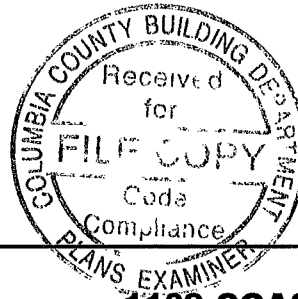


JULIUS LEE PE.



RE: 533042 - AARON SIMQUE - LOT 104 PRESERVE

**1109 COASTAL BAY BLVD,
BOYNTON BEACH, FL 33435**

Site Information:

Project Customer: Aaron Simque Cosnt Project Name: 533042 Model: Bristol
Lot/Block: 104 Subdivision: The Preserve
Address:
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: Unknown at time of Seal License #: Unknown at time of Seal
Address: Unknown at time of Seal
City: Unknown at time of Seal State: Unknown at time of Seal

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2010/TPI2007 Design Program: MiTek 20/20 7.3
Wind Code: ASCE 7-10 Wind Speed: 130 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 45 individual, dated Truss Design Drawings and 0 Additional Drawings
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet
conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

**In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany
this coversheet. The latest approval dates supersede and replace the previous drawings.**

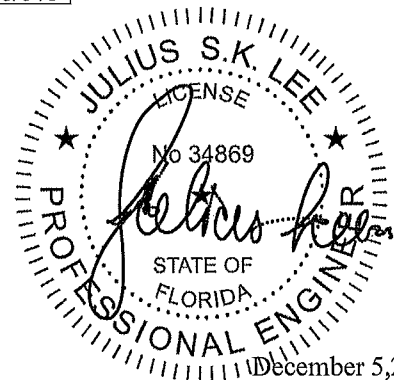
| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|----------|------------|----------|-----|----------|------------|----------|
| 1 | I7586156 | CJ01 | 12/5/013 | 18 | I7586173 | T03 | 12/5/013 |
| 2 | I7586157 | CJ02 | 12/5/013 | 19 | I7586174 | T04 | 12/5/013 |
| 3 | I7586158 | CJ02T | 12/5/013 | 20 | I7586175 | T05 | 12/5/013 |
| 4 | I7586159 | CJ03 | 12/5/013 | 21 | I7586176 | T06 | 12/5/013 |
| 5 | I7586160 | CJ03T | 12/5/013 | 22 | I7586177 | T07 | 12/5/013 |
| 6 | I7586161 | EJ01 | 12/5/013 | 23 | I7586178 | T07G | 12/5/013 |
| 7 | I7586162 | EJ01T | 12/5/013 | 24 | I7586179 | T08 | 12/5/013 |
| 8 | I7586163 | HJ01 | 12/5/013 | 25 | I7586180 | T08G | 12/5/013 |
| 9 | I7586164 | HJ01T | 12/5/013 | 26 | I7586181 | T09 | 12/5/013 |
| 10 | I7586165 | PB01 | 12/5/013 | 27 | I7586182 | T10 | 12/5/013 |
| 11 | I7586166 | PB01G | 12/5/013 | 28 | I7586183 | T11 | 12/5/013 |
| 12 | I7586167 | PB02 | 12/5/013 | 29 | I7586184 | T11G | 12/5/013 |
| 13 | I7586168 | PB03 | 12/5/013 | 30 | I7586185 | T12 | 12/5/013 |
| 14 | I7586169 | PB03G | 12/5/013 | 31 | I7586186 | T13 | 12/5/013 |
| 15 | I7586170 | T01 | 12/5/013 | 32 | I7586187 | T14 | 12/5/013 |
| 16 | I7586171 | T01G | 12/5/013 | 33 | I7586188 | T15 | 12/5/013 |
| 17 | I7586172 | T02 | 12/5/013 | 34 | I7586189 | T16 | 12/5/013 |

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Jax).

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2015.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------|----------|---|----------|---|--|---------------|---------------|-----|------|----------|--------|-----|--------|------|-----------|----------------------|---------|----------------|---|------|-----|------|---------|----------|----------------------|---------|---------------|---|------|-----|--|--|------------|---------------------|---------|---------------|---|-----|-----|--|--|----------|----------------------|------------|--|--|--|--|--------------|----------|
| Job 533042 | Truss CJ01 | Truss Type Jack-Open Truss | Qty 8 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE Job Reference (optional) | I7586158 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Builders FirstSource Lake City FL 32055 | | <div style="text-align: right;">7.350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:41:44 2013 Page 1</div> <div style="text-align: center;">ID IK8sRfB21LwI3zI8BfM2tyyVWso0-EJNf9kOA4YUrtCvY5s2ginHL_c9KQMedmPnbwWvBzZb</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">Plate Offsets (X,Y) [2:0-4-8,0-1-2]</td> </tr> <tr> <td style="width:20%;">LOADING (psf)</td> <td style="width:20%;">SPACING 2-0-0</td> <td style="width:10%;">CSI</td> <td style="width:10%;">DEFL</td> <td style="width:10%;">In (loc)</td> <td style="width:10%;">I/defl</td> <td style="width:10%;">L/d</td> <td style="width:10%;">PLATES</td> <td style="width:10%;">GRIP</td> </tr> <tr> <td>TCLL 20.0</td> <td>Plates Increase 1.25</td> <td>TC 0.14</td> <td>Vert(LL) -0.00</td> <td>8</td> <td>>999</td> <td>240</td> <td>MT20</td> <td>244/190</td> </tr> <tr> <td>TCDL 7.0</td> <td>Lumber Increase 1.25</td> <td>BC 0.02</td> <td>Vert(TL) 0.00</td> <td>8</td> <td>>999</td> <td>180</td> <td></td> <td></td> </tr> <tr> <td>BCLL 0.0 *</td> <td>Rep Stress Incr YES</td> <td>WB 0.00</td> <td>Horz(TL) 0.00</td> <td>2</td> <td>n/a</td> <td>n/a</td> <td></td> <td></td> </tr> <tr> <td>BCDL 5.0</td> <td>Code FBC2010/TPI2007</td> <td>(Matrix-M)</td> <td></td> <td></td> <td></td> <td></td> <td>Weight: 6 lb</td> <td>FT = 20%</td> </tr> </table> | | | | | | | Plate Offsets (X,Y) [2:0-4-8,0-1-2] | | LOADING (psf) | SPACING 2-0-0 | CSI | DEFL | In (loc) | I/defl | L/d | PLATES | GRIP | TCLL 20.0 | Plates Increase 1.25 | TC 0.14 | Vert(LL) -0.00 | 8 | >999 | 240 | MT20 | 244/190 | TCDL 7.0 | Lumber Increase 1.25 | BC 0.02 | Vert(TL) 0.00 | 8 | >999 | 180 | | | BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(TL) 0.00 | 2 | n/a | n/a | | | BCDL 5.0 | Code FBC2010/TPI2007 | (Matrix-M) | | | | | Weight: 6 lb | FT = 20% |
| Plate Offsets (X,Y) [2:0-4-8,0-1-2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOADING (psf) | SPACING 2-0-0 | CSI | DEFL | In (loc) | I/defl | L/d | PLATES | GRIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCLL 20.0 | Plates Increase 1.25 | TC 0.14 | Vert(LL) -0.00 | 8 | >999 | 240 | MT20 | 244/190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCDL 7.0 | Lumber Increase 1.25 | BC 0.02 | Vert(TL) 0.00 | 8 | >999 | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(TL) 0.00 | 2 | n/a | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCDL 5.0 | Code FBC2010/TPI2007 | (Matrix-M) | | | | | Weight: 6 lb | FT = 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width:100%;"> <tr> <td style="width:50%;"> LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 </td> <td style="width:50%;"> BRACING TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing </td> </tr> </table> | | | | | | | LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 | BRACING TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 | BRACING TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>REACTIONS (lb/size) 2=115/0-3-8 (min. 0-1-8) 5=7/Mechanical, 3=2/Mechanical Max Horz 2=70(LC 12) Max Uplift 2=77(LC 12) 5=14(LC 21), 3=13(LC 12) Max Grav 2=140(LC 2) 5=12(LC 16) 3=9(LC 8)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>NOTES (7-9)</p> <ol style="list-style-type: none"> 1) Wind: ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.80 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 2 14 lb uplift at joint 5 and 13 lb uplift at joint 3. 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB. 9) Truss Design Engineer Julius Lee PE: Florida P.E. License No. 34869 Address: 1109 Coastal Bay Blvd. Boynton Beach FL 33435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>LOAD CASE(S) Standard</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



December 5, 2013

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
 Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component.
 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE
 1109 Coastal Bay
 Boynton Beach, FL 33435

| | | | | | | |
|---------------|----------------|-------------------------------|----------|----------|---|----------|
| Job 533042 | Truss CJ02T | Truss Type Jack-Open Truss | Qty 4 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE Job Reference (optional) | I7586158 |
|---------------|----------------|-------------------------------|----------|----------|---|----------|

Builders FirstSource Lake City FL 32055
7 350 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 15:41:46 2013 Page 1

ID IK8sRfB21Lwi3zlBfM2tyyWso0-AiVPaQPQc9kZ7W3xDH48NCNDUbqFuF8wDjGI_OyBzZZ

0-0-0 2-3-8 3-0-0 0-8-8

1-4-0 1-4-0 -3-0-0

Scale = 1-17.4

| | |
|--------------------------------------|--|
| Plate Offsets (X,Y) [2.0-4.4,0.0-14] | |
|--------------------------------------|--|

| | | | | | |
|---------------|-------------------------|------------|--|------------------|----------|
| LOADING (psf) | SPACING 2-0-0 | CSI | DEFL in (loc) l/defl L/d | PLATES GRIP | |
| TCLL 20.0 | Plates Increase 1.25 | TC 0 14 | Vert(LL) -0.00 13 >999 240 | MT20 | 244/190 |
| TCDL 7 0 | Lumber Increase 1.25 | BC 0 12 | Vert(TL) -0.00 13 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0 00 | Horz(TL) 0.00 5 n/a n/a | | |
| BCDL 5.0 | Code FBC2010/TP12007 | (Matrix-M) | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

 B3: 2x4 SP No.3

REACTIONS (lb/size) 4=37/Mechanical, 2=165/0-3-8 (min 0-1-8) 5=30/Mechanical

 Max Horz 2=132(LC 12)

 Max Uplift 4=48(LC 12) 2=75(LC 12) 5=13(LC 12)

 Max Grav 4=52(LC 21) 2=197(LC 2) 5=55(LC 3)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES (7-9)

1) Wind: ASCE 7 10' Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf BCDL=3.0psf h=18ft; Cat. II Exp C, Encl. GCpl=0.18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown Lumber 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 4 75 lb uplift at joint 2 and 13 lb uplift at joint 5.

6) Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss

7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TP1 1 as referenced by the building code

8) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.

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

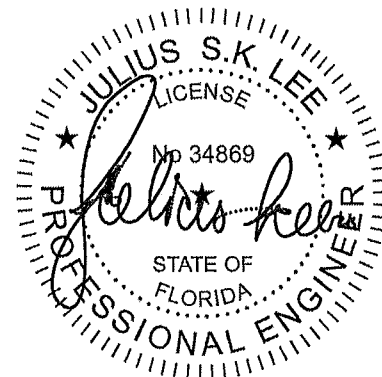
LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.



December 5, 2013

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.
 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult ANSI/TP1 Quality Criteria, D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE,
 1109 Coastal Bay
 Boynton Beach, FL 33435

| | | | | | | |
|---------------|----------------|-------------------------------|----------|----------|---|----------|
| Job 533042 | Truss CJ03T | Truss Type Jack-Open Truss | Qty 4 | Ply 1 | AARON SIMQUE - LOT 104 PRESERVE Job Reference (optional) | I7586160 |
|---------------|----------------|-------------------------------|----------|----------|---|----------|

Builders FirstSource Lake City FL 32055
7,350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:41:47 2013 Page 1

ID IK8sRfB21Lwi3zi8BfM2lyyWso0-fu3onmQ2NTsQkfe7n_cNvPvNA77tdiN3SN?GWryBzZY

Scale = 1:24.3

| | | | | | |
|--|----------------------|------------|-----------------------------|---------------|----------|
| Plate Offsets (X,Y). [2,0-1-9,Edge], [3,0-3-0,0-0-5] | | | | | |
| LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.21 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 7.0 | Plates Increase 1.25 | BC 0.23 | Vert(LL) 0.02 6 >999 240 | | |
| BCLL 0.0 * | Lumber Increase 1.25 | WB 0.00 | Vert(TL) -0.03 5-6 >999 180 | | |
| BCDL 5.0 | Rep Stress Incr YES | (Matrix-M) | Horz(TL) 0.01 5 n/a n/a | | |
| | Code FBC2010/TPI2007 | | | Weight: 22 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

B3. 2x4 SP No.3

REACTIONS (lb/size) 4=70/Mechanical, 2=244/0-3-8 (min. 0-1-8), 5=25/Mechanical

Max Horz 2=197(LC 12)

Max Uplift 4=95(LC 12) 2=-106(LC 12) 5=-4(LC 12)

Max Grav 4=100(LC 21) 2=290(LC 2) 5=52(LC 3)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown

TOP CHORD 2-3=-400/87 3-4=-485/192

BOT CHORD 2-7=-306/719 3-6=-461/842

NOTES (7-9)

- 1) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph TCDL=4.2psf BCDL=3.0psf h=18ft; Cat. II Exp C Encl. GCpi=0.18 MWFRS (envelope) gable end zone and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SP No 2 crushing capacity of 565 psi
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at Joint 4, 106 lb uplift at joint 2 and 4 lb uplift at joint 5.
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 8) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
- 9) Truss Design Engineer: Julius Lee PE, Florida P.E. License No. 34869 Address: 1109 Coastal Bay Blvd Boynton Beach, FL 33435

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

LOAD CASE(S) Standard

December 5, 2013

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
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erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding
fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCS11 Building Component
Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE
1109 Coastal Bay
Boynton Beach, FL 33435

| | | | | | | | |
|--|-------|---------------------|--|-----|-------------------------------|--|----------|
| Job | Truss | Truss Type | Qty | Ply | AARON SIMQUE LOT 104 PRESERVE | | 17586164 |
| 533042 | HJ01T | Diagonal Hip Girder | 2 | 1 | Job Reference (optional) | | |
| Builders FirstSource | | Lake City FL 32055 | 7.350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:41:51 2013 Page 2 | | | | |
| ID:IK8sRfB21Lwi3zl8BfM2tyyWso0-Xfild8TZRhMsDHxu0qgJ4F40ucP5ZSXfN?zTgcyBzZU | | | | | | | |
| LOAD CASE(S) Standard | | | | | | | |
| Concentrated Loads (lb) | | | | | | | |
| Vert: 14=83(F=42 B=42) 15=15(F=7 B=7) 16=-52(F=-26, B=-26) 17=20(F=10, B=10) 18=-39(F=-20, B=-20) 19=-30(F=-15, B=-15) | | | | | | | |



WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component.
 Applicability of design parameters and proper incorporation of component is responsibility of building designer, not truss designer. Bracing shown
 is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the
 erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding
 fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSP Building Component
 Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE,
 1109 Coastal Bay
 Boynton Beach FL 33435

| | | | | | | |
|---|----------------|--|----------|----------|-------------------------------|----------|
| Job 533042 | Truss PB01G | Truss Type GABLE | Qty 2 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | I7586166 |
| Builders FirstSource Lake City FL 32055 | | 7 350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:41:54 2013 Page 1 ID IK8sRfB21LwI3zI8BfM2tyyWso0-xE_RF9VRkckQ4kgThyEOluYkqVMmse53zC7GxyBzZR 12-11-7 | | | | |

Job Reference (optional)

Scale = 1/24.9

| | |
|--|--|
| Plate Offsets (X,Y) [2 0-2-0,0-1-8], [4 0-2-0,0-1 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 0.38 | Vert(LL) | 0 01 | 5 | n/r | 120 | MT20 |
| TCDL 7 0 | Lumber Increase | 1.25 | BC 0.30 | Vert(TL) | 0 02 | 5 | n/r | 120 | 244/190 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.09 | Horz(TL) | 0 00 | 4 | n/a | n/a | |
| BCDL 5.0 | Code FBC2010/TPI2007 | | (Matrix) | | | | | | |
| Weight: 50 lb | | | | | | | | | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS All bearings 11-5-3.

(lb) - Max Horz 2=103(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 4, 7 8, 6

Max Grav All reactions 250 lb or less at joint(s) 2 4, 7 8 6

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown

WEBS 3-7=-315/140

NOTES (12-14)

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10: Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl., GCPI=0.18, MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 3-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No 2 crushing capacity of 565 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 4 7 8, 6.
- 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
- Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.
- Truss Design Engineer: Julius Lee, PE: Florida P E License No. 34869 Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

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

Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.



December 5,2013

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Julius Lee PE
1109 Coastal Bay
Boynton Beach, FL 33435

| | | | | | | |
|---|---------------|--|----------|----------|-------------------------------|----------|
| Job 533042 | Truss PB03 | Truss Type Piggyback Truss | Qty 6 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | 17586168 |
| Builders FirstSource Lake City FL 32055 | | 7 360 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 15:41:56 2013 Page 1 | | | | |
| <div style="display: flex; justify-content: space-between;"> ID IK9sRfB21Lwi3z18BfM2lyyWso0-ud5BgrXIFE_8J2qsoNGUnJnyLdEpEncOWHhELpyBzZP Job Reference (optional) </div> | | | | | | |

| | | | | | | | | | |
|--------------------------------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| Plate Offsets (X, Y) [3.0-2.0, Edge] | | | | | | | | | |
| LOADING (psf) | SPACING | 2-0-0 | CSI | DEFL | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCCL 20.0 | Plates Increase | 1.25 | TC 0.05 | Vert(LL) | 0.00 | 4 | n/r | 120 | MT20 |
| TCDL 7.0 | Lumber Increase | 1.25 | BC 0.11 | Vert(TL) | 0.00 | 5 | n/r | 120 | 244/190 |
| BCCL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(TL) | 0.00 | 4 | n/a | n/a | |
| BCDL 5.0 | Code FBC2010/TPI2007 | | (Matrix) | | | | | | |
| | | | | | | | | Weight: 14 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=115/3-5-12 (min. 0-1-8) 4=115/3-5-12 (min. 0-1-8)

Max Horz 2=-37(LC 10)

Max Uplift 2=-35(LC 12) 4=-35(LC 13)

Max Grav 2=137(LC 2), 4=137(LC 2)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.

NOTES (10-12)

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

2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C End GCpl=0.18, MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members

6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 4

8) Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss.

9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer

10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

11) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.

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

LOAD CASE(S) Standard



December 5, 2013

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE. Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer, not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult ANSI/TPI1 Quality Criteria D58-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE
1109 Coastal Bay
Boynton Beach, FL 33435

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|--|---|--|-------------------------------|----------------|-------------------------------|----------|---|---|-----|------|--------|------|-----------|-------|---------|---------------------|------|---------|----------|----------------------|---------|-------------------------------|--|--|------------|----------------------|---------|------------------------------|--|--|----------|--------------------|------------|-------------------------|--|--|--|----------------------|--|--|----------------|----------|
| Job 533042 | Truss T01 | Truss Type Common Truss | Qty 1 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | 17586170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Builders FirstSource Lake City FL 32055 | | Job Reference (optional) 7 350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:41:58 2013 Page 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> ID IK8sRfB21LwI3zI8BIM2tyyVwso0-q7Dy5XZynrEsZM_EwolyksBoRrRIZ2h_bALPiyBzZN Scale = 1:46.3 </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">LOADING (psf)</td> <td style="width:20%;">SPACING</td> <td style="width:10%;">CSI</td> <td style="width:10%;">DEFL</td> <td style="width:10%;">PLATES</td> <td style="width:10%;">GRIP</td> </tr> <tr> <td>TCLL 20.0</td> <td>2-0-0</td> <td>TC 0.45</td> <td>in (loc) l/defl L/d</td> <td>MT20</td> <td>244/190</td> </tr> <tr> <td>TCDL 7.0</td> <td>Plates Increase 1.25</td> <td>BC 0.42</td> <td>Vert(L/L) -0 19 8-10 >999 240</td> <td></td> <td></td> </tr> <tr> <td>BCLL 0.0 *</td> <td>Lumber Increase 1.25</td> <td>WB 0.52</td> <td>Vert(TL) -0 34 8-10 >766 180</td> <td></td> <td></td> </tr> <tr> <td>BCDL 5.0</td> <td>Rep Stress Incr NO</td> <td>(Matrix-M)</td> <td>Horz(TL) 0.03 6 n/a n/a</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Code FBC2010/TPI2007</td> <td></td> <td></td> <td>Weight: 113 lb</td> <td>FT = 20%</td> </tr> </table> | | | | | | | LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP | TCLL 20.0 | 2-0-0 | TC 0.45 | in (loc) l/defl L/d | MT20 | 244/190 | TCDL 7.0 | Plates Increase 1.25 | BC 0.42 | Vert(L/L) -0 19 8-10 >999 240 | | | BCLL 0.0 * | Lumber Increase 1.25 | WB 0.52 | Vert(TL) -0 34 8-10 >766 180 | | | BCDL 5.0 | Rep Stress Incr NO | (Matrix-M) | Horz(TL) 0.03 6 n/a n/a | | | | Code FBC2010/TPI2007 | | | Weight: 113 lb | FT = 20% |
| LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCLL 20.0 | 2-0-0 | TC 0.45 | in (loc) l/defl L/d | MT20 | 244/190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCDL 7.0 | Plates Increase 1.25 | BC 0.42 | Vert(L/L) -0 19 8-10 >999 240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCLL 0.0 * | Lumber Increase 1.25 | WB 0.52 | Vert(TL) -0 34 8-10 >766 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCDL 5.0 | Rep Stress Incr NO | (Matrix-M) | Horz(TL) 0.03 6 n/a n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Code FBC2010/TPI2007 | | | Weight: 113 lb | FT = 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP M 31 WEBS 2x4 SP No.3 </td> <td style="width:50%;"> BRACING TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing </td> </tr> </table> | | | | | | | LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP M 31 WEBS 2x4 SP No.3 | BRACING TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP M 31 WEBS 2x4 SP No.3 | BRACING TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REACTIONS (lb/size) 2=883/0-3-8 (min. 0-1-9) 6=883/0-3-8 (min. 0-1-9) Max Horz 2=-235(LC 10) Max Uplift 2=-455(LC 12) 6=-455(LC 13) Max Grav 2=991(LC 2) 6=991(LC 2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1924/702, 3-4=-1852/765, 4-5=-1852/765, 5-6=-1924/702 BOT CHORD 2-10=-547/1510, 9-10=-244/951 9-17=-244/951 17 18=-244/951 8-18=-244/951 6-8=-449/1512 WEBS 4-8=-399/896, 5-8=-393/297 4-10=-398/896, 3-10=-393/297 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES (9-11) 1) Unbalanced roof live loads have been considered for this design. 2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph: TCDL=4.2psf: BCDL=3.0psf: h=18ft; Cat. II Exp C, Encl GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (l=lb) 2=455, 6=455. 7) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss. 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B) 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code 10) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB. 11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869 Address: 1109 Coastal Bay Blvd, Boynton Beach, FL 33435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOAD CASE(S) Standard 1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-4=-44, 4-7=-44 10-11=-10 10-17=-61(F=-51) 17 18=-91(F=-51), 8-18=-61(F=-51) 8-14=-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



December 5, 2013

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Julius Lee PE,
 1109 Coastal Bay
 Boynton Beach FL 33435

| | | | | | | |
|---------------|--------------|----------------------------|----------|----------|---|----------|
| Job 533042 | Truss T02 | Truss Type Common Truss | Qty 6 | Ply 1 | AARON SIMQUE - LOT 104 PRESERVE Job Reference (optional) | I7586172 |
|---------------|--------------|----------------------------|----------|----------|---|----------|

Builders FirstSource, Lake City FL 32055
7 350 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 16:42:01 2013 Page 1

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Scale = 1:45.7

| | | | | | |
|--|----------------------|------------|-----------------------------|----------------|----------|
| Plate Offsets (X,Y) [2.0-5.0,0-0-6], [6.0-5.0,0-0-6] | | | | | |
| LOADING (psf) | SPACING 2-0-0 | CSI | DEFL in (loc) l/defl L/d | PLATES GRIP | |
| TCLL 20.0 | Plates Increase 1.25 | TC 0.45 | Vert(LL) 0 19 7-9 >999 240 | MT20 | 244/190 |
| TCDL 7.0 | Lumber Increase 1.25 | BC 0.42 | Vert(TL) -0.34 7-9 >767 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.52 | Horz(TL) 0 03 6 n/a n/a | | |
| BCDL 5.0 | Code FBC2010/TP12007 | (Matrix-M) | | Weight: 110 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP M 31

WEBS 2x4 SP No.3

REACTIONS (lb/size) 6=824/0-3-8 (min. 0-1-8) 2=884/0-3-8 (min. 0-1-9)

Max Horz 2=247(LC 9)

Max Uplift 6=411(LC 13) 2=456(LC 12)

Max Grav 6=923(LC 22) 2=992(LC 2)

FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown

TOP CHORD 2-3=-1924/702, 3-4=-1854/766, 4-5=-1854/768, 5-6=-1925/704

BOT CHORD 2-9=-565/1492, 8-9=-263/931 8-16=-263/931 16-17=-263/931 7-17=-263/931 6-7=-546/1492

WEBS 4-7=-402/898, 5-7=-394/298, 4-9=-399/896, 3-9=-394/297

NOTES (9-11)

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

2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCpl=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf

5) All bearings are assumed to be SP No.2 crushing capacity of 585 psi

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (It=lb) 6=411, 2=456.

7) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.

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

9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

10) Note Visually graded lumber designation SPp, represents new lumber design values as per SPIB.

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

December 5, 2013

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Julius Lee PE,
1109 Coastal Bay
Boynton Beach FL 33435

| | | | | | | |
|--|--------------|--------------------------|----------|----------|--|----------|
| Job 533042 | Truss T04 | Truss Type Flat Truss | Qty 1 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | I7586174 |
| Builders FirstSource, Lake City FL 32055 | | | | | 7.350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:42:03 2013 Page 1 | |
| | | | | | ID (K8sRfB21Lwi3z18BfM2lyyWso0-Bz0r8Ec5cN19f7sCjLu7Zna4tSRTNqdQ7st65vyBzZ) | |

| | |
|---|--|
| Plate Offsets (X,Y) [9:0-2:4-0-0] | |
| LOADING (psf) TCCL 20.0 TCCL 7.0 BCCL 0.0 * BCDL 5.0 | SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007 |
| CSI TC 0.36 BC 0.88 WB 0.56 (Matrix-M) | DEFL In (loc) l/defl L/d Vert(LL) 0.22 8-10 >999 240 Vert(TL) -0.34 8-10 >763 180 Horz(TL) 0.02 7 n/a n/a |
| PLATES MT20 GRIP 244/190 Weight: 170 lb FT = 20% | |

| | |
|---|---|
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP 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 8-11-11 oc bracing. WEBS 1 Row at midpt 1-11 6-7 2-11 3-10, 3-8, 5-7 <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. </div> |
|---|---|

REACTIONS (lb/size) 11=930/0-1 12 (min 0-1-8), 7=928/0-3-0 (min. 0-1-8)
 Max Uplift 11=-275(LC 8) 7=-274(LC 8)

FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown
 TOP CHORD 2-3=-715/317 3-4=-720/320, 4-5=-720/320
 BOT CHORD 11 12=-277/587 12-13=-277/587 10-13=-277/587 9-10=-362/775 9-14=-362/775,
 14-15=-362/775, 8-15=-362/775, 8-16=-280/595, 16-17=-280/595, 7 17=-280/595
 WEBS 2-11=-1094/519, 2-10=-195/611, 5-8=-189/600, 5-7=-1092/518

NOTES (10-12)
 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft, Cat. II Exp C; Encl GCpl=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.80 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf
 5) All bearings are assumed to be SP No 2 crushing capacity of 565 psi.
 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=275, 7=274
 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
 11) Note: Visually graded lumber designation SPp represents new lumber design values as per SPIB.
 12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869. Address: 1109 Coastal Bay Blvd Boynton Beach, FL 33435

LOAD CASE(S) Standard
 1) Regular Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-6=-44, 11-12=-10, 12-13=-40, 10-13=-10, 10-14=-61(F=-51) 14-15=-91(F=-51), 8-15=-61(F=-51) 8-16=-10, 16-17=-40 7-17=-10



December 5, 2013

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Julius Lee PE
 1109 Coastal Bay
 Boynton Beach, FL 33435

| | | | | | | |
|---------------|--------------|--------------------------|----------|----------|---|----------|
| Job 533042 | Truss T06 | Truss Type Flat Truss | Qty 1 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE Job Reference (optional) | 17586176 |
|---------------|--------------|--------------------------|----------|----------|---|----------|

Builders FirstSource, Lake City FL 32055
7.350 s Sep 27 2012 MITek Industries Inc. Thu Dec 05 15:42:05 2013 Page 1

ID: IK8sRfB21Lw3zi8BfM2tyyWso0-7M8bZweL877svQ0aqmwbeCfQTf7ArfUjbAMD9oyBzZG

Scale = 1:82.8

| | | | | | | | | | | | | | |
|----------------------|-------|----------------------|------|------------|------|-------------|-------|--------|------|-------------------------|---------|-------------|--|
| LOADING (psf) | | SPACING | | CSI | | DEFL | | | | PLATES | | GRIP | |
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.35 | in | (loc) | l/defl | L/d | MT20 | 244/190 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.86 | Vert(LL) | 0.22 | 8-10 | >999 | 240 | | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.79 | Vert(TL) | -0.34 | 8-10 | >763 | 180 | | | |
| BCDL | 5.0 | Code FBC2010/TPI2007 | | (Matrix-M) | | Horz(TL) | 0.02 | 7 | n/a | n/a | | | |
| | | | | | | | | | | Weight: 200 lb FT = 20% | | | |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP 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 1 Row at midpt 1-11 6-7 2-11 3-10, 3-8, 5-7

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 11=964/0-1 12 (min 0-1 8) 7=962/0-3-0 (min. 0-1-8)
Max Uplift 11=-275(LC 8), 7=-274(LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-558/241 3-4=-561/241 4-5=-561/241
 BOT CHORD 11-12=-205/446, 12-13=-205/446, 10-13=-205/446, 9-10=-277/607 9-14=-277/607
 14-15=-277/607 8-15=-277/607 8-16=-203/438 16-17=-203/438, 7-17=-203/438
 WEBS 2-11=-1054/489, 2-10=-202/642 5-6=-200/638, 5-7=-1051/490

NOTES (10-12)

- 1) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C Encl GCpl=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 11=275, 7=274
- 8) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
- 11) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.
- 12) Truss Design Engineer: Julius Lee PE: Florida P.E. License No. 34869 Address: 1109 Coastal Bay Blvd. Boynton Beach FL 33435

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert. 1-6=-44, 11-12=-10, 12-13=-40 10-13=-10 10-14=-61(F=-51) 14-15=-91(F=-51) 8-15=-61(F=-51) 8-16=-10 16-17=-40, 7-17=-10



December 5, 2013

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Julius Lee PE
 1109 Coastal Bay
 Boynton Beach FL 33435

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---------------------------|----------------|-------------------------------|----------|---|--|-----|------|--------|------|-----------|----------------------|---------|---------------------|------|---------|----------|----------------------|---------|---------------------------|--|--|------------|---------------------|---------|---------------------------|--|--|----------|----------------------|----------|--------------------------|--|--|--|--|--|--|----------------|----------|
| Job 533042 | Truss T07G | Truss Type Plggyback Base Truss | Qty 1 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | I7586178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Builders FirstSource Lake City FL 32055 | | 7,350 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 15:42:09 2013 Page 1 ID IK8sRfB21Lwi3zI8BfM2lyyWso0-77O60IhrBDdIN2JM3c?Xo2qA?thqnd9IVoKQIZyBzZC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plate Offsets (X,Y). [2:0-4-5-0-1-12], [12:0-2-8-0-1-13], [14:0-2-8-0-1-13], [24:0-4-5-0-1-12], [26:0-6-8-0-2-0], [44:0-6-8-0-2-0] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">LOADING (psf)</td> <td style="width:15%;">SPACING</td> <td style="width:15%;">CSI</td> <td style="width:15%;">DEFL</td> <td style="width:15%;">PLATES</td> <td style="width:15%;">GRIP</td> </tr> <tr> <td>TCLL 20.0</td> <td>Plates Increase 1.25</td> <td>TC 0.12</td> <td>in (loc) l/defl L/d</td> <td>MT20</td> <td>244/190</td> </tr> <tr> <td>TCDL 7.0</td> <td>Lumber Increase 1.25</td> <td>BC 0.05</td> <td>Vert(LL) -0.01 25 n/r 120</td> <td></td> <td></td> </tr> <tr> <td>BCLL 0.0 *</td> <td>Rep Stress Incr YES</td> <td>WB 0.17</td> <td>Vert(TL) -0.01 25 n/r 120</td> <td></td> <td></td> </tr> <tr> <td>BCDL 5.0</td> <td>Code FBC2010/TPI2007</td> <td>(Matrix)</td> <td>Horz(TL) 0.01 24 n/a n/a</td> <td></td> <td></td> </tr> <tr> <td colspan="4"></td> <td>Weight: 257 lb</td> <td>FT = 20%</td> </tr> </table> | | | | | | | LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP | TCLL 20.0 | Plates Increase 1.25 | TC 0.12 | in (loc) l/defl L/d | MT20 | 244/190 | TCDL 7.0 | Lumber Increase 1.25 | BC 0.05 | Vert(LL) -0.01 25 n/r 120 | | | BCLL 0.0 * | Rep Stress Incr YES | WB 0.17 | Vert(TL) -0.01 25 n/r 120 | | | BCDL 5.0 | Code FBC2010/TPI2007 | (Matrix) | Horz(TL) 0.01 24 n/a n/a | | | | | | | Weight: 257 lb | FT = 20% |
| LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCLL 20.0 | Plates Increase 1.25 | TC 0.12 | in (loc) l/defl L/d | MT20 | 244/190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCDL 7.0 | Lumber Increase 1.25 | BC 0.05 | Vert(LL) -0.01 25 n/r 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.17 | Vert(TL) -0.01 25 n/r 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCDL 5.0 | Code FBC2010/TPI2007 | (Matrix) | Horz(TL) 0.01 24 n/a n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Weight: 257 lb | FT = 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 </td> <td style="width:50%;"> BRACING TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 6-0-0 oc purlins Rigid ceiling directly applied or 10-0-0 oc bracing 1 Row at midpt 13-35, 12-36, 11-37 14-34, 15-33 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. </td> </tr> </table> | | | | | | | LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 | BRACING TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 6-0-0 oc purlins Rigid ceiling directly applied or 10-0-0 oc bracing 1 Row at midpt 13-35, 12-36, 11-37 14-34, 15-33 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 | BRACING TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 6-0-0 oc purlins Rigid ceiling directly applied or 10-0-0 oc bracing 1 Row at midpt 13-35, 12-36, 11-37 14-34, 15-33 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REACTIONS All bearings 34-8-0. (lb) - Max Horz 2=336(LC 10) Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 36, 43, 44, 34, 26, 24 except 37=115(LC 12) 39=113(LC 12) 40=112(LC 12) 41=111(LC 12) 42=115(LC 12) 33=113(LC 13) 31=115(LC 13) 30=111(LC 13) 29=111(LC 13) 28=114(LC 13) 27=102(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29, 28, 27, 26, 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FORCES (lb) - Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. TOP CHORD 2-3=286/245, 3-4=258/236, 4-5=251/246, 10-11=216/283, 11 12=279/338, 12-13=250/308, 13-14=250/308, 14-15=279/338, 15-16=216/264 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES (13-15) 1) Unbalanced roof live loads have been considered for this design 2) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl. GCpi=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face) see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1 4) Provide adequate drainage to prevent water ponding 5) All plates are 2x4 MT20 unless otherwise indicated 6) Gable requires continuous bottom chord bearing 7) Gable studs spaced at 2-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 10) All bearings are assumed to be SP No 2 crushing capacity of 565 psi. 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 35, 36, 43, 44, 34, 26, 24 except (jt=lb) 37=115, 39=113, 40=112, 41=111 42=115, 33=113, 31=115, 30=111 29=111 28=114 27=102 12) Semi-rigid pitchbreaks including heels* Member end fixity model was used in the analysis and design of this truss. 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 14) Note Visually graded lumber designation SP, represents new lumber design values as per SPIB. 15) Truss Design Engineer: Julius Lee PE: Florida P.E. License No. 34869 Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOAD CASE(S) Standard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



December 5, 2013

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Julius Lee PE,
 1109 Coastal Bay
 Boynton Beach, FL 33435

| | | | | | | |
|---------------|--------------|------------------------------------|----------|----------|---|----------|
| Job 533042 | Truss T08 | Truss Type Piggyback Base Truss | Qty 6 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE Job Reference (optional) | 17586179 |
|---------------|--------------|------------------------------------|----------|----------|---|----------|

Builders FirstSource, Lake City FL 32055 7.350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:42:11 2013 Page 2
ID IK8sRfB21Lwi3zi8BfM2tyyWso0-yVVspzj6jr0dLTkB11?uTvingAbFLobz6pXNSyBzZA

12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

13) Note Visually graded lumber designation SPP, represents new lumber design values as per SPIB.

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-44, 5-7=-44, 7-30=-44, 10-12=-44, 24-31=-18(F=-8), 31-32=-48(F=-8) 32-33=-18(F=-8) 33-34=-48(F=-8), 34-35=-18(F=-8) 35-36=-48(F=-8) 36-37=-40 27-37=-10

Concentrated Loads (lb)

Vert. 10=-143

Trapezoidal Loads (plf)

Vert: 30=-116-to-10=-187

| | | | | | | |
|--------|-------|------------|-----|-----|-------------------------------|----------|
| Job | Truss | Truss Type | Qty | Ply | AARON SIMQUE LOT 104 PRESERVE | 17586180 |
| 533042 | T08G | GABLE | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Lake City FL 32055 7.350 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 15:42 16 2013 Page 2
ID: iK8sRfB21Lwi3zI8BfM2tyyWso0-ITJlthmEYNWJ7MizadAbXcBAhrwwhnK6OXI2fyBzZ5

12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

13) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.

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

LOAD CASE(S) Standard

| | | | | | | |
|--------|-------|----------------------|-----|-----|---------------------------------|----------|
| Job | Truss | Truss Type | Qty | Ply | AARON SIMQUE - LOT 104 PRESERVE | 17586181 |
| 533042 | T09 | Piggyback Base Truss | 4 | 1 | Job Reference (optional) | |

Builders FirstSource, Lake City FL 32055

7.350 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 15:42:17 2013 Page 2
ID IK8sRfB21LwI3zl8BfM2tyyVvso0-mfr741ntJheALGwuXH8P7k9L35ENf31UL2Gra5yBzZ4

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-44, 5-7=-44 7-29=-44, 10-12=-44, 23-30=-18(F=-8) 30-31=-48(F=-8), 31-32=-18(F=-8) 32-33=-48(F=-8) 33-34=-18(F=-8), 34-35=-48(F=-8) 35-36=-40, 26-36=-10

Concentrated Loads (lb)

Vert: 10=-143

Trapezoidal Loads (plf)

Vert: 29=-118-to-10=-187



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Julius Lee PE
1109 Coastal Bay
Boynton Beach FL 33435

| | | | | | | |
|--|--------------|------------------------------------|----------|----------|---|----------|
| Job 533042 | Truss T11 | Truss Type Piggyback Base Truss | Qty 5 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | I7586183 |
| Builders FirstSource, Lake City FL 32055 | | | | | 7.350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:42:19 2013 Page 1 ID IK8sRFB21LwI3zI8BfM2IyyVWso0-j2_uVip7rlutaa4HfiAtC9Em6v7B7_2npMlyf_yBzZ2 | |

Job Reference (optional)

| | | | | | | | | |
|---|-----------------------|------------|----------------|----------|--------|-----|----------------|----------|
| Plate Offsets (X,Y): [1.0-2.3,Edge], [5.0-2.8,0-1-13] | | | | | | | | |
| LOADING (psf) | SPACING | CSI | DEFL | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plates Increase 2-0-0 | TC 0.53 | Vert(LL) -0.13 | 10-12 | >999 | 240 | MT20 | 244/190 |
| TCDL 7.0 | Lumber Increase 1.25 | BC 0.43 | Vert(TL) -0.20 | 10-12 | >999 | 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.85 | Horz(TL) 0.02 | 9 | n/a | n/a | | |
| BCDL 5.0 | Code FBC2010/TPI2007 | (Matrix-M) | | | | | | |
| | | | | | | | Weight: 207 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

W5, 2x4 SP No.2

REACTIONS (lb/size) 1=622/Mechanical 9=1326/0-3-8 (min. 0-2-0)

Max Horz 1=523(LC 12)

Max Uplift 1=-239(LC 12), 9=-602(LC 9)

Max Grav 1=727(LC 21) 9=1326(LC 1)

FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1155/413 2-3=-1017/270, 3-4=-911/290 4-5=-475/149 5-6=-379/195

BOT CHORD 1 12=-1027/1558, 12-16=-455/828, 16-17=-455/828, 11-17=-455/828, 10-11=-455/828

WEBS 2-12=-338/246, 4-12=-181/452, 4-10=-695/402, 6-10=-455/947, 6-9=-1437/805

NOTES (8-11)

1) Wind: ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf, BCDL=3.0psf, h=18ft; Cat. II Exp C, Encl. GCpl=0.18, MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf

5) All bearings are assumed to be SP No 2 crushing capacity of 565 psi.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 239 lb uplift at joint 1 and 602 lb uplift at joint 9

7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss

8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

9) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.

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

11) Use Simpson HTU26 to attach Truss to Carrying member

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

WEBS 1 Row at midpt 7-8, 4-10 5-10 6-10, 6-9

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

December 5, 2013

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Julius Lee PE
1109 Coastal Bay
Boynton Beach, FL 33435

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---|-------------------------------|----------------|-------------------------------|----------|---------------|---------|-----|-----------------------|-----------|--|-----------------------|-----------|---|------------------------------|------|--------------------|----------|----------------------|---------|-------------------------------|--|--|------------|----------------------|---------|-------------------------|--|--|----------|--------------------|------------|--|--|--|--|----------------------|--|--|----------------|----------|
| Job 533042 | Truss T12 | Truss Type Half Hip Truss | Qty 1 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | 17586185 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Builders FirstSource Lake City FL 32055 | | Job Reference (optional) 7 350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 16:42:25 2013 Page 1 ID IK8sRfB21Lw3zI8BfM2tyyWso0-XCM9ImtuQ8e1IVYQ?zHHSQUkIJ_YXfnfBHCgreyBzYy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>LOADING (psf)</td> <td>SPACING</td> <td>CSI</td> <td>DEFL</td> <td>PLATES</td> <td>GRIP</td> </tr> <tr> <td>TCLL 20.0</td> <td>2-0-0</td> <td>TC 0.78</td> <td>In (loc) 0.34 12-13 >999 240</td> <td>MT20</td> <td>244/190</td> </tr> <tr> <td>TCDL 7.0</td> <td>Plates Increase 1.25</td> <td>BC 0.75</td> <td>Vert(TL) -0.34 12-13 >999 180</td> <td></td> <td></td> </tr> <tr> <td>BCLL 0.0 *</td> <td>Lumber Increase 1.25</td> <td>WB 0.96</td> <td>Horz(TL) 0.11 9 n/a n/a</td> <td></td> <td></td> </tr> <tr> <td>BCDL 5.0</td> <td>Rep Stress Incr NO</td> <td>(Matrix-M)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Code FBC2010/TP12007</td> <td></td> <td></td> <td>Weight: 159 lb</td> <td>FT = 20%</td> </tr> </table> | | | | | | | LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP | TCLL 20.0 | 2-0-0 | TC 0.78 | In (loc) 0.34 12-13 >999 240 | MT20 | 244/190 | TCDL 7.0 | Plates Increase 1.25 | BC 0.75 | Vert(TL) -0.34 12-13 >999 180 | | | BCLL 0.0 * | Lumber Increase 1.25 | WB 0.96 | Horz(TL) 0.11 9 n/a n/a | | | BCDL 5.0 | Rep Stress Incr NO | (Matrix-M) | | | | | Code FBC2010/TP12007 | | | Weight: 159 lb | FT = 20% |
| LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCLL 20.0 | 2-0-0 | TC 0.78 | In (loc) 0.34 12-13 >999 240 | MT20 | 244/190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCDL 7.0 | Plates Increase 1.25 | BC 0.75 | Vert(TL) -0.34 12-13 >999 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCLL 0.0 * | Lumber Increase 1.25 | WB 0.96 | Horz(TL) 0.11 9 n/a n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCDL 5.0 | Rep Stress Incr NO | (Matrix-M) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Code FBC2010/TP12007 | | | Weight: 159 lb | FT = 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>LUMBER</td> <td>BRACING</td> <td></td> </tr> <tr> <td>TOP CHORD 2x4 SP No.2</td> <td>TOP CHORD</td> <td>Structural wood sheathing directly applied, except end verticals</td> </tr> <tr> <td>BOT CHORD 2x4 SP No.1</td> <td>BOT CHORD</td> <td>Rigid ceiling directly applied or 3-11 11 oc bracing.</td> </tr> <tr> <td>WEBS 2x4 SP No.3</td> <td>WEBS</td> <td>1 Row at midpt 7-9</td> </tr> <tr> <td>WEDGE</td> <td></td> <td></td> </tr> <tr> <td>Left: 2x4 SYP No.3</td> <td></td> <td>MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</td> </tr> </table> | | | | | | | LUMBER | BRACING | | TOP CHORD 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied, except end verticals | BOT CHORD 2x4 SP No.1 | BOT CHORD | Rigid ceiling directly applied or 3-11 11 oc bracing. | WEBS 2x4 SP No.3 | WEBS | 1 Row at midpt 7-9 | WEDGE | | | Left: 2x4 SYP No.3 | | MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. | | | | | | | | | | | | | | | | | | |
| LUMBER | BRACING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOP CHORD 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied, except end verticals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOT CHORD 2x4 SP No.1 | BOT CHORD | Rigid ceiling directly applied or 3-11 11 oc bracing. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEBS 2x4 SP No.3 | WEBS | 1 Row at midpt 7-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEDGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Left: 2x4 SYP No.3 | | MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>REACTIONS (lb/size) 9=1519/0-3-8 (min. 0-2-2) 2=1447/0-3-8 (min. 0-2-0) Max Horz 2=183(LC 8) Max Uplift 9=1503(LC 5) 2=1302(LC 5) Max Grav 9=1799(LC 2) 2=1715(LC 2)</p> <p>FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2597/2108, 3-17=-2094/1812, 17 18=-2094/1812 4-18=-2094/1812 4-19=-2769/2352, 19-20=-2769/2352 20-21=-2769/2352, 5-21=-2769/2352 5-22=-2059/1740 6-22=-2059/1740, 6-23=-2059/1740, 7-23=-2059/1740, 8-9=-251/175 BOT CHORD 2-13=-1784/2065, 13-27=-2328/2768, 27-28=-2328/2768, 28-29=-2328/2768, 12-29=-2328/2768, 12-30=-2194/2635, 11-30=-2194/2635, 11-31=-2194/2635, 31-32=-2194/2635 32-33=-2194/2635, 10-33=-2194/2635, 10-34=-1414/1710, 34-35=-1414/1710, 35-36=-1414/1710 36-37=-1414/1710, 9-37=-1414/1710 WEBS 3-13=-951/975, 4-13=-954/740, 5-12=-251/300, 5-10=-914/719 7-10=-885/948, 7-9=-2236/1846</p> <p>NOTES (12-14) 1) Unbalanced roof live loads have been considered for this design. 2) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II, Exp C, End GCpl=0.18; MWFPS (envelope) porch left and right exposed: Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding 4) All plates are 4x5 MT20 unless otherwise indicated. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1503, 2=1302. 9) 'Semi-rigid pitchbreaks including heels. Member end fixity model was used in the analysis and design of this truss 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 111 lb up at 7-0-0, 87 lb down and 111 lb up at 9-0-12, 87 lb down and 111 lb up at 11-0-12, 87 lb down and 111 lb up at 13-0-12, 87 lb down and 111 lb up at 15-0-12, 87 lb down and 111 lb up at 17-0-12, 87 lb down and 111 lb up at 19-0-12, 87 lb down and 111 lb up at 21-0-12, 87 lb down and 111 lb up at 23-0-12, 87 lb down and 111 lb up at 25-0-12, and 87 lb down and 111 lb up at 27-0-12, and 87 lb down and 111 lb up at 29-0-12 on top chord and 259 lb down and 370 lb up at 7-0-0, 50 lb down and 59 lb up at 9-0-12, 50 lb down and 59 lb up at 11-0-12, 50 lb down and 59 lb up at 13-0-12, 50 lb down and 59 lb up at 15-0-12, 50 lb down and 59 lb up at 17-0-12, 50 lb down and 59 lb up at 19-0-12, 50 lb down and 59 lb up at 21-0-12, 50 lb down and 59 lb up at 23-0-12, 50 lb down and 59 lb up at 25-0-12, and 50 lb down and 59 lb up at 27-0-12, and 50 lb down and 59 lb up at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Continued on page 2



December 5, 2013

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Julius Lee PE
1109 Coastal Bay
Boynton Beach, FL 33435

| | | | | | | |
|--|--------------|--|----------|---|--|---|
| Job 533042 | Truss T13 | Truss Type Hip Truss | Qty 1 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | I7586186 |
| Builders FirstSource Lake City FL 32055 | | | | | Job Reference (optional) 7.350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:42:27 2013 Page 1 ID IK8sRfB21LwI3zI8BfM2tyVWso0-UaTvARv8ylulYphp7OKIXrZBT7kE7k8yebhNwWyBzYv | |
| | | | | | | |
| Plate Offsets (X,Y). [2.0-2.0,0-1-8], [4.0-2.8,0-1-13], [5.0-2.8,0-1-13], [7.0-2.0,0-1-8] | | | | | | |
| LOADING (psf) TCCL 20.0 TCCL 7.0 BCCL 0.0 * BCDL 5.0 | | SPACING Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2010/TPI2007 | | CSI TC 0.31 BC 0.42 WB 0.27 (Matrix-M) | | DEFL in (loc) l/defl L/d Vert(LL) 0.06 12-13 >999 240 Vert(TL) -0.10 12-13 >999 180 Horiz(TL) 0.07 7 n/a n/a |
| PLATES MT20 | | GRIP 244/190 | | Weight: 85 lb FT = 20% | | |
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B2 2x8 SP No.2 WEBS 2x4 SP No.3 | | | | | | |
| BRACING TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlines BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide. </div> | | | | | | |
| REACTIONS (lb/size) 2=741/0-3-8 (min. 0-1-8) 7=741/0-3-8 (min. 0-1-8) Max Horiz 2=-119(LC 4) Max Uplift 2=-416(LC 9) 7=-416(LC 9) Max Grav 2=877(LC 2) 7=877(LC 2) | | | | | | |
| FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-3=-1068/532, 3-4=-1179/658, 4-5=-927/587 5-6=-1179/666, 6-7=-1068/541 BOT CHORD 2-14=-660/1200, 12-13=-771/1428 11 12=-473/927 10-11=-678/1428 7-9=-569/1200 WEBS 3-12=-525/309, 4-12=-271/450, 5-11=-277/450, 6-11=-525/292 | | | | | | |
| NOTES (11-13) 1) Unbalanced roof live loads have been considered for this design 2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf BCDL=3.0psf h=18ft; Cat. II Exp C, Encl. GCpt=0.18, MWFRS (envelope) 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 2=416 7=416. 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 97 lb up at 7-0-0, and 72 lb down and 97 lb up at 7-8-0 on top chord and 284 lb down and 212 lb up at 7-0-0 and 284 lb down and 212 lb up at 7-7-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B) 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB. 13) Truss Design Engineer: Julius Lee PE: Florida P.E. License No. 34869 Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 | | | | | | |
| LOAD CASE(S) Standard 1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-4=-44, 4-5=-44, 5-8=-44, 14-15=-10, 10-13=-10 9-18=-10 Concentrated Loads (lb) Vert: 4=-59(B) 5=-59(B) 12=-227(B) 11=-227(B) | | | | | | |



December 5,2013

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Julius Lee PE
 1109 Coastal Bay
 Boynton Beach, FL 33435

| | | | | | | |
|---|--------------|----------------------------|----------|----------|---|----------|
| Job 533042 | Truss T15 | Truss Type COMMON TRUSS | Qty 1 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | I7586188 |
| Builders FirstSource Lake City FL 32055 | | | | | 7.350 s Sep 27 2012 MITek Industries Inc. Thu Dec 05 16:42:29 2013 Page 1 | |
| | | | | | Job Reference (optional) ID IK8sRfB21Lwi3zI8BfM2tyWso0-Qzbgb7xOUN8Tn6rCEpMDcGfT2xRtThSF6vAU_PyBzYU | |

Scale: 3/8"=1'

| | | | | |
|--|----------------------|------------|-----------------------------|------------------------|
| Plate Offsets (X,Y) [2-0-2-0,0-1-8], [4-0-2-0,0-1-8] | | | | |
| LOADING (psf) | SPACING 2-0-0 | CSI | DEFL in (loc) l/defl L/d | PLATES GRIP |
| TCLL 20.0 | Plates Increase 1.25 | TC 0.56 | Vert(LL) -0.04 5-8 >999 240 | MT20 244/190 |
| TCDL 7.0 | Lumber Increase 1.25 | BC 0.34 | Vert(TL) -0.08 5-8 >999 180 | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.09 | Horz(TL) 0.01 4 n/a n/a | |
| BCDL 5.0 | Code FBC2010/TPI2007 | (Matrix-M) | | Weight: 59 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SYP No.3, Right: 2x4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-14 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=395/0-3-8 (min. 0-1-8) 2=455/0-3-8 (min. 0-1-8)

Max Horz 2=137(LC 11)

Max Uplift 4=118(LC 13) 2=142(LC 12)

Max Grav 4=489(LC 2), 2=542(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1099/465, 3-4=-1081/546

BOT CHORD 2-5=-979/1957 4-5=-1114/1974

NOTES (8-10)

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

2) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCpl=0.18, MWFRS (envelope) and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members

5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (l=lb) 4=116 2=142.

7) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss

8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

9) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.

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

LOAD CASE(S) Standard



December 5, 2013

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Julius Lee PE
 1109 Coastal Bay
 Boynton Beach, FL 33435

| | | | | | |
|--|-------|----------------|--|-----|-------------------------------|
| Job | Truss | Truss Type | Qty | Ply | AARON SIMQUE LOT 104 PRESERVE |
| 533042 | T16 | Half Hip Truss | 1 | 1 | 17586189 |
| Builders FirstSource, Lake City FL 32055 | | | Job Reference (optional) | | |
| | | | 7.350 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 15:42:30 2013 Page 2 | | |
| | | | ID IK8sRfB21Lwi3zi8BfM2tyyWso0-u992pTx0FgHJPGQOoWIS9UBc1KixC_7OKZw1XryBzYt | | |
| LOAD CASE(S) Standard | | | | | |
| 1) Regular Lumber Increase=1.25, Plate Increase=1.25 | | | | | |
| Uniform Loads (plf) | | | | | |
| Vert: 1-3=-44, 3-5=-44, 1-6=-10 | | | | | |
| Concentrated Loads (lb) | | | | | |
| Vert: 10=-614(F) 13=-614(F) 14=-614(F) 15=-614(F) 16=-614(F) 17=-914(F) 18=-914(F) | | | | | |



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 fabrication, quality control, storage, delivery erection and bracing, consult ANSI/TPI1 Quality Criteria, D88-89 and BCS11 Building Component
 Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive Madison, WI 53719

Julius Lee PE,
 1109 Coastal Bay
 Boynton Beach, FL 33435

| | | | | | | |
|---|--------------|----------------------------|----------|----------|--|----------|
| Job 533042 | Truss V01 | Truss Type Valley Truss | Qty 1 | Ply 1 | AARON SIMQUE LOT 104 PRESERVE | I7586191 |
| Builders FirstSource Lake City FL 32055 | | | | | 7 350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:42:32 2013 Page 1 ID:IK8sRfB21LwI3zI8BfM2IyyWso0-qYHoD9zHnIX1eeanvxxwEvH3x8Vpg20hotP8bkyBzYr | |

| | | | | | |
|--|-----------------------|----------|--------------------------|-------------------------|---------|
| Plate Offsets (X,Y): [3:0-3-5,Edge], [12:0-3-5,Edge] | | | | | |
| LOADING (psf) | SPACING | CSI | DEFL | PLATES | GRIP |
| TCLL 20.0 | Plates Increase 2-0-0 | TC 0.20 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 7.0 | Lumber Increase 1.25 | BC 0.14 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.10 | Vert(TL) n/a - n/a 999 | | |
| BCDL 5.0 | Code FBC2010/TPI2007 | (Matrix) | Horz(TL) 0 01 14 n/a n/a | | |
| | | | | Weight: 177 lb FT = 20% | |

| | |
|---|---|
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP 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 <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. </div> |
|---|---|

REACTIONS All bearings 41-0-4.
 (lb) - Max Horz 1=115(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 20, 21 23 24, 19 17 16 except 25=150(LC 12) 15=148(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1 14 except 20=337(LC 25) 21=335(LC 25) 23=345(LC 26), 24=320(LC 25), 25=335(LC 21), 19=335(LC 26) 17=345(LC 25) 16=320(LC 26), 15=331(LC 22)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown

WEBS 2-25=362/237 13-15=362/237

NOTES (11-13)
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind, ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf BCDL=3.0psf h=18ft; Cat. II Exp C Encl GCpl=0 18 MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
 3) Provide adequate drainage to prevent water ponding
 4) All plates are 2x4 MT20 unless otherwise indicated
 5) Gable requires continuous bottom chord bearing.
 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf
 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 20, 21 23, 24, 19, 17 16 except (it=lb) 25=150, 15=148
 10) Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss
 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
 12) Note: Visually graded lumber designation SPP, represents new lumber design values as per SPIB.
 13) Truss Design Engineer Julius Lee PE: Florida P.E. License No. 34869 Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



December 5, 2013

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
 Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component.
 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult ANSI/TPI1 Quality Criteria D5B-87 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Julius Lee PE
 1109 Coastal Bay
 Boynton Beach FL 33435

| Job 533042 | Truss V03 | Truss Type Valley Truss | Qty 1 | Ply 1 | AARON SIMQUE - LOT 104 PRESERVE | 17586193 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------|----------|---------------------------------|----------|---|--|-------|---------|------|----------|--------|-----|--------|------|-----------|-----------------|------|---------|----------|-----|---|-----|-----|------|---------|----------|-----------------|------|---------|----------|-----|---|-----|-----|--|--|------------|-----------------|-----|---------|----------|------|----|-----|-----|--|--|----------|----------------------|--|----------|--|--|--|--|--|--|--|
| Builders FirstSource, Lake City FL 32055 | | 7.350 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 15:42:36 2013 Page 1 ID IK8sRfB21Lwi3zi8BfM2tyWso0-jVWJ3W0nrW1T7BtY8n_sPIRwiltics0HjVNMkVyBzYr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 40%;"> <p>7-6-8 7-6-8</p> <p>25-6-8 18-0-0</p> <p>33-1-0 7-6-8</p> </div> <div style="width: 50%; text-align: right;"> <p>Scale = 1:50.2</p> </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plate Offsets (X,Y): [3.0-2.0,Edge], [10.0-2.0,Edge] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">LOADING (psf)</th> <th style="width:15%;">SPACING</th> <th style="width:10%;">2-0-0</th> <th style="width:10%;">CSI</th> <th style="width:10%;">DEFL</th> <th style="width:10%;">in (loc)</th> <th style="width:10%;">l/defl</th> <th style="width:10%;">L/d</th> <th style="width:10%;">PLATES</th> <th style="width:10%;">GRIP</th> </tr> <tr> <td>TCLL 20.0</td> <td>Plates Increase</td> <td>1.25</td> <td>TC 0.20</td> <td>Vert(LL)</td> <td>n/a</td> <td>-</td> <td>n/a</td> <td>999</td> <td>MT20</td> <td>244/190</td> </tr> <tr> <td>BCDL 7.0</td> <td>Lumber Increase</td> <td>1.25</td> <td>BC 0.14</td> <td>Vert(TL)</td> <td>n/a</td> <td>-</td> <td>n/a</td> <td>999</td> <td></td> <td></td> </tr> <tr> <td>BCLL 0.0 *</td> <td>Rep Stress Incr</td> <td>YES</td> <td>WB 0.10</td> <td>Horz(TL)</td> <td>0.01</td> <td>12</td> <td>n/a</td> <td>n/a</td> <td></td> <td></td> </tr> <tr> <td>BCDL 5.0</td> <td>Code FBC2010/TPI2007</td> <td></td> <td>(Matrix)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | | | | | 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) | n/a | - | n/a | 999 | MT20 | 244/190 | BCDL 7.0 | Lumber Increase | 1.25 | BC 0.14 | Vert(TL) | n/a | - | n/a | 999 | | | BCLL 0.0 * | Rep Stress Incr | YES | WB 0.10 | Horz(TL) | 0.01 | 12 | n/a | n/a | | | BCDL 5.0 | Code FBC2010/TPI2007 | | (Matrix) | | | | | | | |
| 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) | n/a | - | n/a | 999 | MT20 | 244/190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCDL 7.0 | Lumber Increase | 1.25 | BC 0.14 | Vert(TL) | n/a | - | n/a | 999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.10 | Horz(TL) | 0.01 | 12 | n/a | n/a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCDL 5.0 | Code FBC2010/TPI2007 | | (Matrix) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:40%;"> LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 </td> <td style="width:60%;"> 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 <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide. </div> </td> </tr> </table> | | | | | | | LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP 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 <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide. </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP 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 <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide. </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REACTIONS All bearings 33-0-4, (lb) Max Horz 1=115(LC 10) Max Uplift All uplift 100 lb or less at joint(s) 1 17 18, 20, 16, 14 except 21=150(LC 12) 13=148(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1 12 except 17=333(LC 1) 18=346(LC 28) 20=319(LC 26) 21=334(LC 21), 16=346(LC 25) 14=319(LC 28), 13=331(LC 22) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FORCES (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-21=361/237 11-13=361/237 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTES (11-13) 1) Unbalanced roof live loads have been considered for this design 2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph, TCCL=4.2psf, BCDL=3.0psf, h=18ft, Cat. II Exp C Encl GCpi=0.18 MWFRS (envelope) and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 4) All plates are 2x4 MT20 unless otherwise indicated 5) Gable requires continuous bottom chord bearing. 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 17 18, 20, 16 14 except (jt=lb) 21=150, 13=148. 10) Semi-rigid pitchbreaks including heels Member end fixity model was used in the analysis and design of this truss 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code 12) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB. 13) Truss Design Engineer: Julius Lee PE, Florida P.E. License No. 34869 Address: 1109 Coastal Bay Blvd Boynton Beach, FL 33435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOAD CASE(S) Standard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



December 5, 2013

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.
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Julius Lee PE
 1109 Coastal Bay
 Boynton Beach, FL 33435

| | | | | | | |
|--|--------------|--|----------|----------|---------------------------------|----------|
| Job 533042 | Truss V05 | Truss Type Valley Truss | Qty 1 | Ply 1 | AARON SIMQUE - LOT 104 PRESERVE | 17586195 |
| Builders FirstSource Lake City, FL 32055 | | 7 350 s Sep 27 2012 MITek Industries, Inc. Thu Dec 05 15:42:39 2013 Page 1 ID IK8sRfB21Lwi3z18BIM2IyyWso0-7uCSHy2g7RP2_fc7qvXZ0N3GBYuQpDkjPTb0LqyBzYx | | | | |

| | | | | |
|---|---|---|---|--|
| Plate Offsets (X,Y): [3-0-2-0,Edge], [7-0-2-0,Edge] | | | | |
| LOADING (psf) TCLL 20.0 TCDL 7.0 BCCL 0.0 * BCDL 5.0 | SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007 | CSI TC 0.20 BC 0.14 WB 0.10 (Matrix) | DEFL in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a n/a 999 Horz(TL) 0.00 9 n/a n/a | PLATES MT20 GRIP 244/190 Weight: 104 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS All bearings 25-0-4.

(lb) - Max Horz 1=115(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1 13 14, 11 except 15=150(LC 12) 10=148(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1 9 except 13=349(LC 25) 14=315(LC 25) 15=333(LC 21) 11=315(LC 26), 10=331(LC 22)

FORCES (lb) Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.

WEBS 2-15=-361/237 8-10=-361/237

NOTES (11-13)

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

2) Wind ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft, Cat. II Exp C, Encl GCpl=0.18, MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) All plates are 2x4 MT20 unless otherwise indicated

5) Cable requires continuous bottom chord bearing

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

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members with BCDL = 5.0psf

8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 13, 14 11 except (lt=lb) 15=150, 10=148.

10) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.

11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

12) Note: Visually graded lumber designation SPp, represents new lumber design values as per SPIB.

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

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

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

LOAD CASE(S) Standard

December 5, 2013

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Julius Lee PE,
1109 Coastal Bay
Boynton Beach, FL 33435

| | | | | | | |
|---|--------------|--|----------|----------|---------------------------------|----------|
| Job 533042 | Truss V07 | Truss Type Valley Truss | Qty 1 | Ply 1 | AARON SIMQUE - LOT 104 PRESERVE | I7586197 |
| Builders FirstSource Lake City FL 32056 | | 7.350 s Sep 27 2012 Mitek Industries, Inc. Thu Dec 05 15:42:42 2013 Page 1 | | | | |
| ID IK8sRfB21LwI3zI8BfM2IyyWso0-YTtaKa5YQMncr6LV15Ge0hmYAxMOZu95Rqgy9yBzYh | | | | | | |

Scale = 1:28.6

| | | | | | |
|--|----------------------|-------|----------|-------------------------|------------------------|
| Plate Offsets (X,Y) [3.0-2.0,Edge], [5.0-2.0,Edge] | | | | | |
| LOADING (psf) | SPACING | 2-0-0 | CSI | DEFL | PLATES GRIP |
| TCLL 20.0 | Plates Increase | 1.25 | TC 0.19 | in (loc) l/defl L/d | MT20 244/190 |
| TCDL 7.0 | Lumber Increase | 1.25 | BC 0.12 | Vert(LL) n/a n/a 999 | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.07 | Vert(TL) n/a - n/a 999 | |
| BCDL 5.0 | Code FBC2010/TPI2007 | | (Matrix) | Horz(TL) 0.00 7 n/a n/a | |
| | | | | | Weight: 67 lb FT = 20% |

| | |
|--|--|
| <p>LUMBER</p> <p>TOP CHORD 2x4 SP No.2</p> <p>BOT CHORD 2x4 SP No.2</p> <p>OTHERS 2x4 SP No.3</p> <p>REACTIONS All bearings 17-0-4.</p> <p>(lb) Max Horz 1=-115(LC 8)</p> <p>Max Uplift All uplift 100 lb or less at joint(s) 1 7 9 except 11=-152(LC 12) 8=-151(LC 13)</p> <p>Max Grav All reactions 250 lb or less at joint(s) 1 7 except 9=258(LC 24) 11=336(LC 21) 8=335(LC 22)</p> <p>FORCES (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.</p> <p>WEBS 2-11=-361/240, 6-8=-361/240</p> <p>NOTES (10-12)</p> <p>1) Unbalanced roof live loads have been considered for this design</p> <p>2) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C End GCp=0.18, MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</p> <p>3) Provide adequate drainage to prevent water ponding.</p> <p>4) Gable requires continuous bottom chord bearing</p> <p>5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</p> <p>6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf</p> <p>7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi</p> <p>8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 7 9 except (1=lb) 11=152, 8=151</p> <p>9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.</p> <p>10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code</p> <p>11) Note: Visually graded lumber designation SP, represents new lumber design values as per SPIB.</p> <p>12) Truss Design Engineer: Julius Lee PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435</p> <p>LOAD CASE(S) Standard</p> | <p>BRACING</p> <p>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</p> </div> |
|--|--|

December 5, 2013

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1109 Coastal Bay
Boynton Beach, FL 33435

| | | | | | | |
|--|--------------|----------------------------|----------|----------|---|----------|
| Job 533042 | Truss V09 | Truss Type Valley Truss | Qty 1 | Ply 1 | AARON SIMQUE - LOT 104 PRESERVE Job Reference (optional) 7 350 s Sep 27 2012 MiTek Industries, Inc. Thu Dec 05 15:42:44 2013 Page 1 ID IK8sRfB21LwI3zI8BfM2tyWso0-U5?LIIF6oyz1K4QV4cS7kJRm6IzdqUUoSZIIn01yBzYf | I7586199 |
| Builders FirstSource, Lake City FL 32055 | | | | | | |

| | | | | |
|--|--|--|---|---|
| LOADING (psf) TCLL 20.0 TCCL 7.0 BCLL 0.0 * BCDL 5.0 | SPACING 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2010/TPI2007 | CSI TC 0.21 BC 0.12 WB 0.05 (Matrix) | DEFL in (loc) l/defl L/d Vert(LL) n/a n/a 999 Vert(TL) n/a n/a 999 Horz(TL) 0 00 3 n/a n/a | PLATES GRIP MT20 244/190 Weight: 32 lb FT = 20% |
|--|--|--|---|---|

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP 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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=110/9-0-4 (min. 0-1-8) 3=110/9-0-4 (min. 0-1-8) 4=219/9-0-4 (min. 0-1-8)

Max Horz 1=67(LC 9)

Max Uplift 1=39(LC 12) 3=46(LC 13) 4=43(LC 12)

Max Grav 1=131(LC 2) 3=131(LC 2), 4=257(LC 2)

FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.

NOTES (9-11)

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind ASCE 7 10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp C, Encl GCp=0.18 MWFRS (envelope) and C-C Exterior(2) zone C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 3, 4
- 8) 'Semi-rigid pitchbreaks including heels' Member end fixity model was used in the analysis and design of this truss.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code
- 10) Note: Visually graded lumber designation SPB, represents new lumber design values as per SPIB.
- 11) Truss Design Engineer: Julius Lee, PE, Florida P E License No. 34869 Address: 1109 Coastal Bay Blvd. Boynton Beach FL 33435

LOAD CASE(S) Standard



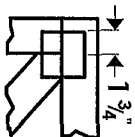
December 5, 2013

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Oroff Drive, Madison, WI 53719

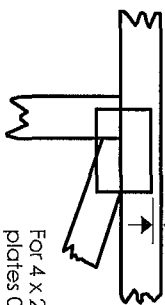
Julius Lee PE,
1109 Coastal Bay
Boynton Beach, FL 33435

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated
Dimensions are in ft-in-sixteenths
Apply plates to both sides of truss and fully embed teeth



For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss

This symbol indicates the required direction of slots in connector plates

* Plate location details available in Mitek 20/20 software or upon request.

PLATE SIZE

4 X 4

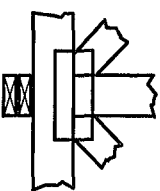
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output Use T, I or Eliminator bracing if indicated

BEARING



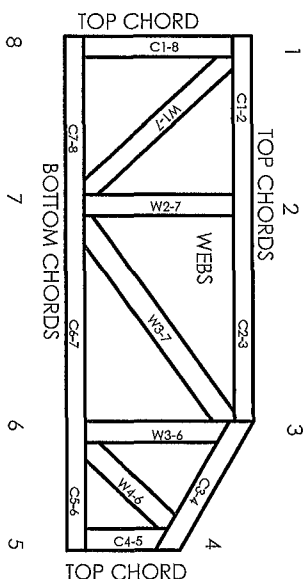
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction
DSB-89. Design Standard for Bracing.
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports

ESR-1311, ESR-1352, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

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General Safety Notes

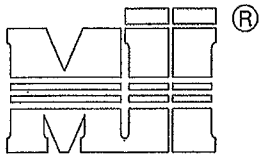
Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cuf members to bear tightly against each other
6. Place plates on each face of truss at each joint and embed fully. Knots and ware of joint locations are regulated by ANSI/TPI 1
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size and in all respects, equal to or better than that specified
13. Top chords must be sheathed or purlins provided at spacing indicated on design
14. Bottom chords require lateral bracing at 10 ft spacing or less if no ceiling is installed, unless otherwise noted
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer
17. Install and load vertically unless indicated otherwise
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria

August 10, 2010

T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

ST - T-BRACE 2



MiTek Industries, Inc.

MiTek Industries, Chesterfield, MO Page 1 of 1

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

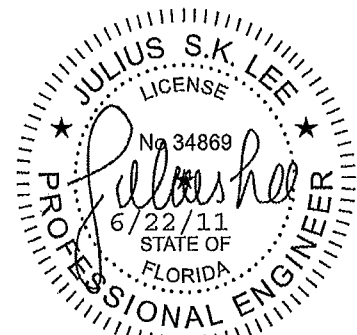
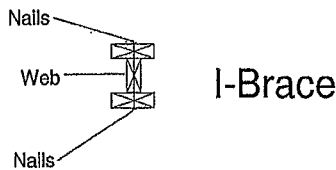
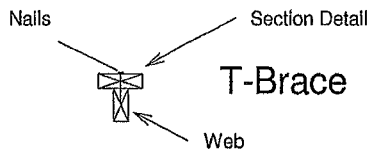
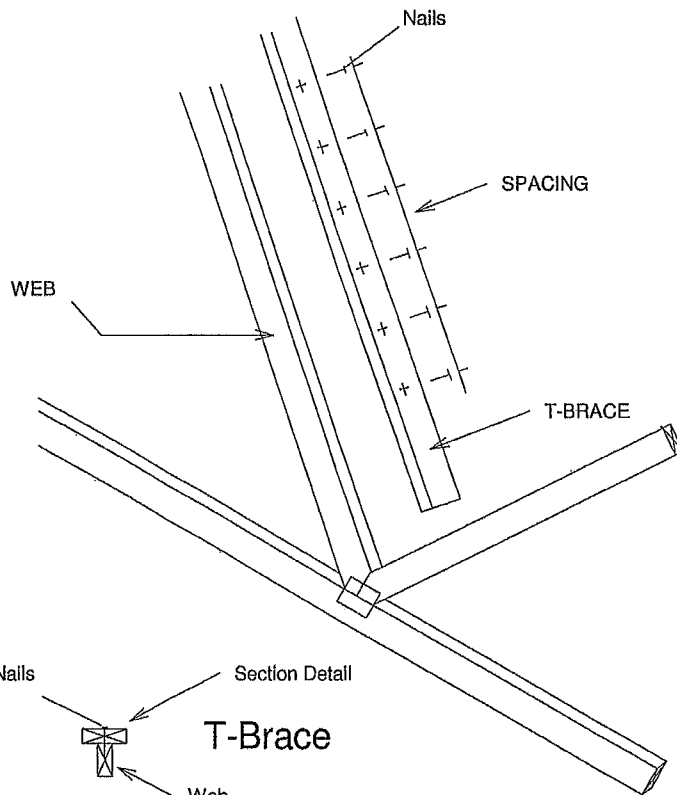
| Nailing Pattern | | |
|--|-----------|--------------|
| T-Brace size | Nail Size | Nail Spacing |
| 2x4 or 2x6 or 2x8 | 10d | 6" o.c. |
| Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies) | | |

| Brace Size for One-Ply Truss | | |
|---|-------------|-------------|
| Specified Continuous Rows of Lateral Bracing | | |
| Web Size | 1 | 2 |
| 2x3 or 2x4 | 2x4 T-Brace | 2x4 I-Brace |
| 2x6 | 2x6 T-Brace | 2x6 I-Brace |
| 2x8 | 2x8 T-Brace | 2x8 I-Brace |

| Brace Size for Two-Ply Truss | | |
|---|-------------|-------------|
| Specified Continuous Rows of Lateral Bracing | | |
| Web Size | 1 | 2 |
| 2x3 or 2x4 | 2x4 T-Brace | 2x4 I-Brace |
| 2x6 | 2x6 T-Brace | 2x6 I-Brace |
| 2x8 | 2x8 T-Brace | 2x8 I-Brace |

| Brace Size for Two-Ply Truss | | |
|---|-------------|-------------|
| Specified Continuous Rows of Lateral Bracing | | |
| Web Size | 1 | 2 |
| 2x3 or 2x4 | 2x4 T-Brace | 2x4 I-Brace |
| 2x6 | 2x6 T-Brace | 2x6 I-Brace |
| 2x8 | 2x8 T-Brace | 2x8 I-Brace |

T-Brace / I-Brace must be same species and grade (or better) as web member.



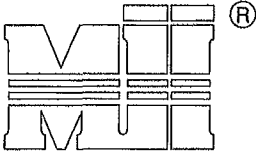
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BOYNTON BC, FL 33435

JANUARY 1, 2009

LATERAL TOE-NAIL DETAIL

ST-TOENAIL_SP

MiTek Industries, Chesterfield, MO Page 1 of 1



MiTek Industries, Inc.

NOTES

1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.)
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

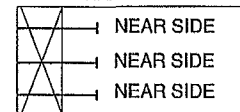
| | DIAM. | SYP | DF | HF | SPF | SPF-S |
|------------|-------|-------|------|------|------|-------|
| 3.5" LONG | .131 | 88.0 | 80.6 | 69.9 | 68.4 | 59.7 |
| | .135 | 93.5 | 85.6 | 74.2 | 72.6 | 63.4 |
| | .162 | 108.8 | 99.6 | 86.4 | 84.5 | 73.8 |
| 3.25" LONG | .128 | 74.2 | 67.9 | 58.9 | 57.6 | 50.3 |
| | .131 | 75.9 | 69.5 | 60.3 | 59.0 | 51.1 |
| | .148 | 81.4 | 74.5 | 64.6 | 63.2 | 52.5 |

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

SIDE VIEW

3 NAILS



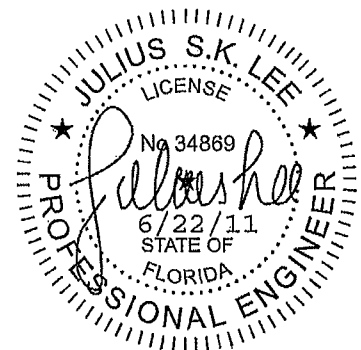
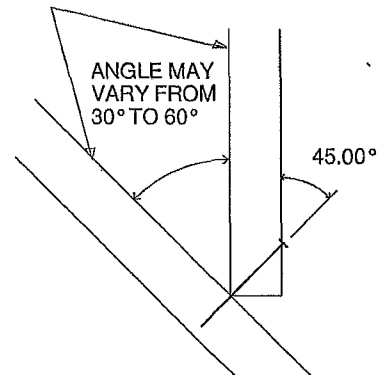
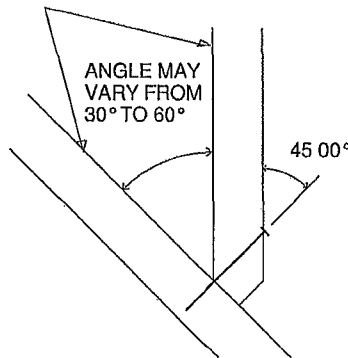
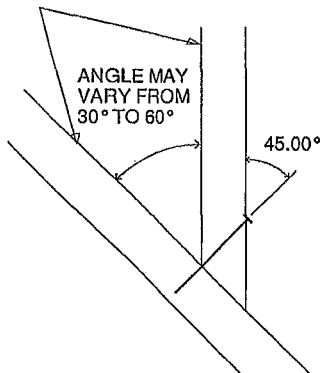
VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED

EXAMPLE

(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

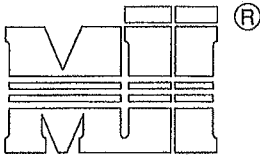


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FEBRUARY 14, 2012

STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

ST-PIGGY-7-10



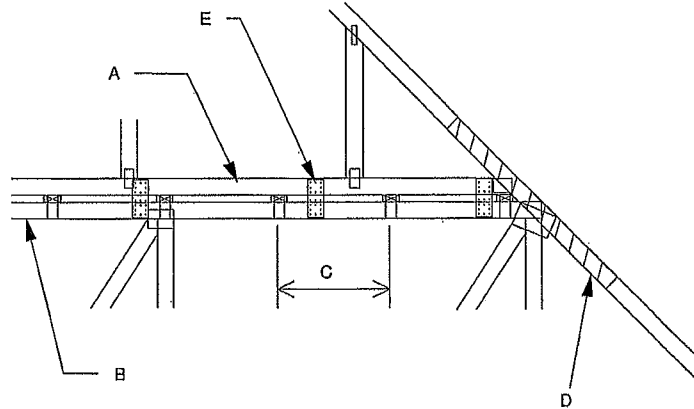
MITek Industries, Inc.

MITek Industries, Chesterfield, MO

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E
MAX MEAN ROOF HEIGHT = 30 FEET
MAX TRUSS SPACING = 24" O.C.
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-10
DURATION OF LOAD INCREASE : 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES
TRANSFERING DRAG LOADS (SHEAR TRUSSES)
ADDITIONAL CONSIDERATIONS BY BUILDING
ENGINEER/DESIGNER ARE REQUIRED.

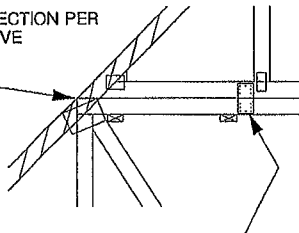
- A - PIGGYBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED
- B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.5" NAILS EACH.
- D - 2 X 4'-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND
 - 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
 - 2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.
- E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES, ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)



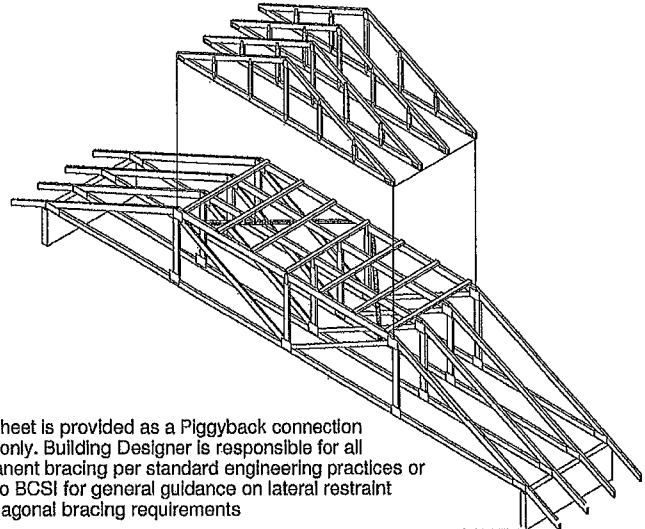
WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS*

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

SCAB CONNECTION PER NOTE D ABOVE

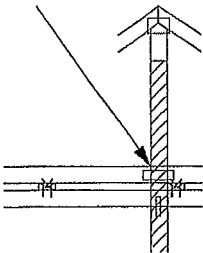


FOR ALL WIND SPEEDS, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE



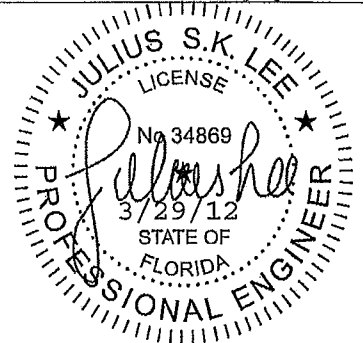
This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK

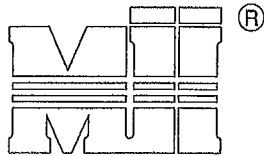


FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- 2) ATTACH 2 x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- 3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@15'). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN



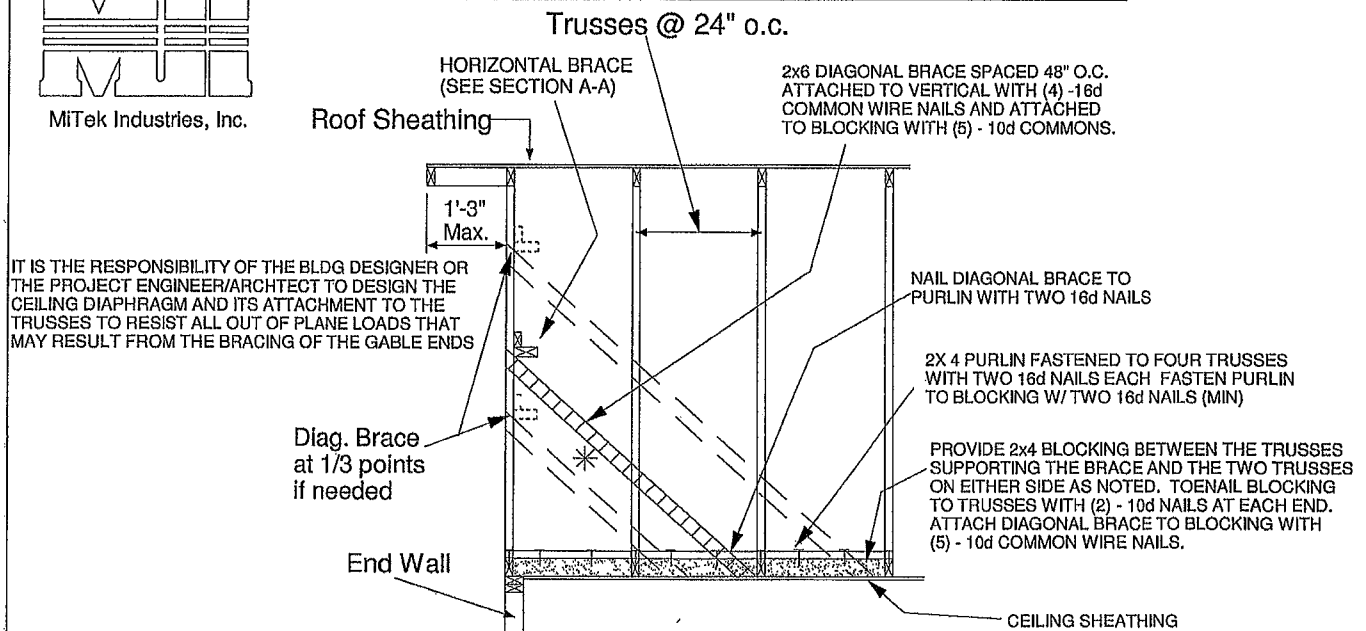
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ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

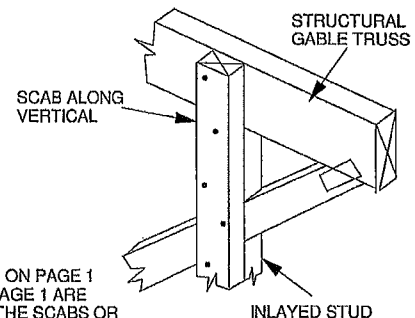
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED.

METHOD 1. ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

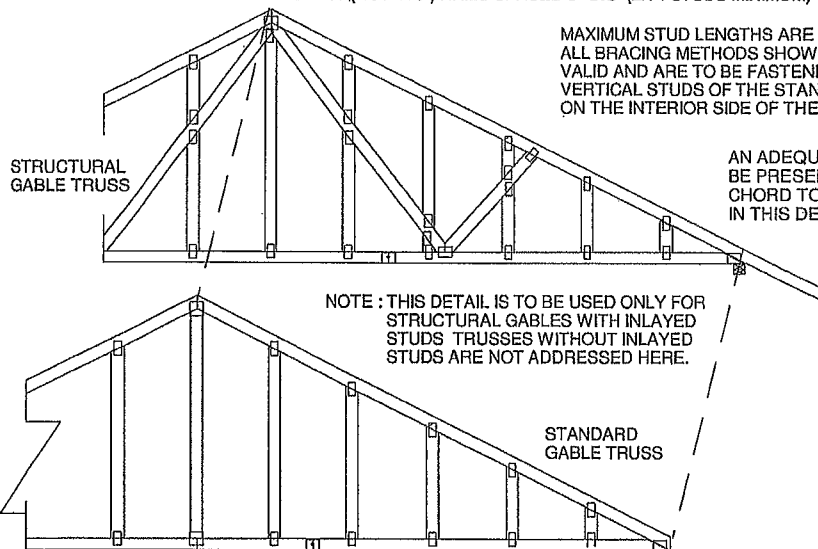
METHOD 2. ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

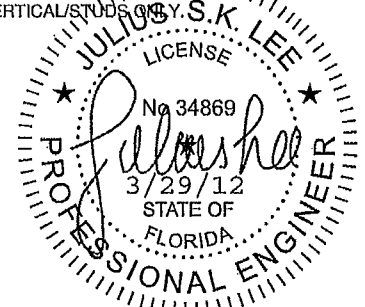
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (.131" X 3") NAILS SPACED 6" O.C
- FOR WIND SPEEDS GREATER 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (.131" X 3") NAILS SPACED 6" O.C (2X 4 STUDS MINIMUM)



MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1
ALL BRACING METHODS SHOWN ON PAGE 1 ARE
VALID AND ARE TO BE FASTENED TO THE SCABS OR
VERTICAL STUDS OF THE STANDARD GABLE TRUSS
ON THE INTERIOR SIDE OF THE STRUCTURE.

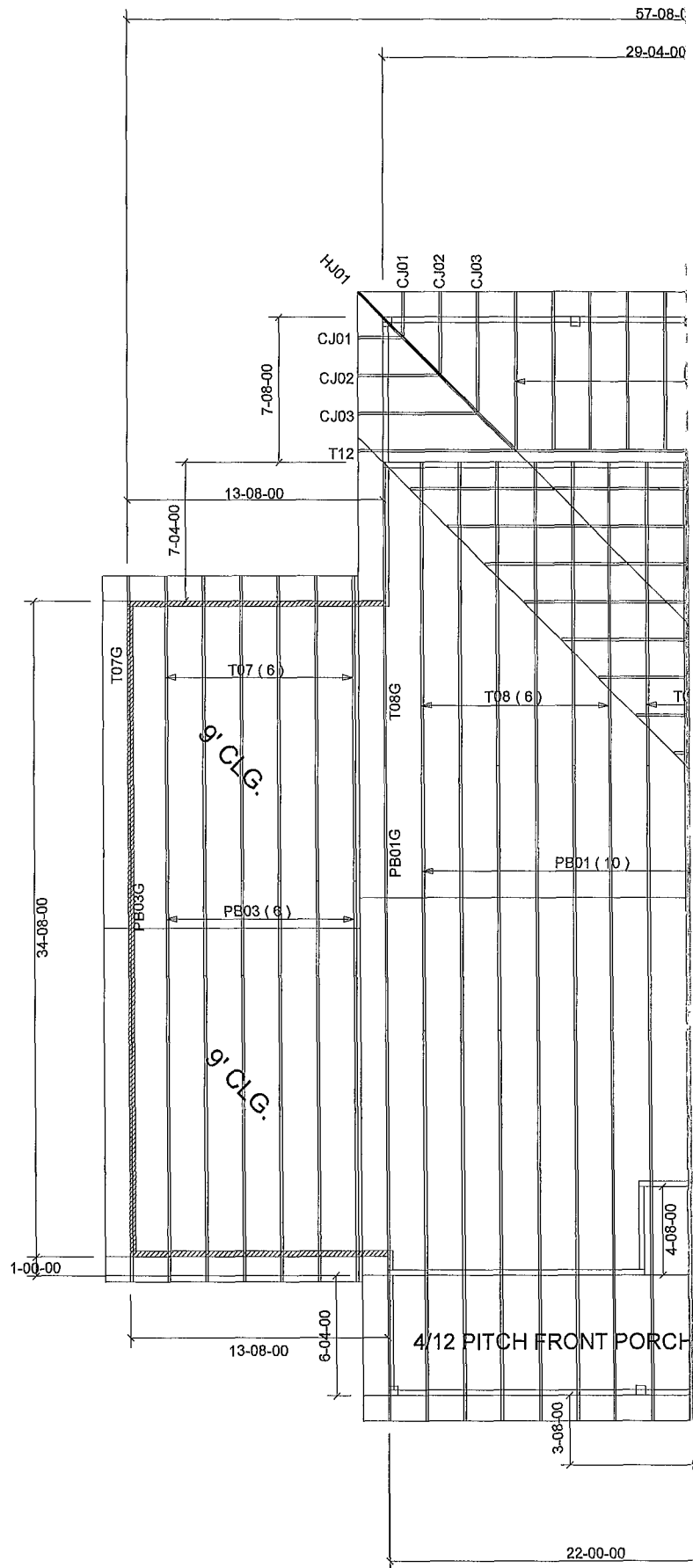


AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL STUDS ONLY.



1109 COASTAL BAY
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8/12 PITCH
16" O/H



MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, WEYERH