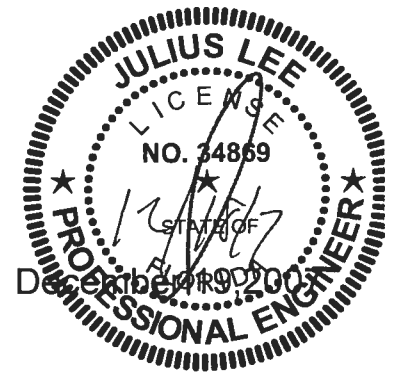




METZGER



**Project Information for: L166201**

Address: 263 Southwest William Yound Lane  
Columbia, FL  
County: Columbia  
Truss Count: 39

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): 55.0 Wind Speed (mph): 110

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

**Engineer of Record:** Unknown at time of Seal Date

Address: Unknown at time of Seal Date

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

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

**Notes:**

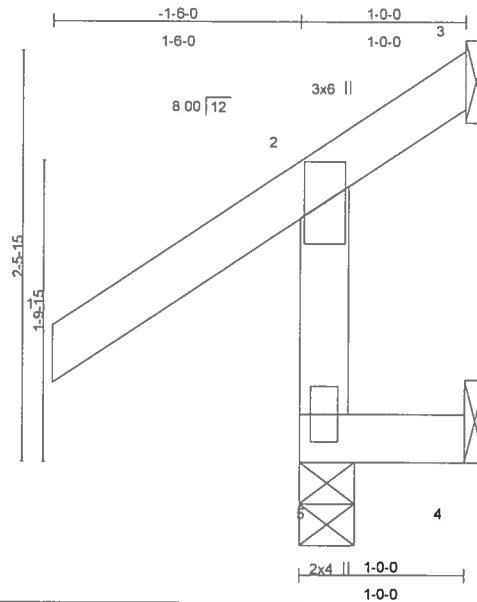
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
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 | Seal Date | No. | Drwg. #   | Truss ID | Seal Date |
|-----|----------|----------|-----------|-----|-----------|----------|-----------|
| 1   | J1917975 | CJ1      | 12/19/07  | 29  | J1918003  | T12      | 12/19/07  |
| 2   | J1917976 | CJ3      | 12/19/07  | 30  | J1918004  | T13      | 12/19/07  |
| 3   | J1917977 | CJ5      | 12/19/07  | 31  | J1918005  | T14      | 12/19/07  |
| 4   | J1917978 | EJ2      | 12/19/07  | 32  | J1918006  | T15      | 12/19/07  |
| 5   | J1917979 | EJ5      | 12/19/07  | 33  | J1918007  | T16      | 12/19/07  |
| 6   | J1917980 | EJ5A     | 12/19/07  | 34  | J1918008  | T17      | 12/19/07  |
| 7   | J1917981 | EJ7      | 12/19/07  | 35  | J1918009  | T18      | 12/19/07  |
| 8   | J1917982 | EJ8      | 12/19/07  | 36  | J1918010  | T19      | 12/19/07  |
| 9   | J1917983 | EJ8A     | 12/19/07  | 37  | J1918011  | T20      | 12/19/07  |
| 10  | J1917984 | HJ7      | 12/19/07  | 38  | J1917987A | PB04_ALT | 12/19/07  |
| 11  | J1917985 | HJ8      | 12/19/07  | 39  | J1917987B | PB04_GBL | 12/19/07  |
| 12  | J1917986 | HJ9      | 12/19/07  |     |           |          |           |
| 13  | J1917987 | PB04     | 12/19/07  |     |           |          |           |
| 14  | J1917988 | T01      | 12/19/07  |     |           |          |           |
| 15  | J1917989 | T01A     | 12/19/07  |     |           |          |           |
| 16  | J1917990 | T01B     | 12/19/07  |     |           |          |           |
| 17  | J1917991 | T02      | 12/19/07  |     |           |          |           |
| 18  | J1917992 | T03      | 12/19/07  |     |           |          |           |
| 19  | J1917993 | T04      | 12/19/07  |     |           |          |           |
| 20  | J1917994 | T05      | 12/19/07  |     |           |          |           |
| 21  | J1917995 | T06      | 12/19/07  |     |           |          |           |
| 22  | J1917996 | T07      | 12/19/07  |     |           |          |           |
| 23  | J1917997 | T08      | 12/19/07  |     |           |          |           |
| 24  | J1917998 | T09      | 12/19/07  |     |           |          |           |
| 25  | J1917999 | T09A     | 12/19/07  |     |           |          |           |
| 26  | J1918000 | T10      | 12/19/07  |     |           |          |           |
| 27  | J1918001 | T11      | 12/19/07  |     |           |          |           |
| 28  | J1918002 | T11G     | 12/19/07  |     |           |          |           |

|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | CJ1   | JACK       | 10  | 1   | J1917975          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:37 2007 Page 1



Scale = 1:13.2

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc) | l/defl | L/d  | PLATES | GRIP         |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|--------------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.31  | Vert(LL) | 0.00     | 5      | >999 | 360    | MT20         |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.11  | Vert(TL) | 0.00     | 5      | >999 | 240    | 244/190      |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.00  | Horz(TL) | -0.01    | 3      | n/a  | n/a    |              |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |          |        |      |        | Weight: 8 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 1-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 5=203/0-4-0, 4=-9/Mechanical, 3=-51/Mechanical  
Max Horz 5=97(load case 6)  
Max Uplift 5=-49(load case 6), 4=-73(load case 6), 3=-51(load case 1)  
Max Grav 5=203(load case 1), 4=9(load case 2), 3=14(load case 4)

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

TOP CHORD 2-5=-186/150, 1-2=0/49, 2-3=-54/7  
BOT CHORD 4-5=0/0

#### JOINT STRESS INDEX

2 = 0.36 and 5 = 0.69

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 5, 73 lb uplift at joint 4 and 51 lb uplift at joint 3.

Continued on page 2

Builders FirstSource  
Truss Design Engineer  
Truss Design No. 166201  
1100 General Way, Lake City, FL 32055  
Rev. 12/19/07

December 19, 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 | METZGER RESIDENCE        | J1917975 |
|---------|-------|------------|-----|-----|--------------------------|----------|
| L166201 | CJ1   | JACK       | 10  | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:37 2007 Page 2

**LOAD CASE(S)** Standard

Justin Lee  
Truss Design Engineer  
Phone: 813-344-1111  
1800 Enterprise Way, Suite 100  
Lakeland, FL 33809

December 19, 2007

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

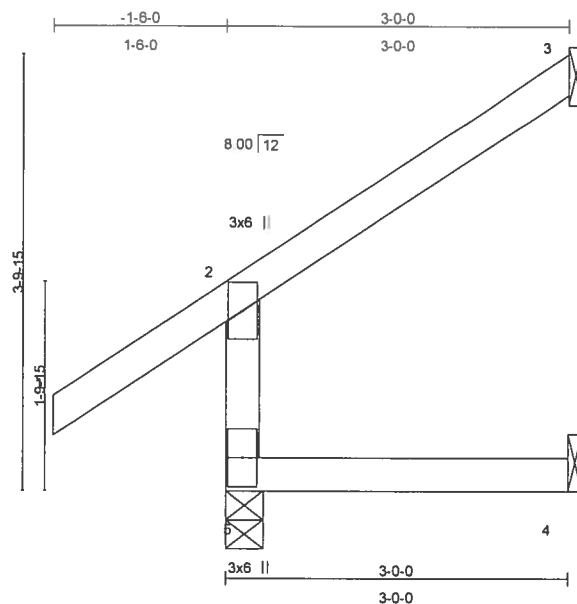
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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | CJ3   | JACK       | 10  | 1   | J1917976          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:37 2007 Page 1



Scale = 1/19.1

| LOADING (psf) | SPACING               | CSI      | DEFL           | in (loc) | I/defl | L/d | PLATES | GRIP          |
|---------------|-----------------------|----------|----------------|----------|--------|-----|--------|---------------|
| TCLL 20.0     | Plates Increase 1.25  | TC 0.49  | Vert(LL) 0.02  | 4-5      | >999   | 360 | MT20   | 244/190       |
| TCDL 7.0      | Lumber Increase 1.25  | BC 0.25  | Vert(TL) -0.00 | 4-5      | >999   | 240 |        |               |
| BCLL 10.0     | * Rep Stress Incr YES | WB 0.00  | Horz(TL) -0.06 | 3        | 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  
WEBS 2 X 4 SYP No.3

#### BRACING

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

**REACTIONS** (lb/size) 5=204/0-4-0, 3=52/Mechanical, 4=11/Mechanical  
Max Horz 5=194(load case 6)  
Max Uplift 5=-49(load case 6), 3=-93(load case 6), 4=-40(load case 6)  
Max Grav 5=204(load case 1), 3=52(load case 1), 4=39(load case 2)

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

TOP CHORD 2-5=-187/120, 1-2=0/49, 2-3=-71/21  
BOT CHORD 4-5=0/0

#### JOINT STRESS INDEX

2 = 0.60 and 5 = 0.47

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 5, 93 lb uplift at joint 3 and 40 lb uplift at joint 4.
- Continued on page 2

Builders FirstSource  
Truss Design Engineer  
Truss Design File No. 166201  
18000 General Road  
Jacksonville, FL 32244

December 19, 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 | METZGER RESIDENCE        | J1917976 |
|---------|-------|------------|-----|-----|--------------------------|----------|
| L166201 | CJ3   | JACK       | 10  | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:38 2007 Page 2

**LOAD CASE(S)** Standard

Builders FirstSource  
Truss Design Engineer  
1100 Commercial Bay Blvd  
Gwynneth Beach, FL 33426

December 19, 2007

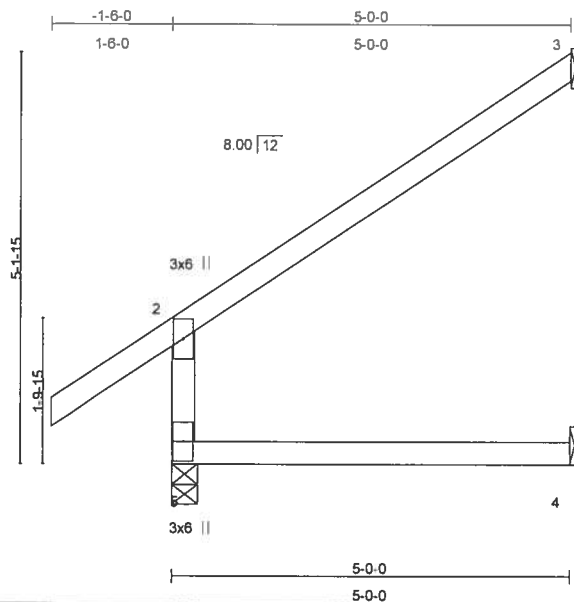
**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE**  
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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | CJ5   | JACK       | 8   | 1   | J1917977          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:38 2007 Page 1



Scale = 1/2" = 3'

| LOADING (psf) | SPACING              |       | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES | GRIP          |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|--------|---------------|
| TCLL 20.0     | Plates Increase      | 2-0-0 | TC 0.73  | Vert(LL) | 0.08  | 4-5   | >726   | 360 | MT20   | 244/190       |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.40  | Vert(TL) | -0.04 | 4-5   | >999   | 240 |        |               |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.00  | Horz(TL) | -0.17 | 3     | n/a    | n/a |        |               |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |        |               |
|               |                      |       |          |          |       |       |        |     |        | Weight: 21 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 5-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 5=257/0-4-0, 3=110/Mechanical, 4=28/Mechanical  
Max Horz 5=255(load case 6)  
Max Uplift 5=-64(load case 6), 3=-147(load case 6), 4=-33(load case 6)  
Max Grav 5=257(load case 1), 3=110(load case 1), 4=68(load case 2)

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

TOP CHORD 2-5=-238/145, 1-2=0/49, 2-3=-113/47  
BOT CHORD 4-5=0/0

#### JOINT STRESS INDEX

2 = 0.63 and 5 = 0.74

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) \*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 64 lb uplift at joint 5, 147 lb uplift at joint 3 and 33 lb uplift at joint 4.

Continued on page 2

Builders FirstSource  
Truss Design Engineers  
Florida Office No. 20000  
1100 Emerald Way Blvd  
Beverly Hills, CA 90212

December 19, 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, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 563 D'Onofrio Drive, Madison, WI 53719



| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917977 |
|---------|-------|------------|-----|-----|--------------------------|----------|
| L166201 | CJ5   | JACK       | 8   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:38 2007 Page 2

**LOAD CASE(S)** Standard

Julius L. Lee  
Truss Design Engineer  
Florida P.E. No. 34883  
1455 Coastal Bay Blvd  
Gulfport, MS 39503

December 19, 2007

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

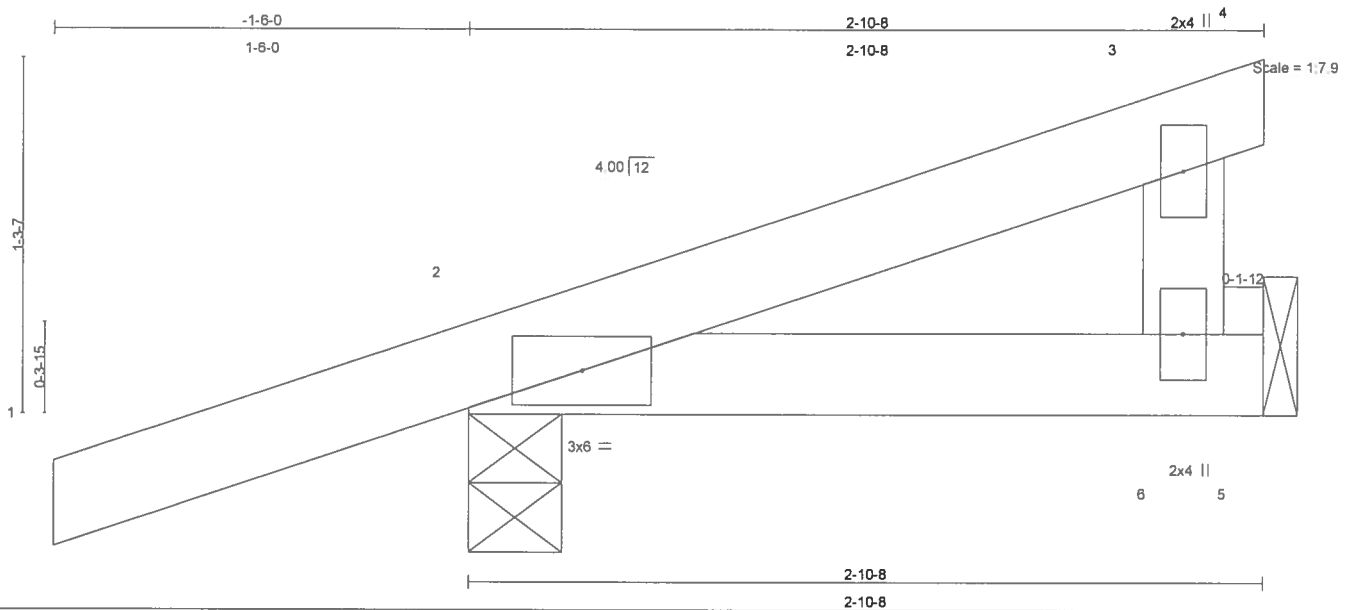
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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917978 |
| L166201 | EJ2   | MONO TRUSS | 11  | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:38 2007 Page 1



| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.16  | Vert(LL) | 0.01  | 2-6   | >999   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.06  | Vert(TL) | -0.00 | 2-6   | >999   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.01  | Horz(TL) | 0.00  |       | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     | Weight: 12 lb |         |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 2=198/0-4-0, 6=54/Mechanical  
Max Horz 2=75(load case 4)  
Max Uplift 2=-188(load case 4), 6=-50(load case 7)  
Max Grav 2=198(load case 1), 6=59(load case 2)

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

TOP CHORD 1-2=0/24, 2-3=-33/7, 3-4=-1/0  
BOT CHORD 2-6=0/0, 5-6=0/0  
WEBS 3-6=-39/37

#### JOINT STRESS INDEX

2 = 0.08, 3 = 0.02 and 6 = 0.02

#### NOTES

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

Printed: 12/13/07  
Checked: 12/13/07  
Designed: 12/13/07  
1000 General Way, Lake City, FL 32055

Continued on page 2

December 19, 2007

**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 | METZGER RESIDENCE |
|--------------------------|-------|------------|-----|-----|-------------------|
| L166201                  | EJ2   | MONO TRUSS | 11  | 1   | J1917978          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:38 2007 Page 2

#### NOTES

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 50 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Julius L. Lee  
Truss Design Engineer  
Florida P.E. No. 34486  
1400 Commercial Pkwy Blvd  
Boynton Beach, FL 33426

December 19, 2007

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

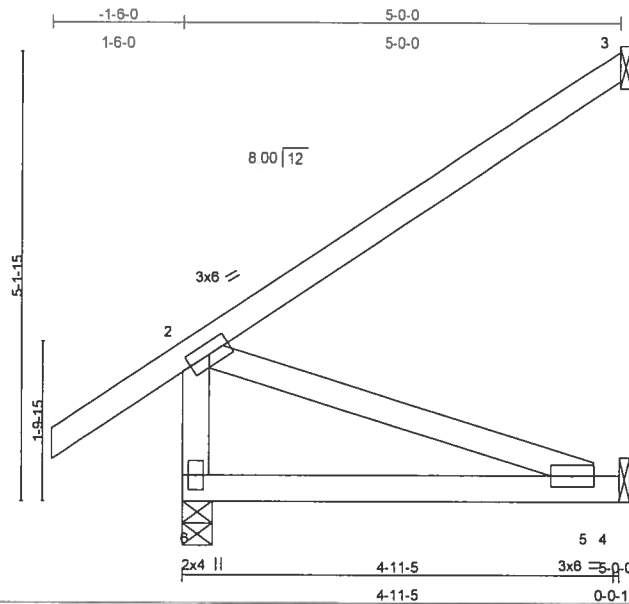
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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | EJ5   | SPECIAL    | 4   | 1   | J1917979          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:39 2007 Page 1



Scale = 1/24 9

| LOADING (psf) | SPACING              |       | CSI      | DEFL     | in (loc) | I/defl | L/d  | PLATES | GRIP          |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|---------------|
| TCLL 20.0     | Plates Increase      | 2-0-0 | TC 0.22  | Vert(LL) | -0.03    | 5-6    | >999 | 360    | MT20          |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.16  | Vert(TL) | -0.05    | 5-6    | >999 | 240    | 244/190       |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.07  | Horz(TL) | -0.00    | 3      | n/a  | n/a    |               |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |          |        |      |        | Weight: 28 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 5-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=114/Mechanical, 6=257/0-4-0, 4=24/Mechanical  
Max Horz 4=255(load case 6)  
Max Uplift 3=-115(load case 6), 6=-64(load case 6), 4=-65(load case 6)  
Max Grav 3=114(load case 1), 6=257(load case 1), 4=72(load case 2)

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

TOP CHORD 1-2=0/49, 2-3=-94/49, 2-6=-234/84  
BOT CHORD 5-6=-18/38, 4-5=-28/319  
WEBS 2-5=-11/298

#### JOINT STRESS INDEX

2 = 0.13, 5 = 0.08 and 6 = 0.08

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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) \*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

Builders FirstSource  
Truss Design Engineer  
Florida P.E. No. 24886  
14000 University Blvd, Suite 100  
Jacksonville, FL 32216

Continued on page 2

December 19, 2007

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| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917979 |
|---------|-------|------------|-----|-----|--------------------------|----------|
| L166201 | EJ5   | SPECIAL    | 4   | 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 115 lb uplift at joint 3, 64 lb uplift at joint 6 and 65 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Builders FirstSource  
Truss Design Engineer  
Florida P.E. No. 37880  
1300 Coastal Pkwy Blvd  
Deerfield Beach, FL 33442

December 19, 2007

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

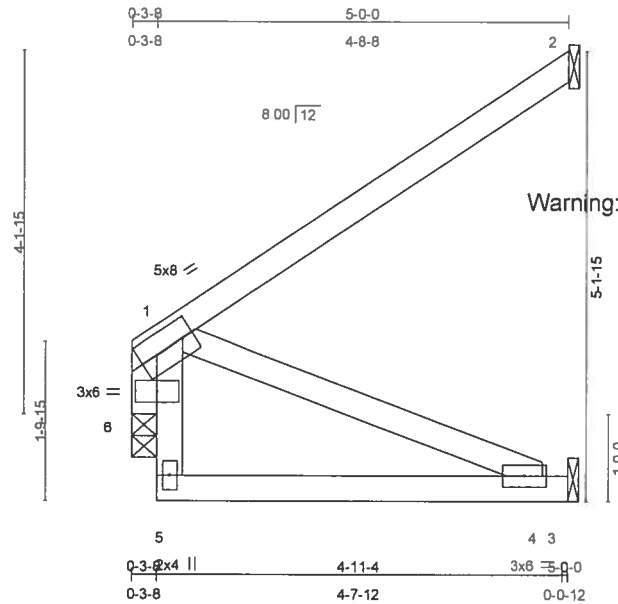
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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | EJ5A  | SPECIAL    | 1   | 1   | J1917980          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:39 2007 Page 1



Scale = 1/24" = 1'

Warning: This truss has not been designed to support any additional load from conventional framing.

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

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc)  | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-----------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.26  | Vert(LL) | -0.02 4-5 | >999   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.14  | Vert(TL) | -0.04 4-5 | >999   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.19  | Horz(TL) | -0.00 2   | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |           |        |     |               |         |
|               |                      |       |          |          |           |        |     | Weight: 26 lb |         |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5'-0" oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6'-0" oc bracing.

**REACTIONS** (lb/size) 2=125/Mechanical, 3=18/Mechanical, 6=152/0-3-8  
Max Horz 6=143(load case 6)  
Max Uplift 2=-135(load case 6), 3=-12(load case 6), 6=-1(load case 6)  
Max Grav 2=125(load case 1), 3=66(load case 2), 6=152(load case 1)

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

TOP CHORD 1-2=-103/56  
BOT CHORD 4-5=-77/4, 3-4=0/0  
WEBS 5-6=0/67, 1-6=-130/30, 1-4=-4/83

#### JOINT STRESS INDEX

1 = 0.09, 4 = 0.02, 5 = 0.06, 6 = 0.00 and 6 = 0.08

#### NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone 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.

Julius J. Lee  
Truss Design Engineer  
Florida Truss No. 24888  
1105 Coastal Bay Blvd  
Oviedo Beach, FL 32765

December 19, 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 | METZGER RESIDENCE        | J1917980 |
| L166201 | EJ5A  | SPECIAL    | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:39 2007 Page 2

#### NOTES

- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 2, 12 lb uplift at joint 3 and 1 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Printed: 12/19/2007  
 Truss Design Engineer  
 Builders FirstSource  
 1600 Central Way Blvd  
 Lakeland, FL 33805

December 19, 2007

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

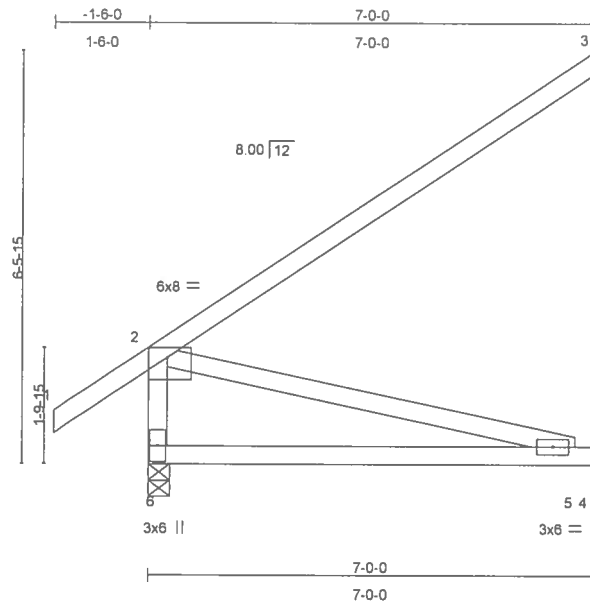
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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | EJ7   | MONO TRUSS | 6   | 1   | J1917981          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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Scale = 1/34.2

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

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc)  | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-----------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.66  | Vert(LL) | -0.06 5-6 | >999   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.29  | Vert(TL) | -0.11 5-6 | >763   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.14  | Horz(TL) | -0.01 3   | 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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9'-5-11 oc bracing.

**REACTIONS** (lb/size) 3=144/Mechanical, 6=317/0-4-0, 4=63/Mechanical

Max Horz 6=238(load case 6)

Max Uplift 3=-101(load case 6), 6=-42(load case 6), 4=-46(load case 6)

Max Grav 3=144(load case 1), 6=317(load case 1), 4=110(load case 2)

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

TOP CHORD 1-2=0/49, 2-3=-124/59, 2-6=-272/106

BOT CHORD 5-6=-447/163, 4-5=0/0

WEBS 2-5=-168/460

#### JOINT STRESS INDEX

2 = 0.47, 5 = 0.13 and 6 = 0.40

#### NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; 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) \*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

Builders FirstSource  
Truss Design Engineer  
Florida P.E. No. 3-18883  
11000 Commercial Pkwy Blvd  
Boynton Beach, FL 33436

December 19, 2007

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| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917981 |
|---------|-------|------------|-----|-----|--------------------------|----------|
| L166201 | EJ7   | MONO TRUSS | 6   | 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 101 lb uplift at joint 3, 42 lb uplift at joint 6 and 46 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Julius Lane  
Truss Design Engineer  
Florida P.E. No. 24860  
1800 Corporate Way Blvd  
Lakeland, FL 33805

December 19, 2007

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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917982 |
| L166201 | EJ8   | MONO TRUSS | 13  | 1   | Job Reference (optional) |          |

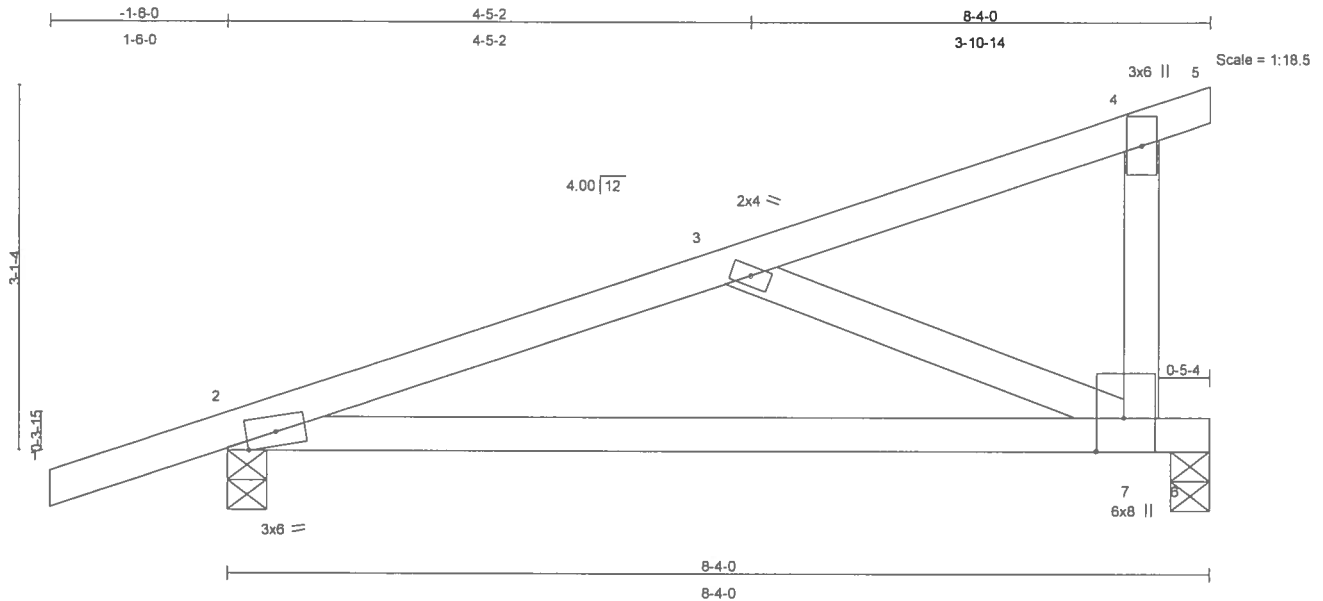


Plate Offsets (X,Y): [7:0-3-7,0-2-13]

| LOADING (psf) | SPACING               |       | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|-----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase 1.25  | 2-0-0 | TC 0.61  | Vert(LL) | 0.23  | 2-7   | >426   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25  |       | BC 0.22  | Vert(TL) | -0.13 | 2-7   | >768   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr YES |       | WB 0.10  | Horz(TL) | -0.01 | 6     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002  |       | (Matrix) |          |       |       |        |     |               |         |
|               |                       |       |          |          |       |       |        |     | Weight: 37 lb |         |

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.1D  
 WEBS 2 X 4 SYP No.2 \*Except\*  
 3-7 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 8-6-10 oc  
 bracing.

**REACTIONS** (lb/size) 2=355/0-4-0, 6=256/0-4-0  
 Max Horz 2=113(load case 4)  
 Max Uplift 2=-234(load case 4), 6=-179(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/24, 2-3=-398/418, 3-4=-99/133, 4-5=-10/0, 4-7=-104/101  
 BOT CHORD 2-7=-538/343, 6-7=0/0  
 WEBS 3-7=-299/391

#### JOINT STRESS INDEX

2 = 0.69, 3 = 0.18, 4 = 0.33 and 7 = 0.54

#### NOTES

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

THIS TRUSS IS DESIGNED FOR A 10.0 PSF BOTTOM CHORD LIVE LOAD NONCONCURRENT WITH ANY OTHER LIVE LOADS.

December 19,2007

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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917982 |
| L166201 | EJ8   | MONO TRUSS | 13  | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:40 2007 Page 2

#### NOTES

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 2 and 179 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Builders FirstSource  
Truss Design Engineer  
6300 Enterprise Lane, Madison, WI 53719  
1.800.633.6333  
6300 Enterprise Lane, Madison, WI 53719

December 19, 2007

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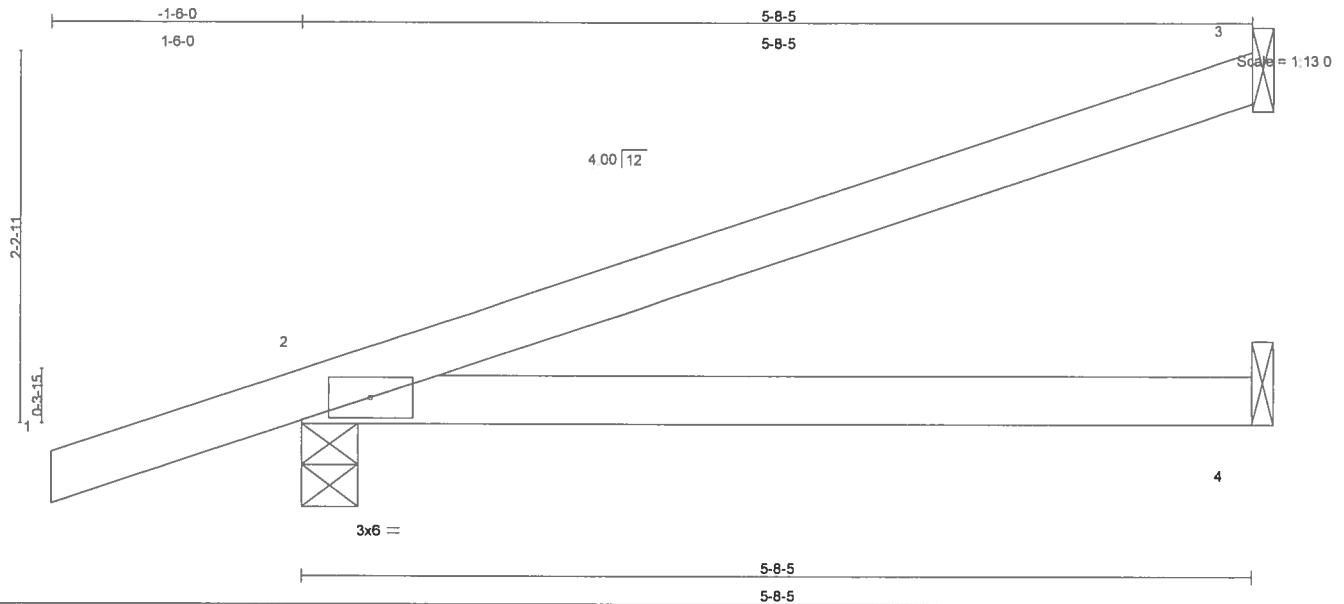
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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917983 |
| L166201 | EJ8A  | MONO TRUSS | 2   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:41 2007 Page 1



| LOADING (psf) | SPACING               |  | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|-----------------------|--|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase 1.25  |  | TC 0.30  | Vert(LL) | 0.15  | 2-4   | >449   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25  |  | BC 0.31  | Vert(TL) | -0.08 | 2-4   | >801   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr YES |  | WB 0.00  | Horz(TL) | -0.00 | 3     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002  |  | (Matrix) |          |       |       |        |     |               |         |
|               |                       |  |          |          |       |       |        |     | Weight: 20 lb |         |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 3=134/Mechanical, 2=279/0-4-0, 4=27/Mechanical  
Max Horz 2=118(load case 4)  
Max Uplift 3=-103(load case 4), 2=-249(load case 4), 4=-52(load case 4)  
Max Grav 3=134(load case 1), 2=279(load case 1), 4=82(load case 2)

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

TOP CHORD 1-2=0/24, 2-3=-70/34  
BOT CHORD 2-4=0/0

#### JOINT STRESS INDEX

2 = 0.11

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
  - 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 3, 249 lb uplift at joint 2 and 52 lb uplift at joint 4.
- Continued on page 2

Truss Design Engineer  
Truss Design Engineer  
1000 Commercial Pkwy Blvd  
Lakeland, FL 33805

December 19, 2007

**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 | METZGER RESIDENCE        | J1917983 |
| L166201 | EJ8A  | MONO TRUSS | 2   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:41 2007 Page 2

**LOAD CASE(S)** Standard

Printed on 12/19/07  
 Design Engineer: [Signature]  
 Checked by: [Signature]  
 11/15/07 10:00 AM  
 LOCATION: LAKELAND, FL 33805

December 19, 2007

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

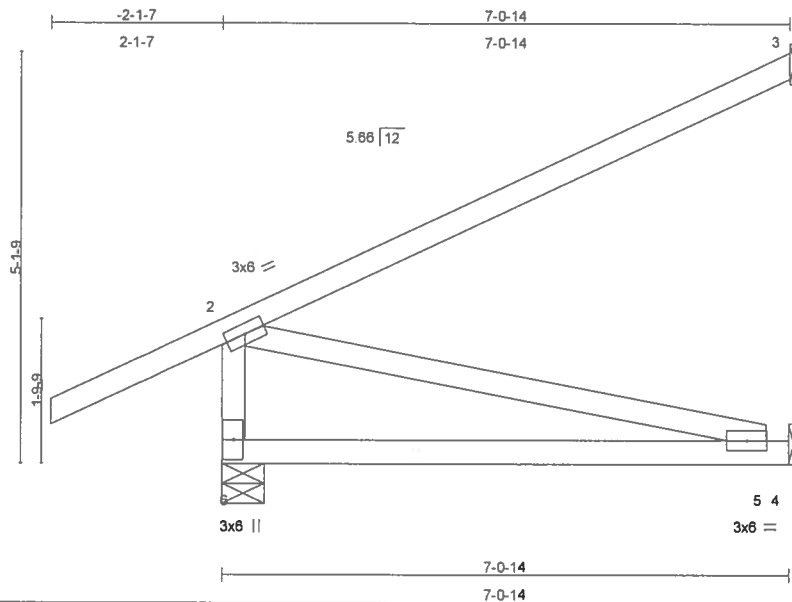
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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | HJ7   | JACK       | 1   | 1   | J1917984          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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Scale = 1/27.1

| LOADING (psf) | SPACING              |       | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 2-0-0 | TC 0.52  | Vert(LL) | -0.06 | 5-6   | >999   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.30  | Vert(TL) | -0.11 | 5-6   | >750   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr    | NO    | WB 0.09  | Horz(TL) | -0.01 | 3     | 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

#### BRACING

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

**REACTIONS** (lb/size) 6=277/0-6-7, 3=185/Mechanical, 4=56/Mechanical  
Max Horz 6=237(load case 5)  
Max Uplift 6=-114(load case 5), 3=-173(load case 5), 4=-30(load case 5)  
Max Grav 6=277(load case 1), 3=185(load case 1), 4=114(load case 2)

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

TOP CHORD 2-6=-248/128, 1-2=0/52, 2-3=-96/52  
BOT CHORD 5-6=-225/107, 4-5=0/0  
WEBS 2-5=-110/232

#### JOINT STRESS INDEX

2 = 0.69, 5 = 0.06 and 6 = 0.38

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical 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
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 6, 173 lb uplift at joint 3 and 30 lb uplift at joint 4.
- Continued on page 2

Builders FirstSource  
Truss Design Engineer  
Phone: 813-210-1100  
1100 Coastal Bay Blvd  
Gulfport Beach, FL 32561

December 19, 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 | METZGER RESIDENCE |
|--------------------------|-------|------------|-----|-----|-------------------|
| L166201                  | HJ7   | JACK       | 1   | 1   | J1917984          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:41 2007 Page 2

#### NOTES

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

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-2(F=26, B=26)-to-3=-95(F=-21, B=-21), 6=0(F=5, B=5)-to-4=-18(F=-4, B=-4)

Julius Lutz  
Truss Design Engineer  
Florida PE No. 34888  
14000 Central Exp. Hwy  
Orlando, FL 32818

December 19, 2007

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

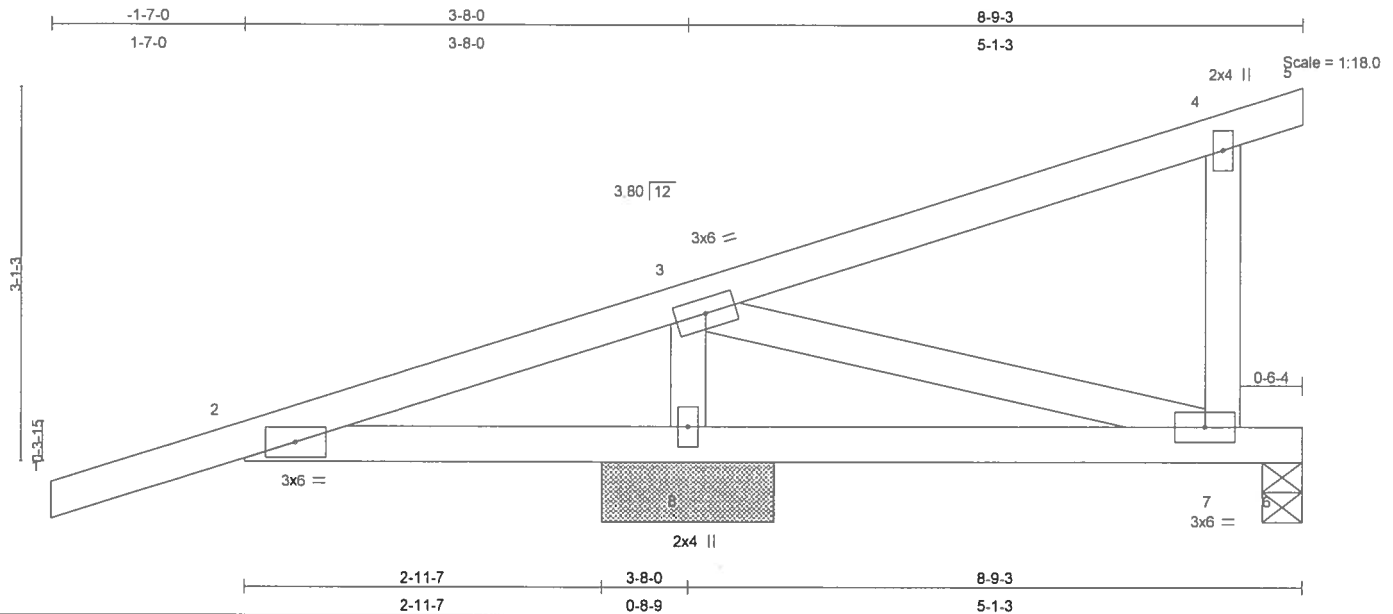
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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917985 |
| L166201 | HJ8   | MONO TRUSS | 2   | 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 | TC 0.30  | Vert(LL) 0.06  | 7-8 | >999  | 360    |     | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25  | BC 0.19  | Vert(TL) -0.04 | 7-8 | >999  | 240    |     |               |         |
| BCLL 10.0     | * Rep Stress Incr NO  | WB 0.10  | Horz(TL) -0.00 | 6   | n/a   | n/a    |     |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002  | (Matrix) |                |     |       |        |     |               |         |
|               |                       |          |                |     |       |        |     | Weight: 40 lb |         |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 6=179/0-4-0, 8=493/1-5-2  
Max Horz 8=164(load case 3)  
Max Uplift 6=-218(load case 6), 8=-458(load case 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/24, 2-3=-413/327, 3-4=-78/37, 4-5=-22/0  
BOT CHORD 2-8=-287/422, 7-8=-287/258, 6-7=0/0  
WEBS 3-7=-267/297, 3-8=-419/351, 4-7=-242/193

#### JOINT STRESS INDEX

2 = 0.25, 3 = 0.20, 4 = 0.11, 7 = 0.17 and 8 = 0.20

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift joint 6 and 458 lb uplift at joint 8.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

December 19,2007

Continued on page 2

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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | HJ8   | MONO TRUSS | 2   | 1   | J1917985          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Dec 19 10:15:46 2007 Page 2

# **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-5=-113(F=-30, B=-30), 2=0(F=5, B=5)-to-6=-21(F=-5, B=-5)

Builders FirstSource  
Truss Design Engineer  
6300 Enterprise Lane, Madison, WI 53719  
1-800-854-4444  
www.buildersfirstsource.com

December 19, 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 | METZGER RESIDENCE        | J1917986 |
| L166201 | HJ9   | MONO TRUSS | 4   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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#### NOTES

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

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-2(F=26, B=26)-to-4=-134(F=-40, B=-40), 8=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

Printed on: 12/13/2007  
 11:03 AM  
 1103 Enterprise Lane  
 Madison, WI 53719

December 19, 2007

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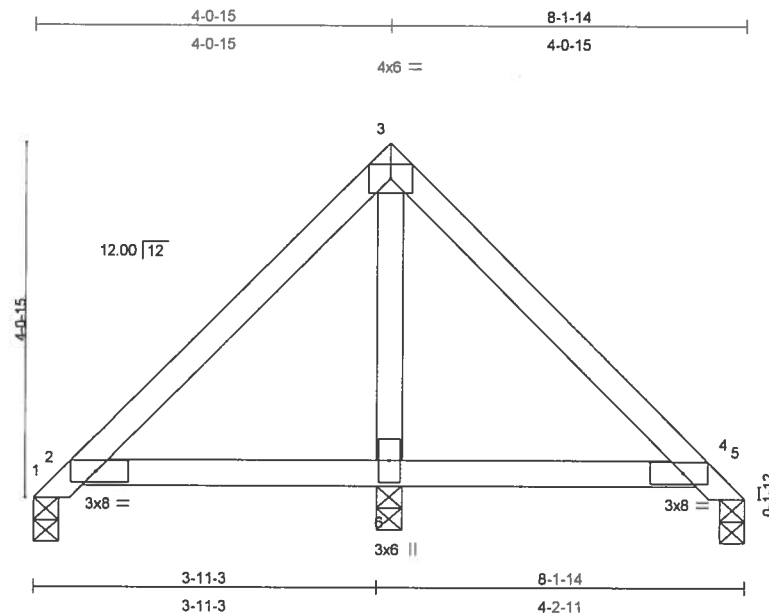
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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | PB04  | PIGGYBACK  | 19  | 1   | J1917987          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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Scale = 1:24.9

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

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.12  | Vert(LL) | -0.01 | 2-6   | >999   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.10  | Vert(TL) | -0.01 | 4-6   | >999   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.09  | Horz(TL) | 0.01  | 5     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |               |         |
|               |                      |       |          |          |       |       |        |     | Weight: 32 lb |         |

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(lb/size) 1=42/0-3-8, 5=42/0-3-8, 6=421/0-3-8  
Max Horz 1=-109(load case 4)  
Max Uplift 1=-17(load case 4), 5=-17(load case 4), 6=-128(load case 6)  
Max Grav 1=68(load case 10), 5=68(load case 11), 6=421(load case 1)

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

TOP CHORD 1-2=-106/100, 2-3=-85/166, 3-4=-85/166, 4-5=-41/15  
BOT CHORD 2-6=-62/151, 4-6=-62/151  
WEBS 3-6=-342/264

#### JOINT STRESS INDEX

2 = 0.26, 3 = 0.23, 4 = 0.26 and 6 = 0.09

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- \*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
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Builders FirstSource  
Truss Design Engineer  
Truss Plate No. 166201  
11000 Central Bay Blvd  
Boynton Beach, FL 33436

December 19, 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 | METZGER RESIDENCE |
| L166201                  | PB04  | PIGGYBACK  | 19  | 1   | J1917987          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Dec 18 15:20:37 2007 Page 2

#### NOTES

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 17 lb uplift at joint 5 and 128 lb uplift at joint 6.
- 7) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
- LOAD CASE(S)** Standard

Julius Lee  
Truss Design Engineer  
Florida P.E. No. 24886  
1300 Coastal Hwy Blvd  
Dayton Beach, FL 32115

December 19, 2007

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|                |              |                        |          |          |   |
|----------------|--------------|------------------------|----------|----------|---|
| Job<br>L166201 | Truss<br>T01 | Truss Type<br>MONO HIP | Qty<br>1 | Ply<br>1 | METZGER RESIDENCE<br>J1917988<br>Job Reference (optional) |
|----------------|--------------|------------------------|----------|----------|---|

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:44 2007 Page 1

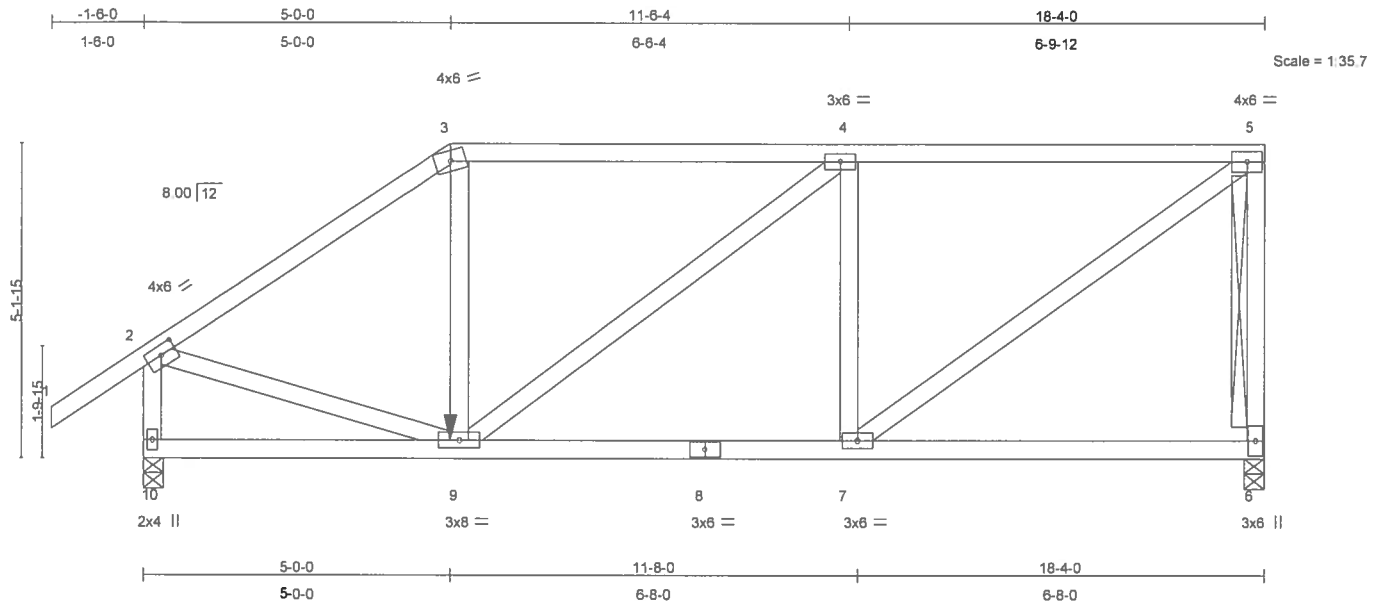


Plate Offsets (X,Y): [2:0-3-0,0-1-12]

| LOADING (psf) | SPACING              |       | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase 1.25 | 2-0-0 | TC 0.75  | Vert(LL) | -0.04 | 6-7   | >999   | 360 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25 |       | BC 0.31  | Vert(TL) | -0.09 | 7-9   | >999   | 240 |                |         |
| BCLL 10.0     | * Rep Stress Incr NO |       | WB 0.57  | Horz(TL) | 0.01  | 6     | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |                |         |
|               |                      |       |          |          |       |       |        |     | Weight: 112 lb |         |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 6=982/0-4-0, 10=1010/0-4-0  
Max Horz 10=198(load case 5)  
Max Uplift 6=-441(load case 3), 10=-366(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/49, 2-3=-1029/409, 3-4=-812/378, 4-5=-945/418, 5-6=-920/464, 2-10=-988/378  
BOT CHORD 9-10=-161/49, 8-9=-418/945, 7-8=-418/945, 6-7=-26/58  
WEBS 3-9=-35/187, 4-9=-169/130, 4-7=-543/367, 5-7=-486/1099, 2-9=-381/837

#### JOINT STRESS INDEX

2 = 0.70, 3 = 0.65, 4 = 0.34, 5 = 0.70, 6 = 0.29, 7 = 0.63, 8 = 0.38, 9 = 0.74 and 10 = 0.43

Julius L. Loefer  
Truss Design Engineer  
Florida PE No. 35880  
1400 Colonial Hwy, Suite 200  
Boynton Beach, FL 33426

Continued on page 2

December 19, 2007

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|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        |
| L166201 | T01   | MONO HIP   | 1   | 1   | J1917988                 |
|         |       |            |     |     | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:44 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; 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 441 lb uplift at joint 6 and 366 lb uplift at joint 10.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

#### LOAD CASE(S) Standard

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

Builders FirstSource  
Truss Design Department  
P.O. Box 20000  
Lake City, FL 32055  
Revision 0.0001, 11/2006

December 19, 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 | METZGER RESIDENCE |
| L166201                  | T01A  | HIP        | 1   | 1   | J1917989          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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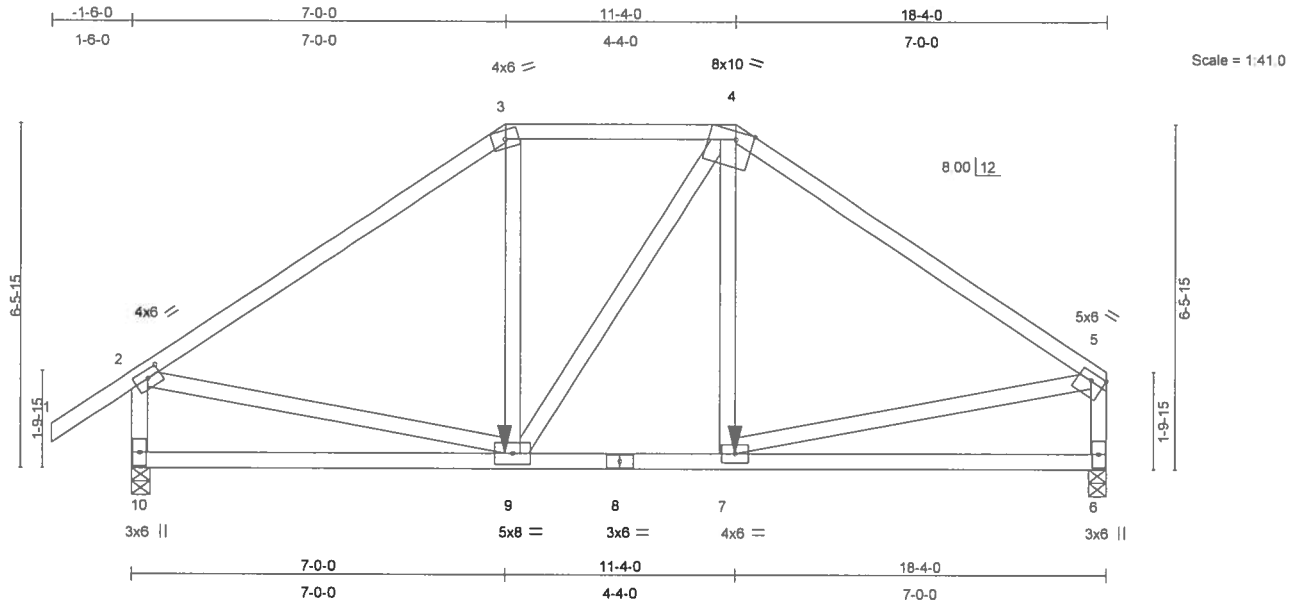


Plate Offsets (X,Y): [2:0-3-0,0-1-12], [4:0-4-0,Edge], [5:Edge,0-1-12]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.74  | Vert(LL) | -0.05 | 6-7   | >999   | 360 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.29  | Vert(TL) | -0.09 | 6-7   | >999   | 240 |                |         |
| BCLL 10.0     | * Rep Stress Incr    | NO    | WB 0.47  | Horz(TL) | -0.01 | 10    | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |                |         |
|               |                      |       |          |          |       |       |        |     | Weight: 114 lb |         |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
5-1-1 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 8-6-15 oc  
bracing.

**REACTIONS** (lb/size) 6=1144/0-4-0, 10=1241/0-4-0  
Max Horz 6=186(load case 4)  
Max Uplift 6=-469(load case 6), 10=-535(load case 5)

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

TOP CHORD 4-5=-1382/606, 3-4=-1068/568, 1-2=0/49, 2-3=-1380/609, 5-6=-1101/485,  
2-10=-1200/553  
BOT CHORD 9-10=-18/123, 8-9=-540/1070, 7-8=-540/1070, 6-7=-181/227  
WEBS 4-7=-127/283, 4-9=-115/113, 3-9=-186/361, 2-9=-533/963, 5-7=-526/924

#### JOINT STRESS INDEX

2 = 0.70, 3 = 0.70, 4 = 0.65, 5 = 0.70, 6 = 0.37, 7 = 0.41, 8 = 0.39, 9 = 0.45 and 10 = 0.36

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Provide adequate drainage to prevent water ponding.
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Truss Design Engineer  
Truss Plate No. 01-166201  
166201-01-166201  
01-166201-01-166201

December 19, 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 | METZGER RESIDENCE        | J1917989 |
| L166201 | T01A  | HIP        | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 469 lb uplift at joint 6 and 535 lb uplift at joint 10.
- 7) Girder carries hip end with 7'-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: 4-5=-54, 3-4=-117(F=-63), 1-2=-54, 2-3=-54, 9-10=-10, 7-9=-22(F=-12), 6-7=-10

Concentrated Loads (lb)

Vert: 7=-411(F) 9=-411(F)

Builders FirstSource  
Truss Division  
16000 E. Highway 100  
Lake City, FL 32055  
6300 Enterprise Lane, Madison, WI 53719

December 19, 2007

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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917990 |
| L166201 | T01B  | MONO HIP   | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:45 2007 Page 1

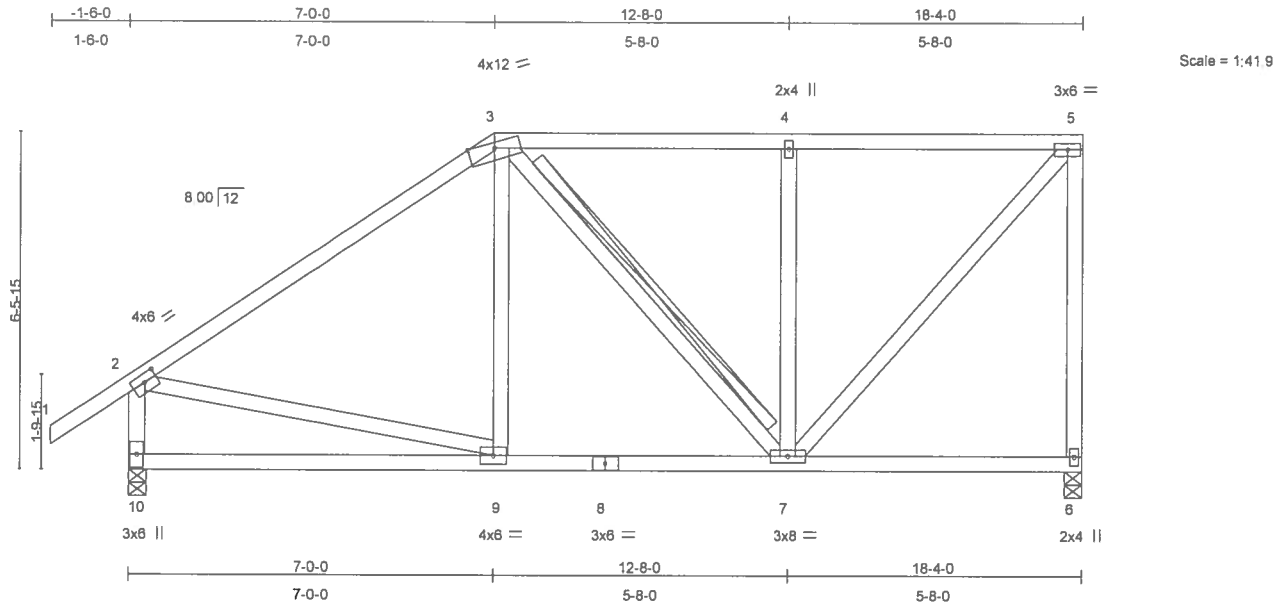


Plate Offsets (X,Y): [2:0-3-0,0-1-12]

| LOADING (psf) | SPACING              |       | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase      | 2-0-0 | TC 0.63  | Vert(LL) | -0.04 | 9-10  | >999   | 360 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.19  | Vert(TL) | -0.08 | 9-10  | >999   | 240 |                |         |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.39  | Horz(TL) | -0.01 | 6     | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |                |         |
|               |                      |       |          |          |       |       |        |     | Weight: 122 lb |         |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 - 3-7  
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) 6=573/0-4-0, 10=670/0-4-0  
Max Horz 10=240(load case 6)  
Max Uplift 6=-171(load case 5), 10=-154(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/49, 2-3=-615/262, 3-4=-379/231, 4-5=-379/231, 5-6=-542/348, 2-10=-632/345  
BOT CHORD 9-10=-352/115, 8-9=-302/425, 7-8=-302/425, 6-7=-10/17  
WEBS 3-9=-10/147, 3-7=-74/105, 4-7=-306/211, 5-7=-333/543, 2-9=-112/318

#### JOINT STRESS INDEX

2 = 0.73, 3 = 0.94, 4 = 0.33, 5 = 0.47, 6 = 0.45, 7 = 0.56, 8 = 0.16, 9 = 0.28 and 10 = 0.33

THIS TRUSS WAS DESIGNED BY MI TEK INDUSTRIES, INC. FOR THE METZGER RESIDENCE. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO VERIFY THE TRUSS IS INSTALLED AND LOADED AS SHOWN ON THIS DRAWING. FOR MORE INFORMATION, CONTACT MI TEK INDUSTRIES, INC. AT 1-800-368-5848.

Continued on page 2

December 19, 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 | METZGER RESIDENCE        |
|---------|-------|------------|-----|-----|--------------------------|
| L166201 | T01B  | MONO HIP   | 1   | 1   | J1917990                 |
|         |       |            |     |     | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:45 2007 Page 2

#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; 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 171 lb uplift at joint 6 and 154 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Builders FirstSource  
Truss Design Engineer  
Truss Plate No. 01166201  
11/15/06 Generated using MiTek  
TRUSS DESIGNER, FL 32055

December 19, 2007

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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Jc5                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | T02   | HIP        | 2   | 1   | J1917991          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:46 2007 Page 1

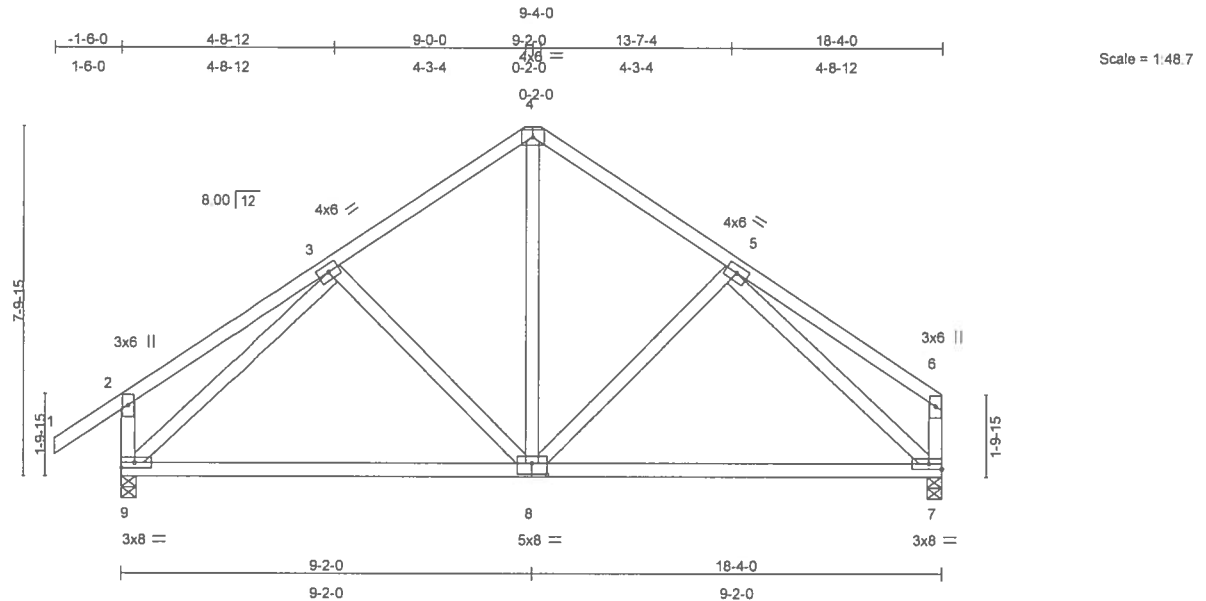


Plate Offsets (X,Y): [8:0-4-0,0-3-0]

| LOADING (psf) | SPACING               |       | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP    |
|---------------|-----------------------|-------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase 1.25  | 2-0-0 | TC 0.56  | Vert(LL) | -0.09 | 8-9   | >999   | 360 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25  |       | BC 0.34  | Vert(TL) | -0.16 | 8-9   | >999   | 240 |                |         |
| BCLL 10.0     | * Rep Stress Incr YES |       | WB 0.37  | Horz(TL) | 0.01  | 7     | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002  |       | (Matrix) |          |       |       |        |     |                |         |
|               |                       |       |          |          |       |       |        |     | Weight: 114 lb |         |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 9=670/0-4-0, 7=573/0-4-0  
Max Horz 9=226(load case 5)  
Max Uplift 9=-182(load case 6), 7=-117(load case 7)

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

TOP CHORD 1-2=0/49, 2-3=-168/175, 3-4=-497/319, 4-5=-497/320, 5-6=-181/116, 2-9=-255/267, 6-7=-184/133  
BOT CHORD 8-9=-182/421, 7-8=-179/431  
WEBS 3-8=-125/171, 5-8=-138/167, 3-9=-517/160, 5-7=-481/220, 4-8=-182/284

#### JOINT STRESS INDEX

2 = 0.26, 3 = 0.26, 4 = 0.34, 5 = 0.26, 6 = 0.25, 7 = 0.53, 8 = 0.55 and 9 = 0.53

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left 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.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

This truss is designed for use in conjunction with the following products: 1. 2x4 SYP No. 2 Lumber 2. 2x4 SYP No. 3 Lumber 3. 2x4 SYP No. 2 Lumber 4. 2x4 SYP No. 3 Lumber 5. 2x4 SYP No. 2 Lumber 6. 2x4 SYP No. 3 Lumber 7. 2x4 SYP No. 2 Lumber 8. 2x4 SYP No. 3 Lumber 9. 2x4 SYP No. 2 Lumber 10. 2x4 SYP No. 3 Lumber

December 19, 2007

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|                          |              |                      |          |          |                               |
|--------------------------|--------------|----------------------|----------|----------|-------------------------------|
| Job<br>L166201           | Truss<br>T03 | Truss Type<br>COMMON | Qty<br>1 | Ply<br>1 | METZGER RESIDENCE<br>J1917992 |
| Job Reference (optional) |              |                      |          |          |                               |

Builders FirstSource, Lake City, FL 32055

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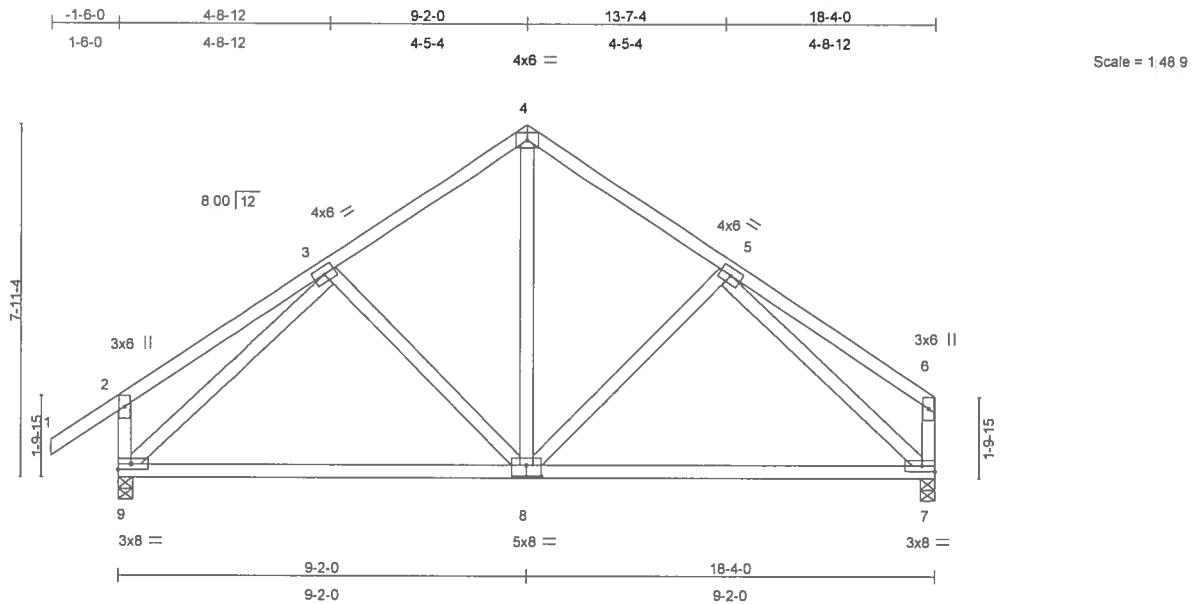


Plate Offsets (X,Y): [8:0-4-0,0-3-0]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES | GRIP           |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|--------|----------------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.56  | Vert(LL) | -0.09 | 7-8   | >999   | 360 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.34  | Vert(TL) | -0.16 | 8-9   | >999   | 240 |        |                |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.37  | Horz(TL) | 0.01  | 7     | n/a    | n/a |        |                |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |        |                |
|               |                      |       |          |          |       |       |        |     |        | Weight: 115 lb |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 9=670/0-4-0, 7=573/0-4-0  
Max Horz 9=226(load case 5)  
Max Uplift 9=-182(load case 6), 7=-117(load case 7)

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

TOP CHORD 1-2=0/49, 2-3=-168/175, 3-4=-497/319, 4-5=-497/320, 5-6=-181/116, 2-9=-255/267,  
6-7=-184/133  
BOT CHORD 8-9=-182/421, 7-8=-179/431  
WEBS 3-8=-125/171, 4-8=-182/284, 5-8=-138/167, 3-9=-517/160, 5-7=-481/220

#### JOINT STRESS INDEX

2 = 0.26, 3 = 0.26, 4 = 0.34, 5 = 0.26, 6 = 0.25, 7 = 0.53, 8 = 0.55 and 9 = 0.53

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left 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.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Builders FirstSource  
Truss Design Engineer  
Florida P.E. No. 24888  
1400 Coastal Pkwy Blvd  
Deerfield Beach, FL 33445

December 19, 2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 BEFORE USE**  
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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917992 |
| L166201 | T03   | COMMON     | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:47 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 182 lb uplift at joint 9 and 117 lb uplift at joint 7.

**LOAD CASE(S)** Standard

Builders FirstSource  
Truss Design Department  
166201 T03 COMMON  
Job Reference (optional)  
J1917992

December 19, 2007

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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | T04   | HIP        | 1   | 1   | J1917993          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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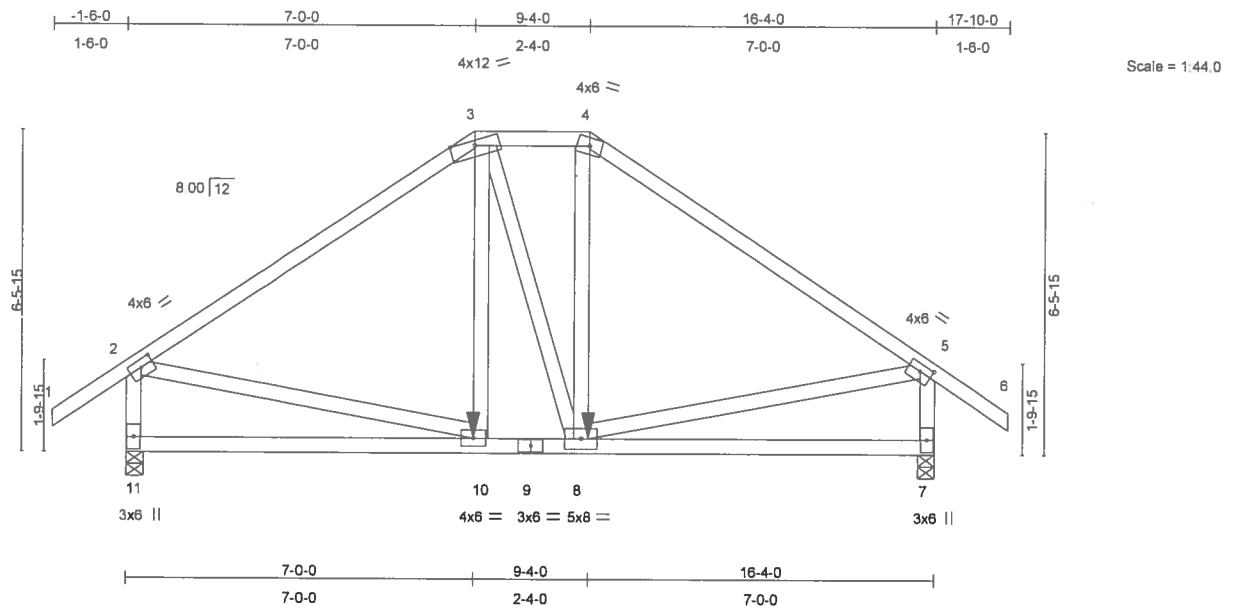


Plate Offsets (X,Y): [2:0-3-0,0-1-12], [5:0-3-0,0-1-12]

| LOADING (psf)  | SPACING              |       | CSI      | DEFL     | in (loc)    | l/defl | L/d | PLATES | GRIP    |
|----------------|----------------------|-------|----------|----------|-------------|--------|-----|--------|---------|
| TCLL 20.0      | Plates Increase 1.25 | 2-0-0 | TC 0.58  | Vert(LL) | -0.05 10-11 | >999   | 360 | MT20   | 244/190 |
| TCDL 7.0       | Lumber Increase 1.25 |       | BC 0.27  | Vert(TL) | -0.09 10-11 | >999   | 240 |        |         |
| BCLL 10.0      | * Rep Stress Incr NO |       | WB 0.40  | Horz(TL) | 0.01 7      | n/a    | n/a |        |         |
| BCDL 5.0       | Code FBC2004/TPI2002 |       | (Matrix) |          |             |        |     |        |         |
| Weight: 110 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 5-5-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-4-4 oc bracing.

**REACTIONS** (lb/size) 11=1098/0-4-0, 7=1098/0-4-0  
Max Horz 11=190(load case 4)  
Max Uplift 11=-481(load case 5), 7=-481(load case 6)

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

TOP CHORD 1-2=0/49, 2-3=-1183/542, 3-4=-902/505, 4-5=-1185/543, 5-6=0/49, 2-11=-1055/499,  
5-7=-1056/500  
BOT CHORD 10-11=-214/220, 9-10=-451/900, 8-9=-451/900, 7-8=-26/132  
WEBS 3-10=-163/296, 3-8=-145/140, 4-8=-260/408, 2-10=-438/778, 5-8=-444/783

#### JOINT STRESS INDEX

2 = 0.74, 3 = 0.86, 4 = 0.56, 5 = 0.73, 7 = 0.36, 8 = 0.37, 9 = 0.29, 10 = 0.35 and 11 = 0.36

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
- \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Printed on: 12/13/07  
Truss Design Engineer  
Florida P.E. No. 34868  
1199 Coastal Bay Blvd  
Gulf Breeze, FL 32561

Continued on page 2

December 19, 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, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53711.



| Job:    | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917993 |
|---------|-------|------------|-----|-----|--------------------------|----------|
| L166201 | T04   | HIP        | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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#### 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 481 lb uplift at joint 11 and 481 lb uplift at joint 7.
- 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, 3-4=-117(F=-63), 4-5=-54, 5-6=-54, 10-11=-10, 8-10=-22(F=-12), 7-8=-10

Concentrated Loads (lb)

Vert: 10=-411(F) 8=-411(F)

Julius Lane  
Truss Design Engineer  
Florida P.E. No. 24888B  
1400 Essential Way Blvd  
Daytona Beach, FL 32117

December 19, 2007

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|                          |              |                      |          |          |                               |
|--------------------------|--------------|----------------------|----------|----------|-------------------------------|
| Job<br>L166201           | Truss<br>T05 | Truss Type<br>COMMON | Qty<br>1 | Ply<br>1 | METZGER RESIDENCE<br>J1917994 |
| Job Reference (optional) |              |                      |          |          |                               |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:48 2007 Page 1

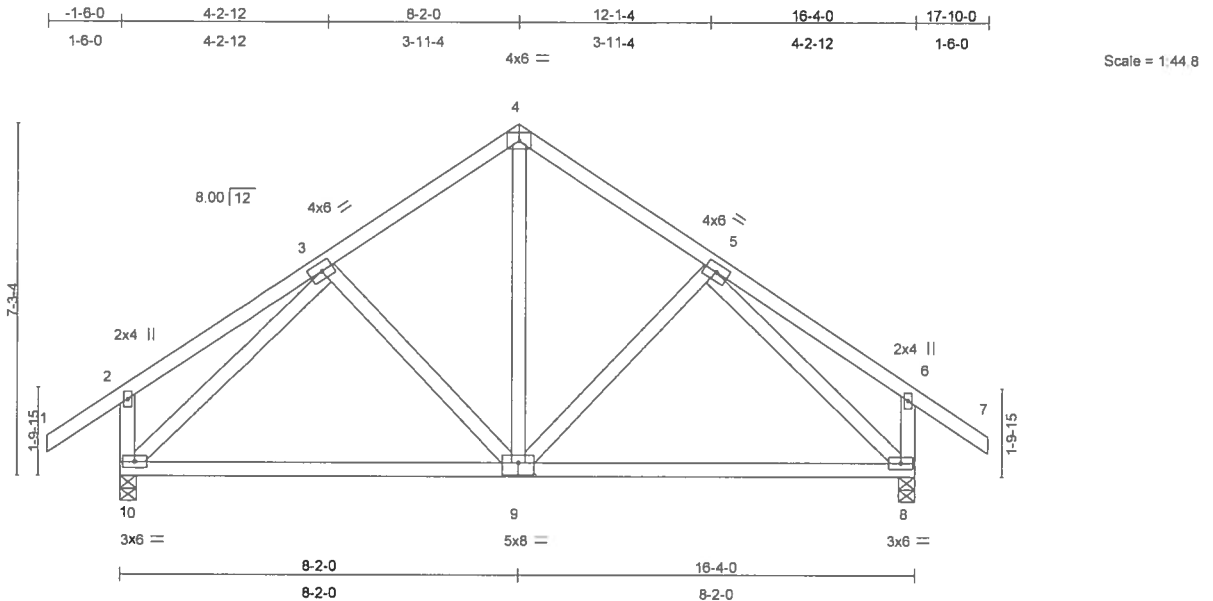


Plate Offsets (X,Y): [9:0-4-0,0-3-0]

| LOADING (psf) | SPACING               |       | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES | GRIP           |
|---------------|-----------------------|-------|----------|----------|-------|-------|--------|-----|--------|----------------|
| TCLL 20.0     | Plates Increase 1.25  | 2-0-0 | TC 0.43  | Vert(LL) | -0.06 | 9-10  | >999   | 360 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase 1.25  |       | BC 0.28  | Vert(TL) | -0.10 | 9-10  | >999   | 240 |        |                |
| BCLL 10.0     | * Rep Stress Incr YES |       | WB 0.27  | Horz(TL) | 0.01  | 8     | n/a    | n/a |        |                |
| BCDL 5.0      | Code FBC2004/TPI2002  |       | (Matrix) |          |       |       |        |     |        |                |
|               |                       |       |          |          |       |       |        |     |        | Weight: 106 lb |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 10=602/0-4-0, 8=602/0-4-0  
Max Horz 10=-211(load case 4)  
Max Uplift 10=-171(load case 6), 8=-171(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/49, 2-3=-133/162, 3-4=-424/291, 4-5=-424/291, 5-6=-133/162, 6-7=0/49,  
2-10=-231/255, 6-8=-231/255  
BOT CHORD 9-10=-131/351, 8-9=-22/351  
WEBS 3-9=-100/147, 4-9=-164/241, 5-9=-100/147, 3-10=-454/139, 5-8=-454/139

#### JOINT STRESS INDEX

2 = 0.40, 3 = 0.26, 4 = 0.29, 5 = 0.26, 6 = 0.40, 8 = 0.60, 9 = 0.44 and 10 = 0.60

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left and right exposed; 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 Designer  
18700 Enterprise Lane, Suite 100  
Madison, WI 53719  
608.781.1111

December 19, 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, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Oroffo Drive, Madison, WI 53719



| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917994 |
|---------|-------|------------|-----|-----|--------------------------|----------|
| L166201 | T05   | COMMON     | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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#### 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 171 lb uplift at joint 10 and 171 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Printed on: 12/13/07  
 Truss Design Engineer  
 Builders FirstSource  
 18000 Industrial Blvd. #100  
 Houston, Texas 77058

December 19, 2007

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

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|                |              |                       |          |          |   |
|----------------|--------------|-----------------------|----------|----------|---|
| Job<br>L166201 | Truss<br>T06 | Truss Type<br>SPECIAL | Qty<br>1 | Ply<br>1 | METZGER RESIDENCE<br>J1917995<br>Job Reference (optional) |
|----------------|--------------|-----------------------|----------|----------|---|

Builders FirstSource, Lake City, FL 32055

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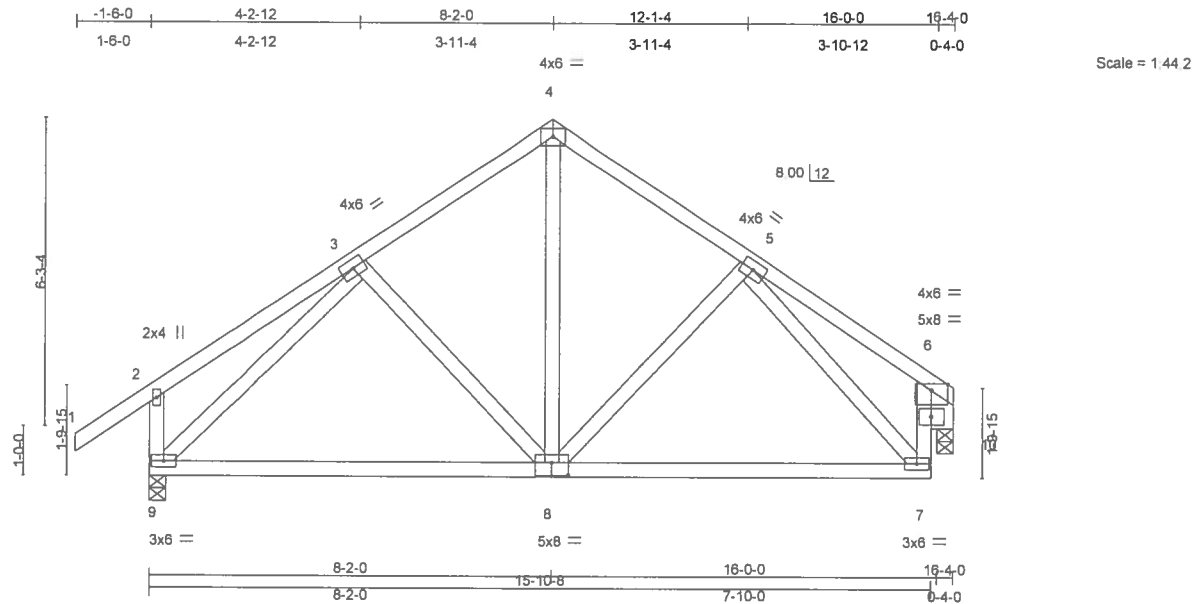


Plate Offsets (X,Y): [8:0-4:0,0-3:0]

| LOADING (psf) | SPACING               |       | CSI      | DEFL           | in (loc) | l/defl | L/d | PLATES         | GRIP    |
|---------------|-----------------------|-------|----------|----------------|----------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase 1.25  | 2-0-0 | TC 0.40  | Vert(LL) -0.08 | 7-8      | >999   | 360 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25  |       | BC 0.40  | Vert(TL) -0.15 | 7-8      | >999   | 240 |                |         |
| BCLL 10.0     | * Rep Stress Incr YES |       | WB 0.30  | Horz(TL) -0.01 | 9        | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002  |       | (Matrix) |                |          |        |     |                |         |
|               |                       |       |          |                |          |        |     | Weight: 105 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 6 SYP No.1D

#### 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) 9=592/0-4-0, 10=502/0-4-0  
Max Horz 10=207(load case 5)  
Max Uplift 9=-175(load case 6), 10=-103(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 4-5=-414/288, 5-6=-58/133, 1-2=0/49, 2-3=-125/163, 3-4=-412/286, 2-9=-228/255  
BOT CHORD 8-9=-19/342, 7-8=-102/323  
WEBS 5-8=-81/149, 4-8=-163/234, 3-8=-102/149, 3-9=-446/133, 7-10=-112/427, 6-10=-75/109, 5-7=-516/168

#### JOINT STRESS INDEX

2 = 0.40, 3 = 0.26, 4 = 0.27, 5 = 0.28, 6 = 0.16, 7 = 0.37, 8 = 0.48, 9 = 0.56, 10 = 0.00 and 10 = 0.20

#### NOTES

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

Truss Design Engineer  
10000 S. 10th Ave. #100  
Tampa, FL 33615

Continued on page 2

December 19,2007

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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



|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| JOL     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917995 |
| L166201 | T06   | SPECIAL    | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:49 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 9 and 103 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Truss Design Engineer  
 Provided per No. 247800  
 1 8000 Commercial Hwy. Bldg.  
 Lakeland, FL 33552

December 19, 2007

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

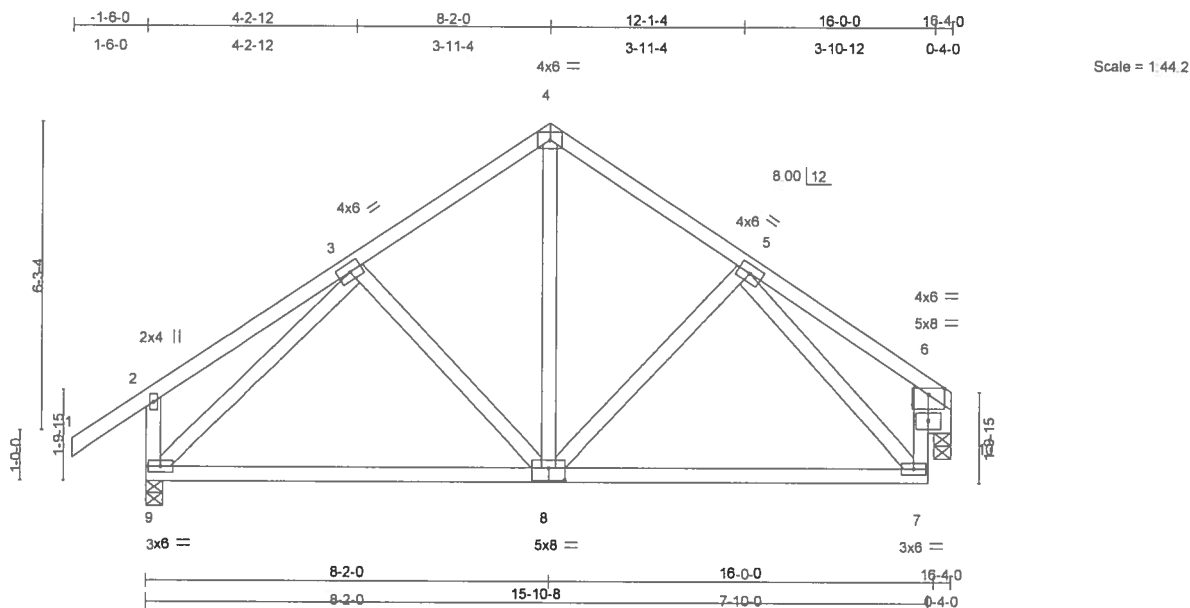
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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Joh     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917996 |
| L166201 | T07   | SPECIAL    | 4   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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|  |                      |       |            |             |           |        |     |                |             |
|--|----------------------|-------|------------|-------------|-----------|--------|-----|----------------|-------------|
| Plate Offsets (X,Y): [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [8:0-4-0,0-3-0] |                      |       |            |             |           |        |     |                |             |
| <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 0.40    | Vert(LL)    | -0.08 7-8 | >999   | 360 | MT20           | 244/190     |
| TCDL 7.0   | Lumber Increase      | 1.25  | BC 0.40    | Vert(TL)    | -0.15 7-8 | >999   | 240 |                |             |
| BCLL 10.0  | * Rep Stress Incr    | YES   | WB 0.30    | Horz(TL)    | -0.01 9   | n/a    | n/a |                |             |
| BCDL 5.0   | Code FBC2004/TPI2002 |       | (Matrix)   |             |           |        |     | Weight: 105 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 6 SYP No.1D

#### 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) 9=592/0-4-0, 10=502/0-4-0  
 Max Horz 10=207(load case 5)  
 Max Uplift 9=-175(load case 6), 10=-103(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 4-5=-414/288, 5-6=-58/133, 1-2=0/49, 2-3=-125/163, 3-4=-412/286, 2-9=-228/255  
 BOT CHORD 8-9=-19/342, 7-8=-102/323  
 WEBS 5-8=-81/149, 4-8=-163/234, 3-8=-102/149, 3-9=-446/133, 7-10=-112/427,  
 6-10=-75/109, 5-7=-516/168

#### JOINT STRESS INDEX

2 = 0.40, 3 = 0.27, 4 = 0.27, 5 = 0.28, 6 = 0.16, 7 = 0.37, 8 = 0.48, 9 = 0.56, 10 = 0.00 and 10 = 0.20

#### NOTES

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

Continued on page 2

December 19,2007

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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1917996 |
| L166201 | T07   | SPECIAL    | 4   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:50 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 9 and 103 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Truss Design Engineer  
 Truss Plate Institute, Inc.  
 11000 Industrial Way Blvd  
 Dayton, OH 45424

December 19, 2007

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

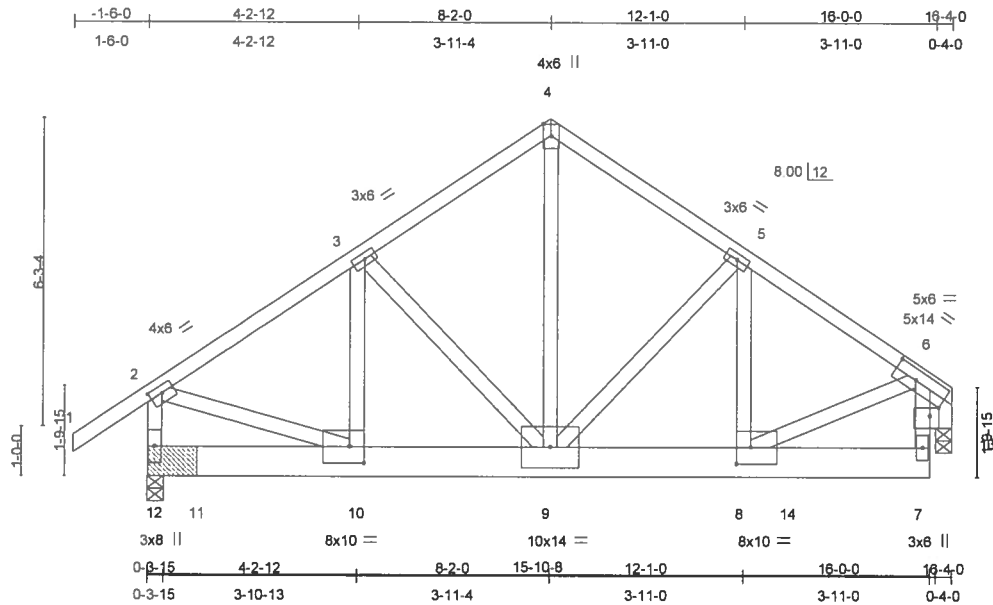
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|                          |              |                       |          |          |                               |
|--------------------------|--------------|-----------------------|----------|----------|-------------------------------|
| Jcb<br>L166201           | Truss<br>T08 | Truss Type<br>SPECIAL | Qty<br>1 | Ply<br>1 | METZGER RESIDENCE<br>J1917997 |
| Job Reference (optional) |              |                       |          |          |                               |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:51 2007 Page 1



Scale = 1/4" = 1'

Plate Offsets (X,Y): [2:0-3-0,0-1-12], [6:0-5-8,0-2-8], [8:0-3-8,0-4-0], [10:0-3-8,0-4-0], [13:0-2-2,0-2-0]

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES | GRIP           |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|--------|----------------|
| TCLL 20.0     | Plates Increase 1.25 | TC 0.71  | Vert(LL) | -0.06 | 9-10  | >999   | 360 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.25  | Vert(TL) | -0.12 | 9-10  | >999   | 240 |        |                |
| BCLL 10.0     | * Rep Stress Incr NO | WB 0.87  | Horz(TL) | 0.00  | 13    | n/a    | n/a |        |                |
| BCDL 5.0      | Code FBC2004/TPI2002 | (Matrix) |          |       |       |        |     |        |                |
|               |                      |          |          |       |       |        |     |        | Weight: 137 lb |

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 8 SYP 2400F 2.0E  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 2-12 2 X 4 SYP No.2  
 OTHERS 2 X 6 SYP No.1D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
 3-2-10 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
 bracing, Except:  
 6-0-0 oc bracing: 7-8.

**REACTIONS** (lb/size) 12=3774/0-4-7 (0-4-0 + bearing block), 13=2736/0-4-0  
 Max Horz 12=203(load case 4)  
 Max Uplift 12=-1106(load case 5), 13=-761(load case 6)

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

TOP CHORD 4-5=-2623/800, 5-6=-2757/784, 1-2=0/49, 2-3=-3309/947, 3-4=-2607/799,  
 2-12=-2883/865  
 BOT CHORD 11-12=-257/267, 10-11=-257/267, 9-10=-805/2686, 8-9=-621/2261, 8-14=-237/67,  
 7-14=-237/67  
 WEBS 7-13=-1/59, 6-13=-2695/762, 4-9=-792/2602, 3-9=-824/315, 5-9=-212/136,  
 3-10=-257/847, 5-8=-30/87, 2-10=-672/2567, 6-8=-750/2726

#### JOINT STRESS INDEX

2 = 0.95, 3 = 0.63, 4 = 0.60, 5 = 0.41, 6 = 0.96, 7 = 0.15, 8 = 0.42, 9 = 0.38, 10 = 0.41, 11 = 0.00, 11 = 0.00, 12 = 0.69, 12 = 0.00, 13 = 0.00 and 13 = 0.88

Continued on page 2

December 19, 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 | METZGER RESIDENCE        |
| L166201 | T08   | SPECIAL    | 1   | 1   | J1917997                 |
|         |       |            |     |     | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 1) 2 X 8 SYP 2400F 2.0E bearing block 12" long at jt. 12 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SYP.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; 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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1106 lb uplift at joint 12 and 761 lb uplift at joint 13.
- 8) Girder carries tie-in span(s): 28-8-0 from 0-0-0 to 13-0-0
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 4-6=-54, 1-2=-54, 2-4=-54, 12-14=-431(B=-421), 7-14=-10

Justin Lee  
Truss Design Engineer  
Florida P.E. No. 34886  
1400 Crescent Bay Blvd  
Orlando, FL 32809

December 19, 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 | METZGER RESIDENCE        | J1917998 |
| L166201 | T09   | SPECIAL    | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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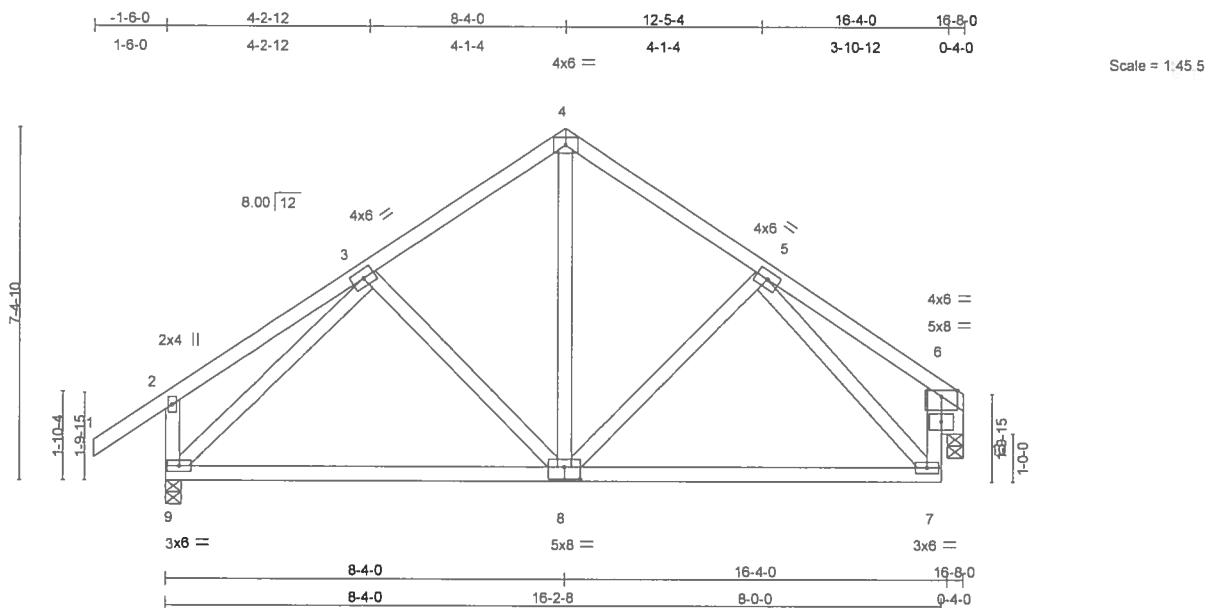


Plate Offsets (X,Y): [8:0-4-0,0-3-0]

| LOADING (psf) | SPACING               |       | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|-----------------------|-------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase 1.25  | 2-0-0 | TC 0.42  | Vert(LL) | -0.09 | 7-8   | >999   | 360 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25  |       | BC 0.42  | Vert(TL) | -0.16 | 7-8   | >999   | 240 |                |         |
| BCLL 10.0     | * Rep Stress Incr YES |       | WB 0.28  | Horz(TL) | 0.01  | 10    | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002  |       | (Matrix) |          |       |       |        |     |                |         |
|               |                       |       |          |          |       |       |        |     | Weight: 106 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 6 SYP No.1D

#### 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) 9=603/0-4-0, 10=513/0-4-0  
 Max Horz 9=210(load case 5)  
 Max Uplift 9=-168(load case 6), 10=-105(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/49, 2-3=-129/160, 3-4=-424/279, 4-5=-426/280, 5-6=-25/75, 2-9=-228/253  
 BOT CHORD 8-9=-165/353, 7-8=-148/332  
 WEBS 3-8=-104/153, 4-8=-147/240, 5-8=-82/130, 3-9=-460/132, 7-10=-169/439,  
 6-10=-74/74, 5-7=-530/242

#### JOINT STRESS INDEX

2 = 0.41, 3 = 0.26, 4 = 0.30, 5 = 0.28, 6 = 0.16, 7 = 0.37, 8 = 0.50, 9 = 0.59, 10 = 0.00 and 10 = 0.21

#### NOTES

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

Truss Design Engineers  
 18000 Crescent Way Blvd  
 Houston, Texas, TX 77058

Continued on page 2

December 19,2007

**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 | METZGER RESIDENCE        | J1917998 |
|---------|-------|------------|-----|-----|--------------------------|----------|
| L166201 | T09   | SPECIAL    | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Bearing at joint(s) 10 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 168 lb uplift at joint 9 and 105 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Julian Lee  
Truss Design Engineer  
Florida PE No. 34886  
1470 Central Way NW  
Boynton Beach, FL 33415

December 19, 2007

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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | T09A  | SPECIAL    | 1   | 1   | J1917999          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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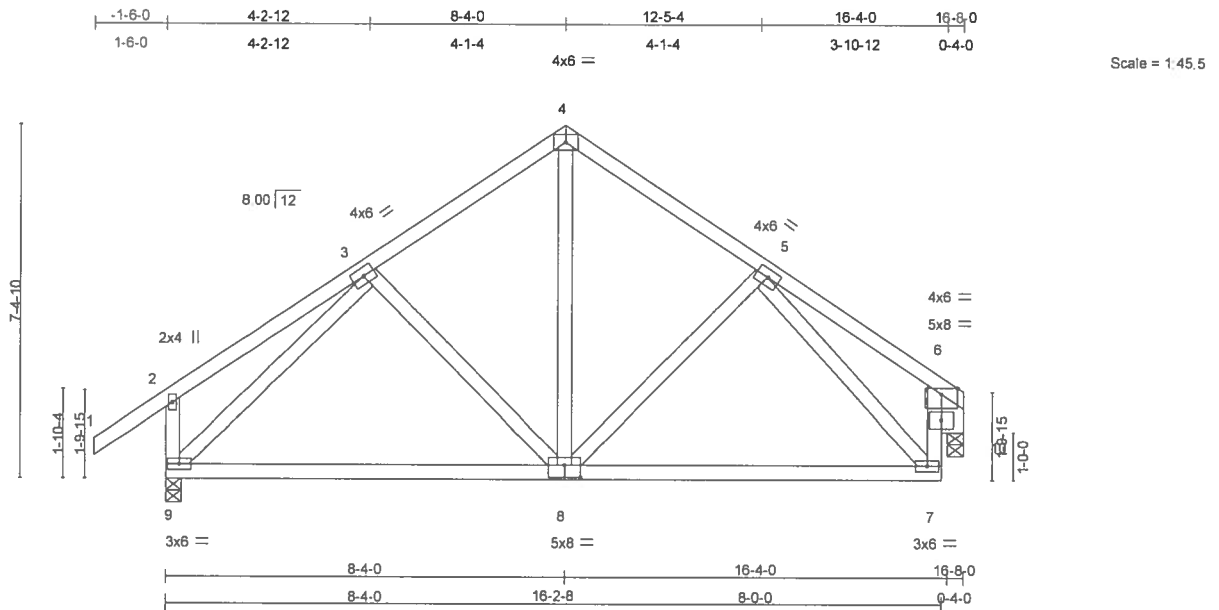


Plate Offsets (X,Y): [8:0-4-0,0-3-0]

| LOADING (psf) | SPACING               |  | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES | GRIP           |
|---------------|-----------------------|--|----------|----------|-------|-------|--------|-----|--------|----------------|
| TCLL 20.0     | Plates Increase 1.25  |  | TC 0.42  | Vert(LL) | -0.09 | 7-8   | >999   | 360 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase 1.25  |  | BC 0.42  | Vert(TL) | -0.16 | 7-8   | >999   | 240 |        |                |
| BCLL 10.0     | * Rep Stress Incr YES |  | WB 0.28  | Horz(TL) | 0.01  | 10    | n/a    | n/a |        |                |
| BCDL 5.0      | Code FBC2004/TPI2002  |  | (Matrix) |          |       |       |        |     |        |                |
|               |                       |  |          |          |       |       |        |     |        | Weight: 106 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 6 SYP No.1D

#### 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) 9=603/0-4-0, 10=513/0-4-0  
 Max Horz 9=210(load case 5)  
 Max Uplift 9=-168(load case 6), 10=-105(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/49, 2-3=-129/160, 3-4=-424/279, 4-5=-426/280, 5-6=-25/75, 2-9=-228/253  
 BOT CHORD 8-9=-165/353, 7-8=-148/332  
 WEBS 3-8=-104/153, 4-8=-147/240, 5-8=-82/130, 3-9=-460/132, 7-10=-169/439,  
 6-10=-74/74, 5-7=-530/242

#### JOINT STRESS INDEX

2 = 0.41, 3 = 0.26, 4 = 0.30, 5 = 0.28, 6 = 0.16, 7 = 0.37, 8 = 0.50, 9 = 0.59, 10 = 0.00 and 10 = 0.21

#### NOTES

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

THIS IS A  
 TRUSS DESIGN ENGINEER  
 PRINTED FOR NO. 111111  
 11000 CENTRAL AVE. #1111  
 UOYUON UOYUON, FL 32055

Continued on page 2

December 19,2007

**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 | METZGER RESIDENCE |
|--------------------------|-------|------------|-----|-----|-------------------|
| L166201                  | T09A  | SPECIAL    | 1   | 1   | J1917999          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:52 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 9 and 105 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Julius L. Lee  
 Truss Design Engineer  
 Florida PE No. 2-18888  
 11000 Emerald Bay Blvd  
 Boynton Beach, FL 33435

December 19, 2007

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

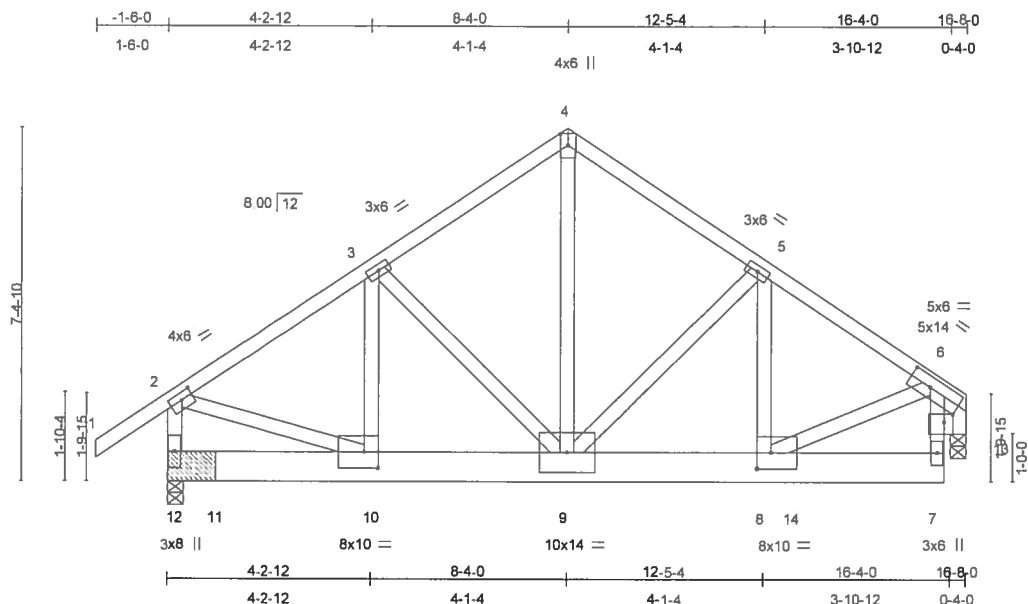
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|                |              |                       |          |          |   |
|----------------|--------------|-----------------------|----------|----------|---|
| Job<br>L166201 | Truss<br>T10 | Truss Type<br>SPECIAL | Qty<br>1 | Ply<br>1 | METZGER RESIDENCE<br>J1918000<br>Job Reference (optional) |
|----------------|--------------|-----------------------|----------|----------|---|

Builders FirstSource, Lake City, FL 32055

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Scale = 1:45.5

Plate Offsets (X,Y): [2:0-3-0,0-1-12], [6:0-5-8,0-2-8], [8:0-3-8,0-4-0], [10:0-3-8,0-4-0], [13:0-2-2,0-2-0]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.72  | Vert(LL) | -0.06 | 9-10  | >999   | 360 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.27  | Vert(TL) | -0.12 | 9-10  | >999   | 240 |                |         |
| BCLL 10.0     | * Rep Stress Incr    | NO    | WB 0.87  | Horz(TL) | 0.00  | 13    | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     | Weight: 140 lb |         |

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 8 SYP 2400F 2.0E  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 2-12 2 X 4 SYP No.2  
 OTHERS 2 X 6 SYP No.1D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
 3-2-3 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
 bracing, Except:  
 6-0-0 oc bracing: 7-8.

**REACTIONS** (lb/size) 12=3832/0-4-8 (0-4-0 + bearing block), 13=2700/0-4-0  
 Max Horz 12=206(load case 4)  
 Max Uplift 12=-1122(load case 5), 13=-750(load case 6)

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

TOP CHORD 1-2=0/49, 2-3=-3382/967, 3-4=-2655/812, 4-5=-2671/813, 5-6=-2748/779,  
 2-12=-2945/882  
 BOT CHORD 11-12=-260/267, 10-11=-260/267, 9-10=-823/2748, 8-9=-618/2255, 8-14=-237/67,  
 7-14=-237/67  
 WEBS 3-9=-842/322, 4-9=-802/2644, 5-9=-146/118, 2-10=-690/2632, 7-13=0/46,  
 6-13=-2692/760, 3-10=-261/860, 5-8=-81/37, 6-8=-747/2721

#### JOINT STRESS INDEX

2 = 0.97, 3 = 0.64, 4 = 0.61, 5 = 0.41, 6 = 0.96, 7 = 0.15, 8 = 0.42, 9 = 0.39, 10 = 0.42, 11 = 0.00, 11 = 0.00, 12 = 0.69, 12 = 0.00, 13 = 0.00 and 13 = 0.87

Continued on page 2

December 19,2007

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| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        |
|---------|-------|------------|-----|-----|--------------------------|
| L166201 | T10   | SPECIAL    | 1   | 1   | J1918000                 |
|         |       |            |     |     | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:53 2007 Page 2

#### NOTES

- 1) 2 X 8 SYP 2400F 2.0E bearing block 12" long at jt. 12 attached to front face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners. Bearing is assumed to be SYP.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; end vertical left exposed; 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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1122 lb uplift at joint 12 and 750 lb uplift at joint 13.
- 8) Girder carries tie-in span(s): 28-8-0 from 0-0-0 to 13-0-0
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-54, 2-4=-54, 4-6=-54, 12-14=-431(B=-421), 7-14=-10

Truss Design Engineer  
Trusses Plus, Inc. 2-18-07  
1800 Commercial Hwy. #100  
Uniontown, OH 44687

December 19, 2007

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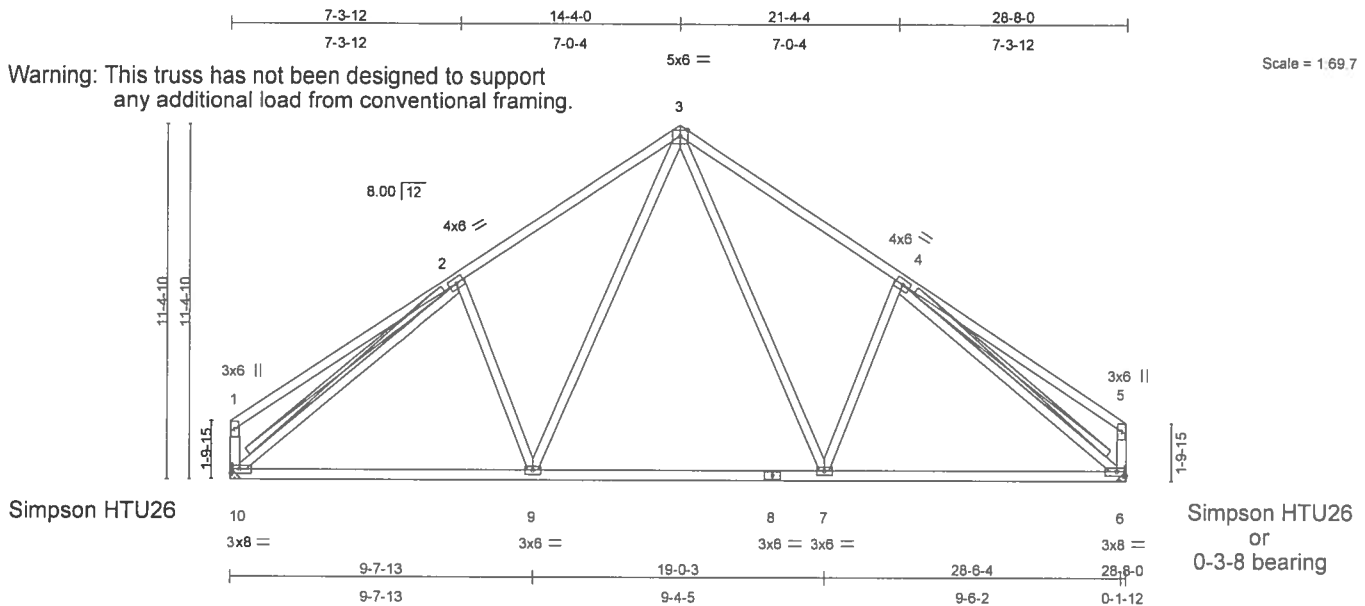
|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | T11   | COMMON     | 12  | 1   | J1918001          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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Warning: This truss has not been designed to support any additional load from conventional framing.

Scale = 1/69.7



Simpson HTU26

Simpson HTU26  
or  
0-3-8 bearing

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

| LOADING (psf) | SPACING               | CSI      | DEFL     | in (loc)   | I/defl | L/d | PLATES | GRIP           |
|---------------|-----------------------|----------|----------|------------|--------|-----|--------|----------------|
| TCLL 20.0     | Plates Increase 1.25  | TC 0.71  | Vert(LL) | -0.12 9-10 | >999   | 360 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase 1.25  | BC 0.39  | Vert(TL) | -0.21 9-10 | >999   | 240 |        |                |
| BCLL 10.0     | * Rep Stress Incr YES | WB 0.61  | Horz(TL) | 0.04 6     | n/a    | n/a |        |                |
| BCDL 5.0      | Code FBC2004/TPI2002  | (Matrix) |          |            |        |     |        |                |
|               |                       |          |          |            |        |     |        | Weight: 180 lb |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 10=908/Mechanical, 6=908/Mechanical  
Max Horz 10=-263(load case 4)  
Max Uplift 10=-184(load case 6), 6=-184(load case 7)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-331/261, 2-3=-973/633, 3-4=-973/633, 4-5=-331/261, 1-10=-315/255, 5-6=-315/255  
BOT CHORD 9-10=-308/796, 8-9=-111/599, 7-8=-111/599, 6-7=-308/796  
WEBS 2-9=-257/298, 3-9=-238/360, 3-7=-238/360, 4-7=-257/298, 2-10=-815/275, 4-6=-815/275

#### JOINT STRESS INDEX

1 = 0.61, 2 = 0.29, 3 = 0.60, 4 = 0.29, 5 = 0.61, 6 = 0.64, 7 = 0.47, 8 = 0.19, 9 = 0.47 and 10 = 0.64

Continued on page 2

December 19,2007

**Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE**  
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| Jcb     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        |
|---------|-------|------------|-----|-----|--------------------------|
| L166201 | T11   | COMMON     | 12  | 1   | J1918001                 |
|         |       |            |     |     | 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 10 and 184 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Julius Lutz  
Truss Design Engineer  
Florida PE No. 34888  
13000 Corporate Way, Suite 4  
Lakeland, FL 33805

December 19,2007

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

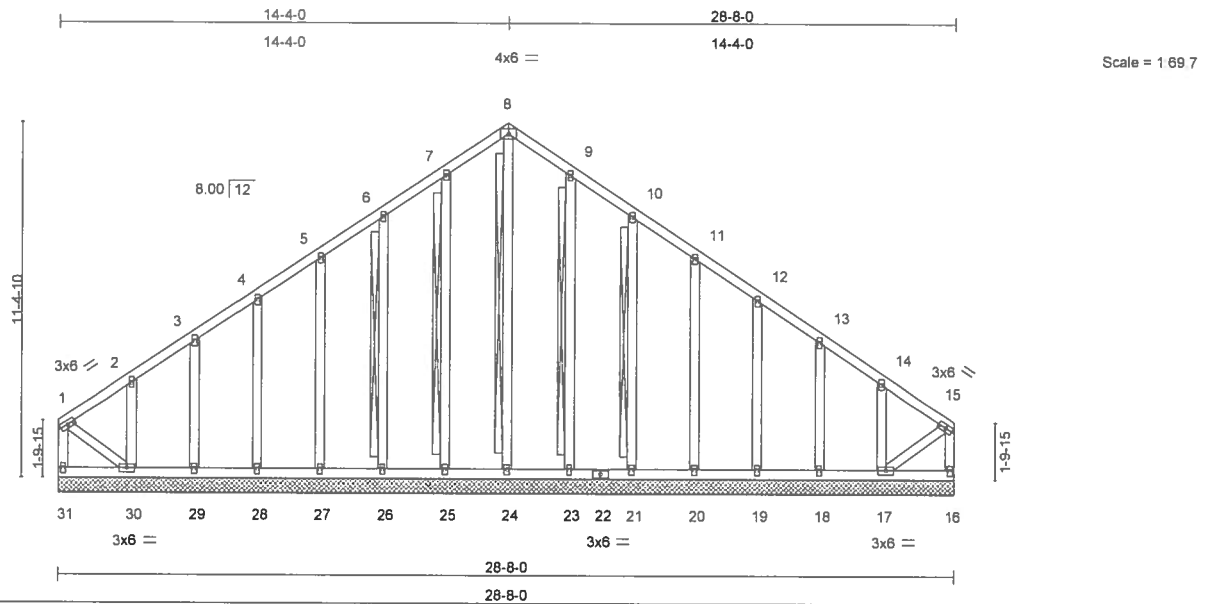
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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | T11G  | GABLE      | 2   | 1   | J1918002          |
| 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 | TC 0.09  | Vert(LL) | n/a  | -     | n/a    | 999 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.05  | Vert(TL) | n/a  | -     | n/a    | 999 |                |         |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.14  | Horz(TL) | 0.01 | 17    | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |      |       |        |     |                |         |
|               |                      |       |          |          |      |       |        |     | Weight: 232 lb |         |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 8-24, 7-25, 6-26, 9-23, 10-21  
 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)** 31=76/28-8-0, 24=110/28-8-0, 25=127/28-8-0, 26=129/28-8-0, 27=128/28-8-0, 28=129/28-8-0, 29=121/28-8-0, 30=143/28-8-0, 23=127/28-8-0, 21=129/28-8-0, 20=128/28-8-0, 19=129/28-8-0, 18=121/28-8-0, 17=143/28-8-0, 16=76/28-8-0

Max Horz 31=328(load case 5)

Max Uplift 31=-194(load case 4), 25=-84(load case 6), 26=-112(load case 6), 27=-103(load case 6), 28=-105(load case 6), 29=-100(load case 6), 30=-283(load case 6), 23=-81(load case 7), 21=-113(load case 7), 20=-103(load case 7), 19=-106(load case 7), 18=-100(load case 7), 17=-262(load case 7), 16=-94(load case 5)

Max Grav 31=321(load case 5), 24=210(load case 7), 25=131(load case 10), 26=129(load case 1), 27=128(load case 10), 28=129(load case 1), 29=121(load case 10), 30=158(load case 4), 23=131(load case 11), 21=129(load case 1), 20=128(load case 11), 19=129(load case 1), 18=121(load case 11), 17=146(load case 11), 16=221(load case 4)

Truss Design Engineer  
 Builders FirstSource  
 11000 Enterprise Lane, Madison, WI 53719

Continued on page 2

December 19, 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 | METZGER RESIDENCE |
| L166201                  | T11G  | GABLE      | 2   | 1   | J1918002          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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

TOP CHORD 1-2=-280/185, 2-3=-224/176, 3-4=-176/171, 4-5=-126/164, 5-6=-77/173, 6-7=-48/228, 7-8=-47/271, 8-9=-47/271, 9-10=-48/216, 10-11=-47/141, 11-12=-47/87, 12-13=-89/84, 13-14=-137/90, 14-15=-197/99  
BOT CHORD 30-31=-328/328, 29-30=-80/189, 28-29=-80/189, 27-28=-80/189, 26-27=-80/189, 25-26=-80/189, 24-25=-80/189, 23-24=-80/189, 22-23=-80/189, 21-22=-80/189, 20-21=-80/189, 19-20=-80/189, 18-19=-80/189, 17-18=-80/189, 16-17=0/0  
WEBS 8-24=-200/0, 7-25=-111/96, 6-26=-108/124, 5-27=-108/115, 4-28=-109/118, 3-29=-103/111, 2-30=-129/138, 9-23=-111/93, 10-21=-108/125, 11-20=-108/115, 12-19=-109/118, 13-18=-103/111, 14-17=-129/138, 1-31=-316/199, 1-30=-188/308, 15-16=-215/99, 15-17=-99/234

#### JOINT STRESS INDEX

1 = 0.41, 2 = 0.33, 3 = 0.33, 4 = 0.33, 5 = 0.33, 6 = 0.33, 7 = 0.33, 8 = 0.27, 9 = 0.33, 10 = 0.33, 11 = 0.33, 12 = 0.33, 13 = 0.33, 14 = 0.33, 15 = 0.41, 16 = 0.33, 17 = 0.34, 18 = 0.33, 19 = 0.33, 20 = 0.33, 21 = 0.33, 22 = 0.15, 23 = 0.33, 24 = 0.33, 25 = 0.33, 26 = 0.33, 27 = 0.33, 28 = 0.33, 29 = 0.33, 30 = 0.34 and 31 = 0.33

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical 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 requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 31, 84 lb uplift at joint 25, 112 lb uplift at joint 26, 103 lb uplift at joint 27, 105 lb uplift at joint 28, 100 lb uplift at joint 29, 283 lb uplift at joint 30, 81 lb uplift at joint 23, 113 lb uplift at joint 21, 103 lb uplift at joint 20, 106 lb uplift at joint 19, 100 lb uplift at joint 18, 262 lb uplift at joint 17 and 94 lb uplift at joint 16.

LOAD CASE(S) Standard

Truss Design Engineer  
Professional No. 00000  
1000 Central Expressway  
Lakeland, FL 33805

December 19, 2007

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

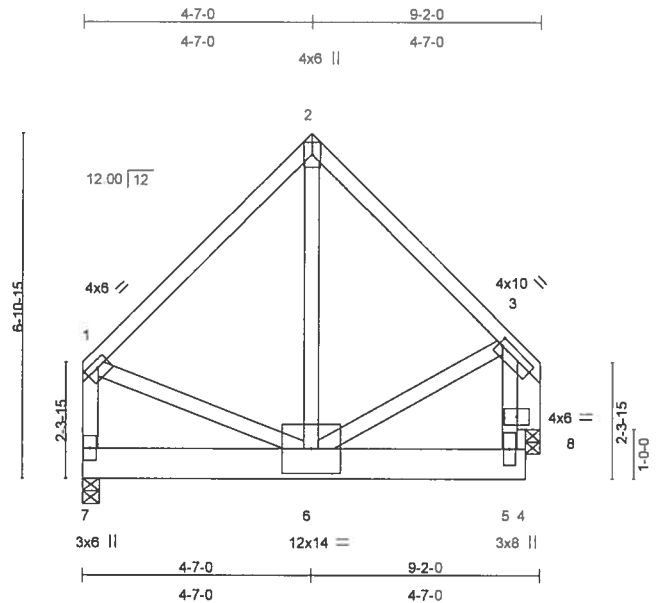
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|                |              |                       |          |          |   |
|----------------|--------------|-----------------------|----------|----------|---|
| Job<br>L166201 | Truss<br>T12 | Truss Type<br>SPECIAL | Qty<br>2 | Ply<br>1 | METZGER RESIDENCE<br>J1918003<br>Job Reference (optional) |
|----------------|--------------|-----------------------|----------|----------|---|

Builders FirstSource, Lake City, FL 32055

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Scale = 1/4" = 1'-0"

Plate Offsets (X,Y): [1:0-3-0,0-1-8], [3:0-1-0,0-1-12]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.67  | Vert(LL) | -0.02 | 6-7   | >999   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.21  | Vert(TL) | -0.04 | 6-7   | >999   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr    | NO    | WB 0.49  | Horz(TL) | -0.00 | 8     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |               |         |
|               |                      |       |          |          |       |       |        |     | Weight: 78 lb |         |

#### LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 8 SYP 2400F 2.0E  
WEBS 2 X 4 SYP No.3  
OTHERS 2 X 6 SYP No.1D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (lb/size) 7=2043/0-4-0, 8=2191/0-3-8  
Max Horz 7=123(load case 4)  
Max Uplift 7=-582(load case 6), 8=-629(load case 5)

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

TOP CHORD 1-2=-1199/371, 2-3=-1163/367, 1-7=-1200/350  
BOT CHORD 6-7=-195/136, 5-6=-87/26, 4-5=0/0  
WEBS 2-6=-403/1362, 1-6=-273/744, 3-6=-303/1003, 5-8=-229/829, 3-8=-1364/401

#### JOINT STRESS INDEX

1 = 0.77, 2 = 0.36, 3 = 0.82, 5 = 0.26, 6 = 0.22, 7 = 0.53, 8 = 0.00 and 8 = 0.88

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- \*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

Justin Lee  
Truss Design Engineer  
Florida PE No. 00000000  
18700 Central Expressway  
Orlando, FL 32817

December 19, 2007

Continued on page 2

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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1918003 |
| L166201 | T12   | SPECIAL    | 2   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 5) Bearing at joint(s) 8 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 582 lb uplift at joint 7 and 629 lb uplift at joint 8.
- 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, 4-7=-432(F=-422)

Julius L. Lee  
Truss Design Engineer  
Florida P.E. No. 34886  
1400 Central Way Blvd  
Lakeland, FL 33805

December 19, 2007

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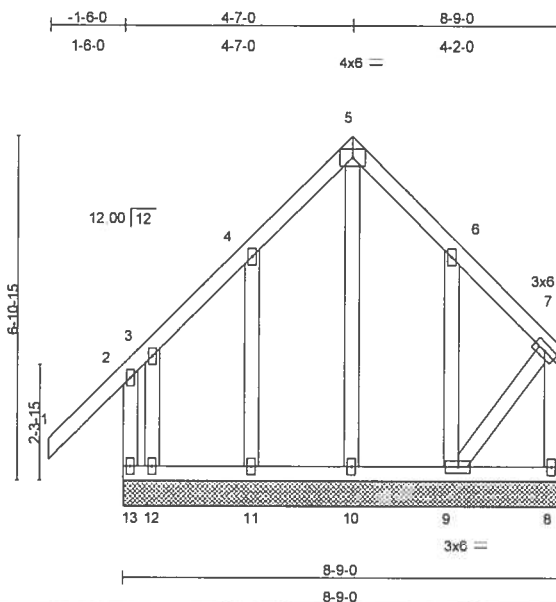
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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1918004 |
| L166201 | T13   | GABLE      | 2   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

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Scale = 1/4" = 1'

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.31  | Vert(LL) | 0.00     | 1      | n/r | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.02  | Vert(TL) | -0.01    | 1      | n/r |               |         |
| BCLL 10.0     | * Rep Stress Incr    | YES   | WB 0.33  | Horz(TL) | -0.00    | 8      | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |          |        |     |               |         |
|               |                      |       |          |          |          |        |     | Weight: 72 lb |         |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 13=215/8-9-0, 8=51/8-9-0, 10=124/8-9-0, 11=127/8-9-0, 12=-33/8-9-0, 9=146/8-9-0

Max Horz 13=190(load case 5)

Max Uplift 13=-493(load case 6), 8=-457(load case 6), 10=-2(load case 4), 11=-119(load case 6), 12=-34(load case 10), 9=-252(load case 4)

Max Grav 13=216(load case 10), 8=214(load case 4), 10=456(load case 6), 11=130(load case 10), 12=165(load case 6), 9=309(load case 5)

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

TOP CHORD 1-2=0/63, 2-3=-93/396, 3-4=-40/282, 4-5=-41/387, 5-6=-43/392, 6-7=-127/305

BOT CHORD 12-13=-190/112, 11-12=-190/112, 10-11=-190/112, 9-10=-190/112, 8-9=0/0

WEBS 5-10=-444/14, 4-11=-110/132, 3-12=-178/52, 6-9=-127/177, 2-13=-220/543, 7-8=-209/461, 7-9=-306/180

Truss Design Engineer  
 Builders FirstSource  
 1100 Central Expressway  
 Madison, WI 53719

#### JOINT STRESS INDEX

2 = 0.26, 3 = 0.10, 4 = 0.06, 5 = 0.15, 6 = 0.08, 7 = 0.28, 8 = 0.26, 9 = 0.10, 10 = 0.12, 11 = 0.07, 12 = 0.05 and 13 = 0.30

#### NOTES

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

Continued on page 2

December 19, 2007

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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1918004 |
| L166201 | T13   | GABLE      | 2   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc Thu Dec 13 14:44:57 2007 Page 2

#### NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left 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 requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 493 lb uplift at joint 13, 457 lb uplift at joint 8, 2 lb uplift at joint 10, 119 lb uplift at joint 11, 34 lb uplift at joint 12 and 252 lb uplift at joint 9.

**LOAD CASE(S)** Standard

Builders FirstSource  
Truss Division  
11000 Enterprise Lane, Madison, WI 53719  
608.271.1000  
www.buildersfirstsource.com

December 19, 2007

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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1918005 |
| L166201 | T14   | SPECIAL    | 1   | 1   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Dec 18 15:26:25 2007 Page 1

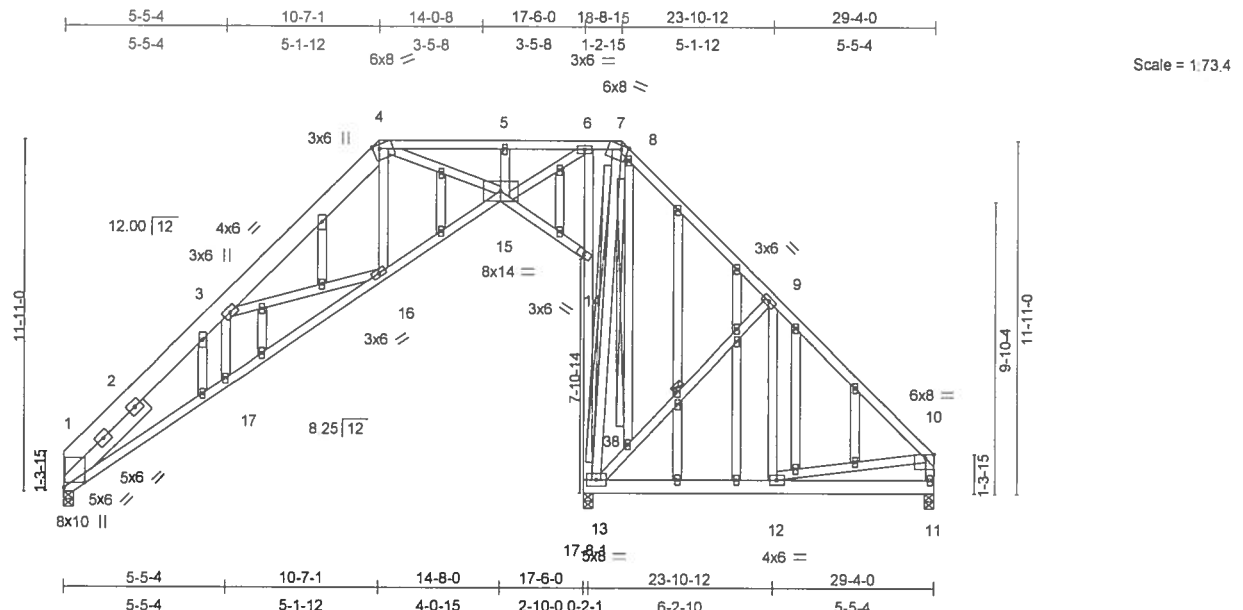


Plate Offsets (X,Y): [1:0-2-2,0-8-7], [4:0-2-11,Edge], [7:0-2-11,Edge], [10:0-3-8,Edge]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc)    | l/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.62  | Vert(LL) | 0.06 16-17  | >999   | 360 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.27  | Vert(TL) | -0.09 16-17 | >999   | 240 |                |         |
| BCLL 10.0     | Rep Stress Incr      | NO    | WB 0.32  | Horz(TL) | 0.06 11     | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |             |        |     |                |         |
|               |                      |       |          |          |             |        |     | Weight: 311 lb |         |

#### LUMBER

TOP CHORD 2 X 4 SYP No.2 \*Except\*  
1-4 2 X 8 SYP 2400F 2.0E  
BOT CHORD 2 X 4 SYP No.2 \*Except\*  
11-13 2 X 6 SYP No.1D  
WEBS 2 X 4 SYP No.3  
OTHERS 2 X 4 SYP No.3  
SLIDER Left 2 X 6 SYP No.1D 3-11-14

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 9-13  
T-Brace: 2 X 4 SYP No.3 - 7-13, 8-38  
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=635/0-4-0, 13=1128/0-4-0, 11=382/0-4-0  
Max Horz 1=426(load case 4)  
Max Uplift 1=-411(load case 6), 13=-566(load case 4), 11=-454(load case 6)  
Max Grav 1=635(load case 1), 13=1128(load case 1), 11=390(load case 10)

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

TOP CHORD 1-2=-1441/909, 2-3=-1318/921, 3-4=-956/584, 4-5=-830/583, 5-6=-839/598, 6-7=-91/514, 7-8=-110/558, 8-9=-115/551, 9-10=-385/493, 10-11=-359/455  
BOT CHORD 1-17=-933/1020, 16-17=-937/1031, 15-16=-649/766, 14-15=-59/49, 13-14=-692/577, 6-14=-636/549, 12-13=-202/190, 11-12=-195/163  
WEBS 3-17=0/150, 3-16=-215/455, 4-16=-194/220, 4-15=-154/230, 5-15=-192/195, 6-15=-798/1008, 9-12=0/188, 10-12=-8/51, 7-13=-239/55, 13-38=-303/316, 9-38=-284/302, 8-38=-26/20

Printed on: 12/18/2007  
File Name: L166201.dwg  
User: J1918005  
Printer: HP DesignJet 500  
Plotter: HP DesignJet 500  
Scale: 1.73.4

December 19, 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 | METZGER RESIDENCE |
| L166201                  | T14   | SPECIAL    | 1   | 1   | J1918005          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FI 32055

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#### JOINT STRESS INDEX

1 = 0.54, 1 = 0.26, 1 = 0.26, 2 = 0.00, 3 = 0.36, 4 = 0.25, 5 = 0.34, 6 = 0.59, 7 = 0.84, 8 = 0.34, 9 = 0.47, 10 = 0.53, 11 = 0.53, 12 = 0.27, 13 = 0.28, 14 = 0.16, 15 = 0.25, 16 = 0.43, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.16, 22 = 0.34, 23 = 0.34, 24 = 0.34, 25 = 0.16, 26 = 0.34, 27 = 0.34, 28 = 0.34, 29 = 0.34, 30 = 0.34, 30 = 0.34, 31 = 0.34, 32 = 0.34, 33 = 0.34, 33 = 0.34, 34 = 0.34, 35 = 0.34, 36 = 0.34, 37 = 0.34 and 38 = 0.34

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) Provide adequate drainage to prevent water ponding.
- 5) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 1, 566 lb uplift at joint 13 and 454 lb uplift at joint 11.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 12) Gable truss supports 1' 0" max. rake gable overhang.

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-64(F=-10), 4-7=-64(F=-10), 7-10=-64(F=-10), 1-15=-10, 14-15=-10, 11-13=-10

Builders FirstSource  
Truss Design Engineering  
1600 Enterprise Lane, Madison, WI 53719  
608.271.1111  
www.buildersfirstsource.com

December 19, 2007

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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | T15   | SPECIAL    | 5   | 1   | J1918006          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:59 2007 Page 1

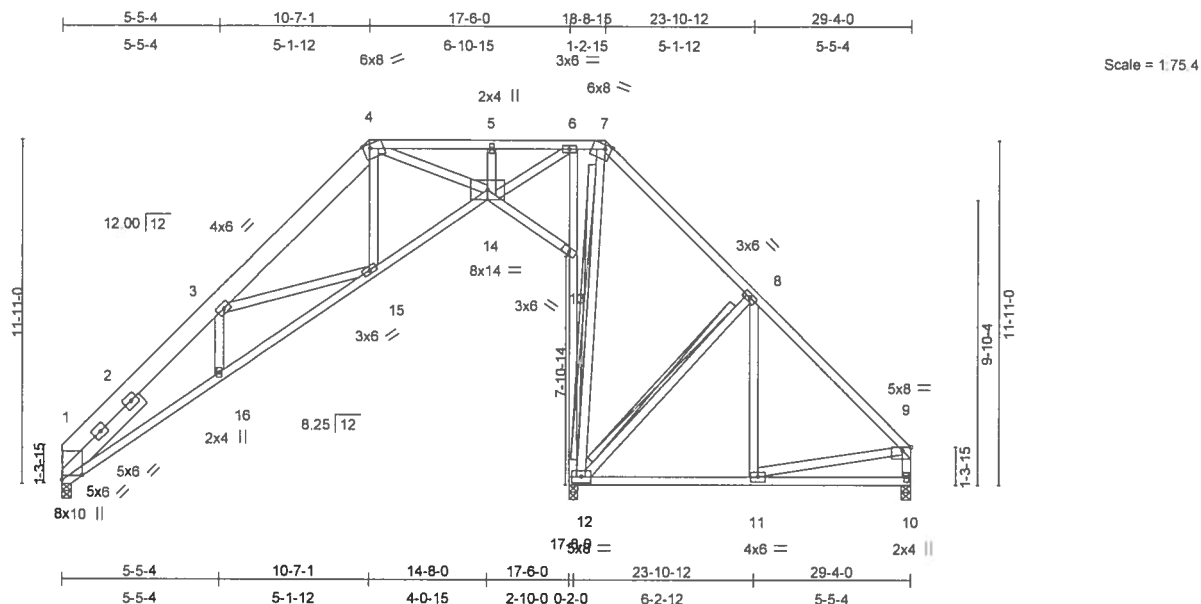


Plate Offsets (X,Y): [1:0-2-0,0-8-7], [4:0-2-11,Edge], [7:0-2-11,Edge], [9:0-3-8,Edge]

| LOADING (psf)  | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc)    | l/defl | L/d | PLATES | GRIP    |
|----------------|----------------------|-------|----------|----------|-------------|--------|-----|--------|---------|
| TCLL 20.0      | Plates Increase      | 1.25  | TC 0.48  | Vert(LL) | 0.05 15-16  | >999   | 360 | MT20   | 244/190 |
| TCDL 7.0       | Lumber Increase      | 1.25  | BC 0.20  | Vert(TL) | -0.08 15-16 | >999   | 240 |        |         |
| BCLL 10.0      | * Rep Stress Incr    | YES   | WB 0.28  | Horz(TL) | 0.05 10     | n/a    | n/a |        |         |
| BCDL 5.0       | Code FBC2004/TPI2002 |       | (Matrix) |          |             |        |     |        |         |
| Weight: 237 lb |                      |       |          |          |             |        |     |        |         |

#### LUMBER

TOP CHORD 2 X 4 SYP No.2 \*Except\*  
1-4 2 X 8 SYP 2400F 2.0E  
BOT CHORD 2 X 4 SYP No.2 \*Except\*  
6-12 2 X 4 SYP No.3  
WEBS 2 X 4 SYP No.3  
SLIDER Left 2 X 6 SYP No.1D 3-11-14

#### BRACING

TOP CHORD Structural wood sheathing directly applied or  
6-0-0 oc purlins, except end verticals, and  
2-0-0 oc purlins (6-0-0 max.): 4-7.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc  
bracing.  
WEBS T-Brace: 2 X 4 SYP No.3 -  
7-12, 8-12  
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) 1=551/0-4-0, 12=971/0-4-0, 10=333/0-4-0

Max Horz 1=324(load case 5)

Max Uplift 1=-198(load case 7), 12=-261(load case 5), 10=-260(load case 7)

Max Grav 1=551(load case 1), 12=971(load case 1), 10=340(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1248/820, 2-3=-1144/846, 3-4=-830/577, 4-5=-732/581, 5-6=-739/591,

6-7=-30/454, 7-8=-103/489, 8-9=-332/415, 9-10=-314/378

BOT CHORD 1-16=-630/890, 15-16=-632/897, 14-15=-394/669, 13-14=-44/31, 12-13=-595/331,

6-13=-550/317, 11-12=-171/166, 10-11=-141/117

WEBS 3-16=0/152, 3-15=-185/396, 4-15=-166/208, 4-14=-77/210, 8-11=0/181,

9-11=-30/50, 5-14=-164/117, 7-12=-228/0, 8-12=-244/270, 6-14=-462/881

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Truss Design Department  
1855 Enterprise Lane, Madison, WI 53719  
608.271.1111

Continued on page 2

December 19, 2007

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|                          |       |            |     |     |                   |
|--------------------------|-------|------------|-----|-----|-------------------|
| Job                      | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | T15   | SPECIAL    | 5   | 1   | J1918006          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Dec 13 14:44:59 2007 Page 2

#### JOINT STRESS INDEX

1 = 0.44, 1 = 0.22, 1 = 0.22, 2 = 0.00, 3 = 0.35, 4 = 0.22, 5 = 0.33, 6 = 0.50, 7 = 0.76, 8 = 0.46, 9 = 0.80, 10 = 0.48, 11 = 0.28, 12 = 0.28, 13 = 0.15, 14 = 0.16, 15 = 0.42 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 1, 261 lb uplift at joint 12 and 260 lb uplift at joint 10.

**LOAD CASE(S)** Standard

Design Date:  
Truss Design Engineer:  
Truss Plate No. 2-166201  
15000 Coastal Hwy Blvd  
Boynton Beach, FL 33435

December 19, 2007

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|         |       |            |     |     |                   |
|---------|-------|------------|-----|-----|-------------------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201 | T16   | SPECIAL    | 1   | 2   | J1918007          |

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Dec 18 15:08:54 2007 Page 2

#### NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2 X 8 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc, Except member 14-5 2 X 4 - 1 row at 0-4-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- 5) Provide adequate drainage to prevent water ponding.
- 6) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 445 lb uplift at joint 1, 898 lb uplift at joint 12 and 506 lb uplift at joint 10.

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

#### LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-108, 4-7=-108, 7-9=-108, 1-14=-20, 13-14=-20, 10-12=-20  
Concentrated Loads (lb)  
Vert: 5=-1200(F)

Truss Design Computer  
Program  
Truss Design Computer  
Program  
Truss Design Computer  
Program  
Truss Design Computer  
Program

December 19, 2007

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|         |       |            |     |     |                   |
|---------|-------|------------|-----|-----|-------------------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201 | T17   | ATTIC      | 1   | 2   | J1918008          |

Builders FirstSource, Lake City, FL 32055

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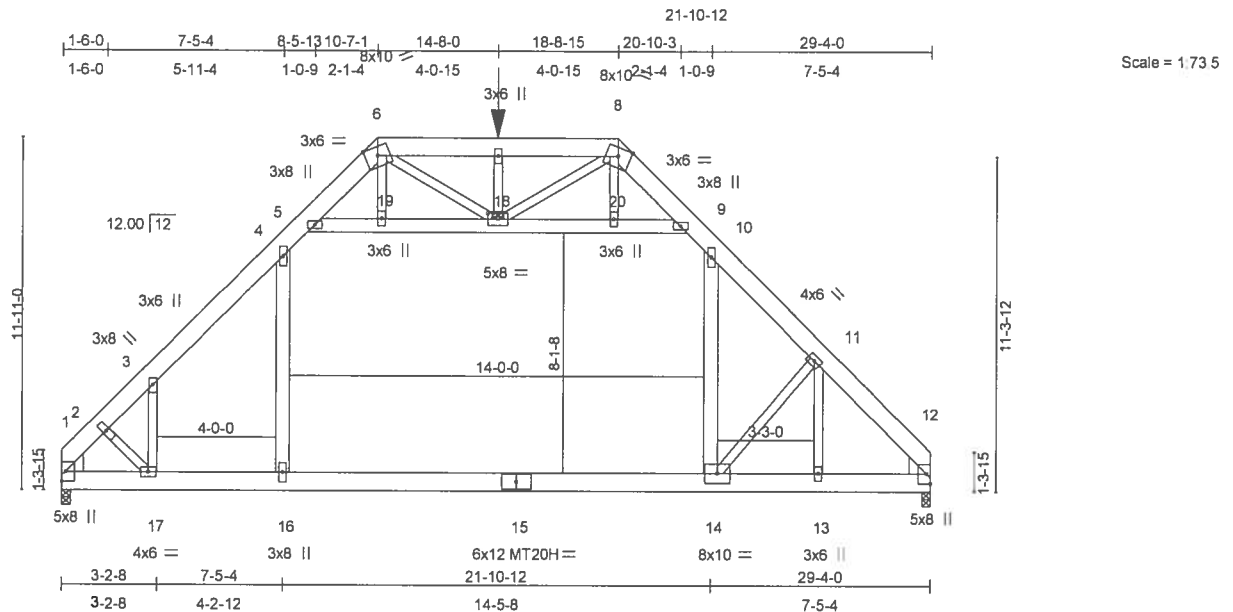


Plate Offsets (X,Y): [18:0-4.0,0-2-4]

| LOADING (psf) | SPACING              |                      | CSI     | DEFL     | in (loc)    | l/defl | L/d | PLATES | GRIP           |
|---------------|----------------------|----------------------|---------|----------|-------------|--------|-----|--------|----------------|
| TCLL 20.0     | 4-0-0                | Plates Increase 1.25 | TC 0.27 | Vert(LL) | -0.32 14-16 | >999   | 360 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.77              |         | Vert(TL) | -0.51 14-16 | >688   | 240 | MT20H  | 187/143        |
| BCLL 10.0     | Rep Stress Incr NO   | WB 0.28              |         | Horz(TL) | 0.03 12     | n/a    | n/a |        |                |
| BCDL 5.0      | Code FBC2004/TPI2002 | (Matrix)             |         |          |             |        |     |        | Weight: 646 lb |

#### LUMBER

TOP CHORD 2 X 8 SYP 2400F 2.0E  
 BOT CHORD 2 X 8 SYP 2400F 2.0E  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 5-9 2 X 6 SYP No.1D, 4-16 2 X 6 SYP No.1D  
 10-14 2 X 6 SYP No.1D

#### WEDGE

Left: 2 X 8 SYP No.1D, Right: 2 X 8 SYP No.1D

#### BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)  
 (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-9  
 JOINTS 1 Brace at Jt(s): 6, 8

#### REACTIONS (lb/size) 1=4931/0-3-8, 12=4364/0-3-8

Max Horz 1=-625(load case 3)

Max Uplift 1=-67(load case 5), 12=-67(load case 6)

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

TOP CHORD 1-2=-5626/88, 2-3=-5336/82, 3-4=-6136/72, 4-5=-3833/383, 5-6=-1897/637, 6-7=-2185/938, 7-8=-2185/939

BOT CHORD 1-17=-548/2898, 16-17=-174/3970, 15-16=-174/3970, 14-15=-174/3970, 13-14=0/3230, 12-13=0/3253

WEBS 5-19=-2686/88, 18-19=-2676/90, 18-20=-2990/197, 9-20=-3001/196, 4-16=0/2672, 10-14=0/2128, 7-18=-1360/598, 6-19=0/189, 8-20=0/206, 6-18=-718/1192, 8-18=-776/1985, 3-17=-1341/0, 11-13=-1674/109, 11-14=-438/1580, 2-17=-179/1744

#### JOINT STRESS INDEX

1 = 0.78, 1 = 0.00, 2 = 0.28, 3 = 0.26, 4 = 0.46, 5 = 0.51, 6 = 0.26, 7 = 0.16, 8 = 0.34, 9 = 0.57, 10 = 0.37, 11 = 0.38, 12 = 0.72, 12 = 0.00, 13 = 0.16, 14 = 0.22, 15 = 0.87, 16 = 0.43, 17 = 0.38, 18 = 0.41, 19 = 0.16 and 20 = 0.16

December 19,2007

Continued on page 2

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|         |       |            |     |     |                          |          |
|---------|-------|------------|-----|-----|--------------------------|----------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        | J1918008 |
| L166201 | T17   | ATTIC      | 1   | 2   | Job Reference (optional) |          |

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Dec 19 10:01:47 2007 Page 2

#### NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2 X 8 - 2 rows 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 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS; Lumber DOL=1.60 plate grip DOL=1.60.
- 5) Provide adequate drainage to prevent water ponding.
- 6) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-19, 18-19, 18-20, 9-20; Wall dead load (5.0psf) on member(s).4-16, 10-14
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 10) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1 and 67 lb uplift at joint 12.

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

#### LOAD CASE(S) Standard Except:

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

##### Uniform Loads (plf)

Vert: 1-17=-20, 16-17=-220(F=-200), 14-16=-220, 12-14=-20, 1-4=-108, 4-5=-128, 5-6=-108, 8-9=-108, 9-10=-128, 10-12=-108, 5-9=-20, 6-8=-108

Drag: 4-16=-20, 10-14=-20

##### Concentrated Loads (lb)

Vert: 7=-1200(F)

- 2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-17=-60, 16-17=-100(F=-40), 12-16=-60, 1-4=-28, 4-5=-48, 5-6=-28, 8-9=-28, 9-10=-48, 10-12=-28, 5-9=-20, 6-8=-28

Drag: 4-16=-20, 10-14=-20

##### Concentrated Loads (lb)

Vert: 7=-450(F)

- 9) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

##### Uniform Loads (plf)

Vert: 1-17=-20, 16-17=-220(F=-200), 14-16=-220, 12-14=-20, 1-4=-28, 4-5=-48, 5-6=-28, 8-9=-28, 9-10=-48, 10-12=-28, 5-9=-20, 6-8=-28

Drag: 4-16=-20, 10-14=-20

##### Concentrated Loads (lb)

Vert: 7=-450(F)

- 10) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-17=-20, 16-17=-220(F=-200), 14-16=-220, 12-14=-20, 1-4=-108, 4-5=-128, 5-6=-108, 8-9=-28, 9-10=-48, 10-12=-28, 5-9=-20, 6-8=-108

Drag: 4-16=-20, 10-14=-20

##### Concentrated Loads (lb)

Vert: 7=-1200(F)

- 11) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-17=-20, 16-17=-220(F=-200), 14-16=-220, 12-14=-20, 1-4=-28, 4-5=-48, 5-6=-28, 8-9=-108, 9-10=-128, 10-12=-108, 5-9=-20, 6-8=-108

Drag: 4-16=-20, 10-14=-20

##### Concentrated Loads (lb)

Vert: 7=-1200(F)

Julius Lars  
Truss Design Engineer  
Florida P.E. No. 24888  
14000 Central Expressway  
Orlando, FL 32825

December 19, 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 | METZGER RESIDENCE |
| L166201                  | T18   | ATTIC      | 7   | 1   | J1918009          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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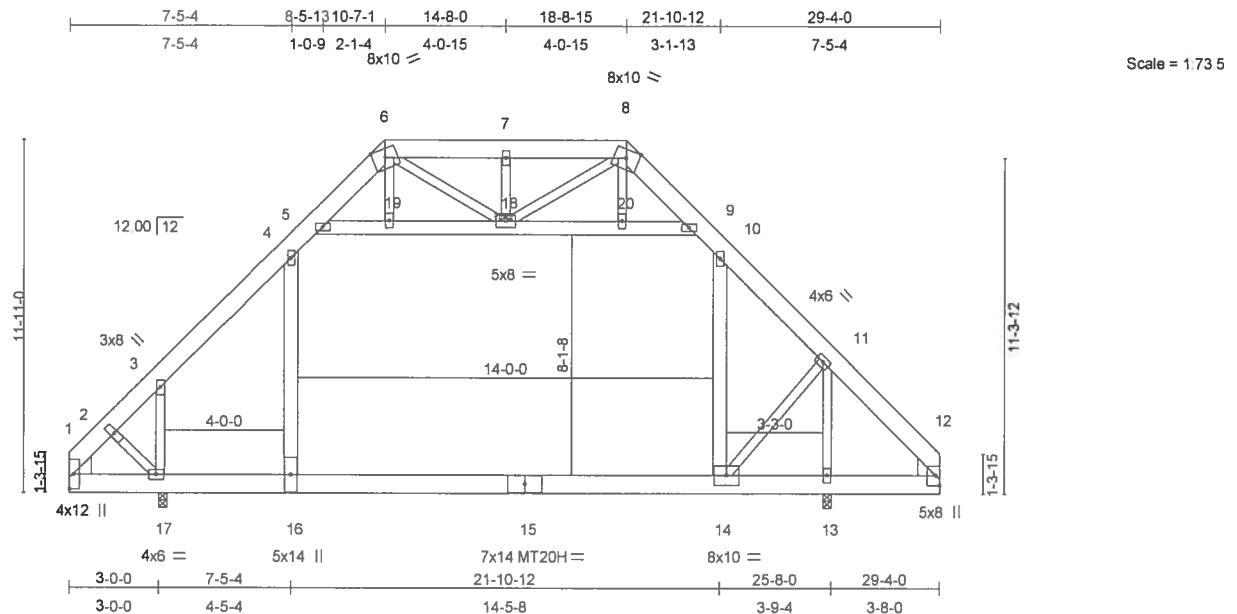


Plate Offsets (X,Y): [18:0-4-0,0-2-4]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc)    | l/defl | L/d | PLATES | GRIP           |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|--------|----------------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.53  | Vert(LL) | -0.40 14-16 | >678   | 360 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.67  | Vert(TL) | -0.64 14-16 | >419   | 240 | MT20H  | 187/143        |
| BCLL 10.0     | Rep Stress Incr      | NO    | WB 0.73  | Horz(TL) | 0.01 13     | n/a    | n/a |        |                |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |             |        |     |        | Weight: 323 lb |

#### LUMBER

TOP CHORD 2 X 8 SYP 2400F 2.0E  
 BOT CHORD 2 X 8 SYP 2400F 2.0E  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 5-9 2 X 6 SYP No.1D, 4-16 2 X 6 SYP No.1D  
 10-14 2 X 6 SYP No.1D

#### WEDGE

Left: 2 X 8 SYP No.1D, Right: 2 X 8 SYP No.1D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except  
 2-0-0 oc purlins (6-0-0 max.): 6-8.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-9

**REACTIONS** (lb/size) 17=2149/0-3-8, 13=1917/0-3-8  
 Max Horz 17=-312(load case 4)  
 Max Uplift 17=-41(load case 6), 13=-59(load case 7)

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

TOP CHORD 1-2=-633/3, 2-3=-482/10, 3-4=-1705/53, 4-5=-890/259, 5-6=-692/242, 8-9=-623/234,  
 9-10=-964/268, 10-11=-1333/78, 11-12=-131/226, 6-7=-625/289, 7-8=-625/289  
 BOT CHORD 1-17=0/95, 16-17=-33/849, 15-16=-33/849, 14-15=-33/849, 13-14=-120/173, 12-13=-83/169  
 WEBS 5-19=-377/82, 18-19=-375/83, 18-20=-546/122, 9-20=-549/121, 4-16=0/957, 10-14=0/468,  
 7-18=-119/134, 6-19=0/46, 8-20=0/55, 6-18=-214/66, 8-18=-235/299, 3-17=-1858/161,  
 11-13=-2403/215, 11-14=-128/1495, 2-17=-12/1148

#### JOINT STRESS INDEX

1 = 0.91, 1 = 0.00, 2 = 0.37, 3 = 0.72, 4 = 0.36, 5 = 0.15, 6 = 0.24, 7 = 0.16, 8 = 0.24, 9 = 0.21, 10 = 0.19, 11 = 0.75, 12 = 0.36, 12 = 0.00, 13 = 0.39, 14 = 0.28, 15 = 0.61, 16 = 0.19, 17 = 0.52, 18 = 0.31, 19 = 0.16 and 20 = 0.16

#### NOTES

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

December 19,2007

Continued on page 2

**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, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        |
| L166201 | T18   | ATTIC      | 7   | 1   | J1918009                 |
|         |       |            |     |     | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Dec 19 10:05:34 2007 Page 2

#### NOTES

- 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 3x6 MT20 unless otherwise indicated.
- 7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-19, 18-19, 18-20, 9-20; Wall dead load (5.0psf) on member(s).4-16, 10-14
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 17 and 59 lb uplift at joint 13.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

#### LOAD CASE(S) Standard Except:

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

##### Uniform Loads (plf)

Vert: 1-17=-10, 16-17=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-54, 4-5=-64, 5-6=-54, 8-9=-54, 9-10=-64, 10-12=-54, 5-9=-10, 6-8=-54

Drag: 4-16=-10, 10-14=-10

- 2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-17=-30, 16-17=-50(F=-20), 12-16=-30, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-14

Drag: 4-16=-10, 10-14=-10

- 10) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

##### Uniform Loads (plf)

Vert: 1-17=-10, 16-17=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-14

Drag: 4-16=-10, 10-14=-10

- 11) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-17=-10, 16-17=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-54, 4-5=-64, 5-6=-54, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-54

Drag: 4-16=-10, 10-14=-10

- 12) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-17=-10, 16-17=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-54, 9-10=-64, 10-12=-54, 5-9=-10, 6-8=-54

Drag: 4-16=-10, 10-14=-10

Julius J. Lee  
Truss Design Engineer  
Florida Professional Engineer  
1309 Coastal Pkwy Blvd  
Deerfield Beach, FL 33442

December 19,2007

#### 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 | METZGER RESIDENCE |
| L166201                  | T19   | ATTIC      | 3   | 1   | J1918010          |
| Job Reference (optional) |       |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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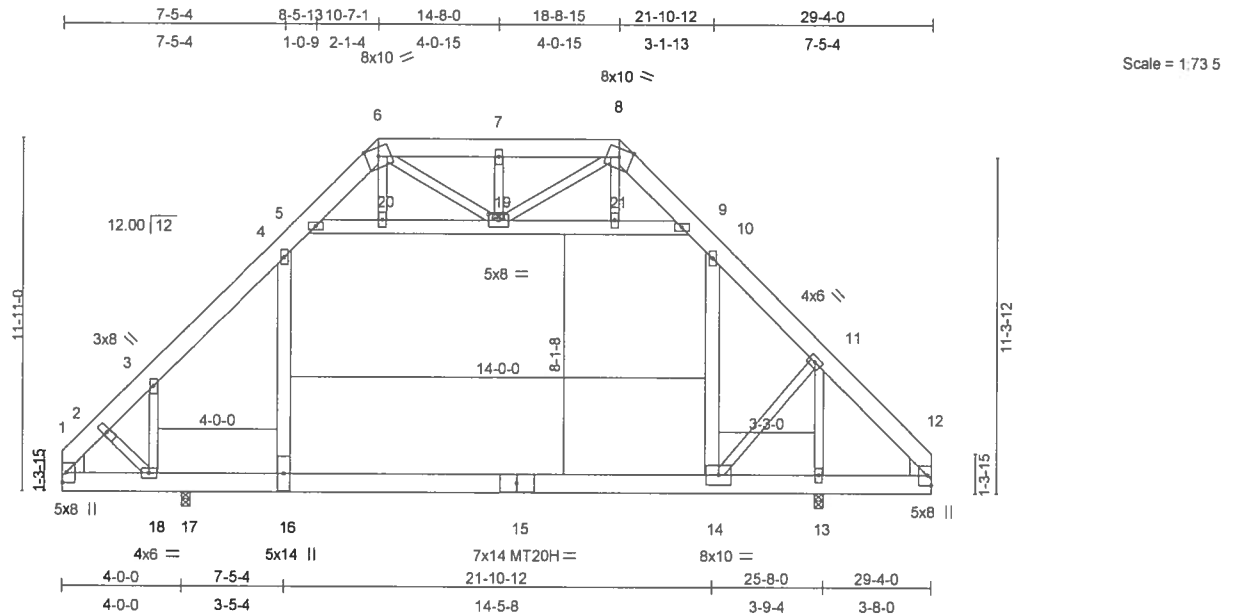


Plate Offsets (X,Y): [19:0-4-0,0-2-4]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc)    | l/defl | L/d | PLATES | GRIP           |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|--------|----------------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.57  | Vert(LL) | -0.44 14-16 | >581   | 360 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.85  | Vert(TL) | -0.72 14-16 | >356   | 240 | MT20H  | 187/143        |
| BCLL 10.0     | Rep Stress Incr      | NO    | WB 0.66  | Horz(TL) | 0.01 13     | n/a    | n/a |        |                |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |             |        |     |        |                |
|               |                      |       |          |          |             |        |     |        | Weight: 323 lb |

#### LUMBER

TOP CHORD 2 X 8 SYP 2400F 2.0E  
 BOT CHORD 2 X 8 SYP 2400F 2.0E  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 5-9 2 X 6 SYP No.1D, 4-16 2 X 6 SYP No.1D  
 10-14 2 X 6 SYP No.1D

#### WEDGE

Left: 2 X 8 SYP No.1D, Right: 2 X 8 SYP No.1D

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except  
 2-0-0 oc purlins (6-0-0 max.): 6-8.  
 BOT CHORD Rigid ceiling directly applied or 5-8-13 oc bracing.  
 WEBS 1 Row at midpt 5-9

**REACTIONS** (lb/size) 13=1809/0-3-8, 17=2257/0-3-8  
 Max Horz 17=-312(load case 4)  
 Max Uplift 13=-63(load case 7), 17=-71(load case 6)

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

TOP CHORD 1-2=-330/12, 2-3=-240/19, 3-4=-1427/3, 4-5=-821/247, 5-6=-690/241, 8-9=-706/248,  
 9-10=-804/239, 10-11=-1221/58, 11-12=-126/200, 6-7=-675/298, 7-8=-675/298  
 BOT CHORD 1-18=-15/94, 17-18=-7/686, 16-17=-40/686, 15-16=-40/686, 14-15=-40/686, 13-14=-80/166,  
 12-13=-46/163  
 WEBS 5-20=-309/85, 19-20=-307/86, 19-21=-286/113, 9-21=-289/112, 4-16=0/740, 10-14=0/516,  
 7-19=-103/131, 6-20=0/47, 8-21=0/45, 6-19=-210/182, 8-19=-242/135, 3-18=-1856/160,  
 11-13=-2166/172, 11-14=-142/1183, 2-18=-14/1043

#### JOINT STRESS INDEX

1 = 0.76, 1 = 0.00, 2 = 0.34, 3 = 0.72, 4 = 0.29, 5 = 0.15, 6 = 0.24, 7 = 0.16, 8 = 0.24, 9 = 0.15, 10 = 0.21, 11 = 0.67, 12 = 0.36, 12 = 0.00, 13 = 0.35, 14 = 0.22, 15 = 0.65, 16 = 0.14, 18 = 0.48, 19 = 0.31, 20 = 0.16 and 21 = 0.16

December 19,2007

Continued on page 2

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|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        |
| L166201 | T19   | ATTIC      | 3   | 1   | J1918010                 |
|         |       |            |     |     | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Dec 19 10:08:12 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 3x6 MT20 unless otherwise indicated.
- 7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-20, 19-20, 19-21, 9-21; Wall dead load (5.0psf) on member(s).4-16, 10-14
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- 9) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 13 and 71 lb uplift at joint 17.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

#### LOAD CASE(S) Standard Except:

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

##### Uniform Loads (plf)

Vert: 1-18=-10, 16-18=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-54, 4-5=-64, 5-6=-54, 8-9=-54, 9-10=-64, 10-12=-54, 5-9=-10, 6-8=-54

Drag: 4-16=-10, 10-14=-10

- 2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-18=-30, 16-18=-50(F=-20), 12-16=-30, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-14

Drag: 4-16=-10, 10-14=-10

- 10) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

##### Uniform Loads (plf)

Vert: 1-18=-10, 16-18=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-14

Drag: 4-16=-10, 10-14=-10

- 11) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-18=-10, 16-18=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-54, 4-5=-64, 5-6=-54, 8-9=-14, 9-10=-24, 10-12=-14, 5-9=-10, 6-8=-54

Drag: 4-16=-10, 10-14=-10

- 12) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25

##### Uniform Loads (plf)

Vert: 1-18=-10, 16-18=-110(F=-100), 14-16=-110, 12-14=-10, 1-4=-14, 4-5=-24, 5-6=-14, 8-9=-54, 9-10=-64, 10-12=-54, 5-9=-10, 6-8=-54

Drag: 4-16=-10, 10-14=-10

Builders FirstSource  
Truss Division  
1800 Enterprise Lane, Madison, WI 53719  
608.271.1000  
www.buildersfirstsource.com

December 19, 2007

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|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | METZGER RESIDENCE        |
| L166201 | T20   | ATTIC      | 1   | 1   | J1918011                 |
|         |       |            |     |     | 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=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) Provide adequate drainage to prevent water ponding.
- 5) \*This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 3x6 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-18, 17-18, 17-19, 8-19; Wall dead load (5.0psf) on member(s).3-15, 9-13
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 11) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 624 lb uplift at joint 16 and 615 lb uplift at joint 12.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

## LOAD CASE(S) Standard Except:

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

### Uniform Loads (plf)

Vert: 1-33=-10, 33-34=-60(F=-50), 15-34=-85(F=-75), 13-15=-135(F=-25), 13-35=-35(F=-25), 11-35=-10, 1-3=-64(F=-10), 3-4=-74(F=-10), 4-5=-64(F=-10), 7-8=-64(F=-10), 8-9=-74(F=-10), 9-11=-64(F=-10), 4-8=-10, 5-7=-64(F=-10)  
Drag: 3-15=-10, 9-13=-10

- 2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25

### Uniform Loads (plf)

Vert: 1-33=-30, 33-34=-40(F=-10), 15-34=-49(F=-19), 15-35=-39(F=-9), 11-35=-30, 1-3=-14, 3-4=-24, 4-5=-14, 7-8=-14, 8-9=-24, 9-11=-14, 4-8=-10, 5-7=-14  
Drag: 3-15=-10, 9-13=-10

- 9) Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

### Uniform Loads (plf)

Vert: 1-33=-10, 33-34=-60(F=-50), 15-34=-69(F=-59), 13-15=-119(F=-9), 13-35=-19(F=-9), 11-35=-10, 1-3=-18(F=-4), 3-4=-28(F=-4), 4-5=-18(F=-4), 7-8=-18(F=-4), 8-9=-28(F=-4), 9-11=-18(F=-4), 4-8=-10, 5-7=-18(F=-4)  
Drag: 3-15=-10, 9-13=-10

- 10) 1st unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25

### Uniform Loads (plf)

Vert: 1-33=-10, 33-34=-60(F=-50), 15-34=-85(F=-75), 13-15=-135(F=-25), 13-35=-35(F=-25), 11-35=-10, 1-3=-64(F=-10), 3-4=-74(F=-10), 4-5=-64(F=-10), 7-8=-24(F=-10), 8-9=-34(F=-10), 9-11=-24(F=-10), 4-8=-10, 5-7=-64(F=-10)  
Drag: 3-15=-10, 9-13=-10

- 11) 2nd unbalanced Regular: Lumber Increase=1.25, Plate Increase=1.25

### Uniform Loads (plf)

Vert: 1-33=-10, 33-34=-60(F=-50), 15-34=-85(F=-75), 13-15=-135(F=-25), 13-35=-35(F=-25), 11-35=-10, 1-3=-24(F=-10), 3-4=-34(F=-10), 4-5=-24(F=-10), 7-8=-64(F=-10), 8-9=-74(F=-10), 9-11=-64(F=-10), 4-8=-10, 5-7=-64(F=-10)  
Drag: 3-15=-10, 9-13=-10

Builders FirstSource  
Truss Design Engineer  
Florida P.E. No. 21883  
1100 Central Bay Blvd  
Davenport, FL 33837

December 19, 2007

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|                          |          |            |     |     |                   |
|--------------------------|----------|------------|-----|-----|-------------------|
| Job                      | Truss    | Truss Type | Qty | Ply | METZGER RESIDENCE |
| L166201                  | PB04_ALT | PIGGYBACK  | 19  | 1   | J1917987A         |
| Job Reference (optional) |          |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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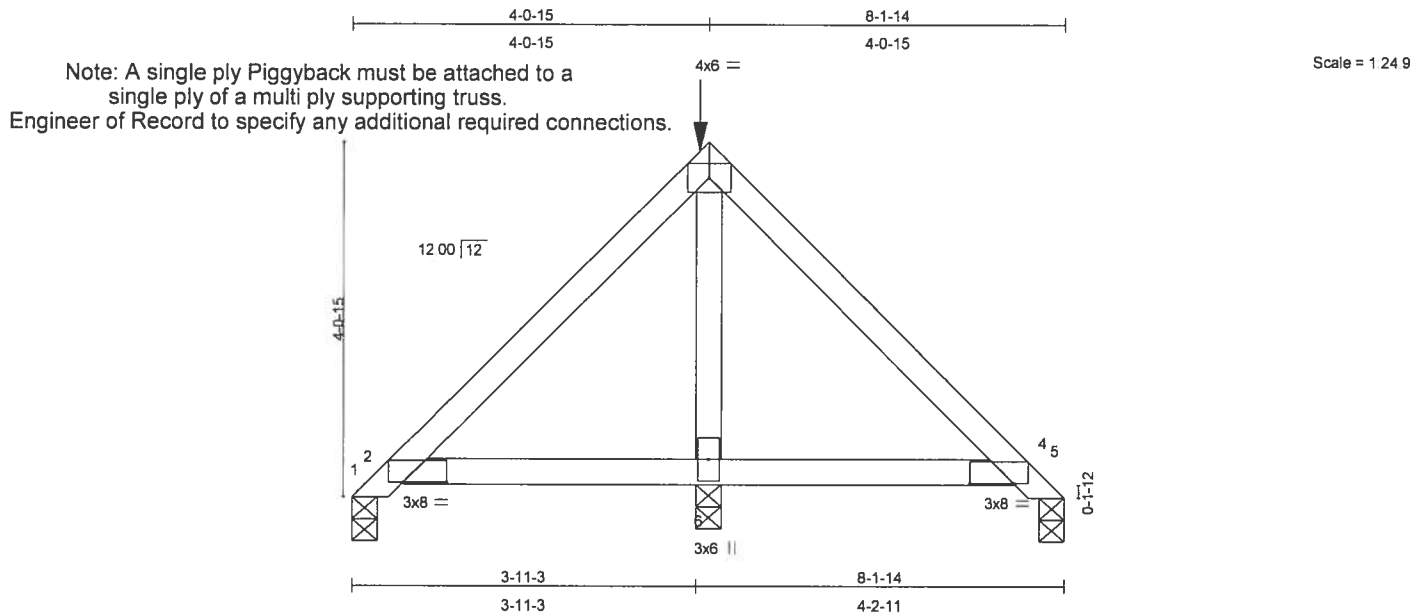


Plate Offsets (X,Y): [2:0-6-1,0-0-0], [4:0-6-1,0-0-0]

| LOADING (psf) | SPACING              |  | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|--|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase 1.25 |  | TC 0.26  | Vert(LL) | -0.02 | 4-6   | >999   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25 |  | BC 0.29  | Vert(TL) | -0.03 | 4-6   | >999   | 240 |               |         |
| BCLL 10.0     | Rep Stress Incr NO   |  | WB 0.41  | Horz(TL) | 0.02  | 5     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |  | (Matrix) |          |       |       |        |     |               |         |
|               |                      |  |          |          |       |       |        |     | Weight: 32 lb |         |

#### LUMBER

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

#### BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)  
(Switched from sheeted: Spacing > 2-0-0).  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 3

**REACTIONS** (lb/size) 1=201/0-3-8, 6=1809/0-3-8, 5=201/0-3-8  
Max Horz 1=-218(load case 4)  
Max Uplift 1=-57(load case 4), 6=-524(load case 6), 5=-57(load case 4)  
Max Grav 1=252(load case 10), 6=1809(load case 1), 5=252(load case 11)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-197/214, 2-3=-190/177, 3-4=-190/143, 4-5=-155/45  
BOT CHORD 2-6=-38/217, 4-6=-38/217  
WEBS 3-6=-1621/1015

#### JOINT STRESS INDEX

2 = 0.73, 3 = 0.56, 4 = 0.73 and 6 = 0.33

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- \*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
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Truss Design Engineer  
Truss Plate Institute  
10000 Enterprise Lane, Madison, WI 53719  
(608) 271-1000

December 19, 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 | METZGER RESIDENCE |
| L166201                  | PB04_ALT | PIGGYBACK  | 19  | 1   | J1917987A         |
| Job Reference (optional) |          |            |     |     |                   |

Builders FirstSource, Lake City, FL 32055

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#### NOTES

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 1, 524 lb uplift at joint 6 and 57 lb uplift at joint 5.

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

8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

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

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-134, 2-3=-108, 3-4=-108, 4-5=-134, 2-4=-20

Concentrated Loads (lb)

Vert: 3=-1200(F)

Justin L. Lee  
Truss Design Engineer  
FirstSource, Inc. 3150  
11000 Central Express Blvd  
Boynton Beach, FL 33435

December 19, 2007

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

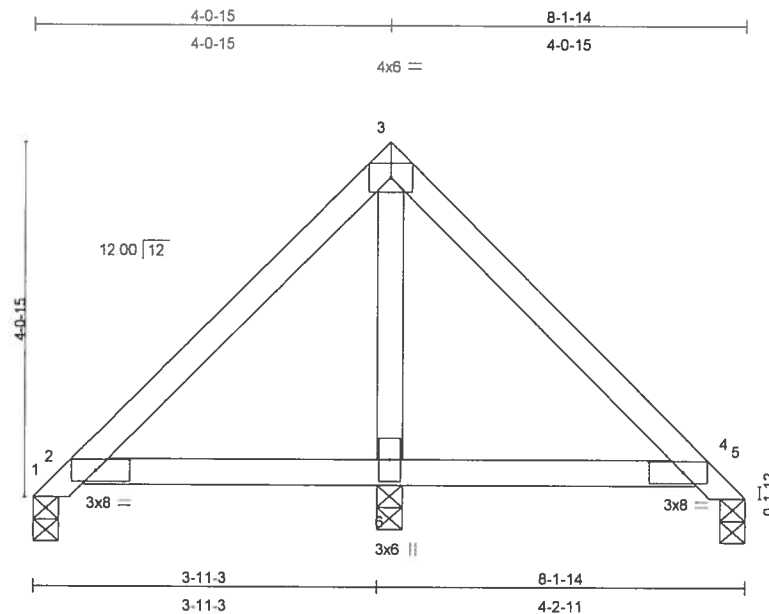
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary 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 | METZGER RESIDENCE        | J1917987B |
| L166201 | PB04_GBL | PIGGYBACK  | 19  | 1   | Job Reference (optional) |           |

Builders FirstSource, Lake City, FL 32055

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Scale = 1:24.9

Plate Offsets (X,Y): [2:0-4-11,0-1-8], [4:0-4-11,0-1-8]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.20  | Vert(LL) | -0.01 | 4-6   | >999   | 360 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.14  | Vert(TL) | -0.01 | 4-6   | >999   | 240 |               |         |
| BCLL 10.0     | * Rep Stress Incr    | NO    | WB 0.12  | Horz(TL) | 0.01  | 5     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |               |         |
|               |                      |       |          |          |       |       |        |     | Weight: 32 lb |         |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (lb/size) 1=60/0-3-8, 5=60/0-3-8, 6=582/0-3-8  
Max Horz 1=-109(load case 4)  
Max Uplift 1=-21(load case 4), 5=-21(load case 4), 6=-173(load case 6)  
Max Grav 1=85(load case 10), 5=85(load case 11), 6=582(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-104/101, 2-3=-101/234, 3-4=-101/234, 4-5=-51/16  
BOT CHORD 2-6=-85/164, 4-6=-85/164  
WEBS 3-6=-487/342

#### JOINT STRESS INDEX

2 = 0.39, 3 = 0.33, 4 = 0.39 and 6 = 0.11

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- \*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
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Builders FirstSource  
Truss Design Engineer  
Truss Design  
1300 Enterprise Lane, Madison, WI 53719  
608.271.1111

December 19, 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 | METZGER RESIDENCE        | J1917987B |
| L166201 | PB04_GBL | PIGGYBACK  | 19  | 1   | Job Reference (optional) |           |

Builders FirstSource, Lake City, FL 32055

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#### NOTES

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 21 lb uplift at joint 5 and 173 lb uplift at joint 6.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) Truss designed for wind loads in plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail".

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-92(F=-25), 2-3=-79(F=-25), 3-4=-79(F=-25), 4-5=-92(F=-25), 2-4=-10

Builders FirstSource  
Truss Design Engineer  
Truss Design No. 23-166201  
1.000 Standard Ply Ply  
Version 1.000, 1.000

December 19, 2007

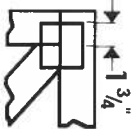
#### Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

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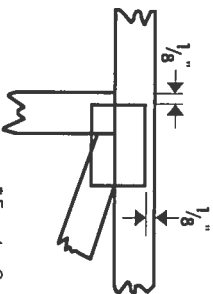


# Symbols

## 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

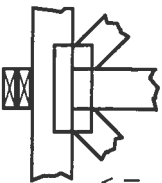
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



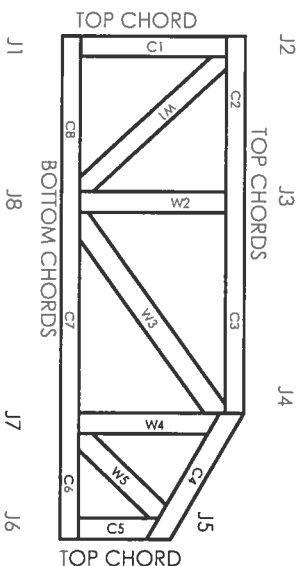
Indicates location of required continuous lateral bracing.

## BEARING



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

# Numbering System

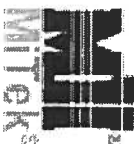


JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

## CONNECTOR PLATE CODE APPROVALS

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



MiTek Engineering Reference Sheet: MIT-7473



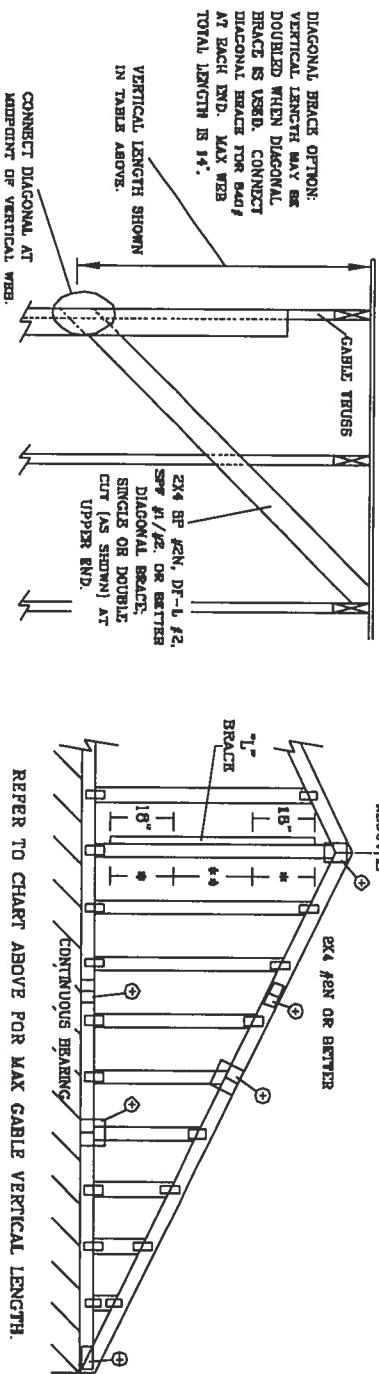
# General Safety Notes

## 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 at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

| BRACING GROUP SPECIES AND GRADES: |               |                   |               |
|-----------------------------------|---------------|-------------------|---------------|
| GROUP A:                          |               | GROUP B:          |               |
| SPRUCED-PINE-TYP                  | HEM-FIR       | SPRUCED-PINE-TYP  | HEM-FIR       |
| #1 / #2 STANDARD                  | #2 STUD       | #1 / #2 STANDARD  | #2 STUD       |
| #3 STUD                           |               | #3 STUD           |               |
| DOUGLAS FIR-LARCH                 | SOUTHERN PINE | DOUGLAS FIR-LARCH | SOUTHERN PINE |
| #3 STUD                           | #3 STUD       | #3 STUD           | #3 STUD       |
| STANDARD                          | STANDARD      | STANDARD          | STANDARD      |

#### CABLE TRUSS DETAIL NOTES:

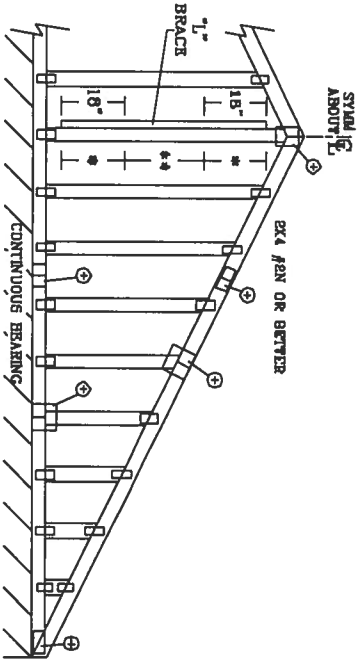
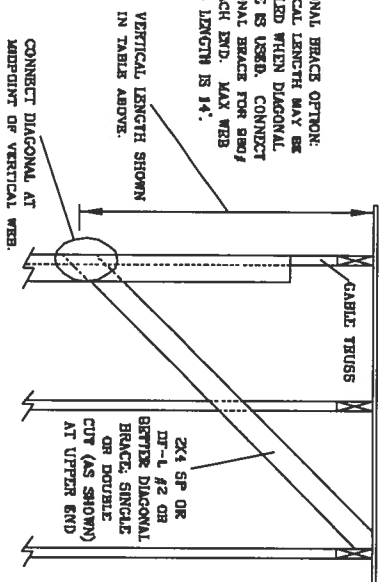
LIVE LOAD DEFLECTION CRITERIA IS L/240.  
 PROVIDE UPRAIT CONNECTIONS FOR 130 PSF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).  
 CABLE END SUPPORTS LOAD FROM 4' 0" OUTLINE WITH 2' 0" OVERHANG, OR 12' PLYWOOD OVERHANG.  
 ATTACH EACH T<sup>1</sup> BRACE WITH 10d NAILS.  
 \* FOR (1) T<sup>1</sup> BRACE: SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.  
 \*\* FOR (2) T<sup>1</sup> BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.  
 T<sup>1</sup> BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

| CABLE VERTICAL PLATE SIZES               |          |            |       |
|--|----------|------------|-------|
| VERTICAL LENGTH                          | NO SPICE | 1x4 OR 2x3 | 2x4   |
| LESS THAN 4' 0"                          |          |            |       |
| GREATER THAN 4' 0", BUT LESS THAN 11' 6" |          |            |       |
| GREATER THAN 11' 6"                      |          |            | 2.5x4 |

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPICE, AND HELL PLATES.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BISH-140 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSSES OF AMERICA) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 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| MAX GABLE VERTICAL LENGTH |             |             |           |                     |         |                     |         |                      |         |                     |         |                     |         |       |
|---------------------------|-------------|-------------|-----------|---------------------|---------|---------------------|---------|----------------------|---------|---------------------|---------|---------------------|---------|-------|
| CABLE VERTICAL SPACING    | 2x4 SPECIES | BRACE GRADE | NO BRACES | (1) 1x4 "L" BRACE * |         | (1) 2x4 "L" BRACE * |         | (2) 2x4 "L" BRACE ** |         | (1) 2x6 "L" BRACE * |         | (2) 2x8 "L" BRACE * |         |       |
|                           |             |             |           | GROUP A             | GROUP B | GROUP A             | GROUP B | GROUP A              | GROUP B | GROUP A             | GROUP B | GROUP A             | GROUP B |       |
| 24" O.C.                  | SPF         | #1 / #2     | 3 2"      | 5 6"                | 6 8"    | 6 6"                | 6 9"    | 7 10"                | 8 0"    | 10 3"               | 10 7"   | 12 3"               | 12 7"   |       |
|                           |             |             | #3        | 3 1"                | 4 5"    | 4 5"                | 5 10"   | 5 10"                | 7 10"   | 7 10"               | 9 1"    | 9 1"                | 12 3"   | 12 3" |
|                           |             |             | STUD      | 3 1"                | 4 6"    | 4 5"                | 5 10"   | 5 10"                | 7 10"   | 7 10"               | 9 1"    | 9 1"                | 12 3"   | 12 3" |
|                           |             | HF          | STANDARD  | 2 11"               | 3 9"    | 3 9"                | 6 0"    | 5 0"                 | 6 8"    | 6 9"                | 7 10"   | 7 10"               | 10 7"   | 10 7" |
|                           |             |             | #1        | 3 6"                | 5 6"    | 5 11"               | 6 8"    | 7 0"                 | 7 10"   | 8 5"                | 10 3"   | 11 1"               | 12 3"   | 13 2" |
|                           |             |             | #2        | 3 5"                | 5 6"    | 5 11"               | 6 6"    | 7 0"                 | 7 10"   | 8 5"                | 10 3"   | 11 1"               | 12 3"   | 13 2" |
|                           | SP          | #3          | 3 3"      | 4 6"                | 4 6"    | 6 0"                | 6 0"    | 7 10"                | 8 1"    | 9 4"                | 9 4"    | 12 3"               | 12 8"   |       |
|                           |             | STUD        | 3 3"      | 4 6"                | 4 6"    | 5 11"               | 5 11"   | 7 10"                | 8 0"    | 9 3"                | 9 3"    | 12 3"               | 12 8"   |       |
|                           |             | DFL         | 3 0"      | 3 10"               | 3 10"   | 5 1"                | 5 1"    | 6 11"                | 6 11"   | 8 0"                | 8 0"    | 10 10"              | 10 10"  |       |
|                           | SPF         | #1 / #2     | 3 8"      | 6 4"                | 6 5"    | 7 6"                | 7 6"    | 8 11"                | 9 2"    | 11 9"               | 12 1"   | 14 0"               | 14 0"   |       |
|                           |             |             | #3        | 3 7"                | 5 5"    | 5 5"                | 7 2"    | 7 2"                 | 8 11"   | 8 11"               | 11 2"   | 11 2"               | 14 0"   | 14 0" |
|                           |             |             | STUD      | 3 7"                | 5 6"    | 5 5"                | 7 2"    | 7 2"                 | 8 11"   | 8 11"               | 11 2"   | 11 2"               | 14 0"   | 14 0" |
| HF                        |             | STANDARD    | 3 7"      | 4 8"                | 4 8"    | 6 2"                | 6 2"    | 8 3"                 | 8 3"    | 9 7"                | 9 7"    | 12 11"              | 12 11"  |       |
|                           |             | #1          | 4 0"      | 6 4"                | 6 10"   | 7 6"                | 8 1"    | 8 11"                | 8 7"    | 11 9"               | 12 8"   | 14 0"               | 14 0"   |       |
|                           |             | #2          | 3 11"     | 8 4"                | 8 10"   | 7 8"                | 8 1"    | 8 11"                | 9 7"    | 11 9"               | 12 8"   | 14 0"               | 14 0"   |       |
| SP                        | #3          | 5 9"        | 5 7"      | 6 7"                | 7 4"    | 7 4"                | 8 11"   | 9 6"                 | 11 5"   | 11 5"               | 14 0"   | 14 0"               |         |       |
|                           |             | STUD        | 3 8"      | 5 8"                | 5 6"    | 7 3"                | 7 3"    | 8 11"                | 9 5"    | 11 4"               | 11 4"   | 14 0"               | 14 0"   |       |
|                           |             | DFL         | 3 6"      | 4 9"                | 4 9"    | 6 3"                | 6 3"    | 8 5"                 | 8 5"    | 9 9"                | 9 9"    | 13 3"               | 13 3"   |       |
|                           | SPF         | STANDARD    | 4 0"      | 6 11"               | 7 2"    | 8 3"                | 8 3"    | 9 10"                | 10 1"   | 12 11"              | 12 11"  | 14 0"               | 14 0"   |       |
|                           |             | #1 / #2     | 3 11"     | 6 3"                | 6 3"    | 8 3"                | 8 3"    | 9 10"                | 9 10"   | 12 11"              | 12 11"  | 14 0"               | 14 0"   |       |
|                           |             | #3          | 3 11"     | 6 3"                | 6 3"    | 8 3"                | 8 3"    | 9 10"                | 9 10"   | 12 11"              | 12 11"  | 14 0"               | 14 0"   |       |
| HF                        | STANDARD    | 3 11"       | 5 4"      | 5 4"                | 7 1"    | 7 1"                | 9 6"    | 9 6"                 | 11 1"   | 11 1"               | 14 0"   | 14 0"               |         |       |
|                           |             | #1          | 4 5"      | 6 11"               | 7 6"    | 8 11"               | 8 11"   | 10 7"                | 12 11"  | 13 11"              | 14 0"   | 14 0"               |         |       |
|                           |             | #2          | 4 4"      | 6 11"               | 7 6"    | 8 3"                | 8 11"   | 9 10"                | 10 7"   | 12 11"              | 13 11"  | 14 0"               | 14 0"   |       |
|                           | SP          | #3          | 4 2"      | 6 6"                | 6 5"    | 8 3"                | 8 6"    | 9 10"                | 10 4"   | 12 11"              | 13 3"   | 14 0"               | 14 0"   |       |
|                           |             | STUD        | 4 2"      | 6 4"                | 6 4"    | 8 3"                | 8 6"    | 9 10"                | 10 4"   | 12 11"              | 13 1"   | 14 0"               | 14 0"   |       |
|                           |             | DFL         | 4 0"      | 5 6"                | 5 6"    | 7 3"                | 7 3"    | 9 9"                 | 9 9"    | 11 4"               | 11 4"   | 14 0"               | 14 0"   |       |



REFER TO CHART ABOVE FOR MAX CABLE VERTICAL LENGTH

| BRACING GROUP SPECIES AND GRADES: |               |          |
|-----------------------------------|---------------|----------|
| GROUP A:                          |               |          |
| SPRUCE-PINE-FIR                   | MEM-PTR       |          |
| #1 / #2                           | #2            | STD      |
| #3                                | #3            | STANDARD |
|                                   |               |          |
| DOUGLAS FIR-LARCH                 | SOUTHERN PINE |          |
| #2                                | #3            | STD      |
| STD                               |               | STANDARD |
| STANDARD                          |               |          |
| GROUP B:                          |               |          |
| HEM-FTR                           |               |          |
| #1 & BTR                          |               |          |
| #1                                |               |          |
| SOUTHERN PINE                     |               |          |
| #1                                |               |          |
| #2                                |               |          |
|                                   |               |          |
| DOUGLAS FIR-LARCH                 |               |          |
| #1                                |               |          |
| #2                                |               |          |
|                                   |               |          |

**CABLE TRUSS DETAIL NOTES:**

LIVE LOAD DEPLETION CRITERIA IS L/240.

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

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

ATTACH EACH T<sup>1</sup> BRACE: SPACE NAILS AT 2" O.C.  
\* FOR (1) T<sup>1</sup> BRACE: SPACE NAILS AT 2" O.C.  
IN 18" END ZONES AND 4" O.C. BETWEEN ZONES  
\* FOR (2) T<sup>1</sup> BRACES: SPACE NAILS AT 3" O.C.  
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES  
T<sup>1</sup> BRACING MUST BE A MINIMUM OF 80% OF WEB  
MEMBER LENGTH.

| CABLE VERTICAL PLATE SIZES                  |            |
|---|------------|
| VERTICAL LENGTH                             | NO SPLICE  |
| LESS THAN 4' 0"                             | 1X4 OR 2X3 |
| GREATER THAN 4' 0", BUT<br>LESS THAN 11' 6" | 2X4        |
| GREATER THAN 11' 6"                         | 2-5X4      |

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

**+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPICE, AND HEBL PLATES.**

ANY/NO/YES: \*\* RISKS: RECURRING, EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, DESTROYING, AND REPAIRING. \*\* REFER TO RISKS 1-103 (BUILDING, COMPENSATE SAFETY INFORMATION), PUBLISHED BY THE STRASSL PLATE INSTITUTE, 3183 DUNDAS ST. S., SUITE 20, MISSISSAUGA, ON L4V 1V4 AND VICA (GOOD TRUSS CODES OF AMERICA, 6500 UNIVERSITY BL., MONROE, LA 70139) OR SPECIALTY PRACTICES PRIOR TO PAPERWORK. \*\* THEIR FUNCTIONS, UNLESS OTHERWISE NOTICED, TOP CHORD SHALL HAVE PROPERLY ATTACHED TRUSS BRUTAL TRUSS PANELS, AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

1456 SW 4th AVENUE  
DELRAY BEACH FL 33444-2161

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

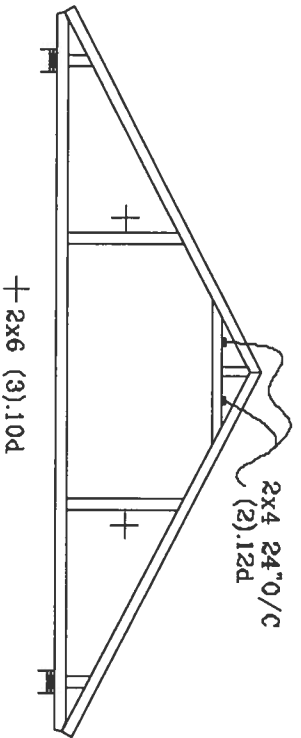
REF ASCB7-02-GAB13030

DATE 11/26/03

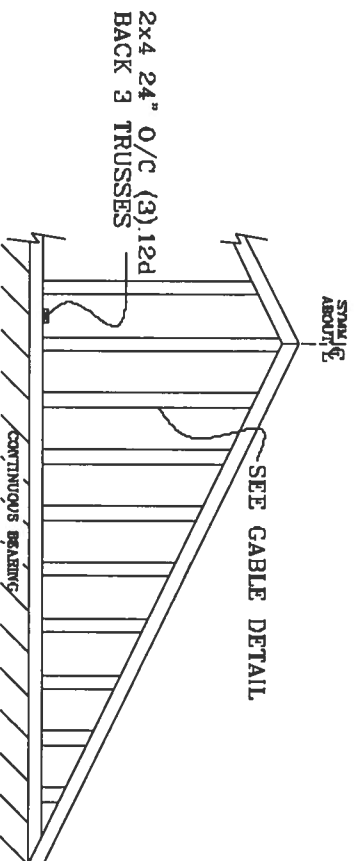
DWG

-ENG

# TYPICAL ATTIC TRUSS BRACING

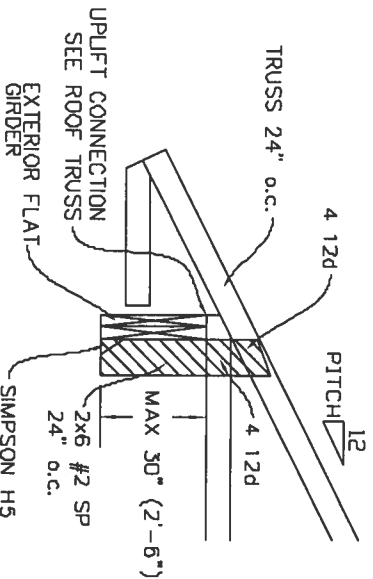


# GABLE END TRUSS DETAIL

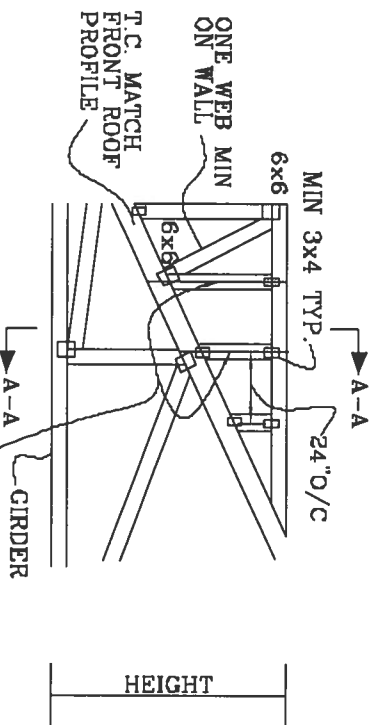


MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR BOR

# TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



# TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPFLIFT

ROOF 24" O/C

SEE CABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL

PLYWOOD 8d 4" O/C



2x4 LEDGER 12d 4" O/C

TRUSSES 24" O/C

A-A

**JULIUS LEE'S**  
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No. 34969  
STATE OF FLORIDA

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

# PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

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

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

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

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST

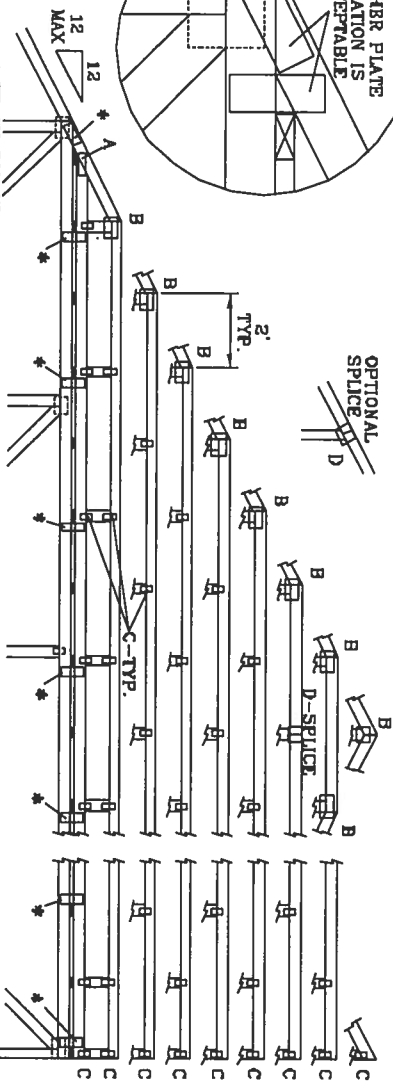
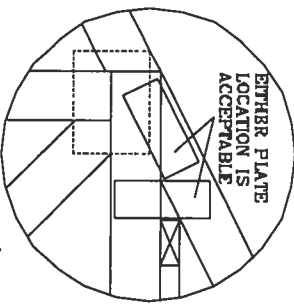
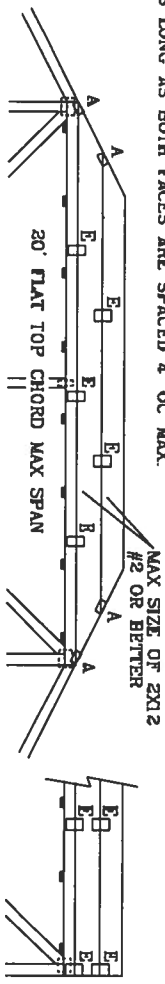
CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

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



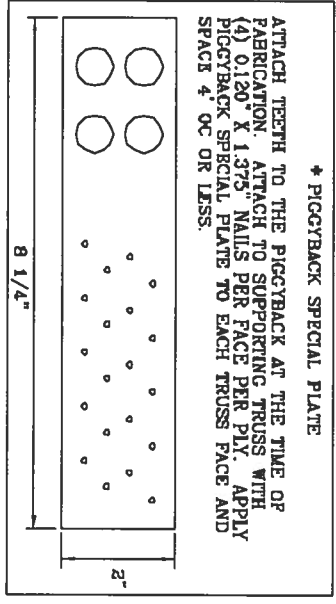
\*ATTACH PIGGYBACK WITH 3X6 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

NOTATION: TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ECT L-10 BUILDING COMPONENT SAFETY INFORMATION FOR THE LATEST REVISIONS OF THE TRUSS MANUFACTURING PRACTICES. THE TRUSS MANUFACTURING PRACTICES ARE THE PROPERTY OF THE TRUSS MANUFACTURING INSTITUTE, 300 BROADWAY DR., SUITE 200, MADISON, VT 05719 AND WIDA CANNOT TRUST COUNCIL OF AMERICA, 630 OVERSEAS LN, MADISON, VT 05719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TRUSSES OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

| JOINT TYPE | SPANS UP TO                                   |       |       |       |
|------------|---|-------|-------|-------|
|            | 30'   | 34'   | 38'   | 52'   |
| A          | 2X4   | 2.5X4 | 2.5X4 | 3X6   |
| B          | 4X6   | 5X6   | 5X6   | 5X6   |
| C          | 1.5X3   | 1.5X4 | 1.5X4 | 1.5X4 |
| D          | 5X4   | 5X5   | 5X5   | 5X6   |
| E          | 4X6 OR 3X6 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 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% 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 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC. |



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

THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045

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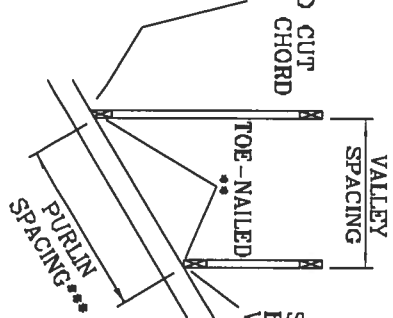
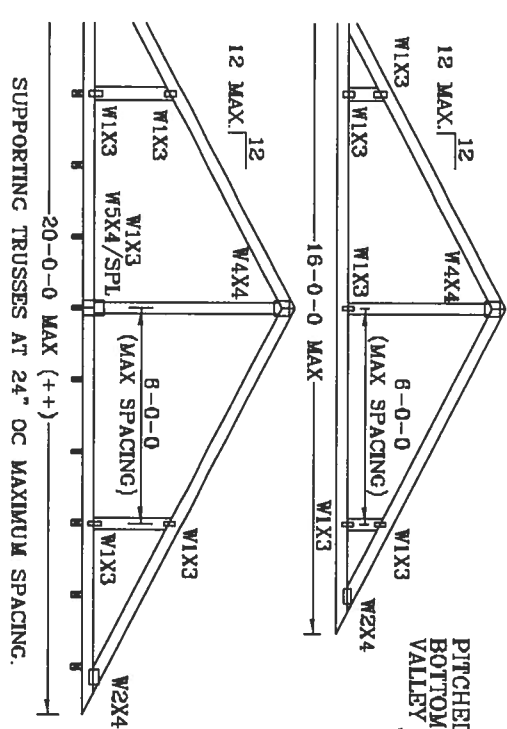
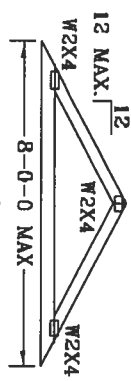
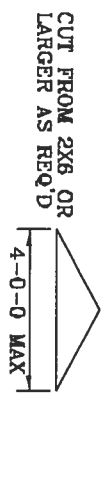
| MAX LOADING    | REF      | PIGGYBACK |
|----------------|----------|-----------|
| 55 PSF AT      | DATE     | 09/12/07  |
| 1.33 DUR. FAC. | DRW/MTEK | STD PIGGY |
| 50 PSF AT      | -ENG     | JL        |
| 1.25 DUR. FAC. |          |           |
| 47 PSF AT      |          |           |
| 1.15 DUR. FAC. |          |           |
| SPACING        | 24.0"    |           |

No: 34868  
STATE OF FLORIDA

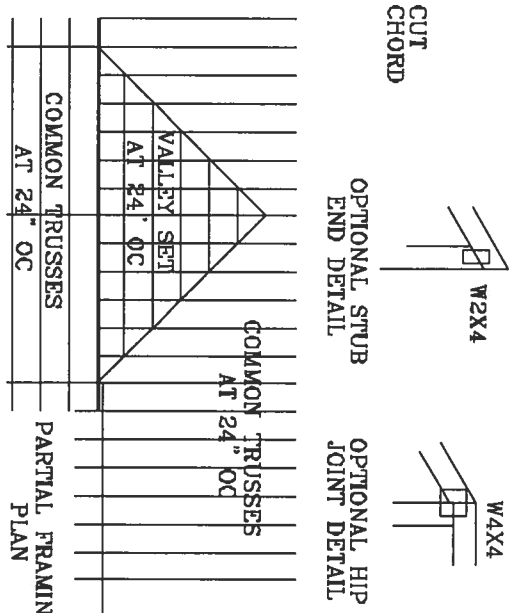
# VALLEY TRUSS DETAIL

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

- \* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).
- \*\* ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:  
 (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR  
 FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR  
 ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED  
 BUILDING, EXP. C. RESIDENTIAL, WIND TC DL=5 PSF.



\*\*\* 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.



REVENINGERS TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICE BUILDING CODES AND STANDARDS, PUBLISHED BY THE NATIONAL INSTITUTE OF BUILDING OFFICIALS, 5500 CENTER DRIVE, SUITE 200, WASHINGTON, DC 20048-1103. TRUSS DESIGNERS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED BRIDGECORD.

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

THIS DRAWING REPLACES DRAWING A105

# TOE-NAIL DETAIL

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

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

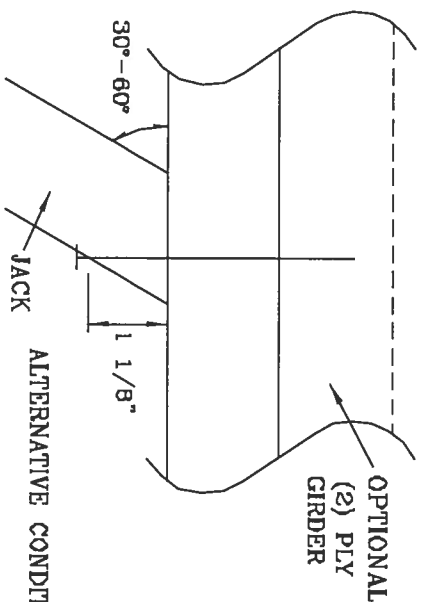
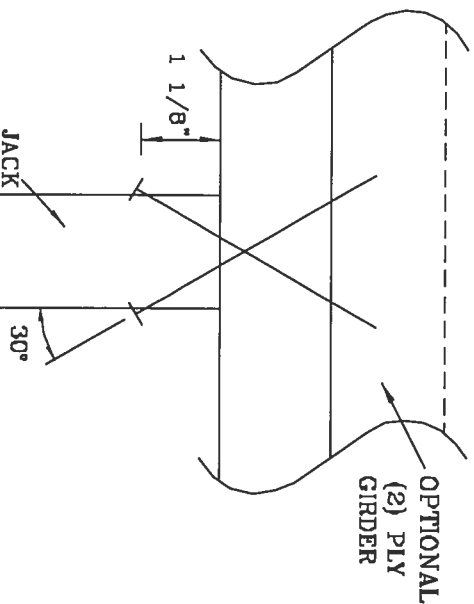
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"x3.5") COMMON TOE-NAILS

| NUMBER OF TOE-NAILS | SOUTHERN PINE |         | DOUGLAS FIR-LARCH |         | HEM-FIR |         | SPRUCE PINE FIR |         |
|---------------------|---------------|---------|-------------------|---------|---------|---------|-----------------|---------|
|                     | 1 PLY         | 2 PILES | 1 PLY             | 2 PILES | 1 PLY   | 2 PILES | 1 PLY           | 2 PILES |
| 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.



THIS DRAWING REPLACES DRAWING 784040

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-43 BUILDING COMPONENT SAFETY (BIRMINGHAM, PUBLISHED BY TPI TRUSS INSTITUTE, 383 PINEHURD DR., SUITE 200, MARION, AL 35719) AND VICA (WOOD TRUSS CONNECT, 10000 WOOD TRUSS DRIVE, SUITE 200, WOODBRIDGE, VA 22191) FOR SPECIFIC PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. ALL STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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|          |     |      |             |
|----------|-----|------|-------------|
| TC LL    | PSF | REF  | TOE-NAIL    |
| TC DL    | PSF | DATE | 09/12/07    |
| BC DL    | PSF | DRWG | CNTONAIL103 |
| BC LL    | PSF | -ENG | JL          |
| TOT. LD. | PSF |      |             |

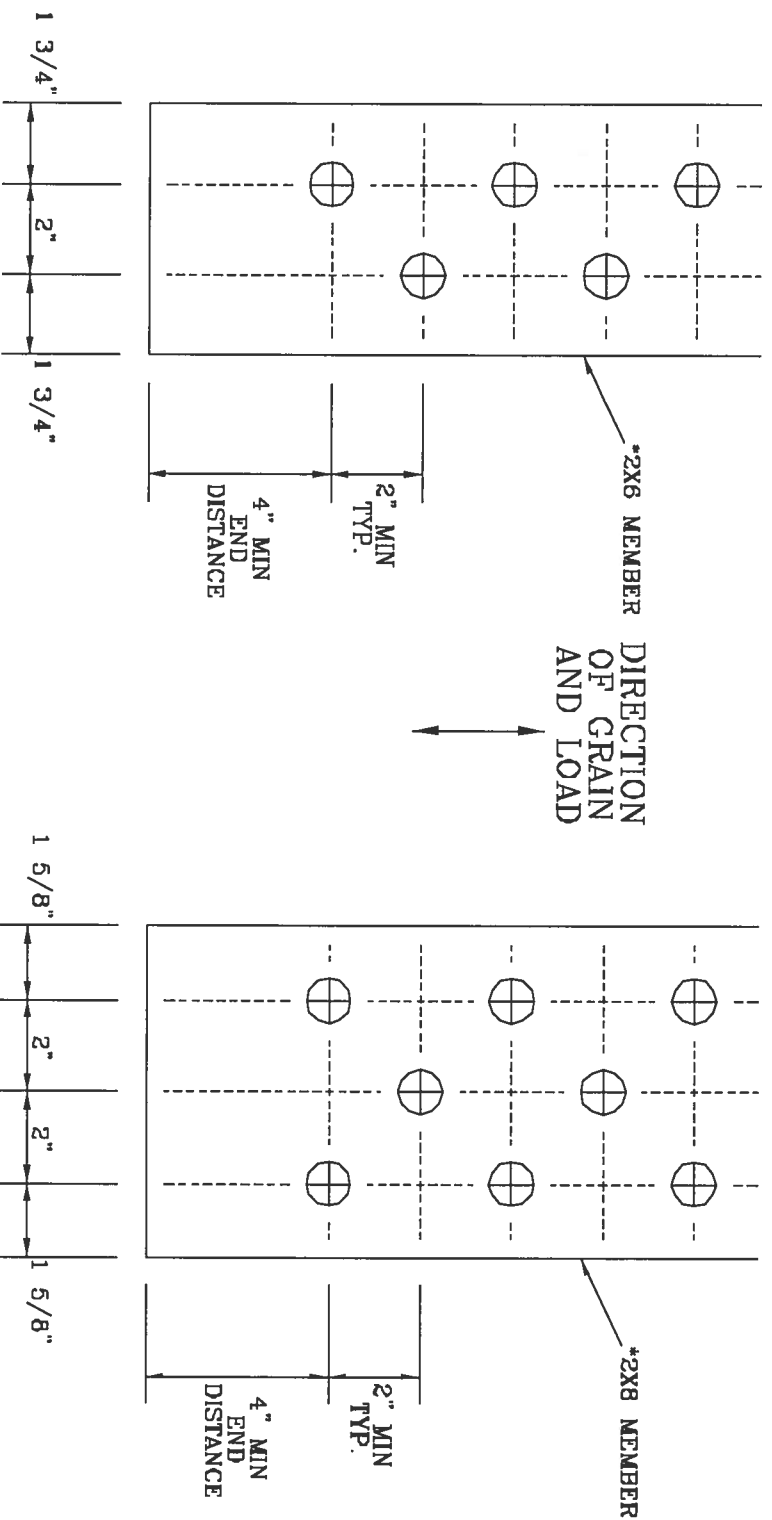
|           |      |
|-----------|------|
| DUR. FAC. | 1.00 |
| SPACING   |      |

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

\* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.  
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

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

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A828.016

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, (INSTALLING AND BRACING. REFER TO BCST 1-B3 (BUILDING CODE/COMMITTEE SAFETY INFORMATION), PUBLISHED BY THE (TRUSS ASSOCIATION), 2000 RIVER RD., SUITE 200, FARMERSVILLE, VA 22791 AND APCA CODED TRUSS COUNCIL OF AMERICA, 1000 N. 17TH ST., SUITE 100, DENVER, CO 80202. ALL TRUSSES MUST BE DESIGNED TO MEET THE REQUIREMENTS OF THE APCA CODED TRUSS COUNCIL OF AMERICA. THESE FUNCTIONS, 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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|           |     |      |              |
|-----------|-----|------|--------------|
| TC LL     | PSF | REF  | BOLT SPACING |
| TC DL     | PSF | DATE | 11/26/03     |
| BC DL     | PSF | DRWG | CNBOLTSPI103 |
| BC LL     | PSF | —ENG | JL           |
| TOT. LD.  | PSF |      |              |
| DUR. FAC. |     |      |              |
| SPACING   |     |      |              |

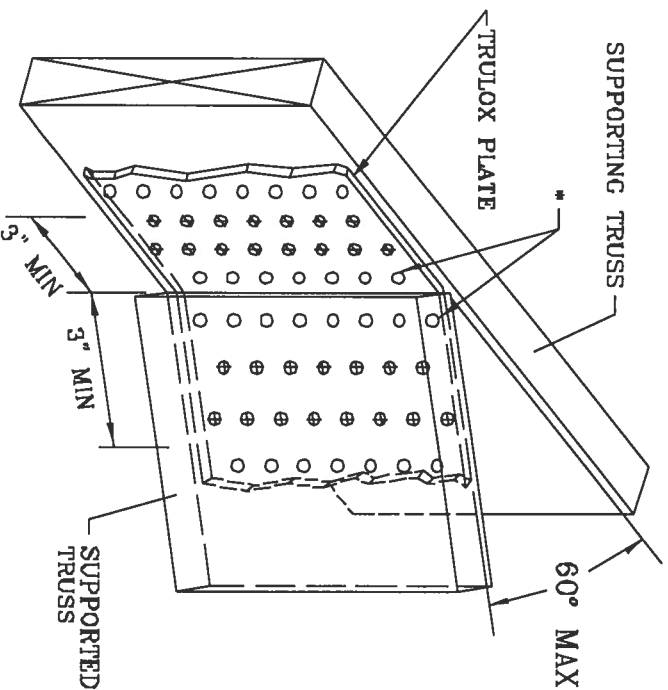
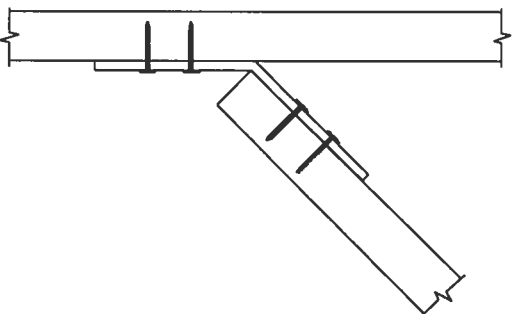
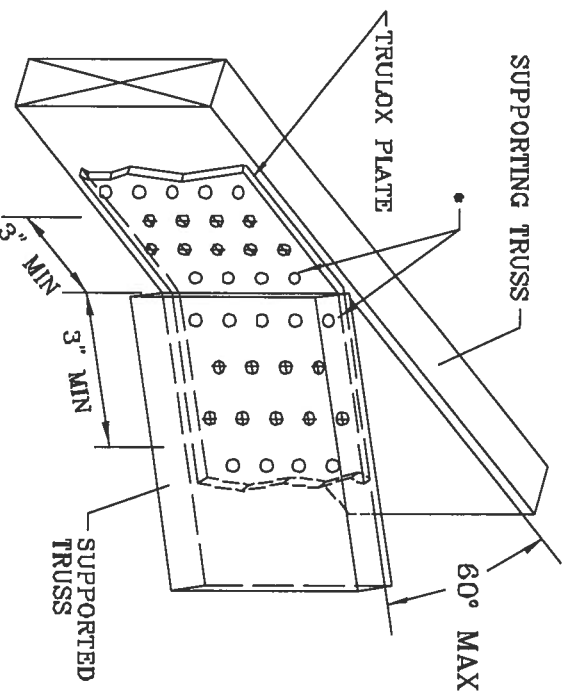
# TRULOX CONNECTION DETAIL

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

TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.  
REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



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

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 1-CO BUILDING DEPARTMENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS INSTITUTE, 3602 DOWNSIDE DR., SUITE 200, MARLBOROUGH, VT 05759 AND VICA (VEDO) TRUSS COUNCIL, 1000 W. 10TH AVE., SUITE 100, DENVER, CO 80202 FOR ADDITIONAL INFORMATION REGARDING TRUSS CONSTRUCTION, THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TO THE CONTRARY, ALL TRUSSES SHALL HAVE SUPPORTED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

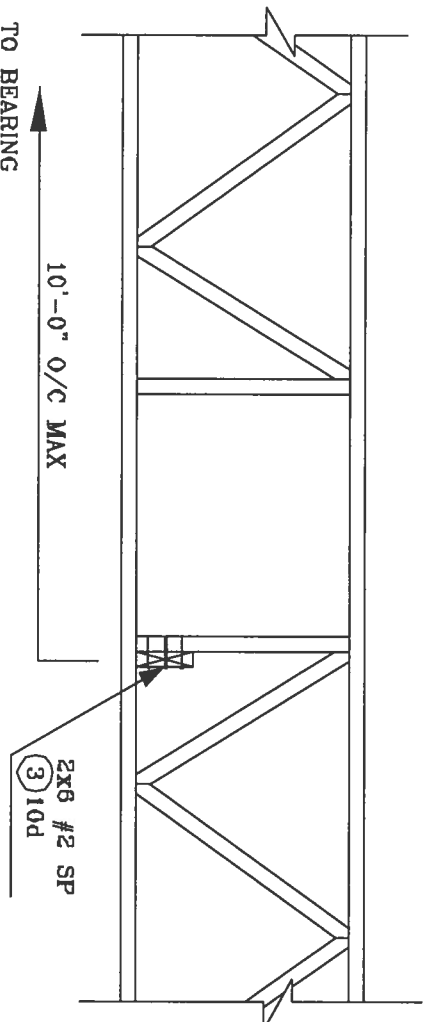
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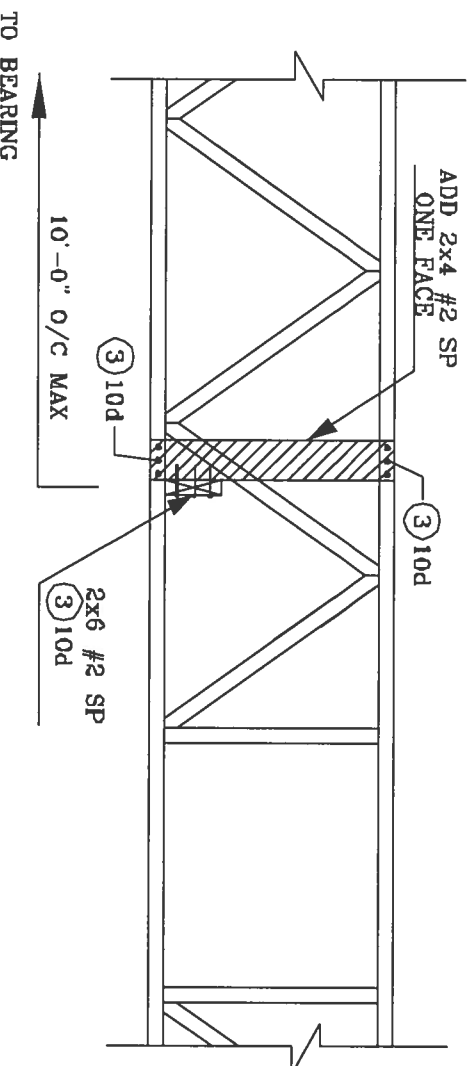
THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R  
1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524

| 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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