

Julius Lee

RE: 371420 -

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

Site Information:

Project Customer: Dreambuilder Custom Homes Project Name: 371420 Model: 2347
Lot/Block: 6 Subdivision: The Sanctuary
Address:
City: Duval State: Florida

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

Name: Pontigo, Luis Antonio, PE License #: 53311
Address: 420 Osceola Ave.
City: Jacksonville Beach State: Florida

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

Design Code: FBC2007/TPI2002 Design Program: MiTek 20/20 7.3
Wind Code: ASCE 7-05 Wind Speed: 120 mph Floor Load: N/A psf
Roof Load: 55.0 psf

This package includes 3 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.

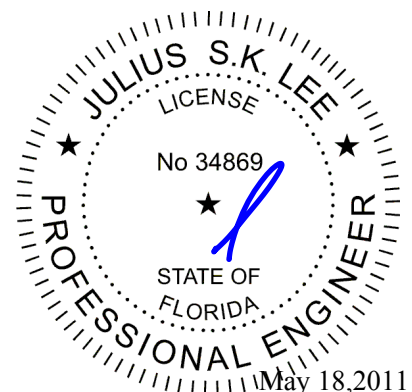
No.	Seal#	Truss Name	Date
1	I4746035	TG01	5/18/011
2	I4746036	TG04	5/18/011
3	I4746037	TG05	5/18/011

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, 2013.

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 371420	Truss TG01	Truss Type MONO HIP	Qty 1	Ply 2	Job Reference (optional) 7.250 s Sep 1 2010 MiTek Industries, Inc. Wed May 18 15:22:52 2011 Page 1 ID:HMwzgqQS0_eeKYNmuEI3mEzc0hp-yr72EOTNqd6pGeuYsC1QNFBFkgRsQs?7KeIMhzzFEjn
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7.250 s Sep 1 2010 MiTek Industries, Inc. Wed May 18 15:22:52 2011 Page 1
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Plate Offsets (X,Y): [3:0-0-1,0-2-5]

LOADING (psf)	SPACING	CSI	DEFL		PLATES	GRIP
TCLL 40.0	Plates Increase 2-0-0 1.00	TC 0.33	in (loc) l/defl L/d		MT20	244/190
TCDL 10.0	Lumber Increase 1.00	BC 0.15	Vert(LL) -0.00 7 >999 360			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.16	Vert(TL) -0.01 7 >999 240			
BCDL 5.0	Code FBC2007/TPI2002	(Matrix)	Horz(TL) 0.00 6 n/a n/a			
			Wind(LL) 0.00 2 >999 240		Weight: 55 lb	FT = 20%

LUMBER

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 8 SYP No.1D

WEBS 2 X 4 SYP No.3

WEDGE

Left: 2 X 4 SYP No.3

REACTIONS (lb/size) 6=1133/0-3-8, 2=1124/0-3-8
Max Horz 2=93(LC 5)

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

TOP CHORD 2-3=-476/0, 3-8=-675/0, 4-8=-674/0, 4-5=-674/0, 5-6=-980/0

WEBS 3-7=0/753, 5-7=0/776, 4-7=-282/0

NOTES (10-13)

- 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 8 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-05; 120mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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) 434 lb down and 120 lb up at 3-7-12 on top chord, and 979 lb down at 1-7-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
- 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.

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

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Continued on page 2



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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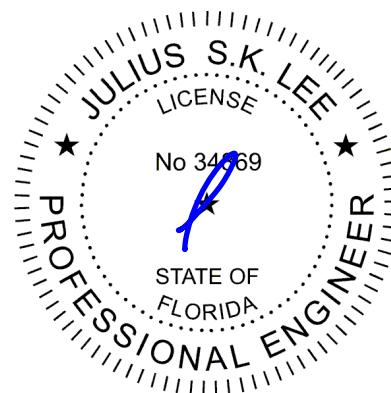
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
371420	TG01	MONO HIP	1	2	

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7.250 s Sep 1 2010 MiTek Industries, Inc. Wed May 18 15:22:52 2011 Page 2
ID:HMwzqgQS0_eeKYNuEl3mEzc0hp-yr72EOTNqd6pGeuYsC1QNFBFkgRsQs?7KeIMhzzFEjn

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-100, 3-8=-100, 5-8=-210, 2-6=-10
Concentrated Loads (lb)
Vert: 5=-434 9=-979(F)
- 2) IBC BC Live: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-8=-20, 5-8=-130, 2-6=-30
Concentrated Loads (lb)
Vert: 5=-197 9=-576(F)
- 3) MWFRS Wind Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-3=-10, 3-8=37, 5-8=-73, 2-6=-6
Horz: 1-2=-24, 2-3=2
Drag: 3-4=-0
Concentrated Loads (lb)
Vert: 5=120 9=-390(F)
- 4) MWFRS Wind Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-3=18, 3-8=30, 5-8=-80, 2-6=-6
Horz: 1-2=-19, 2-3=-27
Drag: 3-4=-0
Concentrated Loads (lb)
Vert: 5=94 9=-390(F)
- 5) MWFRS 1st Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=52, 2-3=30, 3-8=16, 5-8=-94, 2-6=-6
Horz: 1-2=-60, 2-3=-38
Drag: 3-4=-0
Concentrated Loads (lb)
Vert: 5=94 9=-390(F)
- 6) MWFRS 2nd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=16, 3-8=16, 5-8=-94, 2-6=-6
Horz: 1-2=-16, 2-3=-24
Drag: 3-4=-0
Concentrated Loads (lb)
Vert: 5=38 9=-390(F)
- 7) MWFRS 3rd Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=52, 2-3=30, 3-8=16, 5-8=-94, 2-6=-6
Horz: 1-2=-60, 2-3=-38
Drag: 3-4=-0
Concentrated Loads (lb)
Vert: 5=94 9=-390(F)
- 8) MWFRS 4th Wind Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=16, 3-8=16, 5-8=-94, 2-6=-6
Horz: 1-2=-16, 2-3=-24
Drag: 3-4=-0
Concentrated Loads (lb)
Vert: 5=38 9=-390(F)



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Job	Truss	Truss Type	Qty	Ply	
371420	TG04	SPECIAL	1	2	Job Reference (optional)

I4746036

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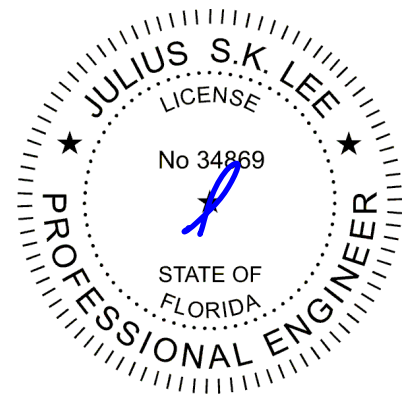
7.250 s Nov 19 2010 MiTek Industries, Inc. Wed May 18 13:39:32 2011 Page 2

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- 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) For special connections with reactions or uplifts less than 300 lbs. Use typical toe-nail connection (refer to BFS detail package)
- 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=1.00, Plate Increase=1.00
- Uniform Loads (plf)
- Vert: 1-11=-100, 12-21=-10
- Concentrated Loads (lb)
- Vert: 22=-1725(B)



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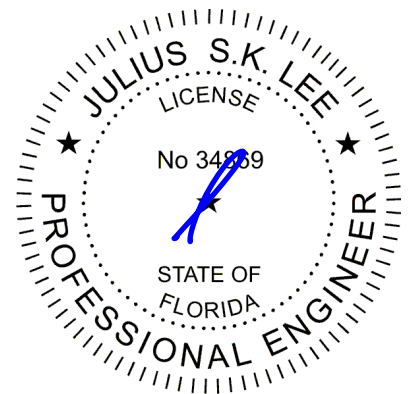
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Job	Truss	Truss Type	Qty	Ply	
371420	TG05	SPECIAL	1	2	Job Reference (optional)

14746037

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ID:HMwzggQS0_eeKYNuEI3mEzc0hp-rGrBOXRKumAEH?4jKJI7Eg22p?H3zHJahodJz6zFFMO

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-4=-100, 5-8=-10
Concentrated Loads (lb)
Vert: 8=-55 9=-610(B) 10=-610(B) 11=-610(B) 12=-610(B)



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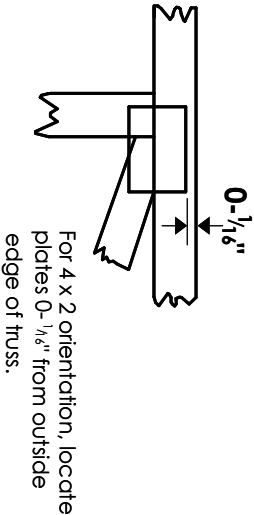
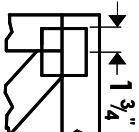
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Symbols

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.



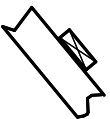
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—
This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

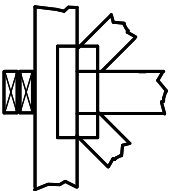
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



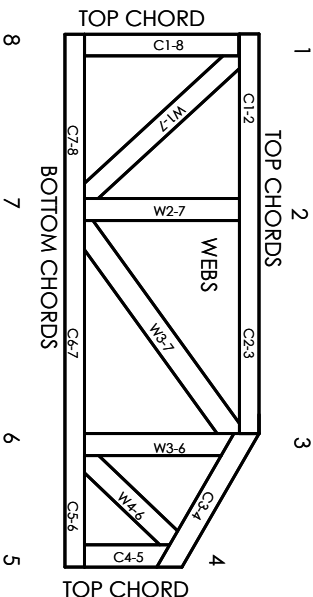
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/FP11: 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/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. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware at joint locations are regulated by ANSI/FP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/FP 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/FP 1 Quality Criteria.