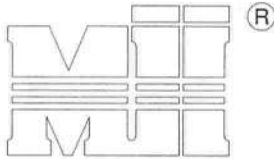


JANUARY 1, 2009

## Standard Gable End Detail

ST-GE120-001



MiTek Industries, Inc.

Typical 2x4 L-Brace Nailed To  
2x Verticals W/10d Nails, 6" o.c.

Vertical Stud

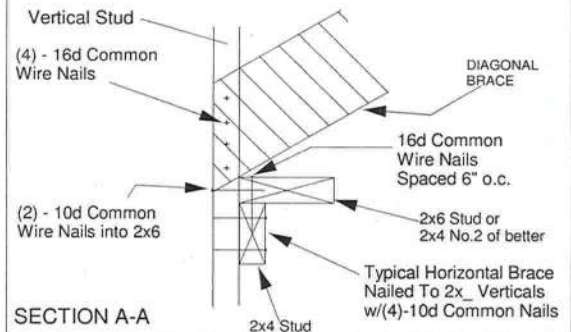
SECTION B-B

TRUSS GEOMETRY AND CONDITIONS  
SHOWN ARE FOR ILLUSTRATION ONLY.

Varies to Common Truss

SEE INDIVIDUAL MITTEK ENGINEERING  
DRAWINGS FOR DESIGN CRITERIA

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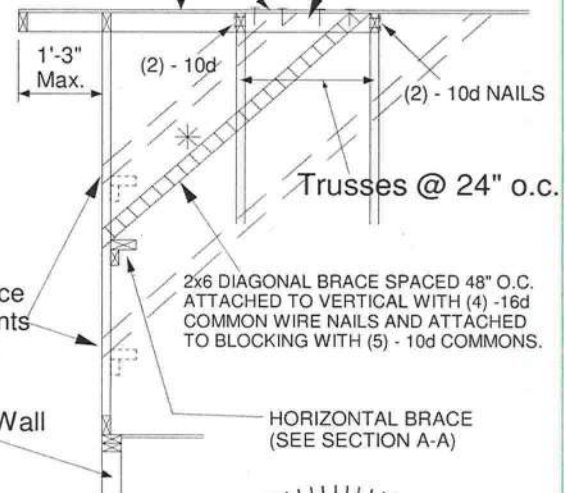


SECTION A-A

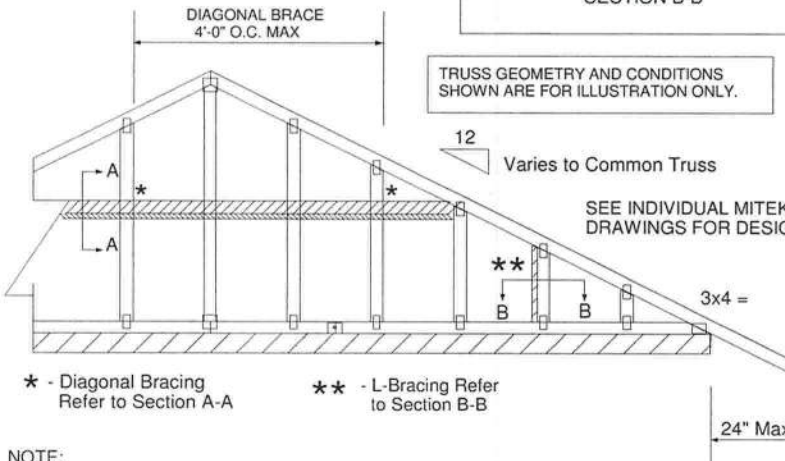
PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d COMMON WIRE NAILS.

(4) - 8d NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

Roof Sheathing



Diag. Brace at 1/3 points if needed



\* - Diagonal Bracing Refer to Section A-A  
\*\* - L-Bracing Refer to Section B-B

## NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS  $L/240$ .
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
			Maximum Stud Length			
2x4 SPF Std/Stud	12" O.C.	4-3-2	4-7-6	6-6-5	8-6-3	12-9-6
2x4 SPF Std/Stud	16" O.C.	3-10-7	4-0-0	5-7-13	7-8-14	11-7-5
2x4 SPF Std/Stud	24" O.C.	3-2-0	3-3-2	4-7-6	6-4-0	9-6-0

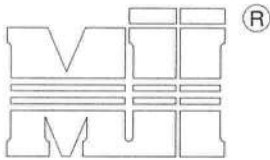
- \* Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 120 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
CATEGORY II BUILDING  
EXPOSURE B or C  
ASCE 7-98, ASCE 7-02, ASCE 7-05  
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.  
CONNECTION OF BRACING IS BASED ON MWFRS.



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6/22/11

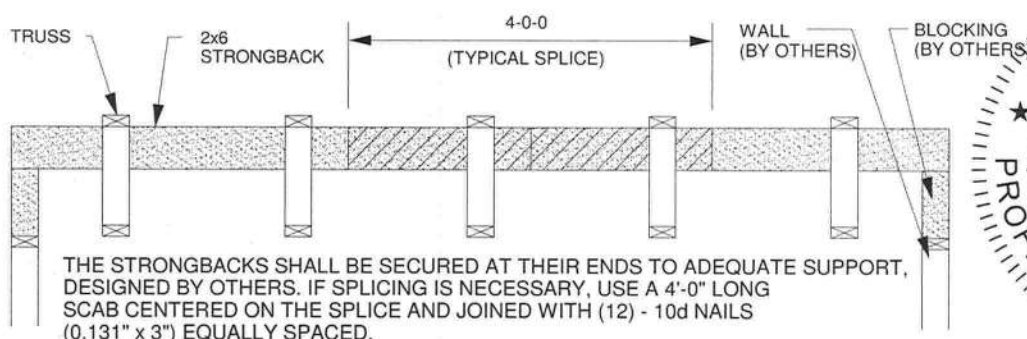
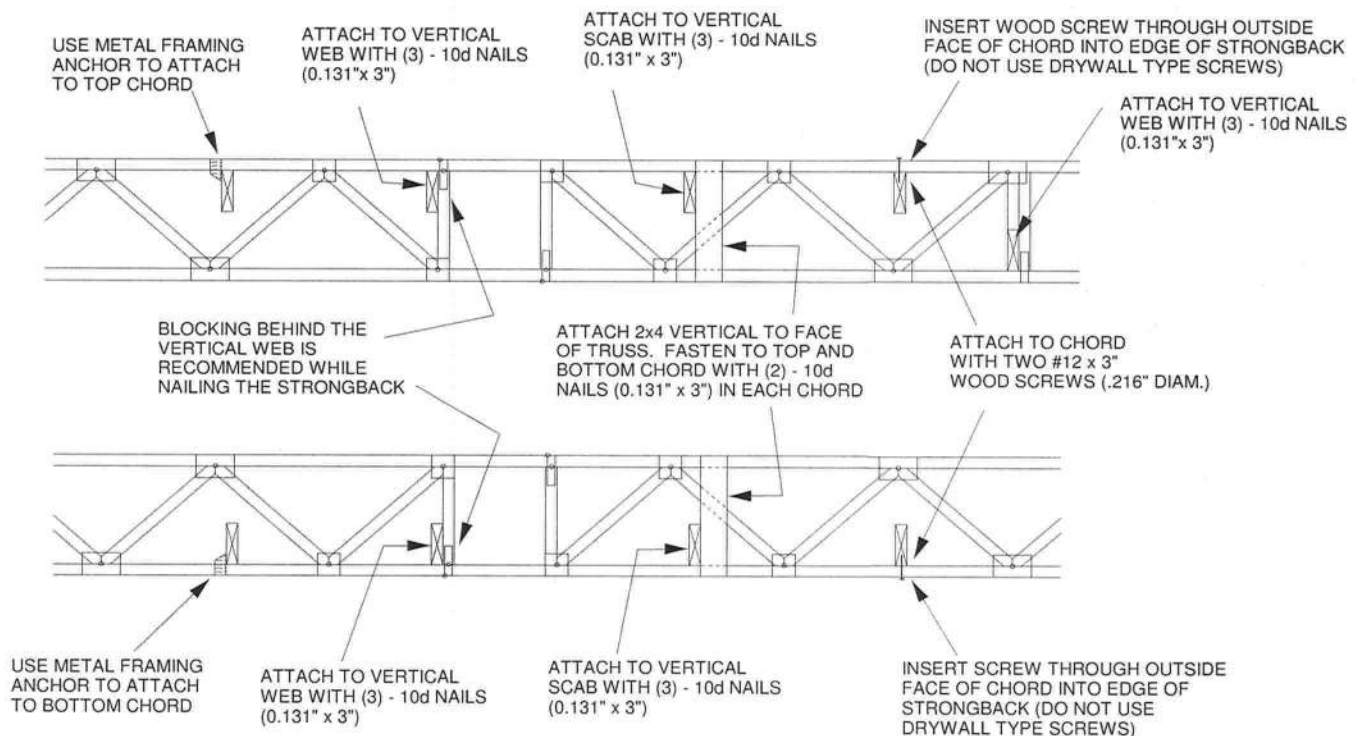


MiTek Industries, Inc.

TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

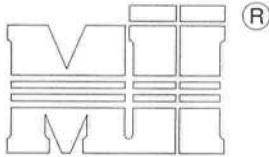
NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



ALTERNATE METHOD OF SPLICING:  
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d NAILS (0.131" x 3") STAGGERED AND EQUALLY SPACED.  
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)



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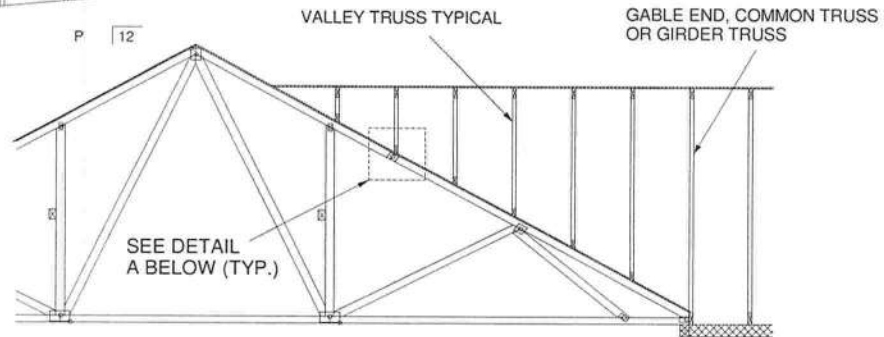
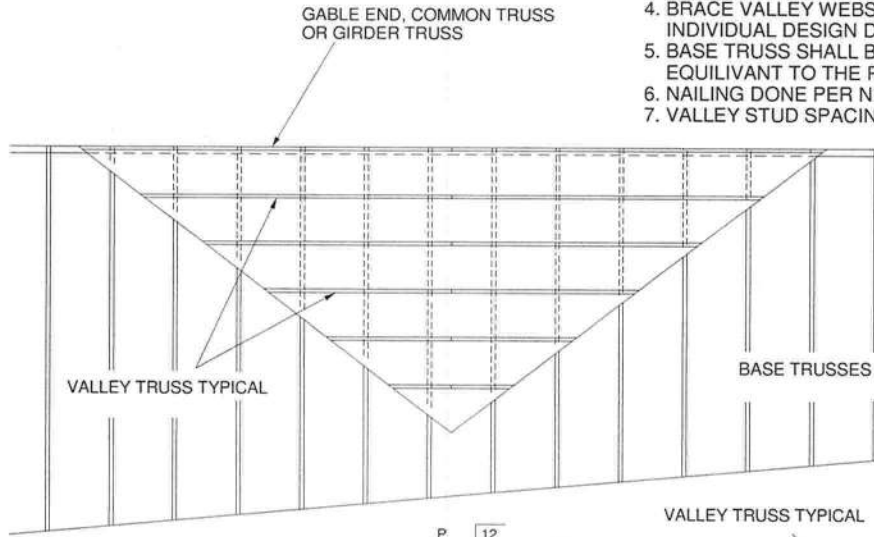


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MiTek Industries, Chesterfield, MO Page 1 of 1

## GENERAL SPECIFICATIONS

1. NAIL SIZE = 3" X 0.131" = 10d
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT  
DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUIVALENT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SECURE VALLEY TRUSS  
W/ ONE ROW OF 10d  
NAILS 6" O.C.

ATTACH 2x4 CONTINUOUS NO.2 SYP  
TO THE ROOF W/ TWO USP WS3 (1/4" X 3")  
WOOD SCREWS INTO EACH BASE TRUSS.

DETAIL A  
(NO SHEATHING)  
N.T.S.

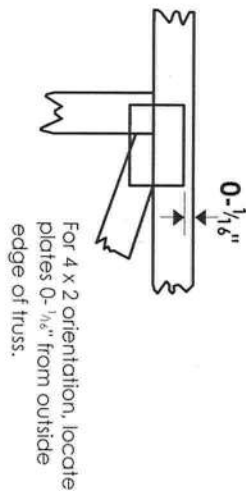
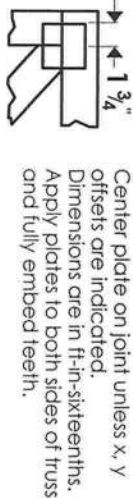
WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05  
MAXIMUM WIND SPEED = 146 MPH  
MAX MEAN ROOF HEIGHT = 30 FEET  
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12  
CATEGORY II BUILDING  
EXPOSURE C  
WIND DURATION OF LOAD INCREASE : 1.60  
MAX TOP CHORD TOTAL LOAD = 50 PSF  
MAX SPACING = 24" O.C. (BASE AND VALLEY)  
MINIMUM REDUCED DEAD LOAD OF 6 PSF  
ON THE TRUSSES



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# Symbols

## PLATE LOCATION AND ORIENTATION



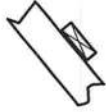
\* Plate location details available in **Mitek 20/20** software or upon request.

## PLATE SIZE

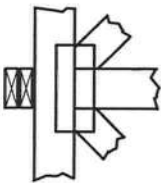
**4 X 4**

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

## LATERAL BRACING LOCATION



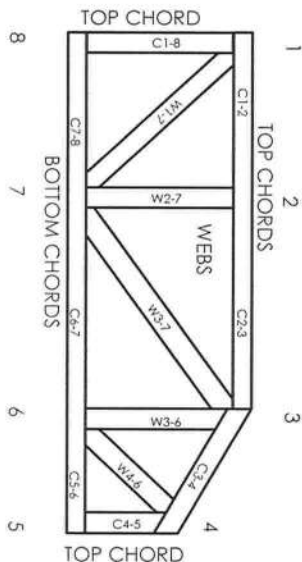
## BEARING



## 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



**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-S243, 9604B, 9730, 95-43, 96-31, 9667A  
NER-487, NER-561  
95110, 84-32, 96-67, ER-3907, 9432A

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**1109 Coastal Bay Blvd.**  
**Boynton, FL 33435**

# 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 stock 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. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and warps 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.



Job 397359	Truss T11	Truss Type HIP	Qty 1	Ply 2	BLAKE CONST. - LUNDE ADDITION	15139002
Builders FrstSource, Lake City, FL 32055					Job Reference (optional) 7,250 s Aug 25 2011 Mitek Industries, Inc. Mon Dec 19 07:42:44 2011 Page 1 ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-fGSKERh7ro8g_fmKs7F081xlgdqOwlZ15_gTb4y7TGf	

Scale = 1:31.6

LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	SPACING Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr NO Code FBC2007/TP12002	CSI TC 0.78 BC 0.68 WB 0.27 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.11 12 >999 360 Vert(TL) -0.21 12 >999 240 Horz(TL) 0.06 9 n/a n/a Wind(LL) 0.09 12 >999 240	PLATES MT20	GRIP 244/190  Weight: 237 lb FT = 20%
------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------	--------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	----------------	------------------------------------------------

**LUMBER**  
TOP CHORD 2 X 4 SYP No.1D \*Except\*  
T2: 2 X 4 SYP No.2  
BOT CHORD 2 X 6 SYP No.1D  
WEBS 2 X 4 SYP No.3  
SLIDER Left 2 X 6 SYP No.1D 1-8-7, Right 2 X 6 SYP No.1D 1-8-7

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

**REACTIONS** (lb/size) 1=5226/0-6-3, 9=4574/0-6-3  
Max Horz 1=37(LC 5)  
Max Uplift 1=1364(LC 5), 9=1221(LC 6)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-7468/2005, 2-3=-7448/2019, 3-4=-7240/2037, 4-15=-7533/2134, 5-15=-7532/2134, 5-16=-7532/2134, 6-16=-7533/2134, 6-7=-7219/2032, 7-8=-7315/1991, 8-9=-7341/1978  
BOT CHORD 1-17=-1752/6482, 17-18=-1752/6482, 14-18=-1752/6482, 14-19=-1752/6482, 13-19=-1752/6482, 13-20=-1865/6795, 20-21=-1865/6795, 21-22=-1865/6795, 12-22=-1865/6795, 12-23=-1836/6773, 23-24=-1836/6773, 11-24=-1836/6773, 11-25=-1689/6360, 10-25=-1689/6360, 10-26=-1689/6360, 9-26=-1689/6360  
WEBS 3-14=-145/902, 3-13=-149/333, 4-13=-363/1697, 4-12=-311/1076, 6-12=-318/1106, 6-11=-357/1668, 7-11=-176/453, 7-10=-121/794

**NOTES** (12-13)  
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.  
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.  
3) Unbalanced roof live loads have been considered for this design.  
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60  
5) Provide adequate drainage to prevent water ponding.  
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
7) \* 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.  
8) All bearings are assumed to be SYP No.2.  
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1364, 9=1221.  
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



Continued on page 2

December 19, 2011

**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.

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Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - LUNDE ADDITION	IS139000
397359	T09G	GABLE	1	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:43 2011 Page 2

ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-B3vy05gV4V0qNVBYuQknbpO4sEZMBhMktKxv2dy7TGg

#### NOTES (17-18)

- 10) All bearings are assumed to be SYP No.2.
- 11) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 1=533, 11=755, 19=1981, 15=768.
- 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 14) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
- 15) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 17) 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.
- 18) 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=-114(F=-60), 5-6=-114(F=-60), 6-8=-114(F=-60), 8-12=-114(F=-60), 1-21=-10, 19-21=-10, 18-19=-10, 18-54=-50, 11-54=-10



*Julius Lee*

December 19, 2011



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Boynton, FL 33435

Job 397359	Truss T09	Truss Type SPECIAL	Qty 9	Ply 1	BLAKE CONST. - LUNDE ADDITION 15138999
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Builders FrstSource, Lake City, FL 32055


Job Reference (optional)  
7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:40 2011 Page 2  
ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-nUDpO3ddnaeFW1SzDIB4\_BmbC0UE\_LXIAMIjFSJy7TGj

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

14) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard



Julius Lee

December 19, 2011



**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'Oonofrio Drive, Madison, WI 53719.

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Boynton, FL 33435

Job 397359	Truss T08	Truss Type SPECIAL	Qty 3	Ply 1	BLAKE CONST. - LUNDE ADDITION	15138998
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Builders FrstSource, Lake City, FL 32055

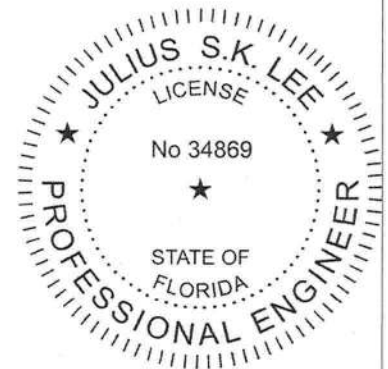
7.250 s Aug 25 2011 Mitek Industries, Inc. Mon Dec 19 07:42:40 2011 Page 2

ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-nUDpO3ddnaeFW1SzDiB4\_Bme90RK\_N1AMiFSJy7TGj

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) 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



*Julius Lee*

December 19, 2011



**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 BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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Boynton, FL 33435



Job 397359	Truss T07	Truss Type SPECIAL	Qty 2	Ply 1	BLAKE CONST. - LUNDE ADDITION Job Reference (optional)	IS138997
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Builders FrstSource, Lake City, FL 32055

7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:39 2011 Page 2  
ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-JIfRBjd70GWOttnfagrRzEXic63FuN8yizivsy7TGk

#### NOTES (12-13)

- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 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 TP1 1 as referenced by the building code.
- 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



*Julius Lee*

December 19, 2011



#### 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/TP11 Quality Criteria, DS8-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Julius Lee  
1109 Coastal Bay Blvd.  
Boynton, FL 33435

Job 397359	Truss T06A	Truss Type SPECIAL	Qty 1	Ply 1	BLAKE CONST. - LUNDE ADDITION	IS138996
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Builders FirstSource, Lake City, FL 32055

7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:38 2011 Page 2

ID: 1rx1SOjLBMFZJx46HPy?P?yB1ud-q653zOcmGyOXGkla6t9cumhNnDjoVWVF?j2D8NQy7TGI

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 TP1 1 as referenced by the building code.

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



*Julius Lee*

December 19, 2011



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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - LUNDE ADDITION	IS138995
397359	T06	SPECIAL	1	1		

Builders FirstSource, Lake City, FL 32055

7.250 s Aug 25 2011 Mitek Industries, Inc. Mon Dec 19 07:42:37 2011 Page 2

ID: 1rx1SOjLBMFZJx46HPy?P?yB1ud-MvXhm2bkVfGgfajOY9dNMY8CypNZn3?sUOUbr\_y7TGm

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) 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



*Julius Lee*

December 19, 2011



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Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - LUNDE ADDITION	IS138994
397359	T05G	GABLE	1	1		

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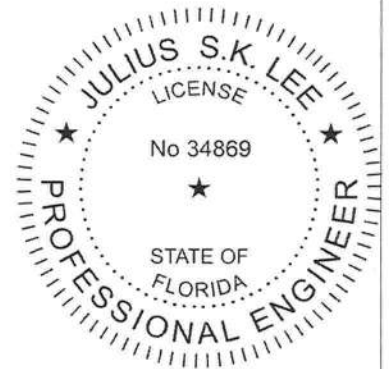
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#### NOTES (16-17)

- 14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 16) 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.
- 17) 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: 1-12=-114(F=-60), 12-14=-114(F=-60), 14-16=-114(F=-60), 2-17=-10



*Julius Lee*

December 19, 2011



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

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Boynton, FL 33435

Job 397359	Truss T05	Truss Type HIP	Qty 3	Ply 1	BLAKE CONST. - LUNDE ADDITION	IS138993
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Builders FirstSource, Lake City, FL 32055
7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:36 2011 Page 1

Job Reference (optional)  
 ID:1rx1SOJLBMFZJx46HPy?P?yB1ud-uj\_Yia6kL8p1Q9C\_S68pLc3IPAH2dLiGkk2JXy7TGN

<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2007/TPI2002	<b>CSI</b> TC 0.30 BC 0.37 WB 0.54 (Matrix-M)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.06 8-9 >999 360 Vert(TL) -0.09 8-9 >999 240 Horz(TL) -0.02 2 n/a n/a Wind(LL) 0.05 11-14 >999 240	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 154 lb FT = 20%
-------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 W6: 2 X 4 SYP No.2  
 SLIDER Left 2 X 6 SYP No.1D 2-6-0

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.  
 Rigid ceiling directly applied or 9-4-8 oc bracing.  
 BOT CHORD T-Brace: 2 X 4 SYP No.3 - 4-9, 5-9, 7-8, 6-8  
 WEBS Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
 Brace must cover 90% of web length.  

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

**REACTIONS** (lb/size) 2=909/0-3-8, 8=828/0-3-8  
 Max Horz 2=340(LC 6)  
 Max Uplift 2=-189(LC 6), 8=-182(LC 6)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-358/199, 3-4=-969/243, 4-5=-520/196, 5-6=-341/231  
 BOT CHORD 2-16=-465/738, 11-16=-418/738, 11-17=-418/737, 10-17=-418/737, 9-10=-418/737  
 WEBS 4-9=-524/339, 6-9=-266/574, 6-8=-693/335

**NOTES** (11-12)  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip  
 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, with BCDL = 5.0psf.  
 6) All bearings are assumed to be SYP No.2.  
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 12 and 182 lb uplift at joint 8.  
 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.  
 9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.  
 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.  
 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33485

**LOAD CASE(S)** Standard



December 19, 2011



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE M17473 BEFORE USE.**  
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 Julius Lee  
 1109 Coastal Bay Blvd.  
 Boynton, FL 33435



Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - LUNDE ADDITION	15138992
397359	T04G	GABLE	1	1		

Builders FrstSource, Lake City, FL 32055 7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:35 2011 Page 1  
 ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-QXQwLMaUz10yPGa0QkbvH63qG?vLJFJZ14?Um5y7TGo

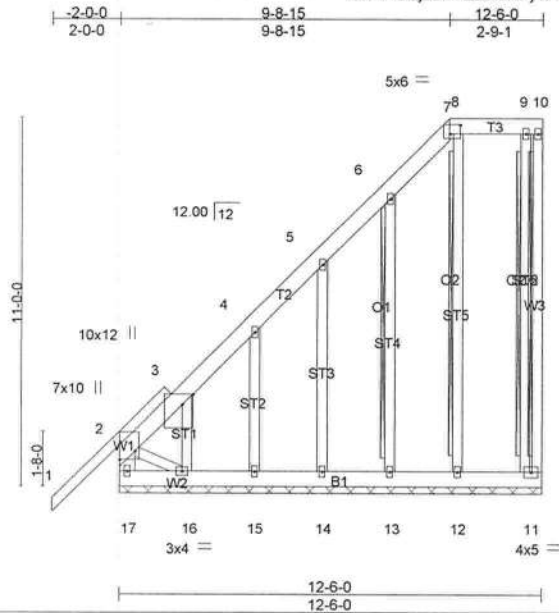


Plate Offsets (X,Y): [2:Edge,0-5-8], [3:0-3-12,Edge], [7:0-3-12,0-3-4]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.57	Vert(LL) -0.01	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.03	Vert(TL) -0.06	1	n/r	90		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.21	Horz(TL) -0.00	11	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)					Weight: 156 lb	FT = 20%

#### LUMBER

TOP CHORD 2 X 6 SYP No.1D \*Except\*  
 T1: 2 X 4 SYP No.2  
 BOT CHORD 2 X 6 SYP No.1D  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 W1: 2 X 6 SYP No.1D  
 OTHERS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 7-10.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.  
 WEBS T-Brace: 2 X 4 SYP No.3 - 10-11, 6-13, 8-12, 9-11  
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
 Brace must cover 90% of web length.  
 1 Brace at Jt(s): 10

#### JOINTS

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

#### REACTIONS

All bearings 12-6-0.  
 (lb) - Max Horz 17=584(LC 6)  
 Max Uplift All uplift 100 lb or less at joint(s) except 11=-383(LC 4), 17=-254(LC 4), 16=-434(LC 6), 15=-177(LC 6), 14=-213(LC 6), 13=-215(LC 6), 12=-176(LC 6)  
 Max Grav All reactions 250 lb or less at joint(s) 16, 14, 13 except 11=600(LC 1), 17=522(LC 1), 15=265(LC 1), 12=318(LC 1)

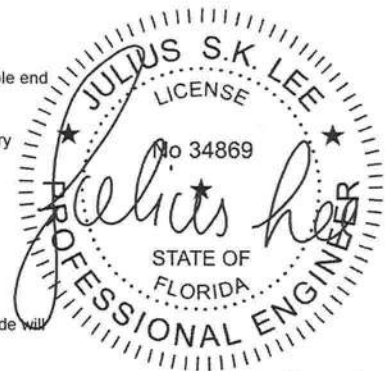
#### FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-483/106, 3-4=-431/78, 4-5=-327/75, 10-11=-255/169, 2-17=-517/258  
 BOT CHORD 16-17=-431/66  
 WEBS 8-12=-295/242, 9-11=-335/228, 2-16=-77/493

#### NOTES (18-19)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 1-2002.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) The Fabrication Tolerance at joint 2 = 12%
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) All bearings are assumed to be SYP No.2.

Continued on page 2



December 19, 2011



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 Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - LUNDE ADDITION	IS138990
397359	T03	PIGGYBACK ATTIC	1	1		

Builders FrstSource, Lake City, FL 32055

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ID: 1rx1SOjLBMFZJx46HPy?P?yB1ud-yKsY70ZsCku5o6?pt14gkWVeTbNgamwPoRFxEfy7TGp

16) 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.

17) 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: 2-17=-10, 14-17=-110, 13-14=-10, 1-5=-54, 5-6=-64, 6-7=-136(F=-82), 8-9=-136(F=-82), 9-10=-146(F=-82), 10-13=-136(F=-82), 7-8=-136(F=-82), 6-9=-10

Drag: 5-17=-10, 10-14=-10

Concentrated Loads (lb)

Vert: 20=-500(F)



*Julius Lee*

December 19, 2011

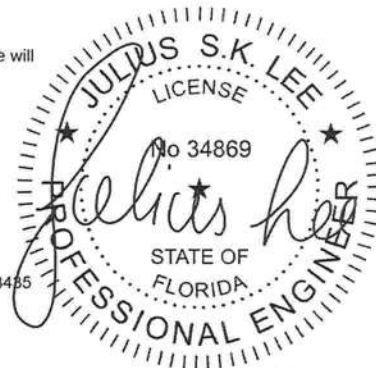


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Boynton, FL 33435

Job 397359	Truss T02	Truss Type PIGGYBACK ATTIC	Qty 7	Ply 1	BLAKE CONST. - LUNDE ADDITION	15138989
Builders FrstSource, Lake City, FL 32055					Job Reference (optional) 7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:33 2011 Page 1	
					Scale = 1.65:8	
Plate Offsets (X,Y): [2:0-4-4,0-0-2], [4:0-4-0,0-4-8], [7:0-5-8,0-3-0], [8:0-5-8,0-3-0], [13:0-9-4,0-0-2], [14:0-3-8,0-4-0], [16:0-3-8,0-4-0]						
<b>LOADING</b> (psf) TCCL 20.0 TCDL 7.0 BCCL 0.0 * BCDL 5.0		<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2007/TPI2002		<b>CSI</b> TC 0.44 BC 0.52 WB 0.35 (Matrix)		<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.24 14-16 >999 360 Vert(TL) -0.39 14-16 >738 240 Horz(TL) 0.02 13 n/a n/a Wind(LL) 0.10 14 >999 240
<b>LUMBER</b> TOP CHORD 2 X 6 SYP No.1D BOT CHORD 2 X 8 SYP No.1D WEBS 2 X 4 SYP No.3 *Except* W2: 2 X 4 SYP No.2 SLIDER Left 2 X 8 SYP No.1D 2-4-2, Right 2 X 8 SYP No.1D 2-4-2		<b>BRACING</b> TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 7-8. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 6-9 <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>				
<b>REACTIONS</b> (lb/size) 2=1594/0-3-8, 13=1480/0-3-8 Max Horz 2=307(LC 5) Max Uplift 2=42(LC 6)						
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1912/155, 3-4=-1842/173, 4-5=-1762/203, 5-6=-1075/284, 9-10=-1074/282, 10-11=-1766/214, 11-12=-1845/179, 12-13=-1907/156 BOT CHORD 2-16=-120/1067, 15-16=0/1144, 14-15=0/1144, 13-14=-24/1088 WEBS 5-16=0/829, 10-14=0/825, 6-18=-1208/211, 17-18=-1203/213, 9-17=-1228/210						
<b>NOTES</b> (13-14) 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; 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) 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) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-18, 17-18, 9-17; Wall dead load (5.0psf) on member(s). 5-16, 10-14 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16 8) All bearings are assumed to be SYP No.2 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2. 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails. 12) Attic room checked for L/360 deflection. 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435						
<b>LOAD CASE(S)</b> Standard						



December 19, 2011



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 Boynton, FL 33435

Job 397359	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	BLAKE CONST. - LUNDE ADDITION	15138988
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Builders FrstSource, Lake City, FL 32055

Job Reference (optional)

7 250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:32 2011 Page 1  
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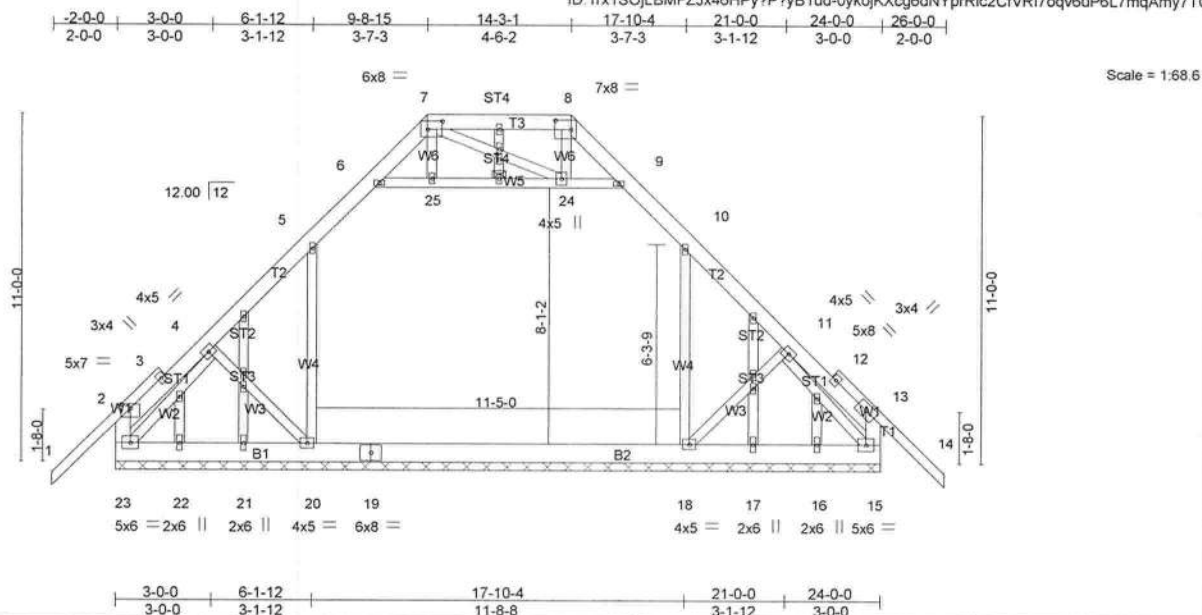


Plate Offsets (X,Y): [7:0-5-8,0-3-0], [8:0-6-0,0-3-8], [26:0-1-12,0-1-0]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.63	Vert(LL)	-0.07	14	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.27	Vert(TL)	-0.12	14	n/r	90		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.22	Horz(TL)	0.01	15	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)							
								Weight: 252 lb	FT = 20%

**LUMBER**  
**TOP CHORD** 2 X 6 SYP No.1D \*Except\*  
T1: 2 X 4 SYP No.2  
**BOT CHORD** 2 X 8 SYP No.1D  
**WEBS** 2 X 4 SYP No.3 \*Except\*  
W4: 2 X 4 SYP No.2, W1: 2 X 6 SYP No.1D  
**OTHERS** 2 X 4 SYP No.3

**BRACING**  
**TOP CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.  
**WEBS** 1 Row at midpt 6-9

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

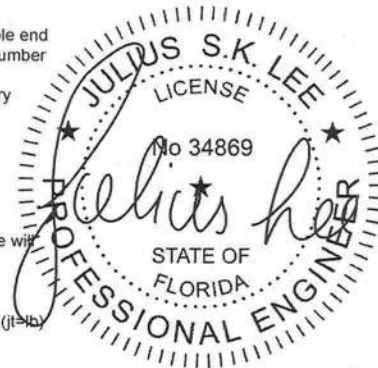
**REACTIONS** All bearings 24-0-0.  
(b) - Max Horz 23=-396(LC 4)  
Max Uplift All uplift 100 lb or less at joint(s) 16, 22 except 20=-349(LC 6),  
18=-340(LC 7), 15=-532(LC 5), 23=-555(LC 4), 17=-370(LC 10), 21=-370(LC 10)  
Max Grav All reactions 250 lb or less at joint(s) 16, 22 except 20=1216(LC 11),  
18=1218(LC 12), 15=1180(LC 1), 23=1180(LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 4-5=-746/427, 5-6=-851/417, 6-7=-692/347, 8-9=-686/340, 9-10=-851/417,  
10-11=-746/402, 7-8=-482/291, 2-23=-587/459, 13-15=-588/459  
**BOT CHORD** 22-23=-370/501, 21-22=-370/501, 20-21=-370/501, 19-20=-276/476, 18-19=-276/476,  
17-18=-242/501, 16-17=-242/501, 15-16=-242/501  
**WEBS** 5-20=-574/374, 10-18=-577/354, 11-15=-694/326, 4-23=-695/344

#### NOTES (17-18)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; 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 1-2002.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 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, with BCDL = 5.0psf.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-25, 24-25, 9-24; Wall dead load (5.0psf) on member(s).5-20, 10-18
- All bearings are assumed to be SYP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 22 except (jt=16) 20=349, 18=340, 15=532, 23=555, 17=370, 21=370.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

(d) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.



December 19, 2011



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Job 397359	Truss PB03G	Truss Type PIGGYBACK	Qty 2	Ply 1	BLAKE CONST. - LUNDE ADDITION	15138986
Builders FrstSource, Lake City, FL 32055					Job Reference (optional) 7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:30 2011 Page 1 ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-3Zc1fVVL8VNgJVh2eB?ka4M4M_C2e1LqtpHj5uy7TGt	

Scale = 1:6.9

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

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.07	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.04	Vert(TL)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL)	0.00	5	n/a	n/a		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)	Wind(LL)	0.00	2	>999	240		

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

Structural wood sheathing directly applied or 2-5-6 oc purlins.  
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=78/0-3-8, 5=78/0-3-8  
Max Horz 1=-28(LC 4)  
Max Uplift 1=-31(LC 6), 5=-31(LC 7)

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

**NOTES** (10-11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) 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
- 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 SYP No.2.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 31 lb uplift at joint 5.
- "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.
- 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 19, 2011



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Boynton, FL 33435





Job 397359	Truss PB01	Truss Type PIGGYBACK	Qty 12	Ply 1	BLAKE CONST. - LUNDE ADDITION	15138982
Builders FirstSource, Lake City, FL 32055					<small>7,250 s Aug 25 2011 Mitek Industries, Inc. Mon Dec 19 07:42:29 2011 Page 1</small> <small>ID: 1rx1SOjLBMFZJx46HPy?P?yB1ud-bN2f4JVjNBFphL6s4UUV1tpw8asivaSgf9YAZRy7TG</small>	

Scale = 1:18.5

<b>LOADING (psf)</b> TCLL 20.0 TCCL 7.0 BCLL 0.0 * BCDL 5.0	<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2007/TPI2002	<b>CSI</b> TC 0.04 BC 0.04 WB 0.04 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.00 2 >999 360 Vert(TL) -0.00 2 >999 240 Horz(TL) 0.00 5 n/a n/a Wind(LL) 0.00 2 >999 240	<b>PLATES</b> GRIP MT20 244/190 Weight: 20 lb FT = 20%
-------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------

**LUMBER**

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEBS 2 X 4 SYP No.3

**REACTIONS** (lb/size) 1=31/0-3-8, 5=31/0-3-8, 6=264/0-3-8  
 Max Horz 1=-70(LC 4)  
 Max Uplift 1=-13(LC 4), 5=-13(LC 4), 6=-80(LC 6)  
 Max Grav 1=47(LC 10), 5=47(LC 11), 6=264(LC 1)

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

**NOTES** (10-11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph (3-second gust); TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) 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
- 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 SYP No.2.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 13 lb uplift at joint 5 and 80 lb uplift at joint 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.
- 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 5-4-0 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.

December 19, 2011



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Julius Lee  
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Boynton, FL 33435

Job 397359	Truss EJ4	Truss Type JACK	Qty 3	Ply 1	BLAKE CONST. - LUNDE ADDITION	I5138980
Builders FrstSource, Lake City, FL 32055					Job Reference (optional) 7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:28 2011 Page 1	
ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-7BVHtzU5cu7y4BXfWmzGVfGfKBVxA7rXQVod0?y7TGv						

Scale = 1:21.7

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 2-0-0 1.25	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.08	Vert(LL) -0.01 4-5 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(TL) -0.01 4-5 >999 240		
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)	Horz(TL) -0.01 3 n/a n/a		
			Wind(LL) 0.01 4-5 >999 240	Weight: 17 lb	FT = 20%

**LUMBER**

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

WEBS 2 X 4 SYP No.3

**REACTIONS** (lb/size) 5=264/0-3-8, 3=67/Mechanical, 4=12/Mechanical

Max Horz 5=219(LC 6)

Max Uplift 5=-149(LC 6), 3=-80(LC 6), 4=-4(LC 7)

Max Grav 5=264(LC 1), 3=67(LC 1), 4=47(LC 2)

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

**NOTES** (8-9)

- 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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 SYP No.2.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 5, 80 lb uplift at joint 3 and 4 lb uplift at joint 4.
- 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) 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 3-9-0 oc purlins, except end verticals.

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 19, 2011



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Job 397359	Truss CJ2A	Truss Type JACK	Qty 2	Ply 1	BLAKE CONST. - LUNDE ADDITION	I5138978
Builders FrstSource, Lake City, FL 32055					Job Reference (optional) 7.250 s Aug 25 2011 MiTek Industries, Inc. Mon Dec 19 07:42:28 2011 Page 1	
<div style="text-align: right; font-size: small;">ID:1rx1SOjLBMFZJx46HPy?P?yB1ud-7BVHtzU5cu7y4BXfWmzGVfGfUBVva7rXQVod0?y7TGv</div> <div style="text-align: center; margin-top: 20px;"> </div>						
<b>LOADING</b> (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 5.0		<b>SPACING</b> 2-0-0 Plates Increase 1.25 Lumber Increase 1.25 Rep Stress Incr YES Code FBC2007/TPI2002		<b>CSI</b> TC 0.42 BC 0.08 WB 0.00 (Matrix)		<b>DEFL</b> in (loc) l/defl L/d Vert(LL) 0.00 4-5 >999 360 Vert(TL) 0.00 4-5 >999 240 Horz(TL) -0.01 3 n/a n/a Wind(LL) -0.00 5 >999 240
<b>PLATES</b> MT20		<b>GRIP</b> 244/190		Weight: 12 lb FT = 20%		
<b>LUMBER</b> TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEBS 2 X 4 SYP No.3			<b>BRACING</b> TOP CHORD Structural wood sheathing directly applied or 2-3-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 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>			
<b>REACTIONS</b> (lb/size) 5=268/0-3-8, 3=5/Mechanical, 4=-10/Mechanical Max Horz 5=150(LC 6) Max Uplift 5=-201(LC 6), 3=-23(LC 7), 4=-10(LC 1) Max Grav 5=268(LC 1), 3=24(LC 4), 4=24(LC 2)						
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.						
<b>NOTES</b> (8-9) 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) * 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 SYP No.2. 5) Refer to girder(s) for truss to truss connections. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 5, 23 lb uplift at joint 3 and 10 lb uplift at joint 4. 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435						
<b>LOAD CASE(S)</b> Standard						

December 19, 2011



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