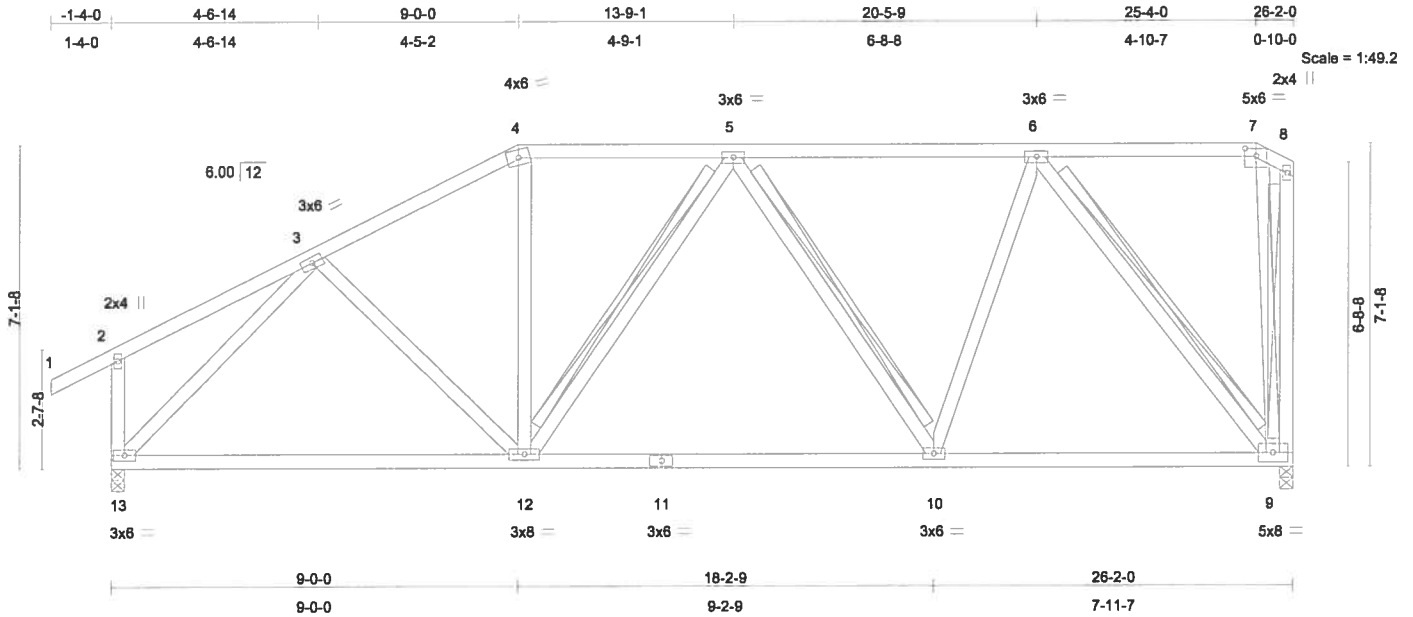


Plate Offsets (X,Y): [7:0-3-0,0-2-0]

LOADING (psf)	SPACING		CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	2-0-0	TC 0.58	Vert(LL)	-0.10 12-13	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.38	Vert(TL)	-0.18 12-13	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.60	Horz(TL)	0.03 9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 178 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 8-6-8 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 5-12, 5-10, 6-9, 8-9  
 Fasten T and l 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) 9=832/0-3-8, 13=901/0-3-8  
 Max Horz 13=228(load case 6)  
 Max Uplift 9=-225(load case 5), 13=-197(load case 6)

**FORCES (lb) - Maximum Compression/Maximum Tension**

TOP CHORD 1-2=0/36, 2-3=-111/169, 3-4=-851/498, 4-5=-714/495, 5-6=-628/380, 6-7=-19/27, 7-8=-24/27, 2-13=-221/273, 8-9=-39/38  
 BOT CHORD 12-13=-549/645, 11-12=-494/778, 10-11=-494/778, 9-10=-313/524  
 WEBS 3-12=-27/169, 4-12=-41/190, 5-12=-197/98, 5-10=-274/242, 6-10=-157/362, 6-9=-827/498, 3-13=-877/367, 7-9=-182/144

Julius Lem  
 Truss Design Engineer  
 Florida RES No. 31889  
 1100 Coastal Hwy Blvd  
 Clayton Beach, FL 32036

**JOINT STRESS INDEX**

2 = 0.42, 3 = 0.38, 4 = 0.40, 5 = 0.41, 6 = 0.48, 7 = 0.34, 8 = 0.33, 9 = 0.47, 10 = 0.48, 11 = 0.31, 12 = 0.56 and 13 = 0.73

Continued on page 2

October 23,2007

**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-81 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 8300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903396
L258252	T22	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:29 2007 Page 2

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical 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 225 lb uplift at joint 9 and 197 lb uplift at joint 13.

**LOAD CASE(S)** Standard

Julius L. Lee  
 Truss Design Engineer  
 Florida PE No. 3-18858  
 1100 Coastal Pkwy NW  
 Lakewood Beach, FL 33405

October 23, 2007

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

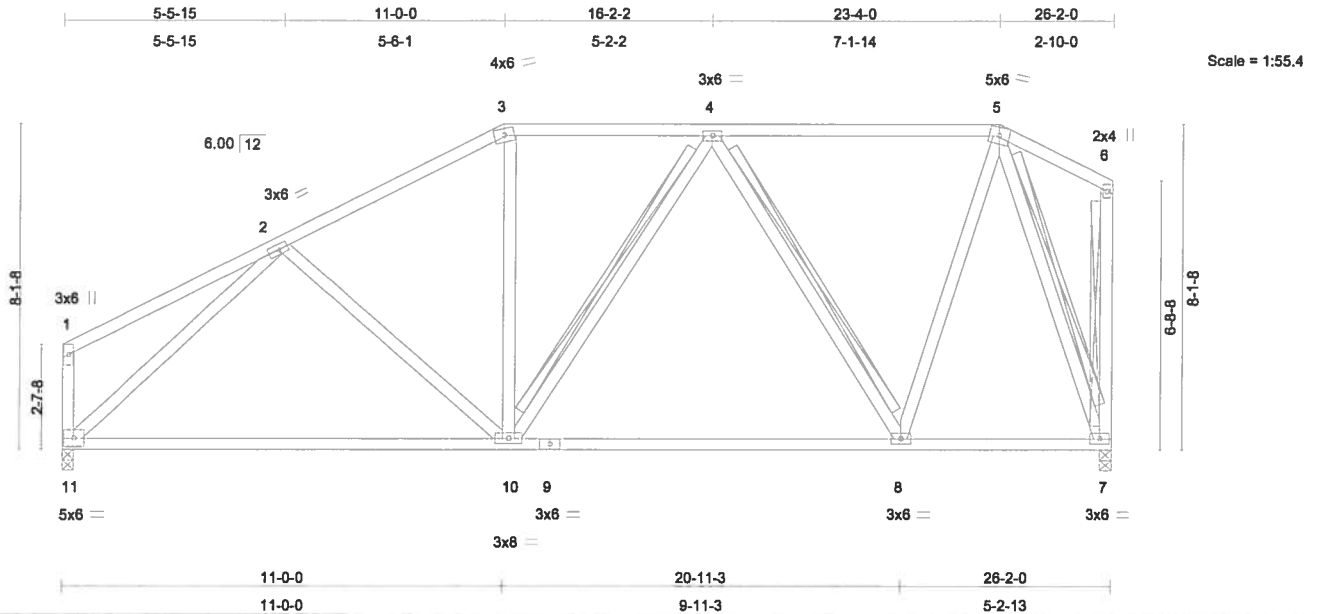
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903397
L258252	T23	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:30 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 0.93	Vert(LL)	-0.22 10-11	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.48	Vert(TL)	-0.38 10-11	>814	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.79	Horz(TL)	0.03 7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 176 lb	

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 8-3-15 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 4-10, 4-8, 6-7, 5-7  
 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.  
 Brace must cover 90% of web length.

**REACTIONS** (lb/size) 11=828/0-3-8, 7=828/0-3-8  
 Max Horz 11=203(load case 6)  
 Max Uplift 11=-148(load case 6), 7=-176(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-170/147, 2-3=-844/495, 3-4=-694/502, 4-5=-424/302, 5-6=-13/63, 1-11=-177/162, 6-7=-26/52  
 BOT CHORD 10-11=-569/707, 9-10=-406/664, 8-9=-406/664, 7-8=-161/278  
 WEBS 2-10=-22/180, 3-10=-8/175, 4-10=-68/128, 4-8=-470/333, 5-8=-247/505, 2-11=-863/414, 5-7=-855/495

John Law  
 Truss Design Engineer  
 Builders FirstSource  
 1100 Coastal Hwy Blvd  
 Daytona Beach, FL 32115

**JOINT STRESS INDEX**

1 = 0.30, 2 = 0.39, 3 = 0.53, 4 = 0.42, 5 = 0.61, 6 = 0.33, 7 = 0.49, 8 = 0.49, 9 = 0.55, 10 = 0.57 and 11 = 0.56

Continued on page 2

October 23, 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, 563 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903397
L258252	T23	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical 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 148 lb uplift at joint 11 and 176 lb uplift at joint 7.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 31888  
1100 Coastal Hwy Blvd  
Lakeland, FL 33805

October 23, 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 BCS1-1 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903398
L258252	T24	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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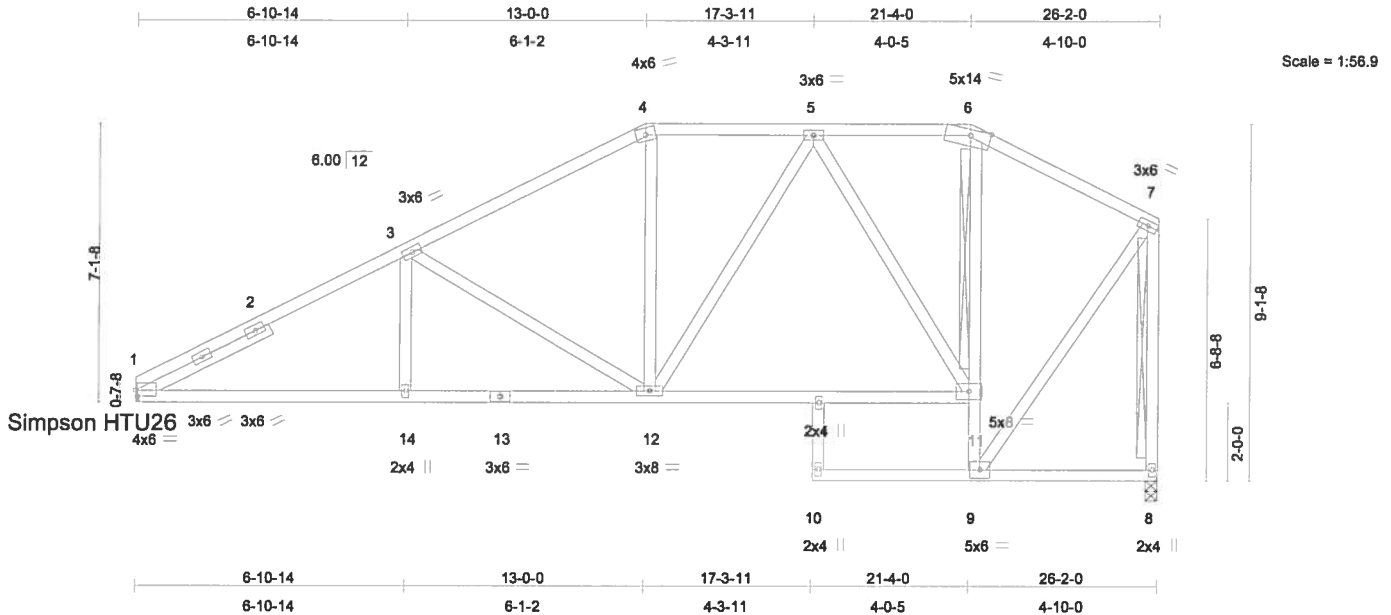


Plate Offsets (X,Y): [1:0-0-9,0-1-12], [6:0-6-3,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.37	Vert(LL)	-0.61	10	>513	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.98	Vert(TL)	-1.28	10	>243	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.55	Horz(TL)	0.43	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 177 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  
 SLIDER Left 2 X 4 SYP No.3 3-9-6

**BRACING**

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

**REACTIONS** (lb/size) 1=843/Mechanical, 8=864/0-3-8  
 Max Horz 1=171(load case 6)  
 Max Uplift 1=-167(load case 6), 8=-115(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1414/700, 2-3=-1325/717, 3-4=-1022/569, 4-5=-849/572, 5-6=-486/339, 6-7=-529/294, 7-8=-942/496  
 BOT CHORD 1-14=-751/1185, 13-14=-751/1185, 12-13=-751/1185, 11-12=-372/722, 9-11=-427/283, 6-11=-66/119, 9-10=0/0, 8-9=-6/2  
 WEBS 3-14=0/167, 3-12=-401/349, 4-12=-20/234, 5-12=-155/254, 5-11=-483/294, 7-9=-332/724

Justin Lee  
 Truss Design Engineer  
 Builders FirstSource  
 6300 Enterprise Lane, Madison, WI 53719

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October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903398
L258252	T24	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:31 2007 Page 2

#### JOINT STRESS INDEX

1 = 0.75, 1 = 0.25, 1 = 0.25, 2 = 0.00, 3 = 0.39, 4 = 0.64, 5 = 0.43, 6 = 0.75, 7 = 0.63, 8 = 0.59, 9 = 0.74, 10 = 0.33, 11 = 0.59, 12 = 0.57, 13 = 0.39, 14 = 0.33 and 15 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 167 lb uplift at joint 1 and 115 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida PE No. 031802  
1172 Central Ave. #104  
Lakeland, FL 33855

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903399
L258252	T25	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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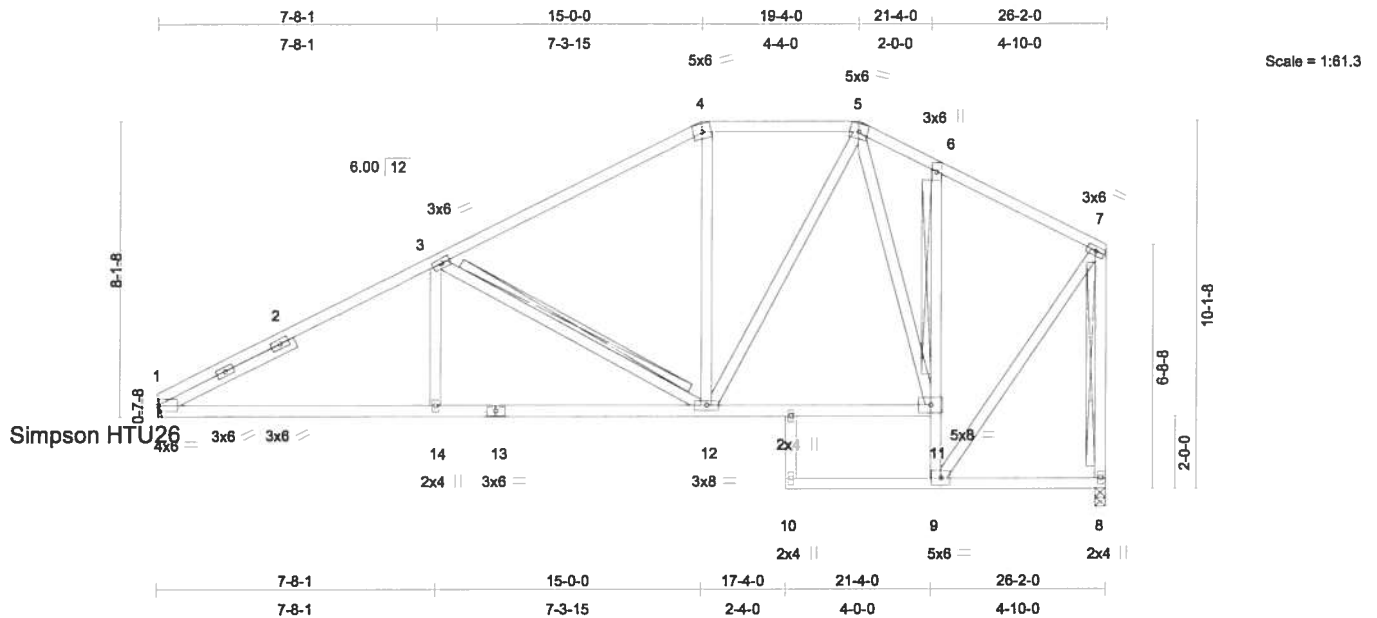


Plate Offsets (X,Y): [1:0-0-9,0-1-12]

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0 1.25		TC 0.43	Vert(LL)	-0.55	10	>571	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.87	Vert(TL)	-1.16	10	>269	240		
BCLL 10.0	* Rep Stress Incr YES		WB 0.37	Horz(TL)	0.38	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 183 lb

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 6-9 2 X 4 SYP No.1D  
 WEBS 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 4-2-8

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 5-9-13 oc bracing. Except:  
 T-Brace: 2 X 4 SYP No.3 - 6-11  
 WEBS T-Brace: 2 X 4 SYP No.3 - 3-12, 7-8  
 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.  
 Brace must cover 90% of web length.  
 JOINTS 1 Brace at Jt(s): 11

**REACTIONS** (lb/size) 1=843/Mechanical, 8=864/0-3-8  
 Max Horz 1=183(load case 6)  
 Max Uplift 1=-175(load case 6), 8=-131(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1398/696, 2-3=-1242/715, 3-4=-906/523, 4-5=-729/544, 5-6=-578/433,  
 6-7=-525/299, 7-8=-934/506  
 BOT CHORD 1-14=-741/1169, 13-14=-741/1169, 12-13=-741/1169, 11-12=-250/536,  
 9-11=-430/291, 6-11=-236/238, 9-10=0/0, 8-9=-6/4  
 WEBS 3-14=0/220, 3-12=-511/420, 4-12=-21/180, 5-12=-261/437, 5-11=-279/99,  
 7-9=-342/717

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 23888  
 1100 Central Bay Blvd  
 Boynton Beach, FL 33435

October 23, 2007

Continued on page 2

**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, 8300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903399
L258252	T25	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**JOINT STRESS INDEX**

1 = 0.79, 1 = 0.25, 1 = 0.25, 2 = 0.00, 3 = 0.39, 4 = 0.60, 5 = 0.32, 6 = 0.41, 7 = 0.62, 8 = 0.51, 9 = 0.67, 10 = 0.33, 11 = 0.71, 12 = 0.59, 13 = 0.38, 14 = 0.33 and 15 = 0.33

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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 175 lb uplift at joint 1 and 131 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 20000  
 1100 Corporate Park Blvd  
 Daytona Beach, FL 32102

October 23, 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, 563 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903400
L258252	T26	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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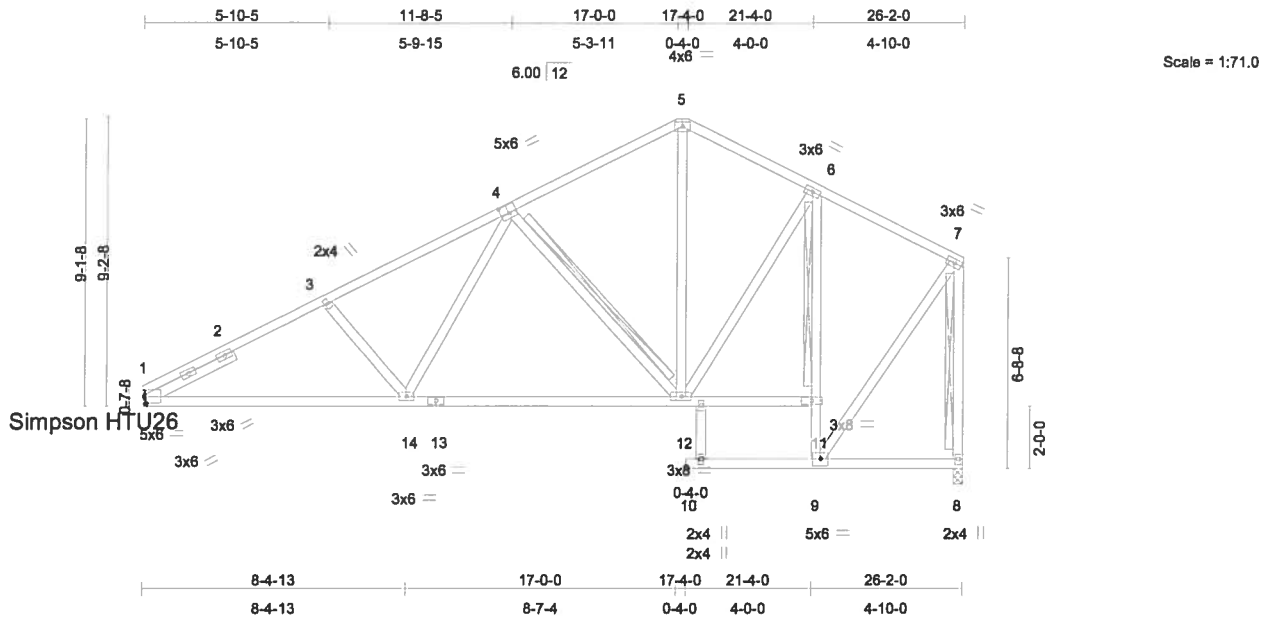


Plate Offsets (X,Y): [1:0-0-13,0-2-9], [4:0-3-0,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	TC 0.36	Vert(LL)	-0.51	10	>616	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.81	Vert(TL)	-1.08	10	>288	240		
BCLL 10.0	* Rep Stress Incr YES	WB 0.38	Horz(TL)	0.35	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 181 lb	

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2 \*Except\*  
 6-9 2 X 4 SYP No.1D  
 WEBS 2 X 4 SYP No.3  
 SLIDER Left 2 X 4 SYP No.3 3-2-7

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:  
 T-Brace: 2 X 4 SYP No.3 - 6-11  
 WEBS T-Brace: 2 X 4 SYP No.3 - 4-12, 7-8  
 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance.  
 Brace must cover 90% of web length.  
 JOINTS 1 Brace at Jt(s): 11

**REACTIONS** (lb/size) 1=843/Mechanical, 8=864/0-3-8  
 Max Horz 1=196(load case 6)  
 Max Uplift 1=-180(load case 6), 8=-151(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1436/751, 2-3=-1318/767, 3-4=-1248/727, 4-5=-731/496, 5-6=-711/504,  
 6-7=-523/305, 7-8=-928/517  
 BOT CHORD 1-14=-808/1213, 13-14=-548/912, 12-13=-548/912, 11-12=-231/466, 9-11=-434/300  
 , 6-11=-507/344, 9-10=0/0, 8-9=-6/3  
 WEBS 3-14=-251/277, 4-14=-178/343, 4-12=-495/411, 6-12=-81/260, 7-9=-353/716,  
 5-12=-235/396

Julius Lee  
 Truss Design Engineer  
 Florida Professional Engineer  
 License No. 12345  
 1100 Central Expressway  
 Daytona Beach, FL 32119

Continued on page 2

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903400
L258252	T26	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:33 2007 Page 2

#### JOINT STRESS INDEX

1 = 0.81, 1 = 0.26, 1 = 0.26, 2 = 0.00, 3 = 0.33, 4 = 0.52, 5 = 0.44, 6 = 0.74, 7 = 0.62, 8 = 0.46, 9 = 0.63, 11 = 0.83, 12 = 0.57, 13 = 0.37, 14 = 0.44, 15 = 0.33 and 16 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 1 and 151 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Justin Lee  
Truss Design Engineer  
Florida PE No. 37882  
1100 Colonial Way Blvd  
Lakeland, FL 33805

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903401
L258252	T27	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:34 2007 Page 1

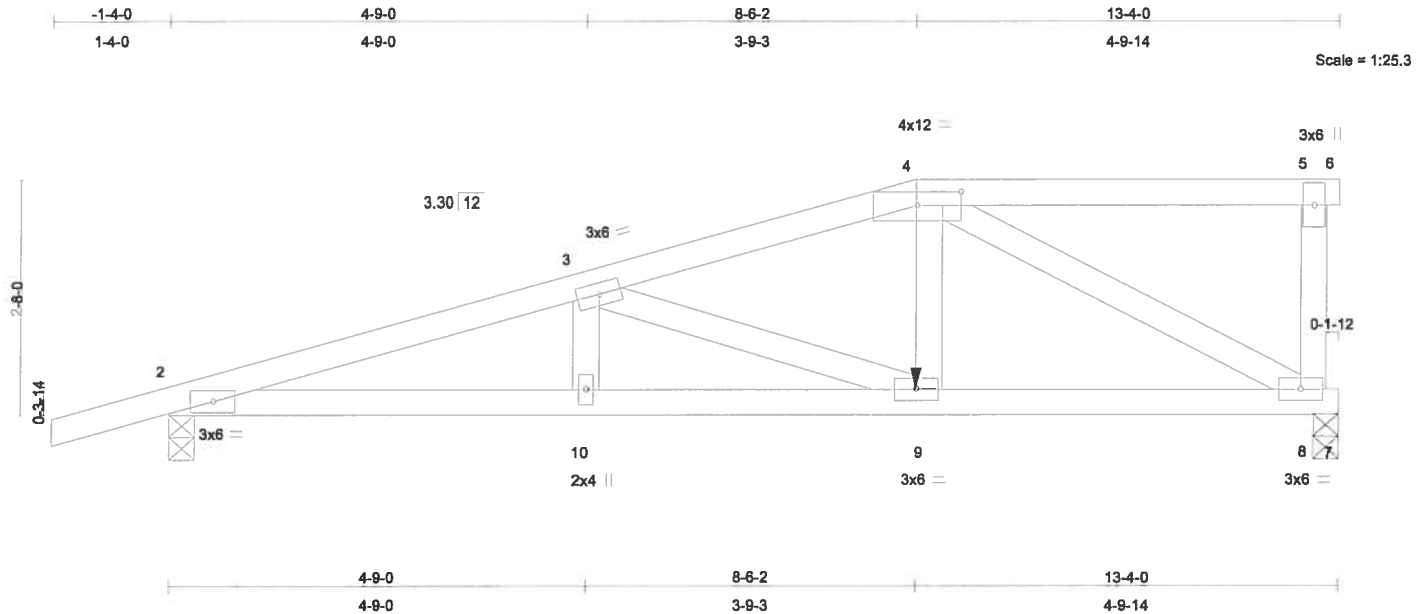


Plate Offsets (X,Y): [4:0-6-0,0-1-14]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.41	Vert(LL)	-0.05	9-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.32	Vert(TL)	-0.09	9-10	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.42	Horz(TL)	0.03	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 63 lb

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-3-7 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(lb/size) 8=678/0-3-8, 2=599/0-3-8  
 Max Horz 2=93(load case 3)  
 Max Uplift 8=-199(load case 3), 2=-206(load case 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/18, 2-3=-1355/342, 3-4=-954/269, 4-5=-68/20, 5-6=0/0, 5-8=-183/85  
 BOT CHORD 2-10=-376/1266, 9-10=-376/1266, 8-9=-279/922, 7-8=0/0  
 WEBS 3-10=0/126, 3-9=-390/116, 4-9=-78/404, 4-8=-965/292

**JOINT STRESS INDEX**

2 = 0.45, 3 = 0.10, 4 = 0.49, 5 = 0.33, 8 = 0.31, 9 = 0.26 and 10 = 0.09

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Provide adequate drainage to prevent water ponding.
- 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 199 lb uplift at joint 8 and 206 lb uplift at joint 2.

Justin Lee  
 Truss Design Engineer  
 Florida PE No. 31828  
 1000 Enterprise Lane, Madison, WI 53719  
 608.785.1111

October 23, 2007

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

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903401
L258252	T27	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

- 6) Girder carries hip end with 0-0-0 right side setback, 8-6-2 left side setback, and 4-1-0 end setback.
- 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: 1-4=-54, 4-5=-78(F=-24), 5-6=-14, 2-9=-10, 7-9=-14(F=-4)
  - Concentrated Loads (lb)
    - Vert: 9=-235(F)

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34888  
 1100 Coastal Hwy Blvd  
 Lynn Haven, FL 33455

October 23, 2007

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

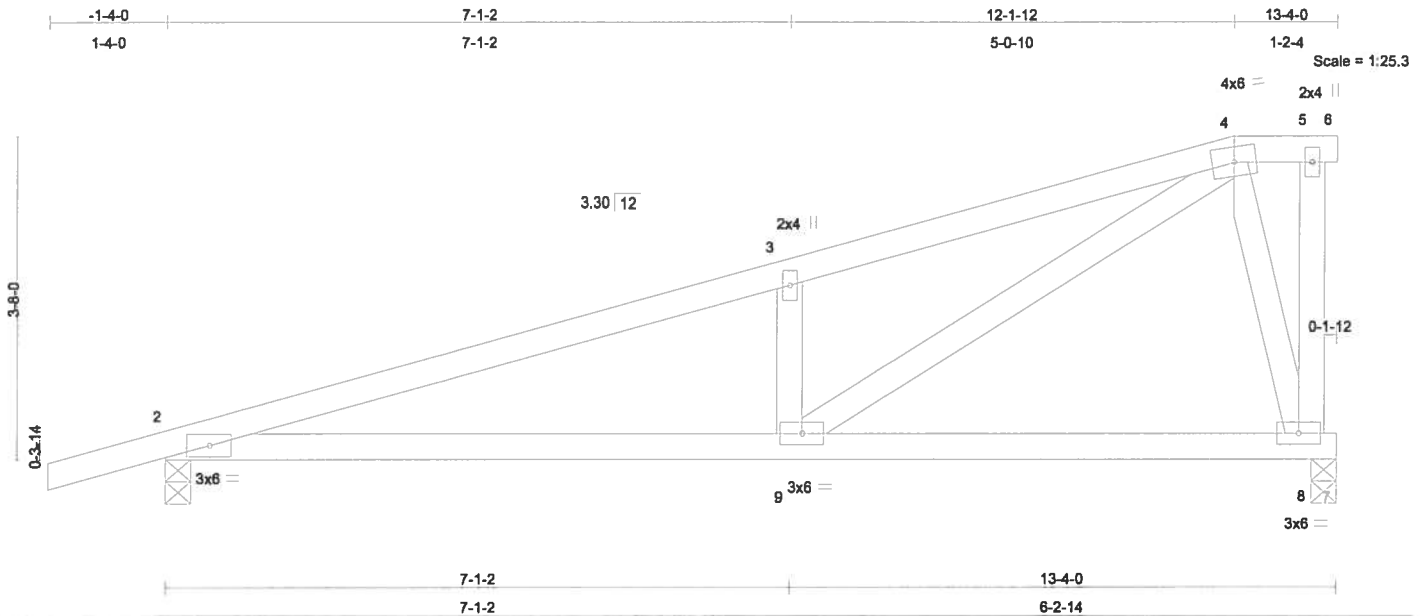
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903402
L258252	T28	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0 1.25	TC 0.35	Vert(LL) 0.07	2-9	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.29	Vert(TL) -0.13	2-9	>999	240		
BCLL 10.0	* Rep Stress Incr YES	WB 0.34	Horz(TL) 0.01	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)					Weight: 63 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 8-5-9 oc bracing.

**REACTIONS** (lb/size) 8=415/0-3-8, 2=497/0-3-8  
 Max Horz 2=125(load case 4)  
 Max Uplift 8=-124(load case 4), 2=-166(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-855/421, 3-4=-847/520, 4-5=-21/0, 5-6=0/0, 5-8=-54/32  
 BOT CHORD 2-9=-529/776, 8-9=-90/120, 7-8=0/0  
 WEBS 3-9=-351/324, 4-9=-528/788, 4-8=-434/358

#### JOINT STRESS INDEX

2 = 0.47, 3 = 0.18, 4 = 0.40, 5 = 0.21, 8 = 0.27 and 9 = 0.45

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 8 and 166 lb uplift at joint 2.
- Continued on page 2

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31880  
 1300 Central Expressway  
 Boynton Beach, FL 33426

October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903402
L258252	T28	MONO HIP	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**LOAD CASE(S)** Standard

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 Truss Design Engineer  
 Florida PE No. 31888  
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 Daytona Beach, FL 32119

October 23, 2007

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

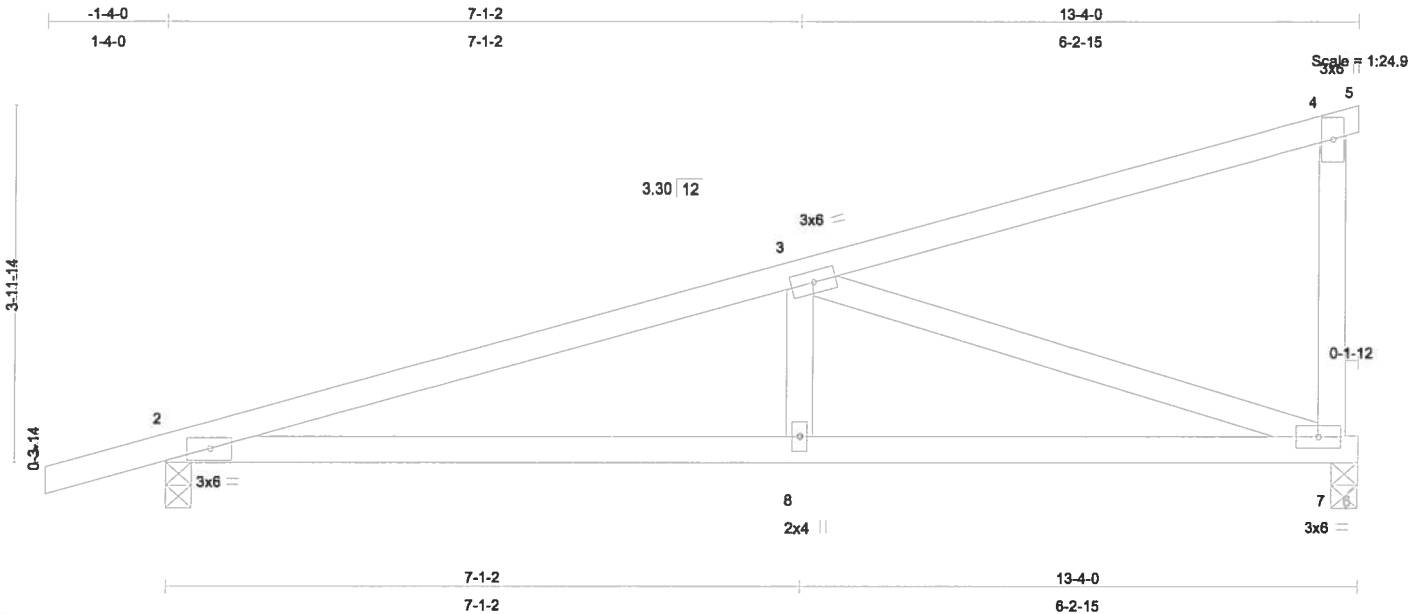
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903403
L258252	T29	MONO TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.33	Vert(LL)	0.07	2-8	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.29	Vert(TL)	-0.13	2-8	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.54	Horz(TL)	0.02	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 59 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 8-5-0 oc bracing.

**REACTIONS** (lb/size) 7=415/0-3-8, 2=497/0-3-8  
 Max Horz 2=135(load case 4)  
 Max Uplift 7=-130(load case 4), 2=-163(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-864/417, 3-4=-84/2, 4-5=-1/0, 4-7=-134/122  
 BOT CHORD 2-8=-540/785, 7-8=-540/785, 6-7=0/0  
 WEBS 3-8=0/218, 3-7=-792/542

**JOINT STRESS INDEX**  
 2 = 0.44, 3 = 0.22, 4 = 0.28, 7 = 0.23 and 8 = 0.15

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 7 and 163 lb uplift at joint 2.

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 31880  
 1100 Coastal Hwy Blvd  
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October 23, 2007

**LOAD CASE(S)** Standard

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903404
L258252	T30	MONO TRUSS	1	2	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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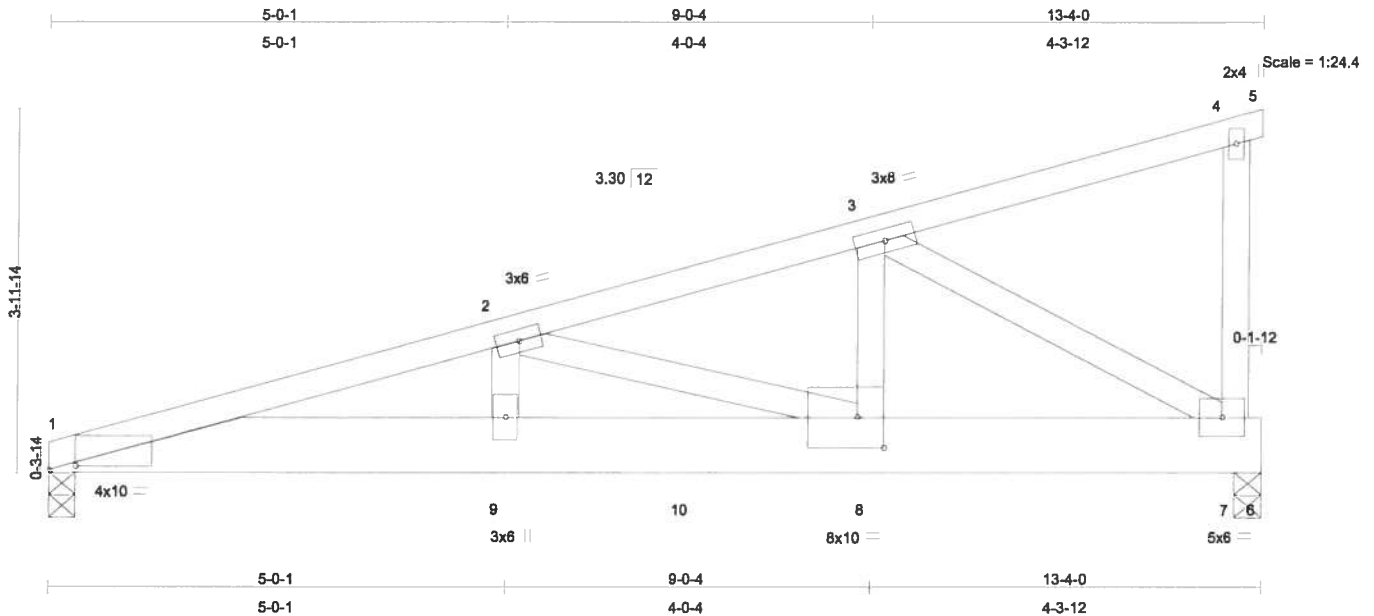


Plate Offsets (X,Y): [1:0-3-8,0-0-8], [8:0-3-8,0-4-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0 1.25	TC 0.30	Vert(LL)	-0.10	9	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.62	Vert(TL)	-0.19	9	>823	240		
BCLL 10.0	* Rep Stress Incr NO	WB 0.50	Horz(TL)	0.03	7	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
								Weight: 165 lb	

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 8 SYP No.1D  
 WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(lb/size) 1=2991/0-3-8, 7=3329/0-3-8  
 Max Horz 1=113(load case 3)  
 Max Uplift 1=-812(load case 3), 7=-937(load case 3)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-7124/1910, 2-3=-4100/1093, 3-4=-101/10, 4-5=-1/0, 4-7=-103/53  
 BOT CHORD 1-9=-1938/6873, 9-10=-1938/6873, 8-10=-1938/6873, 7-8=-1107/3937, 6-7=0/0  
 WEBS 2-9=-355/1384, 2-8=-3074/871, 3-8=-822/3095, 3-7=-4477/1255

#### JOINT STRESS INDEX

1 = 0.57, 2 = 0.48, 3 = 0.93, 4 = 0.50, 7 = 0.56, 8 = 0.31 and 9 = 0.22

#### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc.  
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Julian Lee  
 Truss Design Engineer  
 Truss Plate No. 258252  
 1000 Central Express Blvd  
 Lovington, NJ 08042

October 23, 2007

Continued on page 2

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE**  
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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903404
L258252	T30	MONO TRUSS	1	<b>2</b>	Job Reference (optional)	

Builders FirstSource, Lake City, Fl 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:36 2007 Page 2

**NOTES**

- 3) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- 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 812 lb uplift at joint 1 and 937 lb uplift at joint 7.
- 7) Girder carries tie-in span(s): 26-2-0 from 0-0-0 to 7-0-0; 30-0-0 from 7-0-0 to 13-4-0

**LOAD CASE(S) Standard**

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 4-5=-14, 1-10=-397(F=-387), 6-10=-458(F=-448)

Julius Lee  
Truss Design Engineer  
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Lakeland, FL 33805

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903405
L258252	T31	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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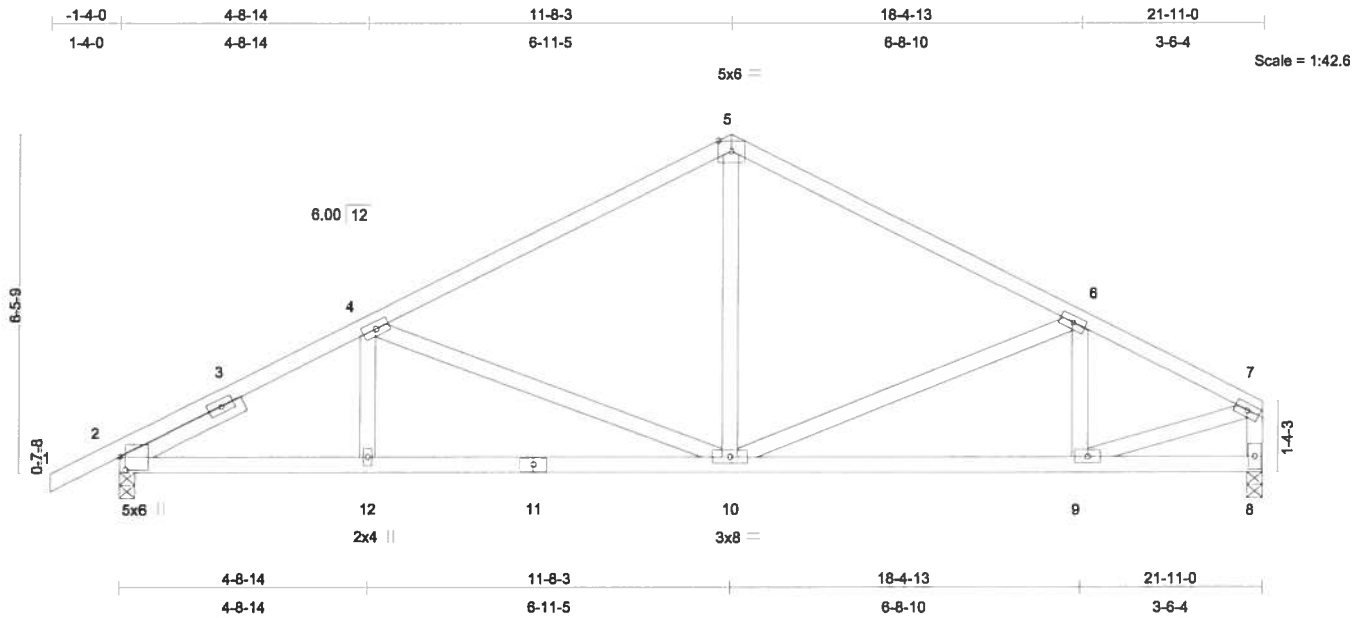


Plate Offsets (X,Y): [2:0-3-1,0-1-5]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.42	Vert(LL)	0.19 10-12	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.30	Vert(TL)	-0.11 10-12	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.44	Horz(TL)	-0.04 8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 119 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  
 SLIDER Left 2 X 4 SYP No.3 2-6-14

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 5-1-15 oc bracing.

**REACTIONS** (lb/size) 2=771/0-3-8, 8=694/0-3-8  
 Max Horz 2=113(load case 6)  
 Max Uplift 2=-485(load case 6), 8=-419(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-1183/1613, 3-4=-1084/1626, 4-5=-811/1123, 5-6=-809/1127, 6-7=-873/1222, 7-8=-674/922  
 BOT CHORD 2-12=-1403/995, 11-12=-1403/995, 10-11=-1403/995, 9-10=-1056/758, 8-9=-56/40  
 WEBS 4-12=-264/171, 4-10=-403/611, 5-10=-670/343, 6-10=-200/241, 6-9=-196/83, 7-9=-1052/756

**JOINT STRESS INDEX**

2 = 0.74, 2 = 0.57, 3 = 0.00, 4 = 0.39, 5 = 0.74, 6 = 0.39, 7 = 0.61, 8 = 0.37, 9 = 0.41, 10 = 0.56, 11 = 0.39 and 12 = 0.33

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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.

Julius Lee  
 Truss Design Engineer  
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 Daytona Beach, FL 32109

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903405
L258252	T31	COMMON	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:37 2007 Page 2

**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 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 485 lb uplift at joint 2 and 419 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Julian Lee  
 Truss Design Engineer  
 Florida PE No. 37838  
 1122 Central Bay Blvd  
 Daytona Beach, FL 32115

October 23, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M11-7473 BEFORE USE**

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903406
L258252	T31G	GABLE	1	1	Job Reference (optional)	
Builders FirstSource, Lake City, FL 32055			6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:38 2007 Page 1			

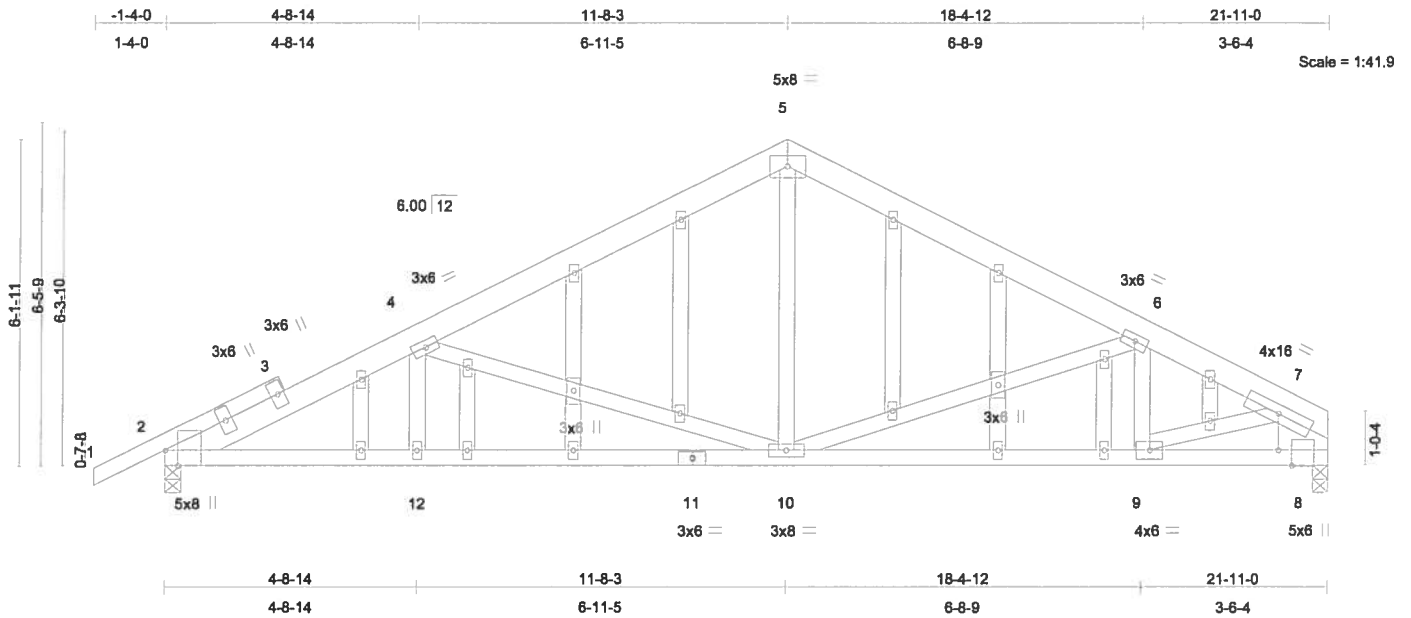


Plate Offsets (X,Y): [2:0-3-8,Edge], [8:0-3-8,Edge]

LOADING (psf)	SPACING		CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	2-0-0	TC 0.31	Vert(LL)	0.22 10-12	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25		BC 0.41	Vert(TL)	-0.13 10-12	>999	240		
BCLL 10.0	* Rep Stress Incr NO		WB 0.66	Horz(TL)	-0.06 8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 167 lb	

**LUMBER**

TOP CHORD 2 X 6 SYP No.1D \*Except\*  
 1-3 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 7-8 2 X 12 SYP No.2  
 OTHERS 2 X 4 SYP No.3

**BRACING**

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

**REACTIONS**

(lb/size) 2=1063/0-3-8, 8=951/0-3-8  
 Max Horz 2=131(load case 6)  
 Max Uplift 2=-913(load case 6), 8=-791(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-9/27, 2-3=-1848/2536, 3-4=-1771/2509, 4-5=-1178/1604, 5-6=-1171/1602,  
 6-7=-1283/1790, 7-8=-926/1287  
 BOT CHORD 2-12=-2261/1606, 11-12=-2261/1606, 10-11=-2261/1606, 9-10=-1539/1101,  
 8-9=-248/180  
 WEBS 4-12=-277/177, 4-10=-711/1058, 5-10=-788/406, 6-10=-249/301, 6-9=-226/128,  
 7-9=-1340/956

Julius Lee  
 TRUSS DESIGN ENGINEER  
 LICENSE NO. 33833  
 1102 Central Bay Blvd  
 Lakeland, FL 33809

**JOINT STRESS INDEX**

2 = 0.82, 3 = 0.00, 3 = 0.53, 3 = 0.94, 4 = 0.43, 5 = 0.85, 6 = 0.39, 7 = 0.42, 8 = 0.26, 9 = 0.45, 10 = 0.73, 11 = 0.52, 12 = 0.33  
 , 13 = 0.33, 14 = 0.33, 15 = 0.43, 16 = 0.33, 17 = 0.33, 18 = 0.33, 19 = 0.33, 20 = 0.33, 21 = 0.33, 22 = 0.33, 23 = 0.33, 24 =  
 0.33, 25 = 0.33, 26 = 0.44, 27 = 0.33, 28 = 0.33, 29 = 0.33 and 30 = 0.33

Continued on page 2

October 23, 2007

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Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903406
L258252	T31G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Mon Oct 22 16:09:38 2007 Page 2

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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.
- 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 2-0-0 oc.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 913 lb uplift at joint 2 and 791 lb uplift at joint 8.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) Gable truss supports 16" max. rake gable overhang.

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-79(F=-25), 5-7=-79(F=-25), 2-8=-10

Justin Lee  
Truss Design Engineer  
Florida PE No. 33881  
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Boynton Beach, FL 33406

October 23, 2007

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

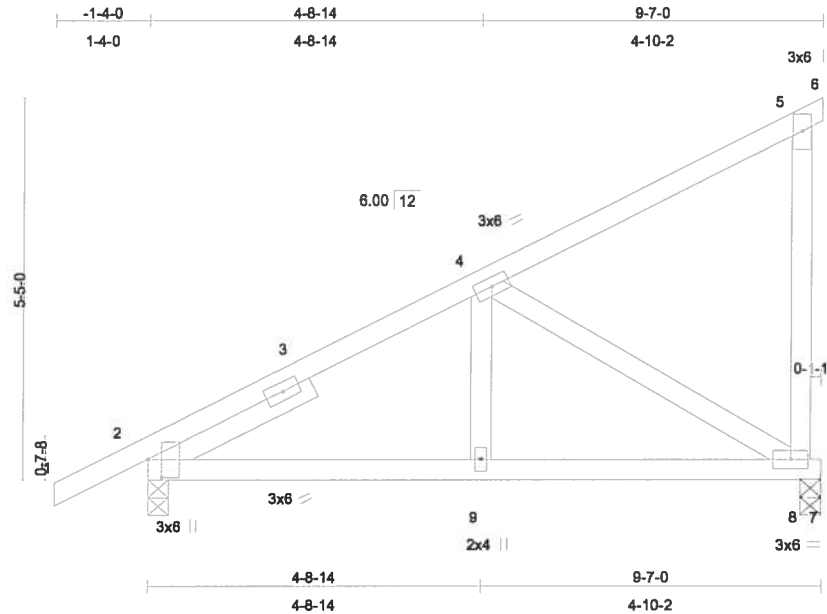
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary 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, 8300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903407
L258252	T32	MONO TRUSS	3	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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Scale = 1:31.6

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

LOADING (psf)	SPACING		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0	1.25	TC 0.23	Vert(LL) 0.03	2-9	>999	360	MT20	244/190	
TCDL 7.0	Lumber Increase 1.25		BC 0.12	Vert(TL) -0.02	2-9	>999	240			
BCLL 10.0	* Rep Stress Incr YES		WB 0.16	Horz(TL) -0.01	8	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  
 SLIDER Left 2 X 4 SYP No.3 2-6-14

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 8-1-14 oc bracing.

**REACTIONS** (lb/size) 8=299/0-3-8, 2=374/0-3-8  
 Max Horz 2=181(load case 6)  
 Max Uplift 8=-242(load case 6), 2=-215(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/18, 2-3=-395/409, 3-4=-282/423, 4-5=-76/34, 5-6=-2/0, 5-8=-109/124  
 BOT CHORD 2-9=-582/290, 8-9=-582/290, 7-8=0/0  
 WEBS 4-9=-275/149, 4-8=-319/645

**JOINT STRESS INDEX**  
 2 = 0.74, 2 = 0.15, 3 = 0.00, 4 = 0.31, 5 = 0.24, 8 = 0.47 and 9 = 0.11

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=15ft; 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

Professional Engineer  
 Florida PE No. 24882  
 1100 Commercial Way #100  
 Lakeland, FL 33805

October 23, 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



Job	Truss	Truss Type	Qty	Ply	HUGO - WRUBEL RES.	J1903407
L258252	T32	MONO TRUSS	3	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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**NOTES**

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 8 and 215 lb uplift at joint 2.

**LOAD CASE(S)** Standard

Julius Lee  
 Truss Design Engineer  
 Florida PE No. 34188  
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 Daytona Beach, FL 32105

October 23, 2007

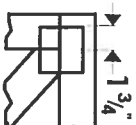
**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**

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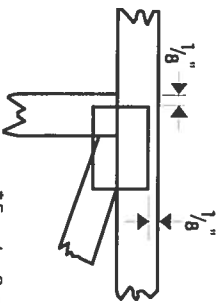


# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

## PLATE SIZE

4 X 4

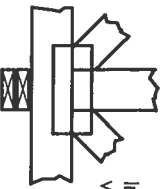
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



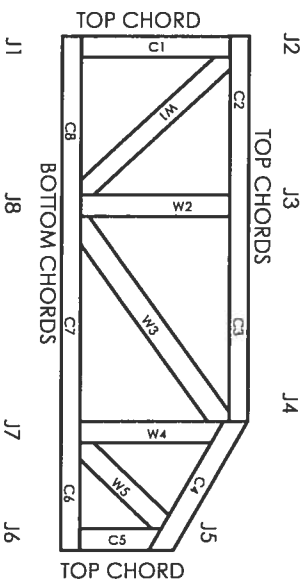
Indicates location of required continuous lateral bracing.

## BEARING



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

# Numbering System



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

WEBS ARE NUMBERED FROM LEFT TO RIGHT

## CONNECTOR PLATE CODE APPROVALS

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



MITek Engineering Reference Sheet: MIT-7473

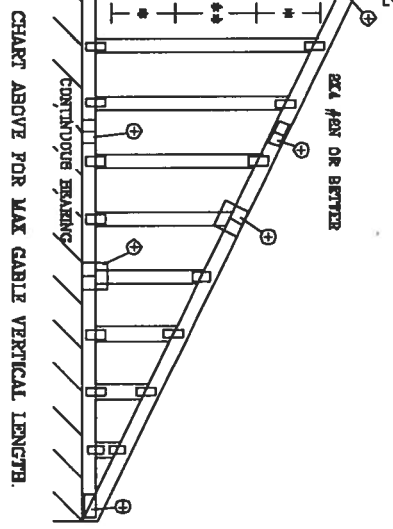
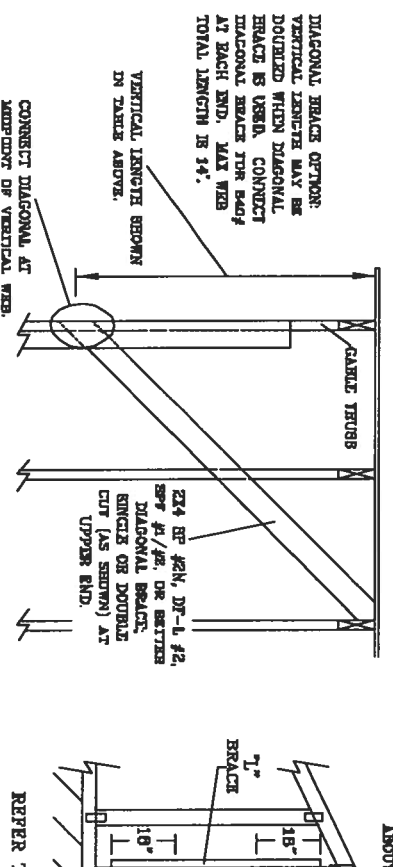
# General Safety Notes

## 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 1/4 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 of 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.

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MAX GABLE VERTICAL LENGTH		BRACE		GROUP A		GROUP B		GROUP A		GROUP B		GROUP A		GROUP B	
GABLE BRACING SPACING	2x4 VERTICAL SPECIES	GRADE	NO BRACED	(1) 1x4 1" BRACE *		(1) 2x4 1" BRACE **		(1) 2x6 1" BRACE *		(2) 2x8 1" BRACE **		(2) 2x8 1" BRACE **		(2) 2x8 1" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
12" O.C.	SPF	#1 / #2	3' 4"	6' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 6"	10' 10"	11' 2"	12' 11"	13' 3"		
		#3	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"		
		STANDARD	3' 3"	4' 2"	4' 2"	6' 5"	6' 5"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"		
	HF	#1	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 8"	11' 8"		
		#2	3' 3"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"		
		STANDARD	3' 3"	6' 10"	6' 3"	6' 11"	7' 6"	8' 3"	9' 11"	10' 10"	11' 8"	12' 11"	13' 11"		
DFL	#3	3' 6"	5' 0"	6' 0"	6' 6"	6' 6"	8' 3"	8' 6"	10' 4"	10' 4"	12' 11"	13' 7"			
	STANDARD	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 3"	8' 6"	10' 3"	10' 3"	12' 11"	13' 7"			
	#1 / #2	3' 10"	4' 3"	4' 3"	6' 10"	6' 10"	8' 1"	8' 1"	9' 5"	9' 5"	12' 4"	12' 4"			
16" O.C.	SPF	#1 / #2	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	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"		
		STANDARD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"		
	HF	#1	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"		
		#2	4' 2"	6' 11"	6' 11"	8' 8"	8' 8"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
		STANDARD	4' 2"	6' 11"	6' 11"	8' 8"	8' 8"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"		
DFL	#1	4' 0"	6' 1"	6' 1"	7' 11"	7' 11"	9' 5"	9' 5"	12' 5"	12' 5"	14' 0"	14' 0"			
	#2	4' 0"	6' 1"	6' 1"	7' 11"	7' 11"	9' 5"	9' 5"	12' 5"	12' 5"	14' 0"	14' 0"			
	STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	8' 4"	8' 4"	10' 10"	10' 10"	14' 0"	14' 0"			
24" O.C.	SPF	#1 / #2	4' 2"	7' 4"	7' 4"	8' 8"	8' 8"	10' 6"	10' 6"	13' 8"	14' 0"	14' 0"	14' 0"		
		#3	4' 2"	6' 11"	6' 11"	8' 8"	8' 8"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"		
		STANDARD	4' 2"	6' 11"	6' 11"	8' 8"	8' 8"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"		
	HF	#1	4' 2"	6' 11"	6' 11"	8' 8"	8' 8"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"		
		#2	4' 2"	6' 11"	6' 11"	8' 8"	8' 8"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"		
		STANDARD	4' 2"	6' 11"	6' 11"	8' 8"	8' 8"	10' 6"	10' 6"	13' 8"	13' 8"	14' 0"	14' 0"		
DFL	#1	4' 8"	7' 4"	7' 4"	8' 9"	8' 9"	10' 6"	10' 6"	14' 0"	14' 0"	14' 0"	14' 0"			
	#2	4' 7"	7' 4"	7' 4"	8' 9"	8' 9"	10' 6"	10' 6"	14' 0"	14' 0"	14' 0"	14' 0"			
	STANDARD	4' 4"	7' 2"	7' 2"	8' 9"	8' 9"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"			



BRACING GROUP SPECIES AND GRADES:

GROUP A:		GROUP B:	
SPF	STUD	SPF	STUD
DFL	STUD	DFL	STUD

GROUP B:

SPF	STUD
DFL	STUD

GROUP A:

SPF	STUD
DFL	STUD

GROUP B:

SPF	STUD
DFL	STUD

DIAGONAL BRACE OPTIONS:  
 VERTICAL LENGTHS MAY BE  
 DOUBLED WHEN DIAGONAL  
 BRACE IS USED. CONDUCT  
 DIAGONAL BRACE FOR EACH  
 AT EACH END. MAX WIND  
 TOTAL LENGTH IS 14'.

VERTICAL LENGTHS SHOWN  
 IN TABLE ABOVE.

CONNECT DIAGONAL AT  
 MIDPOINT OF VERTICAL WEB.

REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

2x4 BRACE OR BETTER  
 2x4 BR #1/#2, DF-1, #2,  
 SPF #1/#2, OR BETTER  
 DIAGONAL BRACE,  
 BRIDGE OR DOUBLE  
 CUT (AS SHOWN) AT  
 UPPER END.

STUD  
 16"  
 18"  
 24"  
 CONTINUOUS BRACING

REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

MAX. TOTAL LD. 60 PSF  
 MAX. SPACING 24.0"

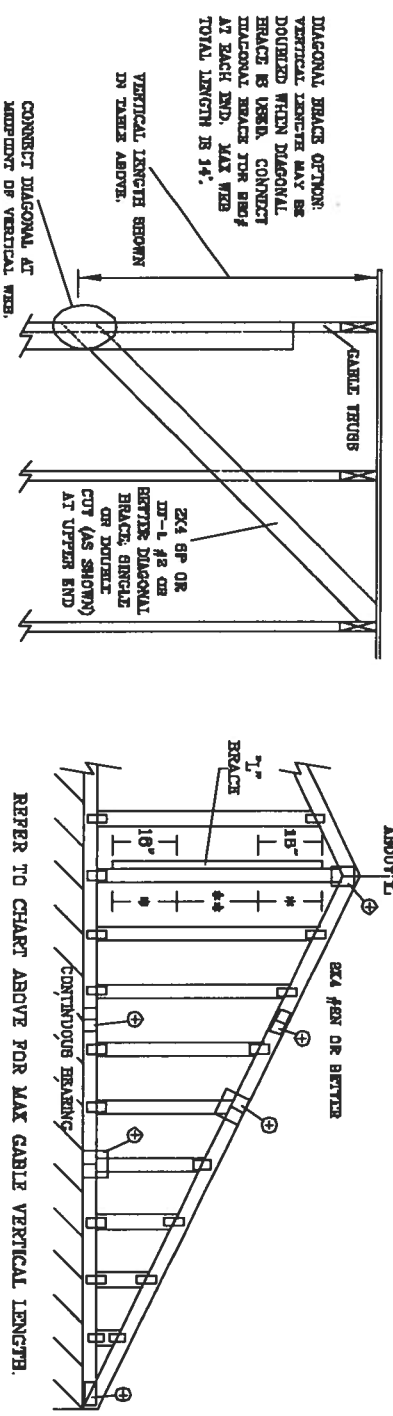
MAXIMUM: BRISSET REQUIRE EXTREME CARE IN FABRICATING, MANUFACTURING, SHIPPING, INSTALLING AND BRACING. REFER TO RISER 1-80 (INCLUDING CONCRETE SAFETY INFORMATION, PUBLISHED BY THE TRUSS AND BRACE INSTITUTE, 582 ZIONSBORO DR., SUITE 200, MADISON, VA 22750) AND VITA (WOOD TRUSS CONCRETE OF AMERICA, 6500 ENTERPRISE LN., MADISON, VA 22751) 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 ROOF CEILING.

**JULIUS LEE'S**  
 CONS. ENGINEERS P.A.  
 1485 BT 4th AVENUE  
 DELRAY BEACH, FL 33444-8161

No. 34866  
 STATE OF FLORIDA

REF: ASCE 7-02-GAB13015  
 DATE: 11/26/03  
 DWTG: MTR 87D GABLE 15 I ET  
 -ENG

MAX GABLE VERTICAL LENGTH		BRACE		NO BRACES		GROUP A		GROUP B		GROUP A		GROUP B		GROUP A		GROUP B	
GABLE VERTICAL SPACING	2x4 BRACE SPECIES	GRADE	BRACE	NO BRACES	GROUP A	GROUP B	(1) 1x4 1" BRACE *		(1) 2x4 1" BRACE **		(1) 2x6 1" BRACE *		(2) 2x8 1" BRACE **				
							SP	DFL	SP	DFL	SP	DFL	SP	DFL			
12" O.C.	SPF	#1 / #2	STUD	3' 2"	5' 6"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"
		#8	STUD	3' 1"	4' 5"	4' 5"	6' 10"	6' 10"	6' 10"	6' 10"	6' 10"	6' 10"	6' 10"	6' 10"	6' 10"	6' 10"	6' 10"
		STANDARD	2' 11"	3' 9"	3' 9"	6' 0"	6' 0"	6' 9"	6' 9"	6' 9"	6' 9"	6' 9"	6' 9"	6' 9"	6' 9"	6' 9"	6' 9"
	HF	#4	STUD	3' 6"	5' 6"	5' 11"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"
		#9	STUD	3' 3"	4' 8"	4' 8"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"
		STANDARD	3' 0"	3' 10"	3' 10"	6' 1"	6' 1"	5' 1"	5' 1"	5' 1"	5' 1"	5' 1"	5' 1"	5' 1"	5' 1"	5' 1"	5' 1"
SPF	#1 / #2	STUD	3' 7"	5' 6"	5' 6"	6' 5"	6' 5"	6' 5"	6' 5"	6' 5"	6' 5"	6' 5"	6' 5"	6' 5"	6' 5"	6' 5"	
	#8	STUD	3' 7"	4' 8"	4' 8"	6' 2"	6' 2"	6' 2"	6' 2"	6' 2"	6' 2"	6' 2"	6' 2"	6' 2"	6' 2"	6' 2"	
	STANDARD	3' 7"	3' 7"	3' 7"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	
SP	#1	STUD	4' 0"	5' 6"	5' 6"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	
	#2	STUD	3' 11"	5' 7"	5' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	
	#3	STUD	3' 8"	5' 8"	5' 8"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	6' 7"	
DFL	STANDARD	3' 8"	3' 8"	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	
	#1 / #2	STUD	4' 0"	6' 11"	6' 11"	7' 2"	7' 2"	7' 3"	7' 3"	7' 3"	7' 3"	7' 3"	7' 3"	7' 3"	7' 3"	7' 3"	
	#3	STUD	3' 11"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	
SPF	#1	STUD	3' 11"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	
	#2	STUD	3' 11"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	
	#3	STUD	3' 11"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	
HF	STANDARD	3' 11"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	6' 3"	
	#1	STUD	4' 5"	6' 11"	6' 11"	7' 8"	7' 8"	7' 8"	7' 8"	7' 8"	7' 8"	7' 8"	7' 8"	7' 8"	7' 8"	7' 8"	
	#2	STUD	4' 4"	6' 11"	6' 11"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	8' 3"	
SP	#1	STUD	4' 2"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	
	#2	STUD	4' 2"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	
	#3	STUD	4' 2"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 6"	
DFL	STANDARD	4' 0"	5' 6"	5' 6"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	
	#1 / #2	STUD	4' 0"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	
	#3	STUD	4' 0"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	



DIAGONAL BRACE OPTION: VERTICAL LENGTHS MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE TO RIBS AT EACH END. MAX WEB TOTAL LENGTH IS 14'.  
 VERTICAL LENGTH SHOWN IN TABLE ABOVE.  
 CONNECT DIAGONAL AT JOINT OF VERTICAL WEB.

2x4 #8 OR BETTER DIAGONAL BRACE, SINGLE OR DOUBLE CUT (AS SHOWN) AT UPPER END

CONNECTIONS: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, DESTROYING AND BRACING. REFER TO BEST 3-02 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE STRUSS PLATE INSTITUTE, 982 DUNSTON DR, SUITE 200, HANSDEN, VA 52719 AND VICA (WOOD TRUSS CLICAL OF AMERICA, 6800 ENTERPRISE LN, MARIETTA, VA 52719) 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 ROOF CEILING.

**JULIUS LEE'S**  
 CONS. ENGINEERS P.A.  
 1466 BR 4th AVENUE  
 DELEWARE BEACH, FL 33444-0101

No: 34686  
 STATE OF FLORIDA

MAX. TOT. LD. 60 PSF  
 MAX. SPACING 24.0"

REF: ASCE 7-02-GAB10090  
 DATE: 11/26/03  
 DWG. MAKE STD. DATE: 09/2/07  
 -ENG-

BRACING GROUP SPECIES AND GRADES:			
GROUP A:		GROUP B:	
SPF	STUD	SPF	STUD
#1 / #2	STANDARD	#1	STANDARD
#3	STUD	#2	STANDARD

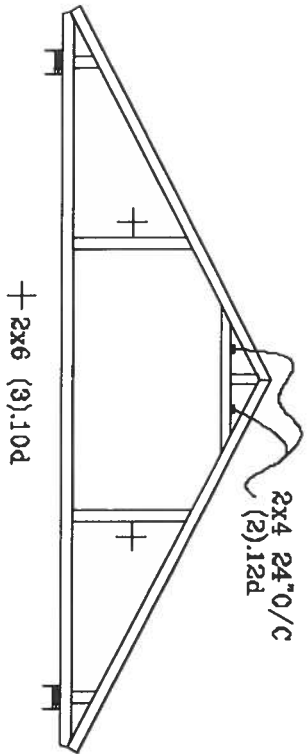
GROUP B:			
HDL-FIR		DOUGLAS FIR-LARCE	
#1	#2	#1	#2
#3	STUD	#3	STUD

CABLE TRUSS DETAIL NOTES:  
 LIVE LOAD DEPLETION CATERIA IS L/240.  
 PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BRACING (6 PSF VC DEAD LOAD).  
 GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 8' 0" OVERHANG, OR 12' PITCHED OVERHANG.  
 ATTACH EACH 1" BRACE WITH 1/4" NAILS.  
 \* FOR (1) 1" BRACE, SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.  
 \*\* FOR (2) 1" BRACES, SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.  
 1" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

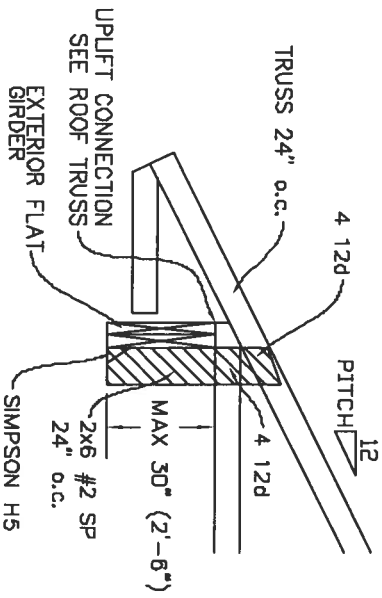
CABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH	NO SERVICE	1x4 OR 2x3	2x4
LESS THAN 4' 0"	GREATER THAN 4' 0" BUT LESS THAN 11' 0"	2x4	2x4
GREATER THAN 11' 0"		2x4	2x4

+ REFER TO COMMON TRUSS DESIGN FOR TRUSS, SERVICE, AND BEAD PLATES.

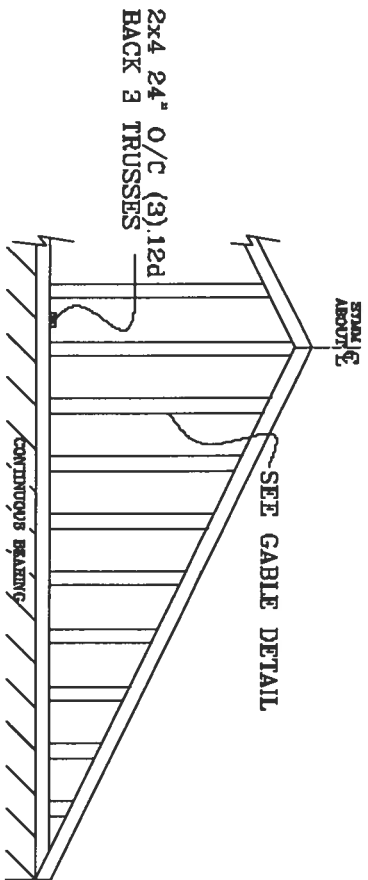
# TYPICAL ATTIC TRUSS BRACING



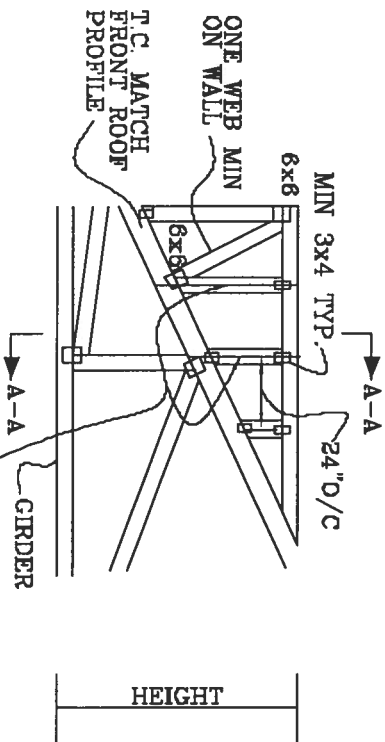
# TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



# GABLE END TRUSS DETAIL

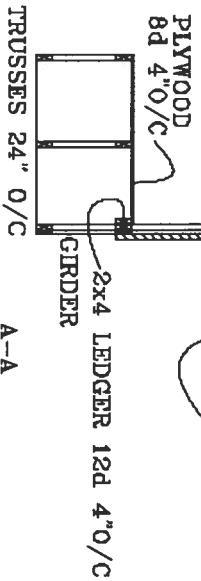


# TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT

SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL



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STATE OF FLORIDA

# PIGGYBACK DETAIL

TOP CHORD 2x4 #8 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 SPICES MUST BE STAGGERED SO THAT ONE SPICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5x3 PLATE.

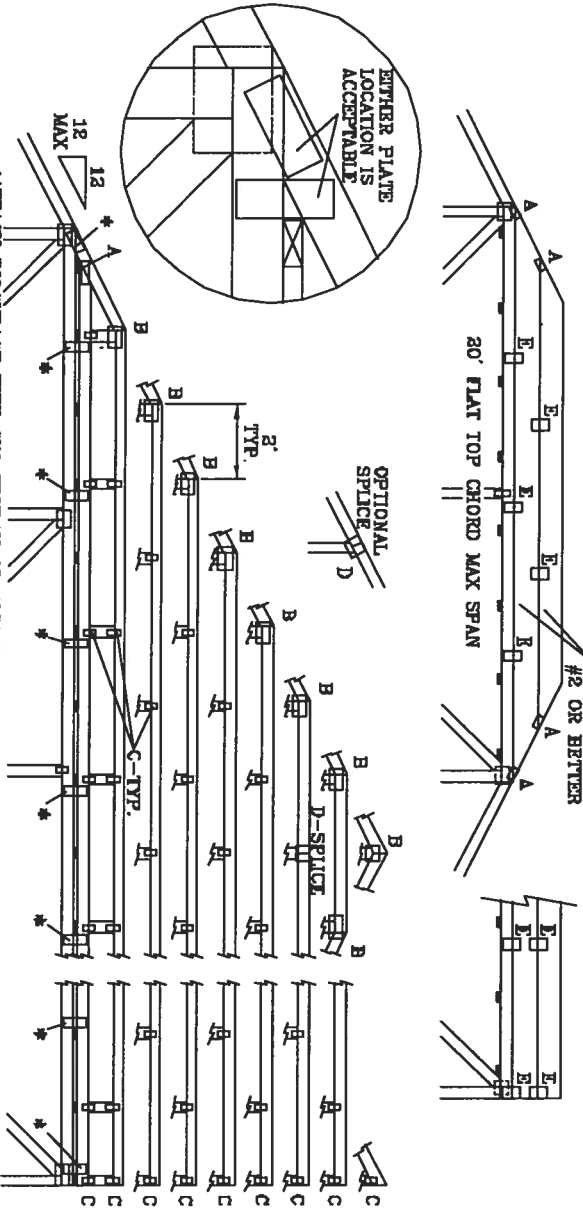
ATTACH PURLINS TO TOP OF PLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

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=6 PSF, WIND BC DL=6 PSF

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



\*ATTACH PIGGYBACK WITH 3x8 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

ENGINEERS TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES FOR TRUSS FABRICATION, INCLUDING THE TRUSS FABRICATOR'S MANUAL, 2ND EDITION, 2003, PUBLISHED BY THE TRUSS ASSOCIATION, 1500 W. WASHINGTON ST., SUITE 200, FARMERSVILLE, VA 22939 AND ADOPTED TRUSS CONSTRUCTION PRACTICES. THE TRUSS FABRICATOR SHALL HAVE PROTECTIVE STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROTECTIVE ATTACHED RIBBON BELT.

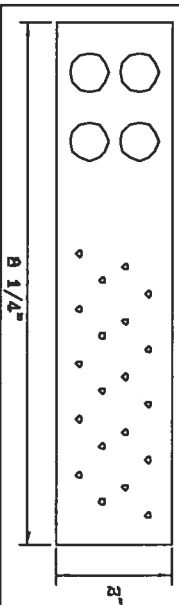
JOINT TYPE	SPANS UP TO		
	30'	34'	38'
A	2x4	2.5x4	2.5x4
B	4x6	6x6	6x6
C	1.5x3	1.5x4	1.5x4
D	5x4	5x5	5x5
E	4x3 OR 3x8 TRUSS AT 4' OC, ROTATED VERTICALLY		

ATTACH TRUSS 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 TRUSS INFORMATION.

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 BRACE, SAME GRADE, SPECIES AS WEB MEMBER OR BETTER, AND BOX LENGTH OF WEB MEMBER. ATTACH WITH 6d NAILS AT 4' OC.
10' TO 14'	2x4 T BRACE, SAME GRADE, SPECIES AS WEB MEMBER OR BETTER, AND BOX LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.

\* PIGGYBACK SPECIAL PLATE

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



THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 647,045

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No. 34888  
 STATE OF FLORIDA

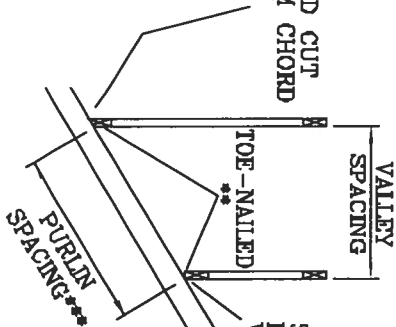
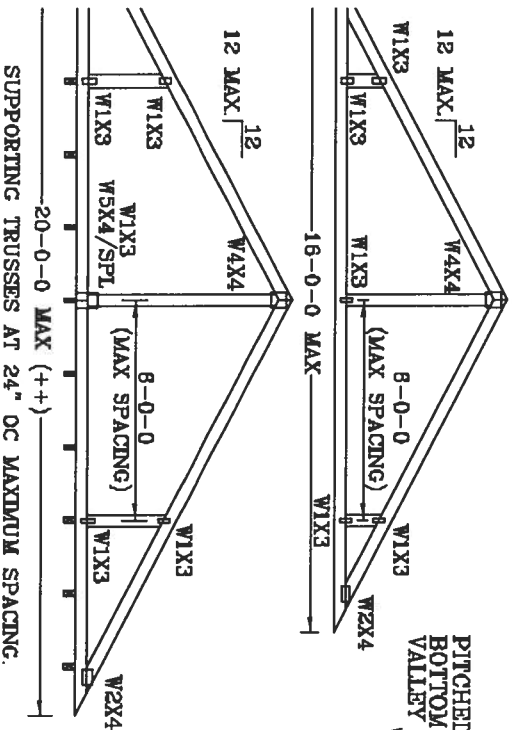
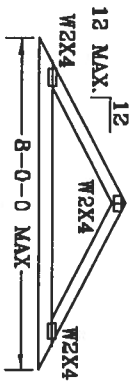
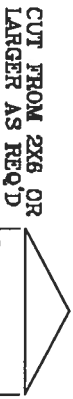
MAX LOADING	REF	PIGGYBACK
55 PSF AT	DATE	09/12/07
1.33 DUR. FAC.	DRWG/ITEK	STTD PIGGY
50 PSF AT	-ENG	JL
1.25 DUR. FAC.		
47 PSF AT		
1.15 DUR. FAC.		
SPACING		24.0"

# 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.

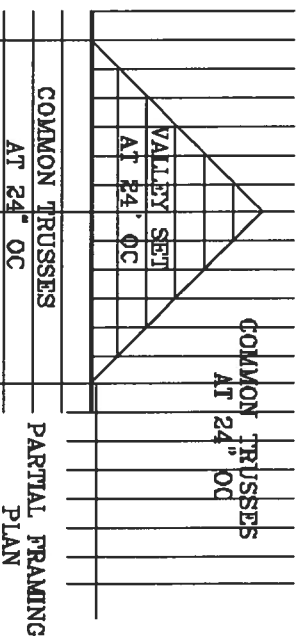
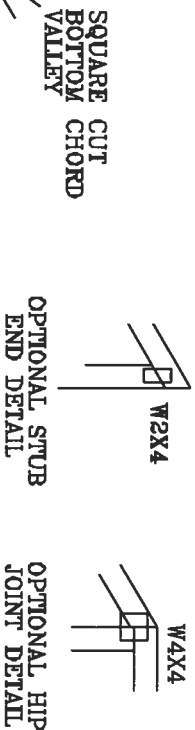
\* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).  
 \*\* ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:

(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=6 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 (0.135" 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.



THIS DRAWING REPLACES DRAWING A105

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES GUIDING DEPENDENT SAFETY DEPARTMENT, PUBLISHED BY THE TRUSS PLATE MANUFACTURERS ASSOCIATION, 3815 W. WISCONSIN, VA. 55719 AND AIAA CODE TRUSS COUNCIL. THESE FINISHES, UNLESS OTHERWISE INDICATED, SHALL BE USED FOR ALL TRUSS PARTS TO BE FABRICATED. STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED BRIDG SILLING.

**JULIUS LEE'S**  
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 DEERFIELD BEACH, FL 33442-8161

No. 34869  
 STATE OF FLORIDA

TC LL	20	20	PSF	REF	VALLEY DETAIL
BC DL	7	15	PSF	DATE	11/28/03
BC LL	0	0	PSF	DRWG	VALTRUSS1103
TOT. LD.	32	40	PSF	-ENG	JL
DUR.FAC.	1.25	1.25			
SPACING	24"				

# TOE-NAIL DETAIL

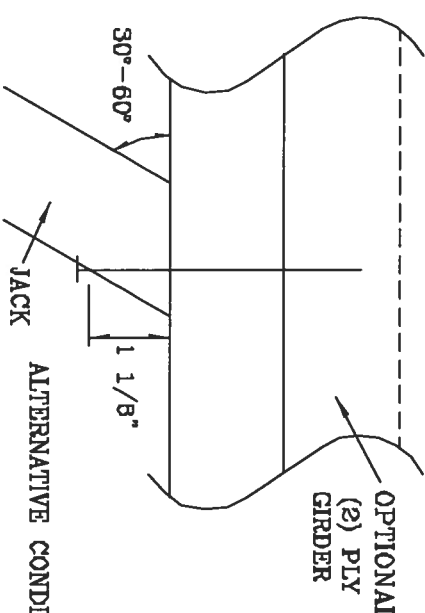
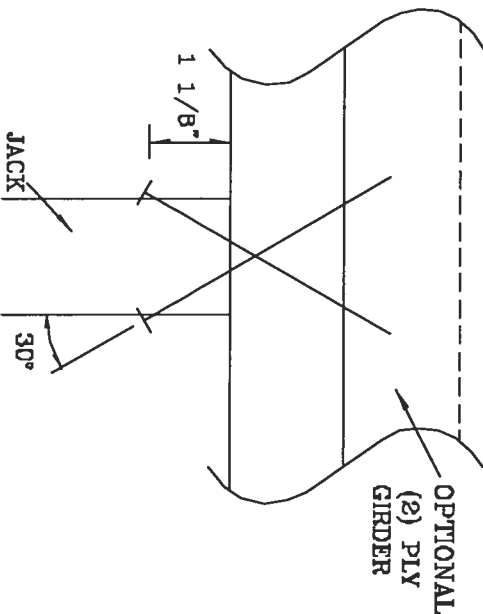
TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

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

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 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS
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

**REMARKS:** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, UNLOADING AND ERECTING. THE JOINTS MUST BE CONSIDERED COMPLETELY INTEGRATING, AS ILLUSTRATED BY THE CROSS SECTION. THE JOINTS MUST BE CONSIDERED COMPLETELY INTEGRATING, AS ILLUSTRATED BY THE CROSS SECTION. THE JOINTS MUST BE CONSIDERED COMPLETELY INTEGRATING, AS ILLUSTRATED BY THE CROSS SECTION. THESE PLUMBING, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

**JULIUS LEE'S**  
CONS. ENGINEERS P.A.

1480 ST. 4TH AVENUE  
MCALYR BLVD., FL. 32444-5181

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONALL103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		

No. 34869  
STATE OF FLORIDA

DUR. FAC. 1.00  
SPACING



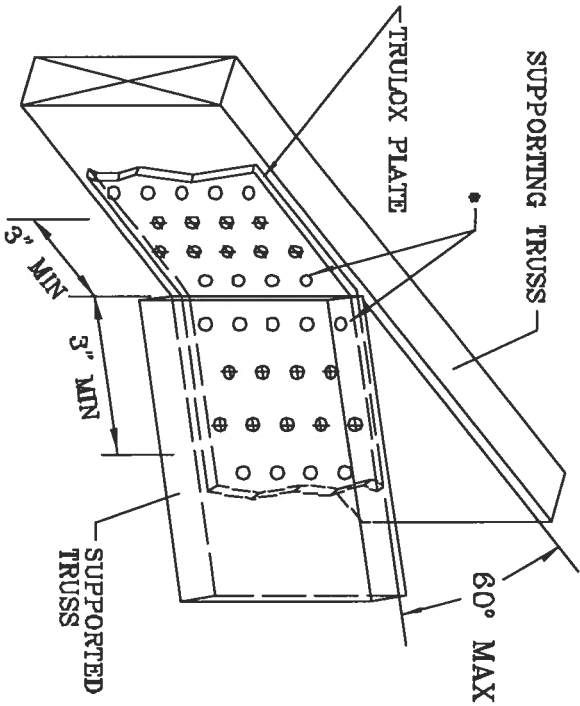
# TRULOX CONNECTION DETAIL

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

\* NAILS MAY BE OMITTED FROM THESE ROWS.

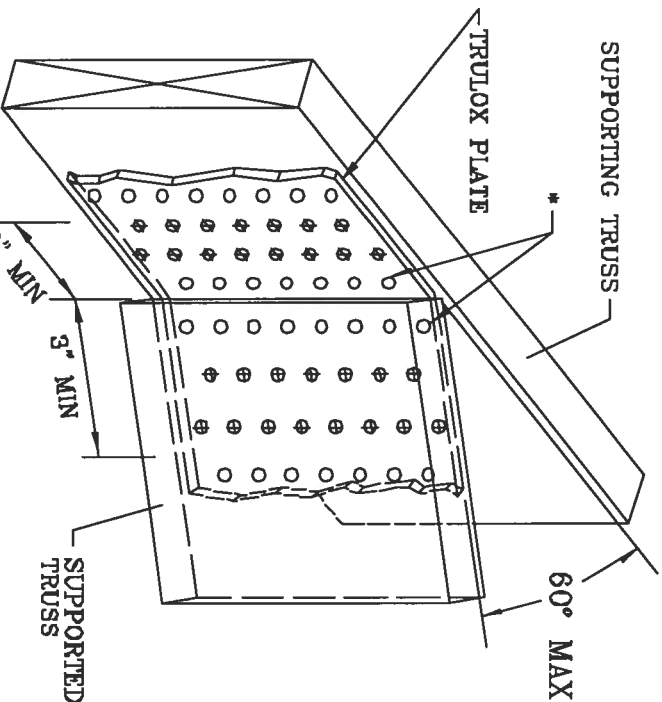
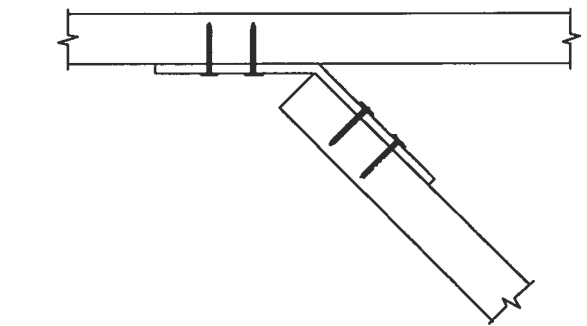
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX CHORD WIDTH.

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

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
6X6	15	990#



MINIMUM 5X6 TRULOX PLATE

THIS DRAWING REPLACES DRAWINGS 1,168,988 1,158,989/R  
1,164,844 1,162,217 1,152,017 1,159,154 & 1,161,524

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO AISC 302 (TRUSS) FOR ADDITIONAL SAFETY INFORMATION. PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 1400 N. W. 10TH ST., MIAMI, FL 33136. THIS DRAWING IS THE PROPERTY OF JULIUS LEE'S CONSULTING ENGINEERS, P.A. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF JULIUS LEE'S CONSULTING ENGINEERS, P.A. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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DELRAY BEACH, FL 33444-8888

No: 34869  
STATE OF FLORIDA

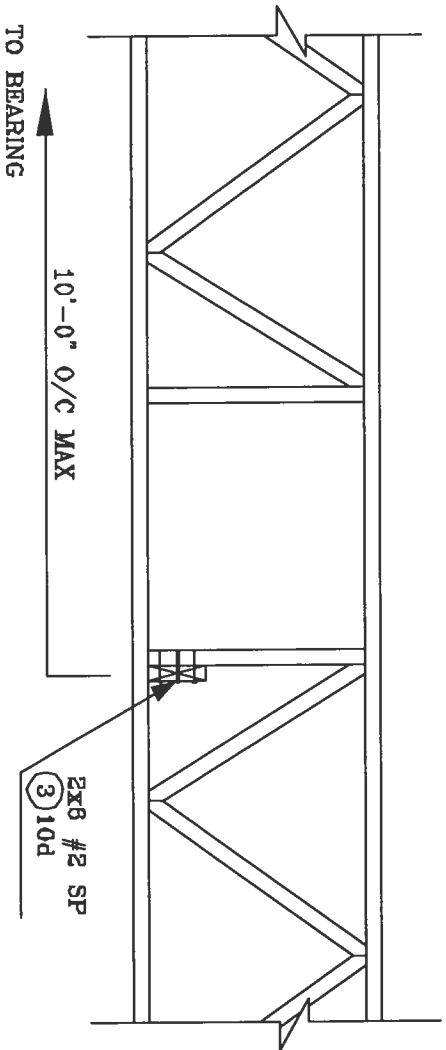
REF TRULOX

DATE 11/26/03

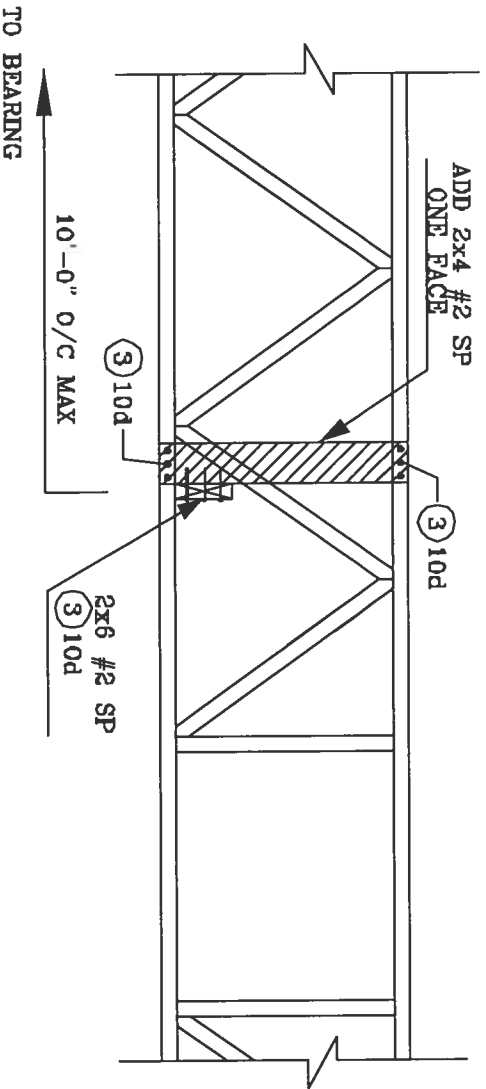
DRWG CNTRULOX1103

-ENG JL

**STRONG BACK DETAIL  
SYSTEM-42 OR FLAT TRUSS**



**ALTERNATE DETAIL FOR  
STRONG BACK WITH VERTICAL  
NOT LINING UP**



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