DATE 04/04/2011

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000029290

APPLICANT BLAKE N. LUNDE,II. PHONE 386.758.3540

ADDRESS 3101 W US HWY 90, STE. 102 LAKE CITY FL 32055

OWNER JEFF & PAT BENSON PHONE

ADDRESS 664 NW COUNTRY LAKE DRIVE LAKE CITY FL 32055

CONTRACTOR BLAKE LUNDE,II. PHONE 386.754.5810

LOCATION OF PROPERTY LAKE JEFFERY TO SCENIC LAKE DRIVE,TL TO COUNTRY LAKE DR.,TR
PROPERTY IS 1/4 MILE DOWN ON R.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 177300.00

HEATED FLOOR AREA 2797.00 TOTAL AREA 3546.00 HEIGHT 29.60 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 12'12 FLOOR CONC

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 22-3S-16-02267-119 SUBDIVISION COUNTRY LAKE IN WOODBOROUGH

LOT 119 BLOCK PHASE 1 UNIT TOTAL ACRES 0.83

000001882		CBC1253408		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
18"X32'MITERED	11-0165	BLK	TC	Y
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: MFE @ 139.50' PER PLAT. ELEVATION CONFIRMATION LETTER @ SLAB.
NOC ON FILE.

Check # or Cash 8170

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by Foundation _____ date/app. by Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by Slab _____ date/app. by Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by Insulation _____ date/app. by

Rough-in plumbing above slab and below wood floor _____ date/app. by Electrical rough-in _____ date/app. by

Heat & Air Duct _____ date/app. by Peri. beam (Lintel) _____ date/app. by Pool _____ date/app. by

Permanent power _____ date/app. by C.O. Final _____ date/app. by Culvert _____ date/app. by

Pump pole _____ date/app. by Utility Pole _____ date/app. by M/H tie downs, blocking, electricity and plumbing _____ date/app. by

Reconnection _____ date/app. by RV _____ date/app. by Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 890.00 CERTIFICATION FEE $ 17.73 SURCHARGE FEE $ 17.73

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ CULVERT FEE $ 25.00 **TOTAL FEE** 1000.46

INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

29290

Julius Lee

RE: 366563 - BLAKE CONST. - BENSON RES.

1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

Site Information:
Project Customer: BLAKE CONST. Project Name: 366563 Model: BENSON RES.
Lot/Block: 19 Subdivision: COUNTRY LAKES
Address: 664 NW COUNTRY LAKE DR
City: COLUMBIA CTY State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: BLAKE N. LUNDE II License #: RR0067618
Address: 2250 SW JAGUAR DR
City: LAKE CITY, State: FL

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2007/TPI2002 Design Program: MiTek 20/20 7.1
Wind Code: ASCE 7-05 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 1 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	I4785270	T19	6/16/011

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 (Lake City).

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.

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

June 16,2011

Julius Lee

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	
366563	T19	SPECIAL	6	1		I4785270

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

7.140 s Oct 1 2009 MiTek Industries, Inc. Thu Jun 16 08:29:22 2011 Page 1

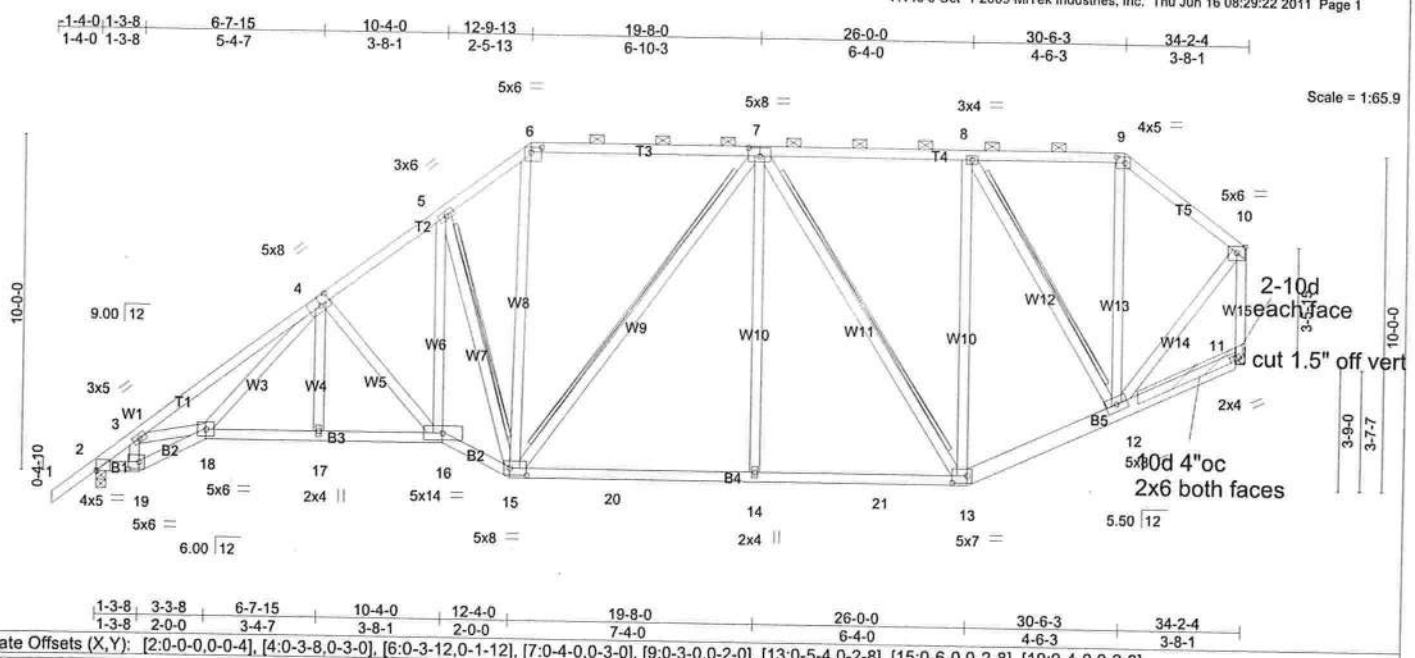


Plate Offsets (X,Y): [2:0-0-0,0-0-4], [4:0-3-8,0-3-0], [6:0-3-12,0-1-12], [7:0-4-0,0-3-0], [9:0-3-0,0-2-0], [13:0-5-4,0-2-8], [15:0-6-0,0-2-8], [19:0-4-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.40	Vert(LL)	-0.17	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.28	14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.08	11	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.16	16	>999	240	Weight: 279 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B5: 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W15: 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-2 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 5-8-1 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-15, 7-15, 7-13, 8-12
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS (lb/size) 2=1305/0-3-8, 11=1264/Mechanical
Max Horz 2=392(LC 6)
Max Uplift2=-402(LC 6), 11=-425(LC 5)

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

TOP CHORD 2-3=-1768/976, 3-4=-2821/1799, 4-5=-1746/1129, 5-6=-1388/993, 6-7=-1070/838, 7-8=-858/663, 8-9=-558/474, 9-10=-748/503, 10-11=-1229/787
BOT CHORD 2-19=-1127/1315, 18-19=-1154/1358, 17-18=-1240/1662, 16-17=-1239/1663, 15-16=-1040/1501, 15-20=-705/1205, 14-20=-705/1205, 14-21=-706/1203, 13-21=-705/1205, 12-13=-571/955
WEBS 3-19=-613/590, 3-18=-626/973, 4-18=-660/830, 4-16=-479/473, 5-16=-782/999, 5-15=-964/842, 6-15=-353/554, 7-15=-344/230, 7-14=0/327, 7-13=-639/351, 8-12=-618/371, 9-12=-103/260, 10-12=-510/898

NOTES (12-14)

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=20ft; Cat. II; Exp C; 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
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 402 lb uplift at joint 2 and 425 lb uplift at joint 11.
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.

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

Continued on page 2

June 16,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T19	SPECIAL	6	1	I4785270
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)

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 S.K. LEE
LICENSE
No 34869
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Julius Lee

June 16,201

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Land Surveyors
and Mappers

BRITT SURVEYING & ASSOCIATES

830 West Duval Street • Lake City, FL 32055
Phone (386) 752-7163 • Fax (386) 752-5573

29290

08/29/11

RE: Lot 19 in Country Lake in Woodborough Phase 1

Blake Construction

To Whom It May Concern:

We have been asked to provide an elevation of the finished floor elevation of the residence under construction at this time. The elevation of the finished floor is found to be 140.93 feet NGVD 29 datum. The elevation was based on the plat of record and per the building permit showing an elevation of 139.50 feet. The lowest adjacent grade is 138.64 feet and the highest adjacent grade is 139.01 feet. The centerline of NW Country Lake Drive is 141.1 feet. All elevations shown hereon are NGVD 29 datum.

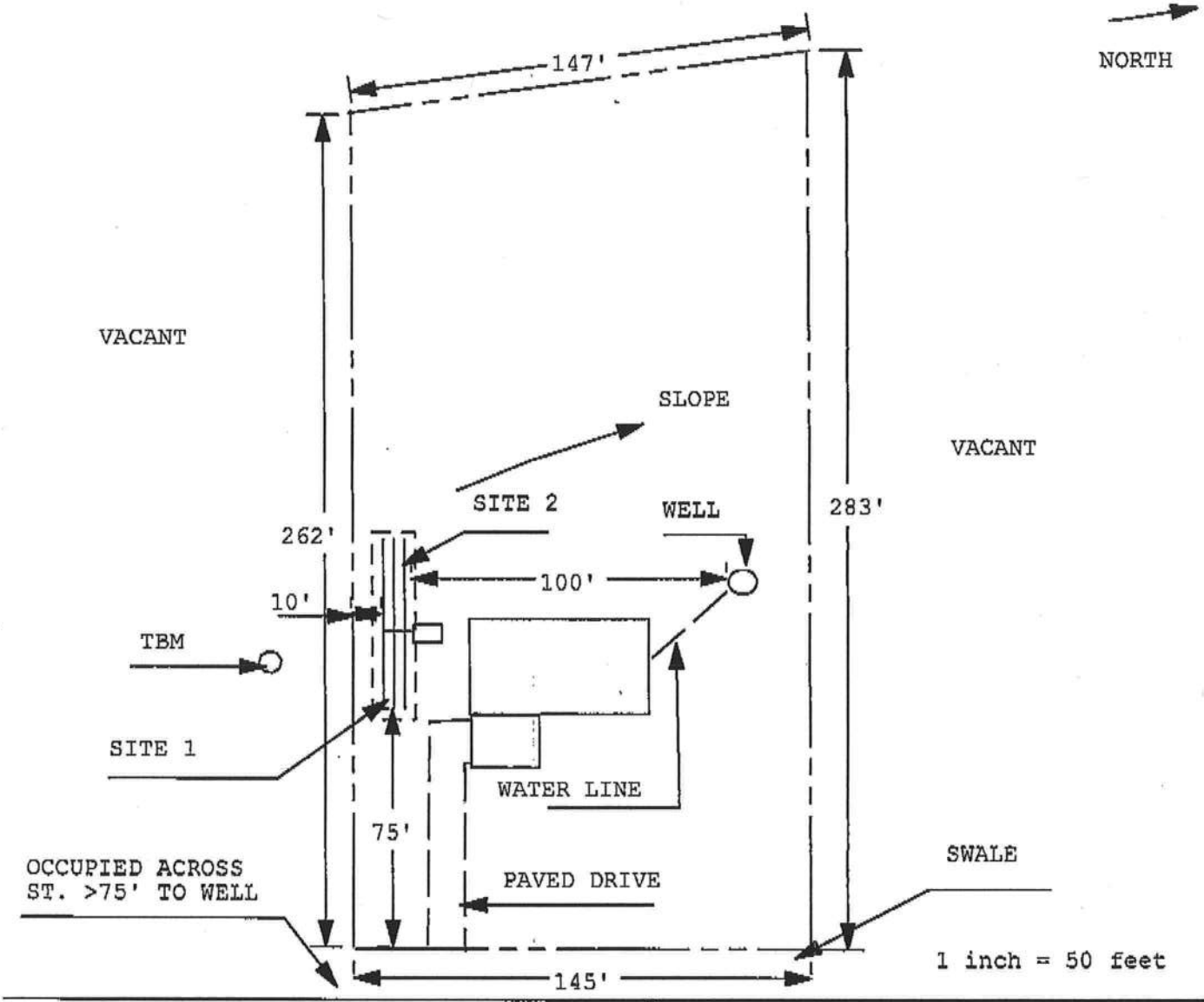
Sincerely,

L. Scott Britt
PLS 5757

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 11-0165

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Lloyd Date 3-15-11

Plan Approved ✓ Not Approved ____ Date 4-4-11

By Sallie Ford- Env. Health Director- Columbia CPHU

Notes: Benson- Blake Construction

FORM 1100A-08

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name:	Benson Residence	Builder Name:	Blake Construction
Street:	664 NW Country Lake Dr	Permit Office:	Columbia County
City, State, Zip:	Lake City , FL , 32055-	Permit Number:	29290
Owner:	Benson	Jurisdiction:	221000
Design Location:	FL, Gainesville		

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area (ft²)	2797

7. Windows	Description	Area
a. U-Factor:	Dbl, U=0.55	288.11 ft²
SHGC:	SHGC=0.70	
b. U-Factor:	Dbl, U=0.55	23.33 ft²
SHGC:	SHGC=0.60	
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
e. U-Factor:	N/A	ft²
SHGC:		

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2186.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1678.30 ft²
b. Frame - Wood, Adjacent	R=13.0	204.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	2608.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Attic Ret: Attic AH: Attic Sup. R= 6, 546 ft²

12. Cooling systems (combined)
a. Central Unit — Cap: 70 kBtu/hr, SEER: 14

13. Heating systems (combined)
a. Electric Heat Pump — Cap: 70 kBtu/hr, HSPF: 7.7

14. Hot water systems
a. Propane — Cap: 1 gallons, EF: 0.82
b. Conservation features
None

15. Credits — Pstat

Glass/Floor Area: 0.111

Total As-Built Modified Loads: 36.23
Total Baseline Loads: 53.42

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____
DATE: 3/28/11

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____
DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____
DATE: _____

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

COLUMBIA COUNTY BUILDING DEPARTMENT — Received for FILE COPY — Code Compliance — PLANS EXAMINER

PROJECT

Title:	Benson Residence	Bedrooms:	3	Adress Type:	Street Address
Building Type:	FLAsBuilt	Bathrooms:	0	Lot #	
Owner:	Benson	Conditioned Area:	2797	SubDivision:	
# of Units:	1	Total Stories:	2	PlatBook:	
Builder Name:	Blake Construction	Worst Case:	No	Street:	664 NW Country Lake
Permit Office:	Columbia County	Rotate Angle:	0	County:	Columbia
Jurisdiction:	221000	Cross Ventilation:		City, State, Zip:	Lake City , FL , 32055-
Family Type:	Single-family	Whole House Fan:			
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

√	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	218 ft	0	2186 ft²	0.3	0.5	0.2

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	2734 ft²	0 ft²	Medium	0.96	No	10	36.9 deg

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2186 ft²	N	N

CEILING

√	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	2186 ft²	0.11	Wood
_____	2	Under Attic (Vented)	30	422 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	SW	Exterior	Frame - Wood	13	324 ft²	0.7	0.23	0.75
_____	2	NW	Exterior	Frame - Wood	13	324 ft²	0.7	0.23	0.75
_____	3	NW	Exterior	Frame - Wood	13	516 ft²	0.7	0.23	0.75
_____	4	NE	Exterior	Frame - Wood	13	405 ft²	0.7	0.23	0.75
_____	5	SE	Exterior	Frame - Wood	13	109.33 ft²	0.7	0.23	0.75
_____	6	SE	Garage	Frame - Wood	13	204 ft²	0.7	0.23	0.01

DOORS

√	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	SW	Insulated	Wood	0.46	20 ft²
_____	2	SE	Insulated	Metal	0.46	20 ft²

WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

√	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	SW	Vinyl	Low-E Double	Yes	0.55	0.6	N	23.33 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	2	SW	Vinyl	Low-E Double	Yes	0.55	0.7	N	34 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	3	NW	Vinyl	Low-E Double	Yes	0.55	0.7	N	17.11 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	4	NW	Vinyl	Low-E Double	Yes	0.55	0.7	N	4.44 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	5	NW	Vinyl	Low-E Double	Yes	0.55	0.7	N	64.22 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	6	NW	Vinyl	Low-E Double	Yes	0.55	0.7	N	49.78 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	7	NW	Wood	Low-E Double	Yes	0.55	0.7	N	21.33 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	8	NW	Wood	Low-E Double	Yes	0.55	0.7	N	8.89 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	9	NE	Vinyl	Low-E Double	Yes	0.55	0.7	N	37.33 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	10	NE	Vinyl	Low-E Double	Yes	0.55	0.7	N	3.89 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	11	NE	Vinyl	Low-E Double	Yes	0.55	0.7	N	2.22 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	12	NE	Vinyl	Low-E Double	Yes	0.55	0.7	N	24.89 ft²	1 ft 4 in	0 ft 4 in	HERS 2006	None
_____	13	SE	Vinyl	Low-E Double	Yes	0.55	0.7	N	20 ft²	1 ft 0 in	0 ft 4 in	HERS 2006	None

INFILTRATION & VENTING

√	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ---- Supply CFM	Exhaust CFM	Run Time Fraction	Fan Watts
_____	Default	0.00036	2641	6.30	145.0	272.7	0 cfm	0 cfm	0	0

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	521.41 ft²	207 ft²	68.67 ft	9 ft	13

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
_____	1	Central Unit	Split System	SEER: 14	35 kBtu/hr	1050 cfm	0.75	False
_____	2	Central Unit	Split System	SEER: 14	35 kBtu/hr	1050 cfm	0.75	False

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Ductless
_____	1	Electric Heat Pump	None	HSPF: 7.7	35 kBtu/hr	False
_____	2	Electric Heat Pump	None	HSPF: 7.7	35 kBtu/hr	False

HOT WATER SYSTEM

√	#	System Type	EF	Cap	Use	SetPnt	Conservation
_____	1	Propane	0.82	1 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
_____	1	Attic	6	546 ft²	Attic	139.85	Default Leakage	Attic				

TEMPERATURES

Programable Thermostat: Y Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]
Heating	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]
Venting	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

FORM 1100A-08

Code Compliance Cheklist

Residential Whole Building Performance Method A - Details

ADDRESS: 664 NW Country Lake Dr Lake City, FL, 32055-	PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	✓
Exterior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	✓
Floors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	✓
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	✓
Recessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	✓
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	✓
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	✓

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	✓
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	N/A
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	✓
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	✓
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	✓
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	✓

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1103-49 CONTRACTOR Blake Lunde 498 d/c PHONE (386) 754-5810 758-3540

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL 309	Print Name Matt Burns Electric License #: ER 13013004	Signature Phone #: 386-365-3688
MECHANICAL/ A/C A 138	Print Name LAMAR BOOZER License #: RA0035027	Signature Phone #: 754-6700
PLUMBING/ GAS 298	Print Name Hometown Plumbing License #: RF 11067418	Signature DON BILLS Phone #: 386-365-6144
ROOFING 1129	Print Name Mac Johnson Roofing License #: CCC 1325497 Dana Johnson	Signature Phone #: 352/472-6007
SHEET METAL	Print Name License #:	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#:	Signature Phone #:
SOLAR	Print Name License #:	Signature Phone #:

Specialty License	License Number	Sub-Contractor Printed Name	Sub-Contractors Signature
MASON	000246	Ed Dewitt Masonry LLC	
CONCRETE FINISHER	000063	Bradley Concrete	
FRAMING	177	Mitchell's Framing	EXEMPT 4-15
INSULATION	CBC 1253408	Blake Const. Co.	
STUCCO	N/A		
DRYWALL	000627	Jackson Drywall	
PLASTER	N/A		
CABINET INSTALLER	CBC 1253408	Blake Const Co.	
PAINTING	000104	Ted's Painting	ALL
ACOUSTICAL CEILING	N/A		
GLASS	122	North Florida Glass	
CERAMIC TILE	CBC 1253408	Blake Const Co.	
FLOOR COVERING	CBC 1253408	Blake Const Co.	
ALUM/VINYL SIDING	N/A		
GARAGE DOOR	000218	County Line Garage Door	
METAL BLDG ERECTOR	N/A		

F.S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001882

DATE 04/05/2011 PARCEL ID # 22-3S-16-02267-119

APPLICANT BLAKE N. LUNDE,II. PHONE 386.758.3540

ADDRESS 3101 W US HWY 90, STE 102 LAKE CITY FL 32055

OWNER JEFF & PAT BENSON PHONE

ADDRESS 664 NW COUNTRY LAKE DRIVE LAKE CITY FL 32055

CONTRACTOR BLAKE LUNDE,II. PHONE 386.754.5810

LOCATION OF PROPERTY LAKE JEFFERY TO SCENIC LAKE TL.TO COUNTRY LAKE DRIVE,TR AND THE PROPERTY IS ON THE R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COUNTRY LK IN W.B 119 1

SIGNATURE

INSTALLATION REQUIREMENTS

[X] Culvert size will be 18 inches in diameter with a total lenght of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00

ICC EVALUATION SERVICE

Most Widely Accepted and Trusted

ICC-ES Evaluation Report

ESR-3210

Issued March 1, 2011

This report is subject to renewal in one year.

www.icc-es.org | (800) 423-6587 | (562) 699-0543 *A Subsidiary of the International Code Council®*

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 21 00—Thermal Insulation

REPORT HOLDER:

DEMILEC (USA) LLC
2925 GALLERIA DRIVE
ARLINGTON, TEXAS 76011
(817) 640-4900
www.demilecusa.com
info@demilecusa.com

EVALUATION SUBJECT:

HEATLOK SOY® 200 SPRAY-APPLIED POLYURETHANE FOAM INSULATION

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 *International Building Code®* (IBC)
- 2009 *International Residential Code®* (IRC)
- 2009 *International Energy Conservation Code®* (IECC)
- Other Codes (see Section 8.0)

Properties evaluated:

- Surface-burning characteristics
- Physical properties
- Thermal resistance
- Attic and crawl space installation
- Air permeability
- Water vapor transmission
- Water-resistive barrier
- Fire-resistance-rated construction
- Exterior walls in Types I through IV construction

2.0 USES

HEATLOK SOY® 200 spray-applied polyurethane foam plastic insulation is used as a nonstructural thermal insulating material in Types I, II, III, IV and V construction under the IBC and in dwellings under the IRC. The insulation is for use in wall cavities, floor/ceiling assemblies, or attics and crawl spaces when installed in accordance with Section 4.4. Under the IRC, the insulation may be used as air-impermeable insulation when installed in accordance with Section 3.4. When installed in accordance with Section 4.5, the insulation may be used as an alternative to the water-resistive barriers required in IBC Section 1404.2 and IRC Section R703.2. The insulation may be used in nonload-bearing, fire-resistance-rated walls when construction is in accordance with Section 4.6. The insulation also may be used in exterior walls of Type I, II, III or IV construction when used as described in Section 4.7.

3.0 DESCRIPTION

3.1 General:

HEATLOK SOY® 200 spray-applied foam insulation is rigid, medium-density, polyurethane foam plastic that is installed as a component of floor/ceiling and wall assemblies. The insulation is a two-component, spray-applied foam plastic with a nominal in-place density of 2.0 pcf (32 kg/m^3). The insulation is produced in the field by combining a polymeric isocyanate (A100 component) with a polymeric resin (B200 component). The insulation liquid components are supplied in 55-gallon (208 L) drums and/or 250-gallon (946 L) totes and have a shelf life of one year when stored in factory-sealed containers at temperatures between 59°F (15°C) and 77°F (25°C).

3.2 Surface-burning Characteristics:

The insulation, at a maximum thickness of 4 inches (102 mm) and a nominal density of 2.0 pcf (32 kg/m^3), has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E 84. Thicknesses of up to 9$^1/_4$ inches (235 mm) for wall cavities and 11$^1/_4$ inches (286 mm) for ceiling cavities are recognized, based on testing in accordance with NFPA 286, when the insulation is covered with a minimum $^1/_2$-inch-thick (12.7 mm) gypsum board or an equivalent thermal barrier complying with, and installed in accordance with, the applicable code.

3.3 Thermal Resistance, *R*-values:

The insulation has thermal resistance (*R*-value) at a mean temperature of 75°F (24°C) as shown in Table 1.

3.4 Vapor Retarder:

The insulation has a vapor permeance of less than 1 perm [5.7x10^{-11} kg/(Pa-s-m^2)], in accordance with ASTM E 96, when applied at a minimum thickness of 1.2 inches (30.5 mm), and qualifies as Class II vapor retarder under the IRC.

3.5 Air Permeability:

The insulation, at a minimum thickness of 1$^1/_2$ inches (38 mm), is considered air-impermeable insulation in accordance with Section R806.4 of the IRC, based on testing in accordance with ASTM E 283 and ASTM E 2178.

3.6 Intumescent Primer and Coating:

3.6.1 BlazeLok™ TB 200 Primer: BlazeLok™ TB 200 primer is a one-component, water-based liquid coating manufactured by TPR[2] Corporation. The gray-colored coating has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E 84. The coating is supplied in 5-gallon (19L) pails and/or 55-gallon (208 L) drums and has a shelf life of one year when stored in factory-sealed containers at temperatures between 45°F (7°C) and 90°F (32°C). The coating is applied in one coat with a manufacturer-recommended spray gun to a substrate with a temperature of at least 50°F (10°C). The primer requires 1.5 hours of drying time before application of the coating.

3.6.2 BlazeLok™ TB 200 Intumescent Coating: Blazelok™ TB 200 intumescent coating, manufactured by TPR[2] Corporation, is a one-component, water-based liquid coating that is white in color. Blazelok™ TB 200 is supplied in 5-gallon (19 L) pails and/or 55-gallon (208 L) drums and has a shelf life of one year when stored in factory-sealed containers at temperatures between 45°F (7°C) and 90°F (32°C). The coating is applied in one coat with a manufacturer recommended spray gun to a substrate with a temperature of at least 50°F (10°C).

4.0 INSTALLATION

4.1 General:

HEATLOK SOY® 200 spray-applied polyurethane foam insulation must be installed in accordance with the manufacturer's published installation instructions, the applicable code and this report. A copy of the manufacturer's published installation instructions must be available at all times on the jobsite during installation.

4.2 Application:

The insulation is spray-applied on the jobsite using a volumetric positive displacement pump as identified in the Demilec application manual. The insulation must be applied when the ambient temperature is greater than 23°F (-5°C). The insulation must not be used in areas that have a maximum in-service temperature greater than 180°F (82°C). The foam plastic must not be used in electrical outlet or junction boxes or in contact with water, rain or soil. The foam plastic must not be sprayed onto a substrate that is wet, or covered with frost or ice, loose scales, rust, oil, or grease. The insulation must be protected from the weather during and after application. Where insulation is used as an air-impermeable insulation, such as in unvented attic assemblies under IRC Section R806.4, the insulation must be installed at a minimum thickness of 1.5 inches (38 mm). The insulation must be applied in passes not exceeding 2 inches (51 mm) per pass and must be allowed to fully expand and cure for a minimum of 20 minutes prior to the application of the next additional pass.

4.3 Thermal Barrier:

4.3.1 Application with a Prescriptive Thermal Barrier: HEATLOK SOY® 200 insulation must be separated from the interior of the building by an approved thermal barrier of $^1/_2$-inch-thick (12.7 mm) gypsum wallboard or an equivalent 15-minute thermal barrier complying with, and installed in accordance with, IBC Section 2603.4 or IRC Section R316.4, as applicable, except where insulation is in an attic or crawl space as described in Section 4.4. Thicknesses of up to $9^1/_4$ inches (235 mm) for wall cavities and $11^1/_4$ inches (286 mm) for floor/ceiling cavities are recognized, based on room corner fire testing in accordance with NFPA 286.

4.3.2 Application without a Prescriptive Thermal Barrier: The prescriptive 15-minute thermal barrier or ignition barrier may be omitted when installation is in accordance with this section (Section 4.3.2). The insulation, primer and intumescent coating may be spray-applied to the interior facing of walls, the underside of the roof sheathing or roof rafter, and in crawl spaces, and may be left exposed as an interior finish without a prescribed 15-minute thermal barrier or ignition barrier. The thickness of the foam plastic applied to the underside of roof sheathing must not exceed $11^1/_4$ inches (286 mm). The thickness of the spray foam insulation applied to vertical wall surfaces must not exceed $9^1/_4$ inches (235 mm). The foam plastic must be covered on all surfaces with BlazeLok™ TB 200 primer applied over the foam plastic at a minimum wet film thickness of 7 mils (4 mils dry or 170 square feet per gallon). BlazeLok™ TB 200 intumescent coating must be applied over the primer at a minimum wet film thickness of 14 mils (8 mils dry or 120 square feet per gallon). The primer and the coating must be applied over the insulation in accordance with the coating manufacturer's instructions and this report. Surfaces to be coated must be dry, clean, and free of dirt, loose debris and other substances that could interfere with adhesion of the coating.

4.4 Attics and Crawl Spaces:

4.4.1 Application with a Prescriptive Ignition Barrier: When the spray-applied insulation is installed within attics or crawl spaces where entry is made only for service of utilities, an ignition barrier must be installed in accordance with IBC Section 2603.4.1.6 or IRC Section R316.5.3 or R316.5.4, as applicable. The ignition barrier must be consistent with the requirements for the type of construction required by the applicable code, and must be installed in a manner so the foam plastic insulation is not exposed. The insulation as described in this section may be installed in unvented attics in accordance with IRC Section R806.4.

4.4.2 Application without a Prescriptive Ignition Barrier:

4.4.2.1 General: HEATLOK SOY® 200 spray-applied polyurethane foam insulation may be installed in attics and crawl spaces as described in this section without the ignition barriers required by IBC Section 2603.4.1.6 and IRC Sections R316.5.3 and R316.5.4, subject to the following conditions:

a. Entry to the attic or crawl space is only to service utilities, and no storage is permitted.

b. There are no interconnected attic or crawl space areas.

c. Air in the attic or crawl space is not circulated to other parts of the building.

d. Under-floor (crawl space) ventilation is provided when required by IBC Section 1203.3 or IRC Section R408.1, as applicable.

e. Attic ventilation is provided when required by IBC Section 1203.2 or IRC Section R806, except when air-impermeable insulation is permitted in unvented attics in accordance with Section R806.4 of the IRC.

f. Combustion air is provided in accordance with IMC Section 701.

4.4.2.1.1 Attics and Crawl Spaces: In attics and crawl spaces, the insulation may be spray-applied to the underside of the roof sheathing and/or rafters, to the underside of wood floors, and to vertical surfaces as described in this section. The thickness of the foam plastic

applied to the underside of the top of the space must not exceed $11^1/_2$ inches (292 mm), and the thickness when applied to vertical surfaces must not exceed $7^1/_2$ inches (190.5 mm).

4.4.2.1.2 Use on Attic Floors: The spray-applied foam insulation may be installed at a maximum thickness of $7^1/_2$ inches (190.5 mm) between and over the joists in attic floors.

4.5 Water-resistive Barrier:

HEATLOK SOY® 200 insulation may be used as the water-resistive barrier prescribed in IBC Section 1404.2 and IRC Section R703.2, when installed on exterior walls as described in this section. The insulation must be spray-applied to the exterior side of sheathing, masonry or other suitable exterior wall substrates to form a continuous layer of $1^1/_2$ inches (38 mm) minimum thickness. All construction joints and penetrations must be sealed with HEATLOK SOY® 200 insulation.

4.6 One-hour Nonload-bearing Fire-resistance-rated Wall Assemblies:

HEATLOK SOY® 200 insulation may be used as a component of a one-hour fire-resistance-rated, nonload-bearing wall assembly as described in this section (Section 4.6).

4.6.1 Interior and Exterior Face: Two layers of $^5/_8$-inch-thick (16 mm), Type X gypsum board complying with ASTM C 36 or ASTM C 1396 is installed on both the interior and exterior sides of $3^5/_8$-inch (92 mm), No. 20 gage, galvanized steel studs spaced 24 inches (610 mm) on center. The base layer of the wallboard is secured with No. 6 by $1^1/_4$-inch-long (32 mm), self-drilling drywall screws 8 inches (203 mm) on center along the perimeter and 12 inches on center (305 mm) in the field of the wallboard. The face layer of the wallboard is secured with No. 6 by $1^7/_8$-inch-long (48 mm), self-drilling drywall screws 8 inches (203 mm) on center along the perimeter and in the field of the wallboard. Gypsum board joints must be taped and joints and fasteners heads treated with joint compound in accordance with ASTM C 840 or GA-216.

4.6.2 Stud Cavity: Nominally $3^5/_8$-inch-thick (92 mm) HEATLOK SOY® 200 foam insulation is spray-applied in all stud cavities.

4.7 Exterior Walls of Type I, II, III and IV Construction:

4.7.1 General: When used on exterior walls of Type I, II, III, and IV construction, the HEATLOK SOY® 200 insulation must comply with Section 2603.5 of the IBC and this section (Section 4.7), and the insulation must be installed at a maximum thickness of 3.4 inches (86.4 mm). The potential heat of Demilec HEATLOK SOY® 200 insulation is 1791 Btu/ft^2 (20.3 Mj/m^2) per inch of thickness when tested in accordance with NFPA 259.

4.7.2 Interior Face: One layer of $^5/_8$-inch-thick (16 mm), Type X gypsum wallboard complying with ASTM C 36 or ASTM C 1396 is installed with the long dimension perpendicular to $3^5/_8$-inch-deep (92 mm), No. 20 gage steel studs spaced a maximum of 24 inches (609 mm) on center. The wallboard is attached with No. 6, $1^1/_4$-inch-long (31.8 mm), self-tapping screws located 8 inches (203 mm) on center along the perimeter and in the field of the wallboard. Wallboard joints must be taped and treated with joint compound in accordance with ASTM C 840 or GA-216. Fastener heads must also be treated with joint compound in accordance with ASTM C 840 or GA-216.

4.7.3 Exterior Face: One layer of $^5/_8$-inch-thick (16 mm) GP DensGlass® sheathing is attached to steel studs using $1^1/_4$-inch-long (31.8 mm), self-tapping screws spaced 8 inches (203 mm) on center along the perimeter and in the field of the sheathing. HEATLOK SOY® 200 spray-applied polyurethane foam insulation, at a maximum thickness of 3.4 inches (86.4 mm), is spray-applied onto the exterior of GP DensGlass® sheathing. Brick ties, $3^1/_2$ inches long (89 mm), must be installed at a nominal 24 inches (609 mm) on center to each vertical steel stud, using two No.14 by 5-inch-long (127 mm) hex head screws. Exterior veneer must be 4-inch-thick (102 mm) standard brick with a nominally 2-inch (51 mm) air gap between brick and the foam plastic insulation.

5.0 CONDITIONS OF USE

The HEATLOK SOY® 200 spray foam insulation described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The products must be installed in accordance with the manufacturer's published installations instructions, this evaluation report and the applicable code. If there are any conflicts between the manufacturer's published installation instructions and this report, this report governs.

5.2 The insulation must be separated from the interior of the building by an approved 15-minute thermal barrier, except when installation is as described in Sections 4.3.2 and 4.4.2. A thermal barrier must be installed between the insulation and the interior space above (crawl space) or below (attic).

5.3 The insulation must not exceed the thicknesses noted in Sections 3.2, 4.3, 4.4, 4.6, and 4.7.

5.4 The insulation must be protected from exposure to weather during and after application.

5.5 The insulation must be applied by contractors certified by Demilec (USA) LLC.

5.6 Use of the insulation in areas where the probability of termite infestation is "very heavy" must be in accordance with IBC Section 2603.8 or IRC Section R318.4, as applicable.

5.7 When use is on exterior walls of buildings of Types I, II, III, and IV, construction must be as described in Section 4.7.

5.8 Jobsite certification and labeling of the insulation must comply with IRC Sections N1101.4 and N1101.4.1 and IECC Sections 102.1.1 and 102.2.11, as applicable.

5.9 The insulation components A and B are produced in Arlington, Texas, under a quality control program with inspections by Intertek Testing Services NA (AA-647).

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Insulation (AC377), dated October 2010, including reports of tests in accordance with AC377 Appendix X.

6.2 Reports of air leakage testing in accordance with ASTM E 283.

6.3 Reports of air permeance tests in accordance with ASTM E 2178

6.4 Reports of water vapor transmission test in accordance with ASTM E 96.

6.5 Reports of room corner tests in accordance with NFPA 286.

6.6 Reports of tests in accordance with ASTM E 119.

6.7 Reports of fire propagation characteristics tests in accordance with NFPA 285.

6.8 Reports of potential heat of foam plastic tests in accordance with NFPA 259.

6.9 Data in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Sheathing Panels Used as Water-resistive Barriers (AC71), dated February 2003 (editorially revised June 2008).

7.0 IDENTIFICATION

Components of the insulation are identified with the manufacturer's name [Demilec (USA) LLC], address and telephone number; the product name (A100 component or B200 component); use instructions; the density; the flame-spread and smoke-developed indices; the date of manufacture; thermal resistance values; the evaluation report number (ESR-3210); and the name of the inspection agency (Intertek Testing Services NA).

Each Pail of Blazelok™ TB 200 intumescent coating and primer is identified with the manufacturer's name (TPR[2] Corporation) and address, the product name and use instructions.

8.0 OTHER CODES

8.1 Evaluation Scope:

In addition to the codes referenced in Section 1.0, the products described in this report have also been evaluated for compliance with the following codes:

- 2006 *International Building Code®* (2006 IBC)
- 2006 *International Residential Code®* (2006 IRC)
- 2006 *International Energy Conservation Code®* (2006 IECC)
- 2003 *International Building Code®* (2003 IBC)
- 2003 *International Residential Code®* (2003 IRC)
- 2003 *International Energy Conservation Code®* (2003 IECC)

8.2 Uses:

The products comply with the above-mentioned codes as described in Sections 2.0 through 7.0 of this report, with the revisions noted below:

- **Application with a Prescriptive Thermal Barrier:** See Section 4.3.1, except the approved thermal barrier must be installed in accordance with Section R314.4 of the 2006 IRC or Section R314.1.12 of the 2003 IRC.
- **Application with a Prescriptive Ignition Barrier:** See Section 4.4.1, except attics must be vented in accordance with Section 1203.2 of the 2006 and 2003 IBC or Section R806 of the 2003 IRC; and crawl space ventilation must be in accordance with Section 1203.3 of the 2006 and 2003 IBC, or Section R408 of the IRC, as applicable. Additionally, an ignition barrier must be installed in accordance with Section R314.5.3 or R314.5.3 of the 2006 IRC or Section R314.2.3 of the 2003 IRC, as applicable.
- **Application without a Prescriptive Ignition Barrier:** See Section 4.4.2, except attics must be vented in accordance with Section 1203.2 of the 2006 and 2003 IBC, or Section R806 of the IRC; and crawl space ventilation must be in accordance with Section 1203.3 of the 2006 and 2003 IBC, or Section R408 of the IRC, as applicable.
- **Protection Against Termites:** See Section 5.6, except use of the insulation in areas where the probability of termite infestation is "very heavy" must be in accordance with Section R320.5 of the 2006 IRC or Section R320.4 of the 2003 IRC.
- **Jobsite Certification and Labeling:** See Section 5.8, except jobsite certification and labeling must comply with Sections 102.1.1 and 102.1.11, as applicable, of the 2006 IECC.

TABLE 1—THERMAL RESISTANCE (*R*-VALUES)

THICKNESS (inches)	*R*-VALUE (°F.ft².h/Btu)
1	7.4
1.2	8.8
1.5	10.9
2	14.3
3.5	23.6
4	26.6
5	36.5
7.5	49.8
9.25	61.5
9.5	63
10	66.4
11.25	74.8
11.5	76.4

For **SI:** 1 inch = 25.4 mm; 1 [illegible] = 0.176 110°K.m²/W.

[1] *R*-values are calculated based on tested R values at 1- and 4-inch thicknesses.

Location: 6 **Project Name:** _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS		Steel	FL8841
1. Swinging	Therma-Tru	F16	FL5262.3
2. Sliding			
3. Sectional	CHI	2250 Series 18'x7'	FL10474.20
4. Roll up		Pressures (+18.7) (-20.8)	
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	PGT	2100 Series Low-E	FL 10287-R3
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass –through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding	Hardie Plank	lap Siding	FL 13192
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Certainteed	LANDMARK	FL 5414-R2
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspectio

Contractor or Contractor's Authorized Agent Signature

Blake N. Lunde II — Print Name

3-9-11 — Date

Location

Columbia County Building Permit Application 8170

For Office Use Only Application # 1103-49 Date Received 3/29/11 By LH Permit # 18821292 90

Zoning Official BLK Date 04.04.11 Flood Zone X Land Use RES. Low Den Zoning RSF-2

FEMA Map # N/A Elevation N/A MFE 139.5' River N/A Plans Examiner T.C. Date 4-1-11

Comments per plat Elevation Confirmation Letter at Slab.

☑ NOC ☐ EH ☐ Deed or PA ☑ Site Plan ☐ State Road Info ☑ Well letter ☐ 911 Sheet ☐ Parent Parcel #

☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ W Comp. letter

IMPACT FEES: EMS Fire Corr ☐ Sub VF Form

Road/Code School = TOTAL (Suspended) ☑ App Fee Paid * 8169

Septic Permit No. 11-0165 Fax 719-6708

Name Authorized Person Signing Permit Blake N. Lunde II Phone 758-3540

Address 3101 W US Hwy 90 Ste 102 LC, FL 32055 867-0296

Owners Name Jeff & Pat Benson Phone

911 Address (Get S/D Printout) 664 NW Country Lake Dr. L.C, FL 32055

Contractors Name Blake Construction Co. - BLAKE LUNDE, II Phone 754-5810

Address 3101 W US Hwy 90 Ste 102 L.C, FL 32055

Fee Simple Owner Name & Address

Bonding Co. Name & Address

Architect/Engineer Name & Address Mark Disosway POB 868 L.C, FL 32056

Mortgage Lenders Name & Address First Federal Savings Bank. L.C, FL.

* Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy

Property ID Number 22-3S-16-02267-119 Estimated Cost of Construction 288,337

Subdivision Name Country Lake in Wardborough Lot 119 Block Unit Phase

Driving Directions Lake Jeffery to Senic Lake Dr. T-L to Country Lake Dr. T-R. Property 1/4 mile down on Right.

Number of Existing Dwellings on Property 0

Construction of SFD Total Acreage .88 Lot Size

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 29' 6"

Actual Distance of Structure from Property Lines - Front 65' Side 45' Side 45' Rear 121'

Number of Stories 1½ Heated Floor Area 2797 Total Floor Area 3546 Roof Pitch 12/12 - 9/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction. **CODE:** Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.

- JW - SPOKE W/ BLAKE 9.4.11

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW; Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full.
This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: ***YOU ARE HEREBY NOTIFIED*** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: **I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.**

NOTICE TO OWNER: **There are some properties that may have deed restrictions recorded upon them.** These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

(Owners Must Sign All Applications Before Permit Issuance.

Jeffrey D. Benson Patricia T. Benson
Owners Signature ****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Contractor's Signature (Permitee)

Contractor's License Number CBC 1253408
Columbia County Competency Card Number 498 clc

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 25 **day of** March **20** 11

Personally known ✓ **or Produced Identification** _____

Betty M Federico
State of Florida Notary Signature (For the Contractor)

SEAL:

BETTY M. FEDERICO
MY COMMISSION # DD 948505
EXPIRES: December 23, 2013
Bonded Thru Notary Public Underwriters

PAT LYNCH
LYNCH DRILLING CORP.
P. O. BOX 934
BRANFORD, FL 32008
(386) 935-1076 PHONE
(386) 935-1199 FAX

DATE: 3-30-11

CUSTOMER: Jeff & Pat Benson

LOCATION: 664 NW Country Lake DR
Parcel # 22-035-16-02267-119
Lake City, FL

WE WILL CONSTRUCT A 4' WATER WELL COMPLETE WITH 4" BLACK WATER WELL STEEL CASING, IHP SUBMERSIBLE PUMP (20GPM) WITH 1 1/4 " GALVANIZED DROP PIPE, AND AN 81 GALLON CAPTIVE AIR TANK (21.9 GALLON DRAWDOWN)

WELL WILL BE COMPLETE AT THE WELL SITE. WE DO NOT INCLUDE ELECTRICAL NOR PLUMBING CONNECTIONS FROM THE WELL TO THE HOME AND/OR POWER POLE.

ANY VARIATIONS OF THE ABOVE ARE SUBJECT TO APPROVAL FROM THE CUSTOMER AND/OR CONTRACTOR PRIOR TO COMMENSEMENT OF THE INDIVIDUAL JOB.

THANK YOU Lynch.

Blake Const
fax to: 719-6708

NOT RESPONSIBLE FOR THE QUALITY OF WATER

41.50

Return to:
Terry McDavid
P.O. Box 1328
Lake City, FL 32056
11-38

THIS INSTRUMENT WAS PREPARED BY:

FIRST FEDERAL BANK OF FLORIDA

4705 WEST U.S. HIGHWAY 90

P.O. BOX 2029

LAKE CITY, FLORIDA 32056

Inst:201112004811 Date:3/30/2011 Time:4:56 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 4 B:1212 P:700

PERMIT NO: _____ TAX FOLIO NO.: 02267-119

NOTICE OF COMMENCEMENT

STATE OF FLORIDA

COUNTY OF COLUMBIA

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of Property:
Lot 19, COUNTRY LAKE IN WOODBOROUGH, PHASE 1, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 97-99, public records, Columbia County, Florida.

2. General description of improvement: **Construction of Dwelling**

3. Owner information:

a. Name and address: Jeffrey D. Benson and Patricia T. Benson
613 Concord Ct. The Villages, FL 32162

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By: Donnie Dew
Deputy Clerk
Date: March 30 2011

b. Interest in property: **Fee Simple**

c. Name and address of fee simple title holder (if other than Owner): **None**

4. a. Contractor (name and address):
Blake Construction Company
3101 US Highway 90 W, Suite 102
Lake City, FL 32055

b. Contractor's phone number
386-754-6708

5. Surety:

a. Name and address: None

b. Phone Number

c. Amount of bond:

6. Lender: **FIRST FEDERAL BANK OF FLORIDA**

4705 WEST U.S. HIGHWAY 90

P.O. BOX 2029

LAKE CITY, FL 32056

(386) 755-0600

7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: NONE

8. In addition to himself, Owner designates **Paula Hacker of First Federal Bank of Florida , 4705 West U.S. Highway 90 / P.O. Box 2029, Lake City, Fl 32056** to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statues.

9. Expiration date of notice of commencement (the expirationd date is 1 year from the date of recording unless a different date is specified).

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713, 13, FLORIDA STATUES AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY, A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECITON. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Jeffrey D. Benson

Jeffrey D. Benson

Signature of Owner or Owner's Authorized

Officer/Director Partner/ Manager

_____

Signatory's Title/Office

The foregoing instrument was acknowledged before me this 30th day of March, 20 11, by Jeffrey D. Benson (name of person) as _____ (type of authority, e.g. officer, trustee, attorney in fact) for: _____ (name of party on behalf of whom instrument was executed.

Deette F. Brown

DEETTE F. BROWN
MY COMMISSION # EE 015915
EXPIRES: October 22, 2014
Bonded Thru Notary Public Underwriters

Signature of Notary Public - State of Florida

Print,

Type, or Stamp Commission Name of

Notary

Public Commission Number : _____

_____ Personally Known _____

_____ or Produced Indentification

_____

Verification Pursuant to Section 92. 525. Florida Statues

Under penalties of perjury, I de_clare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Jeffrey D Benson

Jeffrey D. Benson

Siganture of Natual Person Signing Above

PREPARED BY AND RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Inst:2007003279 Date:02/09/2007 Time:16:25
Doc Stamp-Deed : 559.30
S.T. DC,P.DeWitt Cason,Columbia County B:1110 P:1074

Property Appraiser's Identification Number R02252-009 & ~~R02268-004~~ 02267-19

TM File No: 07-34

WARRANTY DEED

This Warranty Deed, made this 9th day of February, 2007, BETWEEN MS, DM & BL, LLC, a Florida limited liability company, whose post office address is 3101 US Highway 90 West, Suite 101, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and JEFFREY D. BENSON AND PATRICIA T. BENSON, Husband and Wife whose post office address is 12945 SW 112th Avenue, Miami, FL 33176-4453, grantee*.

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth: that said grantor, for and in consideration of the sum of Ten Dollars ($10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot 19, Country Lake In Woodborough, Phase 1, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 97-99, public records, Columbia County, Florida.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

(Signature of First Witness)

TERRY MCDAVID
(Typed Name of First Witness)

(Signature of Second Witness)

Karen H. Wright
(Typed Name of Second Witness)

MS, DM & BL, LLC

BY: Deborah S. Myles (SEAL)
Deborah S. Myles, Managing Member

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 9th day of February, 2007, by Deborah S. Myles, Managing Member of MS, DM & BL, LLC, a Florida limited liability company, who is/are personally known to me or who has/have produced _____ as identification and who did not take an oath.

My Commission Expires:

Notary Public
Printed, typed, or stamped name:

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

Inst:2007003279 Date:02/09/2007 Time:16:25
Doc Stamp-Deed : 559.30
DC,P.DeWitt Cason,Columbia County B:1110 P:1075

Columbia County Property Appraiser

DB Last Updated: 2/17/2011

2010 Tax Year

Tax Collector | Tax Estimator | Property Card | Parcel List Generator | Interactive GIS Map | Print

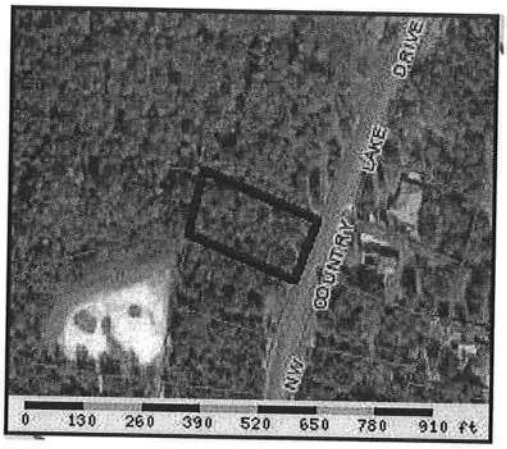
Parcel: 22-3S-16-02267-119

<< Next Lower Parcel | Next Higher Parcel >>

<< Prev Search Result: 3 of 5 Next >>

Owner & Property Info

Owner's Name	BENSON JEFFREY D & PATRICIA T		
Mailing Address	613 CONCORD CT THE VILLAGES, FL 32162		
Site Address	664 NW COUNTRY LAKE DR		
Use Desc. (code)	VACANT (000000)		
Tax District	2 (County)	**Neighborhood**	22316
Land Area	0.880 ACRES	**Market Area**	06
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
LOT 19 COUNTRY LAKE IN WOODBOROUGH PHASE 1. WD 1110-1074			



Property & Assessment Values

2010 Certified Values		
Mkt Land Value	cnt: (0)	$32,400.00
Ag Land Value	cnt: (1)	$0.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$32,400.00
Just Value		$32,400.00
Class Value		$0.00
Assessed Value		$32,400.00
Exempt Value		$0.00
Total Taxable Value		Cnty: $32,400 Other: $32,400 | Schl: $32,400

2011 Working Values

NOTE:
2011 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Show Working Values

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
2/9/2007	1110/1074	WD	V	U	09	$79,900.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

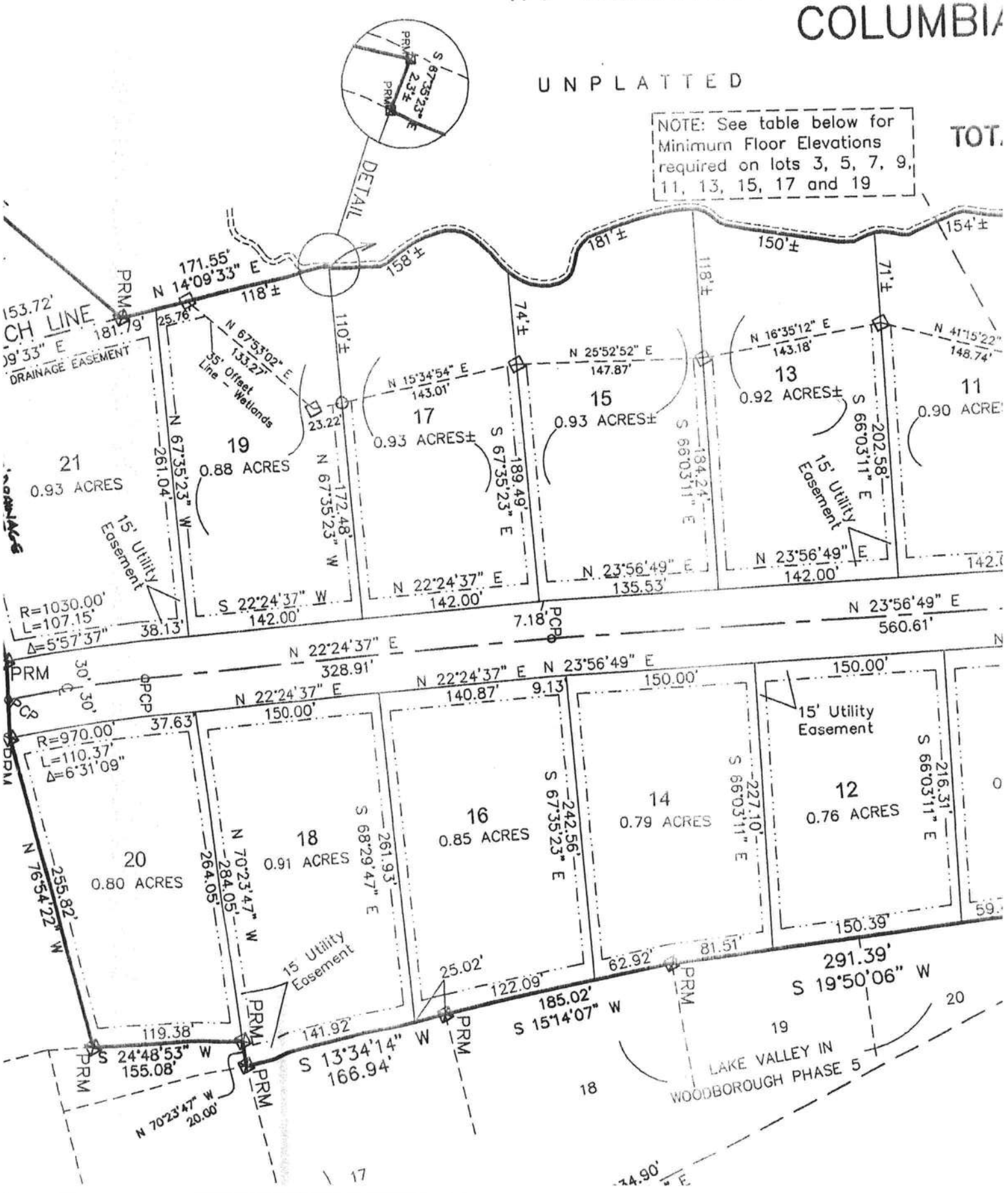
Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	1 LT - (0000000.880AC)	1.00/1.00/1.00/1.00	$26,244.00	$26,244.00

Columbia County Property Appraiser

DB Last Updated: 2/17/2011

COUNTRY LAKE IN

IN SECTION 22, TOWN
COLUMBIA



1103-49

Julius Lee

1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

RE: 366563 - BLAKE CONST. - BENSON RES.

Site Information:
Project Customer: BLAKE CONST. Project Name: 366563 Model: BENSON RES.
Lot/Block: 19 Subdivision: COUNTRY LAKES
Address: 664 NW COUNTRY LAKE DR
City: COLUMBIA CTY State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: BLAKE N. LUNDE II License #: RR0067618
Address: 2250 SW JAGUAR DR
City: LAKE CITY, State: FL

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2007/TPI2002 Design Program: MiTek 20/20 7.1
Wind Code: ASCE 7-05 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 51 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	I4669427	CJ1	3/22/011	18	I4669444	PB06	3/22/011
2	I4669428	CJ2	3/22/011	19	I4669445	PB07	3/22/011
3	I4669429	CJ3	3/22/011	20	I4669446	PB08	3/22/011
4	I4669430	CJ4	3/22/011	21	I4669447	PB08G	3/22/011
5	I4669431	CJ4A	3/22/011	22	I4669448	PB09	3/22/011
6	I4669432	CJ5	3/22/011	23	I4669449	PB10	3/22/011
7	I4669433	EJ2	3/22/011	24	I4669450	T02	3/22/011
8	I4669434	EJ7	3/22/011	25	I4669451	T02G	3/22/011
9	I4669435	EJ7A	3/22/011	26	I4669452	T03	3/22/011
10	I4669436	EJ7B	3/22/011	27	I4669453	T04	3/22/011
11	I4669437	FG1	3/22/011	28	I4669454	T05	3/22/011
12	I4669438	HJ11	3/22/011	29	I4669455	T06	3/22/011
13	I4669439	PB01	3/22/011	30	I4669456	T07	3/22/011
14	I4669440	PB02	3/22/011	31	I4669457	T08	3/22/011
15	I4669441	PB03	3/22/011	32	I4669458	T09	3/22/011
16	I4669442	PB04	3/22/011	33	I4669459	T10	3/22/011
17	I4669443	PB05	3/22/011	34	I4669460	T11	3/22/011

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 (Lake City).

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.

JULIUS S.K. LEE
LICENSE
No 34869
STATE OF FLORIDA
PROFESSIONAL ENGINEER

March 22,2011
Julius Lee

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	CJ1	JACK	1	1	I4669427

Job Reference (optional)

Builders FrstSource, Lake City, FL 32055 — 7.140 s Oct 1 2009 MiTek Industries, Inc. Tue Mar 22 12:00:12 2011 Page 1

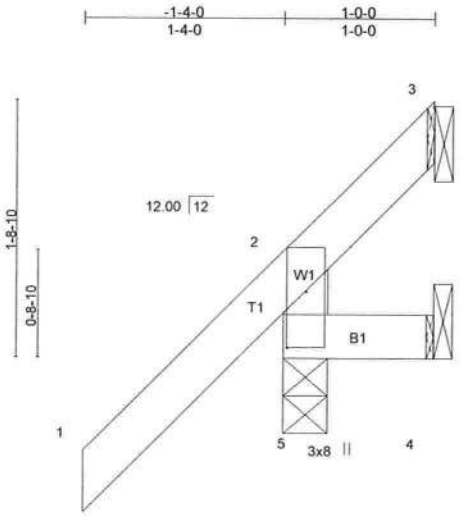


Plate Offsets (X,Y): [5:0-4-7,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

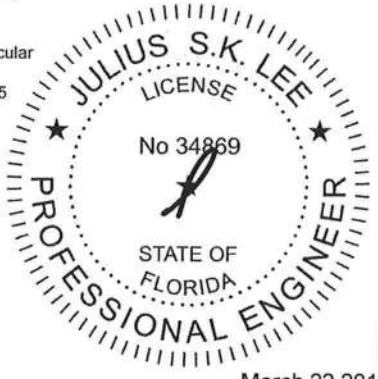
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=177/0-3-8, 4=-17/Mechanical, 3=-26/Mechanical
Max Horz 5=173(LC 6)
Max Uplift 5=-205(LC 6), 4=-17(LC 1), 3=-26(LC 1)
Max Grav 5=177(LC 1), 4=9(LC 4), 3=49(LC 6)

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=20ft; Cat. II; Exp C; 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
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 205 lb uplift at joint 5, 17 lb uplift at joint 4 and 26 lb uplift at joint 3.
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



March 22,2011

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 BCSI1 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	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	CJ3	SPECIAL	1	1	I4669429
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.140 s Oct 1 2009 MiTek Industries, Inc. Tue Mar 22 12:00:13 2011 Page 1

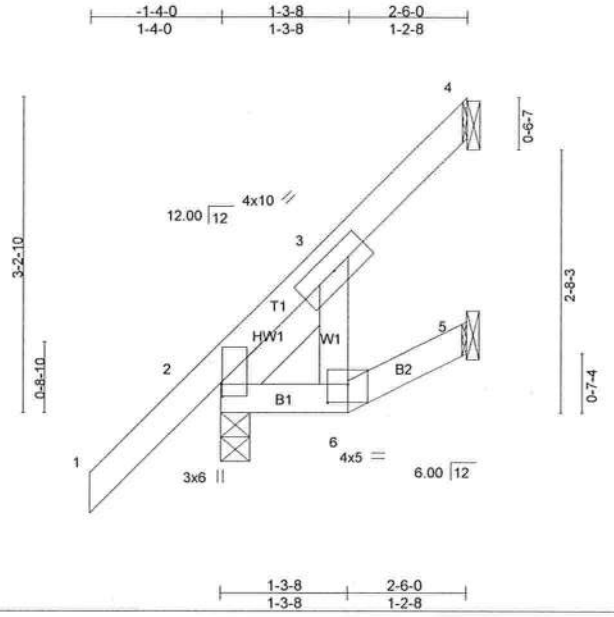


Plate Offsets (X,Y): [2:0-1-8,0-0-2], [6:0-2-8,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	6	>999	240	Weight: 17 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
SLIDER Left 2 X 4 SYP No.2 1-5-2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

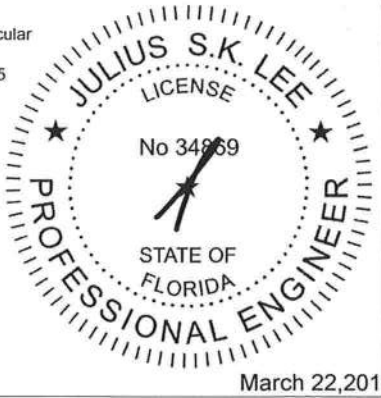
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=53/Mechanical, 2=170/0-3-8, 5=6/Mechanical
Max Horz 2=247(LC 6)
Max Uplift 4=-111(LC 6), 2=-102(LC 6)
Max Grav 4=53(LC 1), 2=170(LC 1), 5=17(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=20ft; Cat. II; Exp C; 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
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 111 lb uplift at joint 4 and 102 lb uplift at joint 2.
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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	CJ4A	SPECIAL	1	1	I4669431
					Job Reference (optional)

Builders FrstSource, Lake City, FL 32055 — 7.140 s Oct 1 2009 MiTek Industries, Inc. Tue Mar 22 12:00:13 2011 Page 1

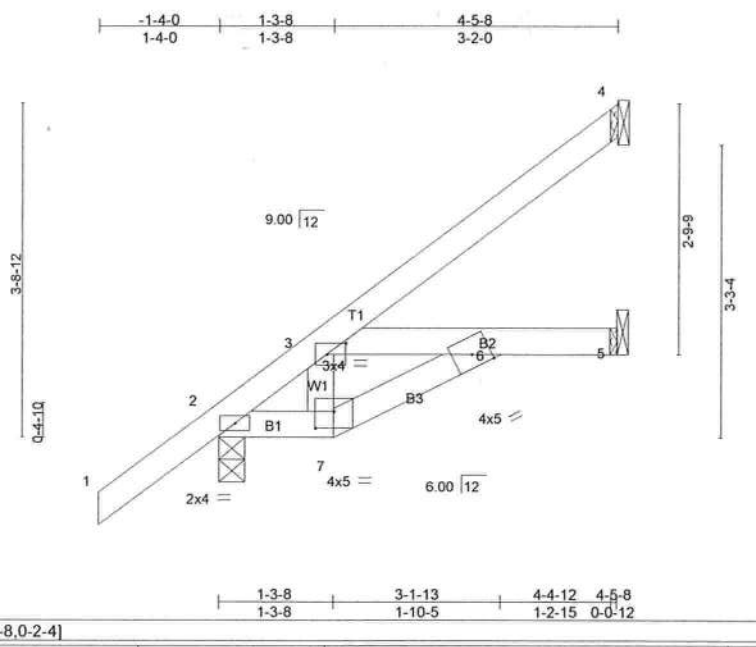


Plate Offsets (X,Y): [3:0-2-8,0-1-8], [7:0-2-8,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.20	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.18	Vert(TL)	-0.03	3-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	6	>999	240	Weight: 22 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

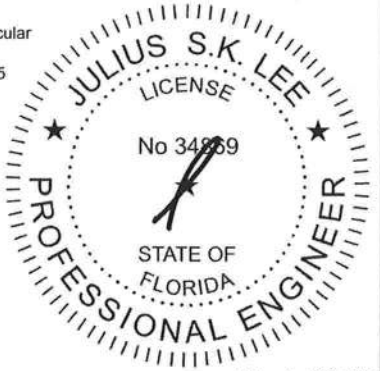
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=78/Mechanical, 2=240/0-3-8, 5=53/Mechanical
Max Horz 2=277(LC 6)
Max Uplift 4=-118(LC 6), 2=-149(LC 6), 5=-23(LC 6)
Max Grav 4=78(LC 1), 2=240(LC 1), 5=90(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=20ft; Cat. II; Exp C; 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
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 118 lb uplift at joint 4, 149 lb uplift at joint 2 and 23 lb uplift at joint 5.
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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	EJ2	JACK	7	1	I4669433
					Job Reference (optional)

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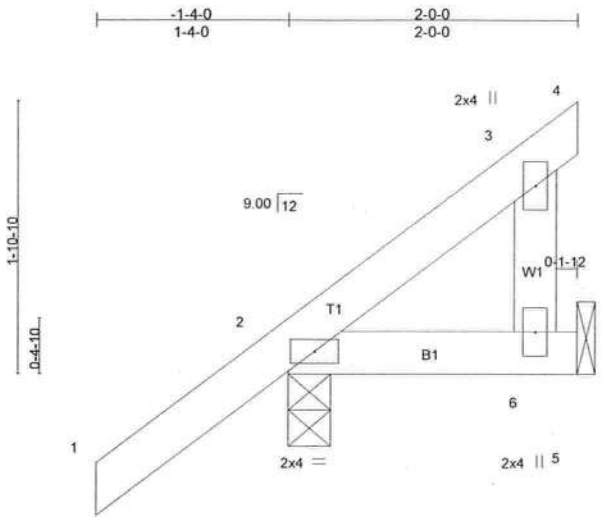


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00		n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.00	2	****	240	Weight: 11 lb	

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

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

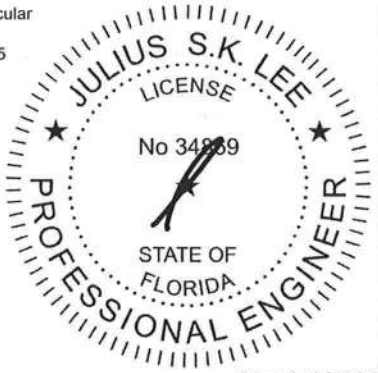
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=157/0-3-8, 6=31/Mechanical
Max Horz 2=169(LC 6)
Max Uplift 2=-161(LC 6), 6=-35(LC 7)
Max Grav 2=157(LC 1), 6=45(LC 4)

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=20ft; Cat. II; Exp C; 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
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 161 lb uplift at joint 2 and 35 lb uplift at joint 6.
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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	EJ7A	SPECIAL	2	1	I4669435
					Job Reference (optional)

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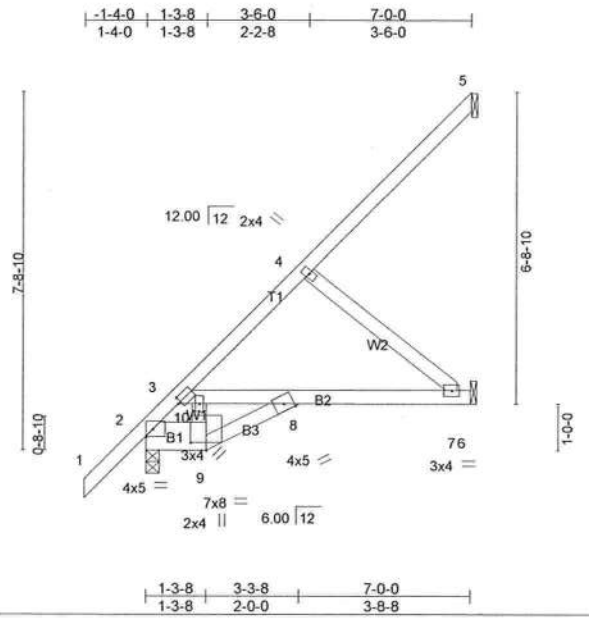


Plate Offsets (X,Y): [3:0-0-12,0-1-8], [9:0-4-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.12	7-8	>706	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.07	7-8	>999	240	Weight: 41 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1: 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3

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

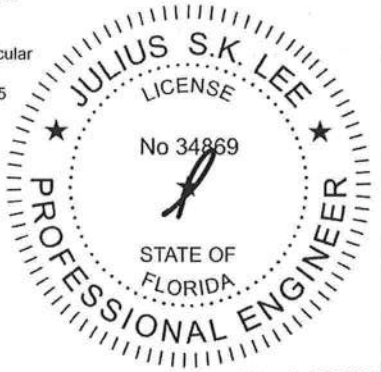
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 5=75/Mechanical, 2=306/0-3-8, 6=133/Mechanical
Max Horz 2=368(LC 6)
Max Uplift 5=-105(LC 6), 2=-35(LC 6), 6=-126(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 7-8=-264/126
WEBS 4-7=-163/342

NOTES (8-9)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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 105 lb uplift at joint 5, 35 lb uplift at joint 2 and 126 lb uplift at joint 6.
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

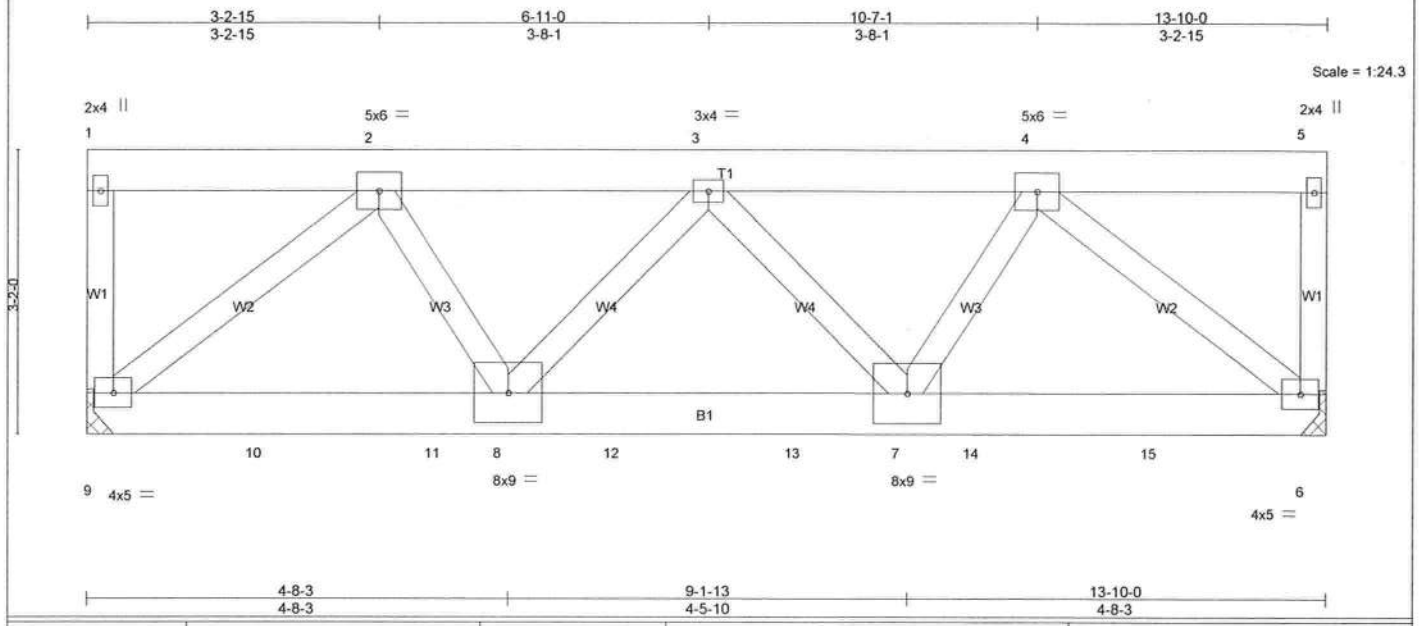


March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	FG1	SPECIAL	1	2	I4669437

Builders FrstSource, Lake City, FL 32055 — Job Reference (optional) — 7.140 s Oct 1 2009 MiTek Industries, Inc. Tue Mar 22 12:00:15 2011 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.06	7-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.11	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(TL)	0.03	6	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.05	7-8	>999	240	Weight: 199 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

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

REACTIONS (lb/size) 9=4599/Mechanical, 6=4623/Mechanical
Max Uplift 9=-1648(LC 3), 6=-1656(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6191/2210, 3-4=-6195/2212
BOT CHORD 9-10=-1556/4308, 10-11=-1556/4308, 8-11=-1556/4308, 8-12=-2406/6623, 12-13=-2406/6623, 7-13=-2406/6623, 7-14=-1557/4311, 14-15=-1557/4311, 6-15=-1557/4311
WEBS 2-9=-5574/2016, 2-8=-1395/4020, 3-8=-679/309, 3-7=-672/306, 4-7=-1396/4022, 4-6=-5577/2017

NOTES (12-14)
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, 2 X 6 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-7-0 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; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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) All bearings are assumed to be SYP No.2 .
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1648 lb uplift at joint 9 and 1656 lb uplift at joint 6.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 846 lb down and 356 lb up at 6-11-0 on top chord, and 1252 lb down and 431 lb up at 1-11-4, 1252 lb down and 431 lb up at 3-11-4, 1252 lb down and 431 lb up at 5-11-4, 1252 lb down and 431 lb up at 7-11-4, and 1252 lb down and 431 lb up at 9-11-4, and 1252 lb down and 431 lb up at 11-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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 HGUS28-2 to attach Truss to Carrying member

LOAD CASE(S) Standard

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

Continued on page 2

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	HJ11	SPECIAL	1	1	I4669438
					Job Reference (optional)

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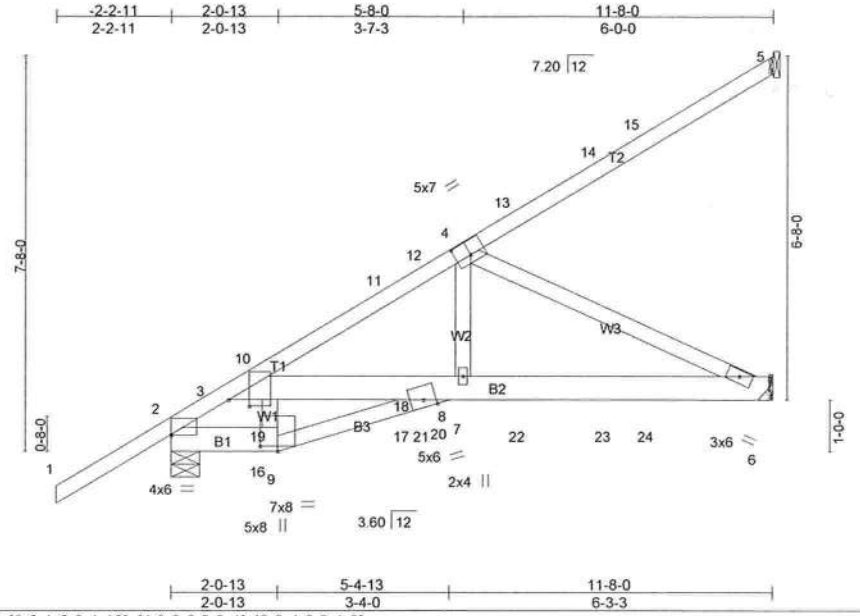


Plate Offsets (X,Y): [2:0-0-1,0-0-4], [3:0-1-8,0-4-13], [4:0-3-8,0-3-4], [9:0-4-0,0-1-3]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.76	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.06	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(TL)	-0.01	6	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.06	6-7	>999	240	Weight: 72 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D *Except*
B3: 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.

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

REACTIONS (lb/size) 5=134/Mechanical, 2=564/0-6-13, 6=449/Mechanical
Max Horz 2=518(LC 5)
Max Uplift 5=-224(LC 5), 2=-578(LC 5), 6=-618(LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-420/405, 3-10=-792/849, 10-11=-774/854, 11-12=-715/815, 4-12=-696/766
BOT CHORD 2-16=-526/228, 9-16=-526/228, 9-17=-408/212, 17-18=-405/214, 8-18=-412/242, 3-19=-683/513, 19-20=-683/513, 20-21=-683/513, 8-21=-683/513, 7-8=-1019/664, 7-22=-1011/656, 22-23=-1011/656, 23-24=-1011/656, 6-24=-1011/656
WEBS 3-9=-120/284, 4-7=-317/459, 4-6=-727/1122

NOTES (11-13)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 5, 578 lb uplift at joint 2 and 618 lb uplift at joint 6.
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) 2 lb down and 41 lb up at 1-8-12, 27 lb down and 21 lb up at 1-9-0, 17 lb down and 121 lb up at 4-3-0, 24 lb down and 128 lb up at 5-0-12, 19 lb down and 161 lb up at 6-9-0, and 25 lb down and 94 lb up at 8-4-12, and 103 lb up at 9-3-0 on top chord, and 4 lb up at 1-8-12, 24 lb up at 1-9-0, 13 lb up at 4-3-0, 60 lb down and 29 lb up at 4-10-12, 66 lb down and 39 lb up at 6-9-0, and 124 lb down and 87 lb up at 8-4-12, and 103 lb down and 192 lb up at 9-3-0 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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
13) Use Simpson LSU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Continued on page 2

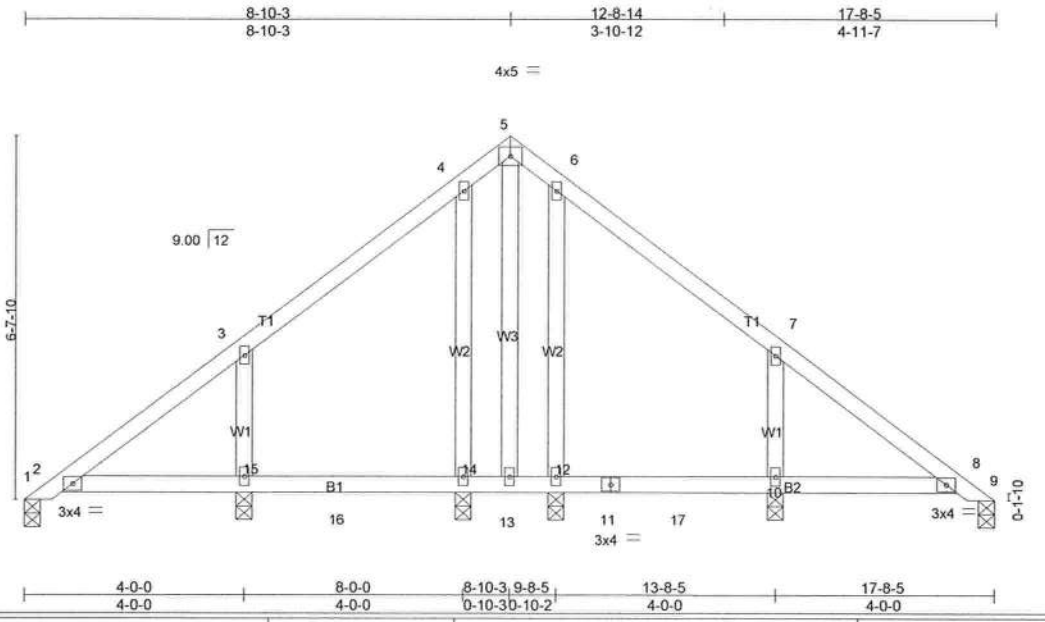
JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	PB01	PIGGYBACK	9	1	I4669439
					Job Reference (optional)

Builders FrstSource, Lake City, FL 32055 — 7.140 s Oct 1 2009 MiTek Industries, Inc. Tue Mar 22 12:00:16 2011 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.13	Vert(LL)	-0.01	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.01	14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	2-15	>999	240	Weight: 89 lb	

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

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

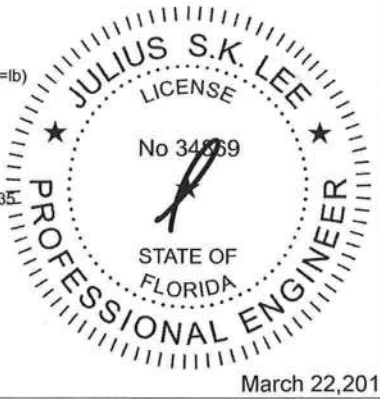
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 0-3-8.
(lb) - Max Horz 1=-233(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 9 except 15=-218(LC 6), 14=-118(LC 5), 10=-212(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 15=310(LC 10), 14=308(LC 1), 12=308(LC 1), 10=310(LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-255/239
WEBS 3-15=-228/325, 7-10=-228/325

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=20ft; Cat. II; Exp C; 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
3) All plates are 2x4 MT20 unless otherwise indicated.
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) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 9 except (jt=lb) 15=218, 14=118, 10=212.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE 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) 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



March 22,2011

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 paramenters 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 BCSI1 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	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	PB03	HIP PIGGYBACK	1	1	I4669441
					Job Reference (optional)

Builders FrstSource, Lake City, FL 32055 — 7.140 s Oct 1 2009 MiTek Industries, Inc. Tue Mar 22 12:00:17 2011 Page 1

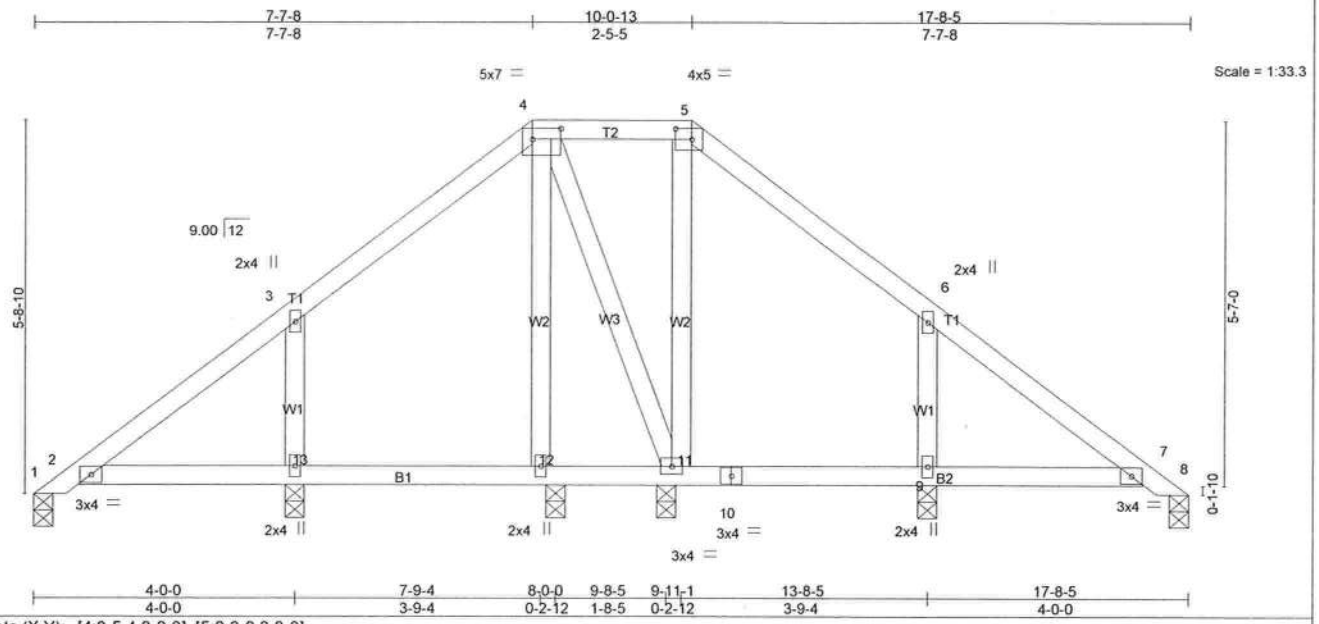


Plate Offsets (X,Y): [4:0-5-4,0-2-0], [5:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	2-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	2-13	>999	240	Weight: 86 lb	

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

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

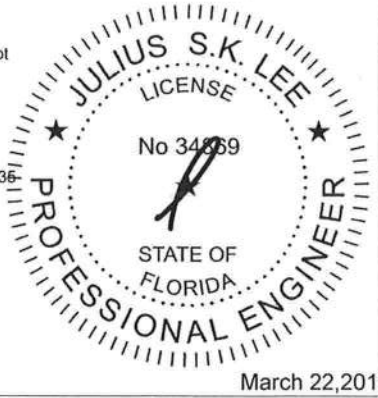
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 0-3-8.
(lb) - Max Horz 1=-201(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 11, 8 except 13=-217(LC 6), 9=-210(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 1, 12, 8 except 11=305(LC 1), 13=283(LC 10), 9=280(LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=-227/322, 6-9=-225/321

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=20ft; Cat. II; Exp C; 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
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 SYP No.2 .
7) Bearing at joint(s) 1, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 11, 8 except (jt=lb) 13=217, 9=210.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE 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) 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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669443
366563	PB05	MONO HIP PIGGYBACK	1	1	Job Reference (optional)	

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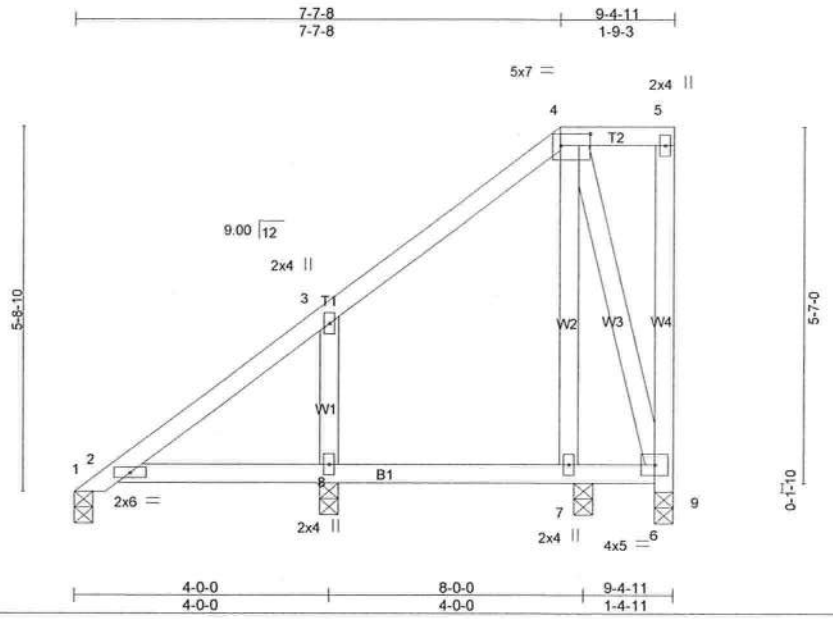


Plate Offsets (X,Y): [4:0-5-8,0-2-4]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.16	Vert(LL)	-0.01	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	2-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.01	9	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	2-8	>999	240	Weight: 56 lb	

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

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

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

REACTIONS All bearings 0-3-8.
(lb) - Max Horz 1=233(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 7, 9 except 8=-229(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9 except 8=291(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-361/3, 2-3=-317/68
WEBS 3-8=-232/372

NOTES (10-11)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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.
5) All bearings are assumed to be SYP No.2 .
6) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9 except (jt=lb) 8=229.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
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) 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 S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669445
366563	PB07	MONO HIP PIGGYBACK	1	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.140 s Oct 1 2009 MiTek Industries, Inc. Tue Mar 22 12:00:18 2011 Page 1

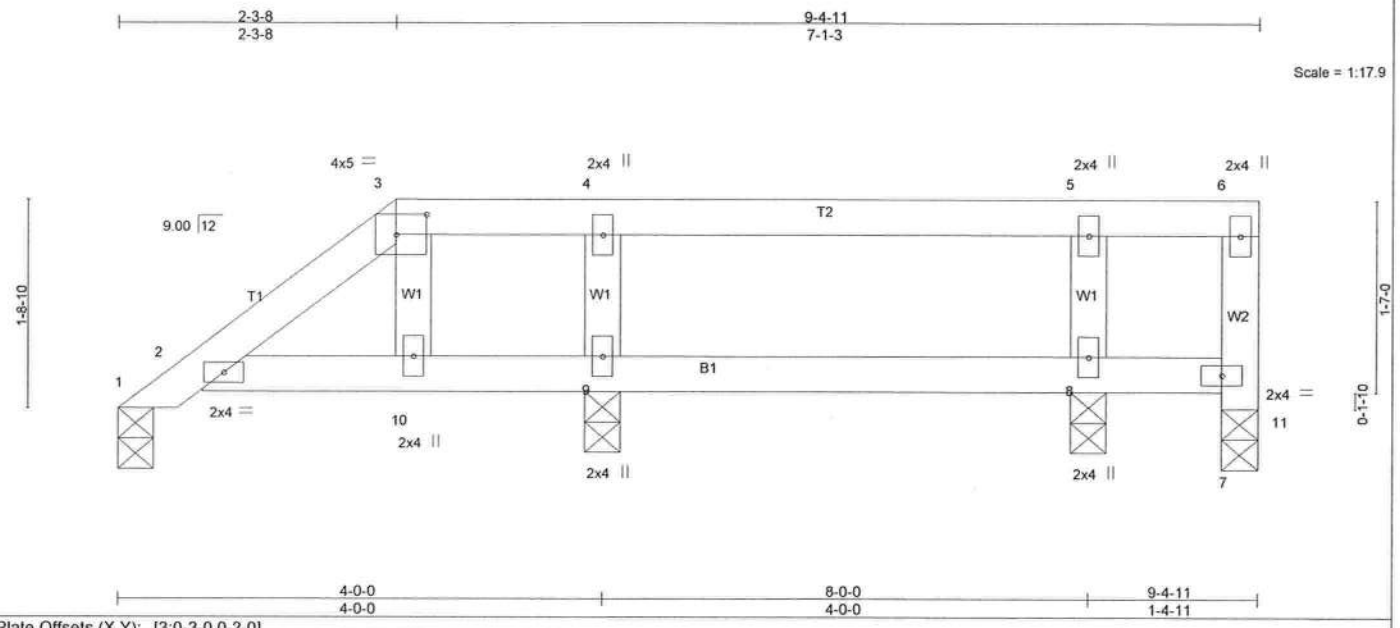


Plate Offsets (X,Y): [3:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.01	10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	2-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	2-10	>999	240	Weight: 34 lb	

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

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.

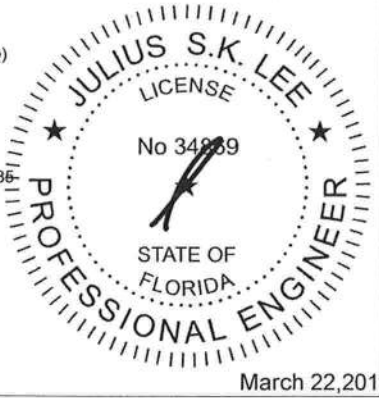
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 0-3-8.
(lb) - Max Horz 1=68(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 9=-126(LC 5), 8=-129(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 1, 8, 11 except 9=292(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-211/280

NOTES (10-11)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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.
5) All bearings are assumed to be SYP No.2 .
6) Bearing at joint(s) 1, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 9=126, 8=129.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
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) 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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669447
366563	PB08G	PIGGYBACK	2	1	Job Reference (optional)	

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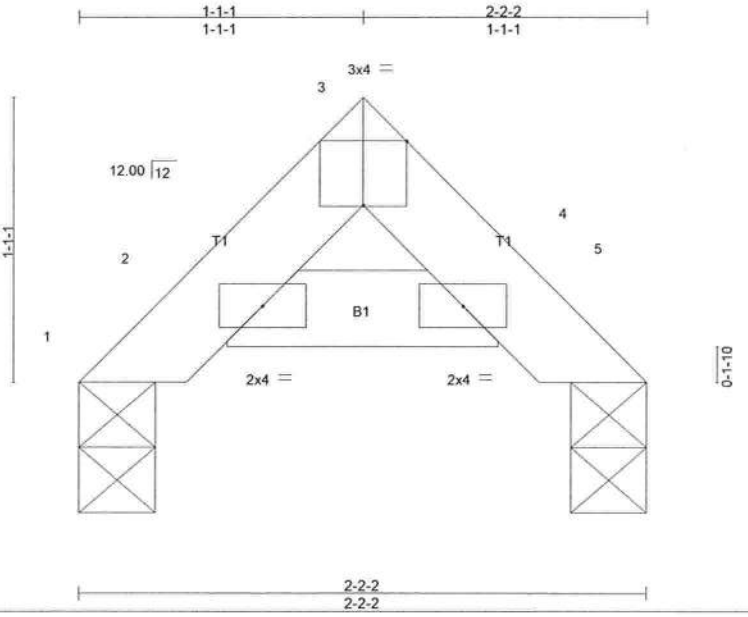


Plate Offsets (X,Y): [3:0-2-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.05	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.03	Vert(TL)	-0.00	2	>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	Weight: 6 lb	

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

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

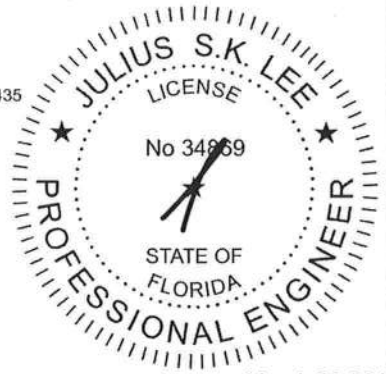
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=69/0-3-8, 5=69/0-3-8
Max Horz 1=47(LC 5)
Max Uplift 1=-37(LC 6), 5=-37(LC 7)

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

NOTES (10-11)
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=20ft; Cat. II; Exp C; 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
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 SYP No.2 .
6) 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
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) 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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	PB10	MONO PIGGYBACK	3	1	I4669449
					Job Reference (optional)

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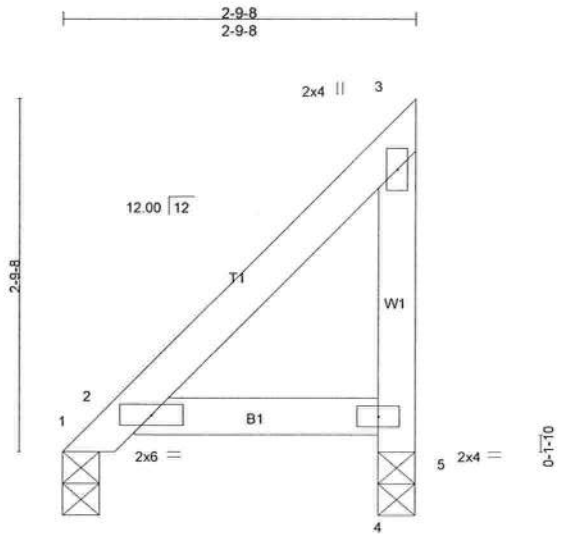


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.09	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.07	Vert(TL)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	2	>999	240	Weight: 12 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

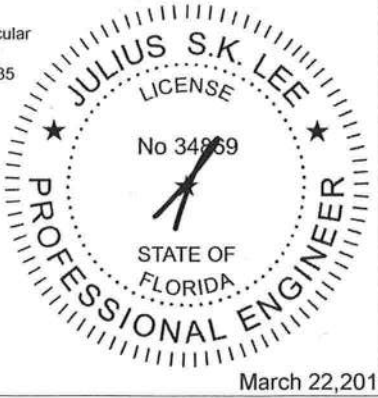
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=81/0-3-8, 5=80/0-3-8
Max Horz 1=103(LC 6)
Max Uplift 5=-85(LC 6)

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

NOTES (9-10)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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) 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE 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) 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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669451
366563	T02G	PIGGYBACK ATTIC	1	1	Job Reference (optional)	

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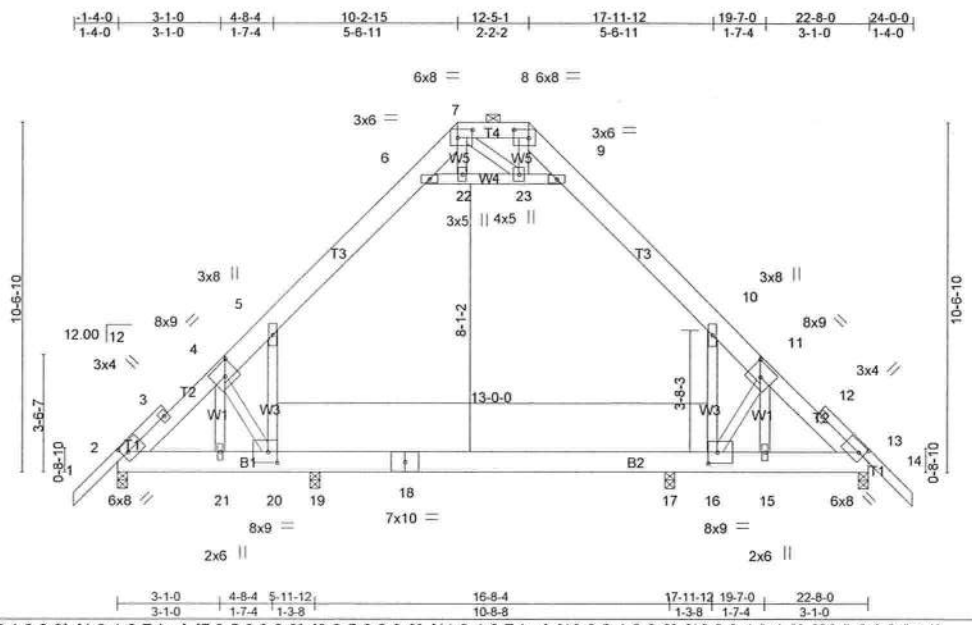

Plate Offsets (X,Y): [2:0-2-1,0-3-0], [4:0-4-8,Edge], [7:0-5-8,0-3-0], [8:0-5-8,0-3-0], [11:0-4-8,Edge], [13:0-2-1,0-3-0], [16:0-3-4,0-4-0], [20:0-3-8,0-3-14]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.10	17-19	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.15	17-19	>843	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(TL)	0.01	13	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	20-21	>999	240	Weight: 209 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D *Except* T3: 2 X 8 SYP No.1D, T1: 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except* W3: 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
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 All bearings 0-3-8.
(lb) - Max Horz 2=-451(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-355(LC 6), 13=-359(LC 7), 19=-332(LC 6), 17=-328(LC 7)
Max Grav All reactions 250 lb or less at joint(s) except 2=582(LC 1), 13=582(LC 1), 19=1434(LC 11), 17=1435(LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-536/395, 3-4=-458/377, 4-5=-456/435, 5-6=-675/414, 6-7=-258/149, 8-9=-251/148, 9-10=-676/414, 10-11=-455/416, 11-12=-457/354, 12-13=-536/377
BOT CHORD 2-21=-363/330, 20-21=-353/338, 19-20=-255/358, 18-19=-255/358, 17-18=-255/358, 16-17=-255/358, 15-16=-246/337, 13-15=-241/330
WEBS 5-20=-521/423, 10-16=-522/403, 6-22=-208/472, 22-23=-204/468, 9-23=-216/486, 4-20=-72/318, 11-16=-72/326

NOTES (14-15)
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=20ft; Cat. II; Exp C; 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
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, 6-22, 22-23, 9-23; Wall dead load (5.0psf) on member(s).5-20, 10-16
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 17-19, 16-17
8) All bearings are assumed to be SYP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 2, 359 lb uplift at joint 13, 332 lb uplift at joint 19 and 328 lb uplift at joint 17.
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) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
14) 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.
15) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Continued on page 2

JULIUS S.K LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

LOAD CASE(S) Standard

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669452
366563	T03	PIGGYBACK ATTIC	2	1	Job Reference (optional)	

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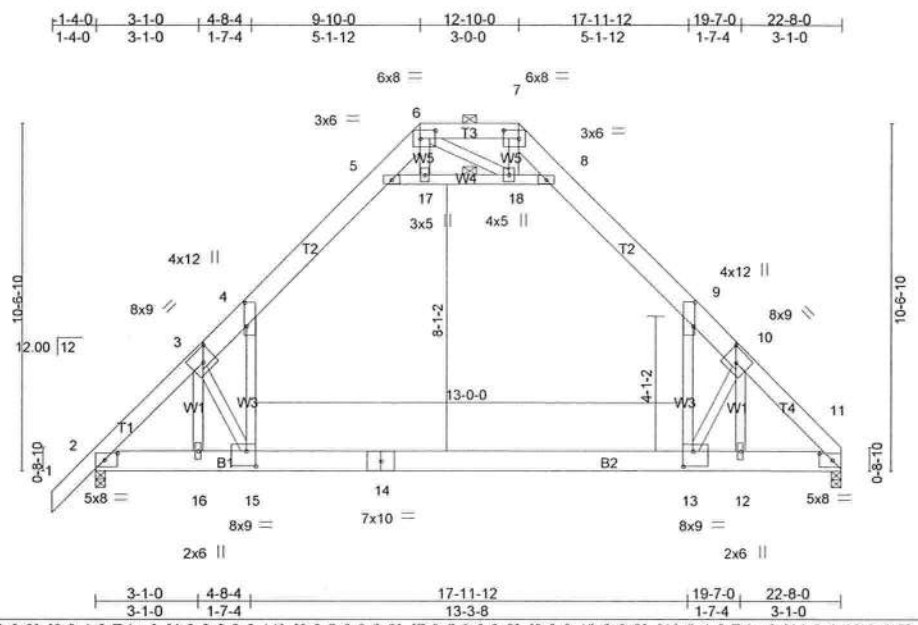

Plate Offsets (X,Y): [2:0-4-13,0-2-8], [3:0-4-8,Edge], [4:0-8-8,0-0-11], [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [9:0-8-13,0-0-9], [10:0-4-8,Edge], [11:0-4-13,0-2-8], [13:0-3-8,0-5-8], [15:0-3-8,0-5-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.83	Vert(LL)	-0.41	13-15	>660	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.71	Vert(TL)	-0.67	13-15	>402	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.12	13-15	>999	240	Weight: 209 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D *Except* T2: 2 X 8 SYP No.1D
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except* W3: 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 8-9-11 oc bracing.
WEBS 1 Row at midpt 5-8

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

REACTIONS (lb/size) 2=1576/0-3-8, 11=1491/0-3-8
Max Horz 2=385(LC 5)
Max Uplift 2=-136(LC 6), 11=-46(LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1859/299, 3-4=-2549/365, 4-5=-1124/398, 5-6=0/457, 7-8=0/494, 8-9=-1123/395, 9-10=-2556/394, 10-11=-1863/339, 6-7=-71/921
BOT CHORD 2-16=-199/1230, 15-16=-183/1273, 14-15=-38/1159, 13-14=-38/1159, 12-13=-135/1289, 11-12=-141/1247
WEBS 4-15=-54/1999, 9-13=-102/2011, 5-17=-2047/576, 17-18=-2027/572, 8-18=-2099/588, 3-16=-1060/105, 10-12=-1043/92, 3-15=-438/345, 10-13=-475/436

NOTES (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=20ft; Cat. II; Exp C; 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
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). 4-5, 8-9, 5-17, 17-18, 8-18; Wall dead load (5.0psf) on member(s).4-15, 9-13
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
8) All bearings are assumed to be SYP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 46 lb uplift at joint 11.
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

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

LOAD CASE(S) Standard

March 22,2011

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 BCSI1 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	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T05	PIGGYBACK ATTIC	1	1	I4669454
					Job Reference (optional)

Builders FrstSource, Lake City, FL 32055 — 7.140 s Oct 1 2009 MiTek Industries, Inc. Tue Mar 22 12:00:22 2011 Page 1

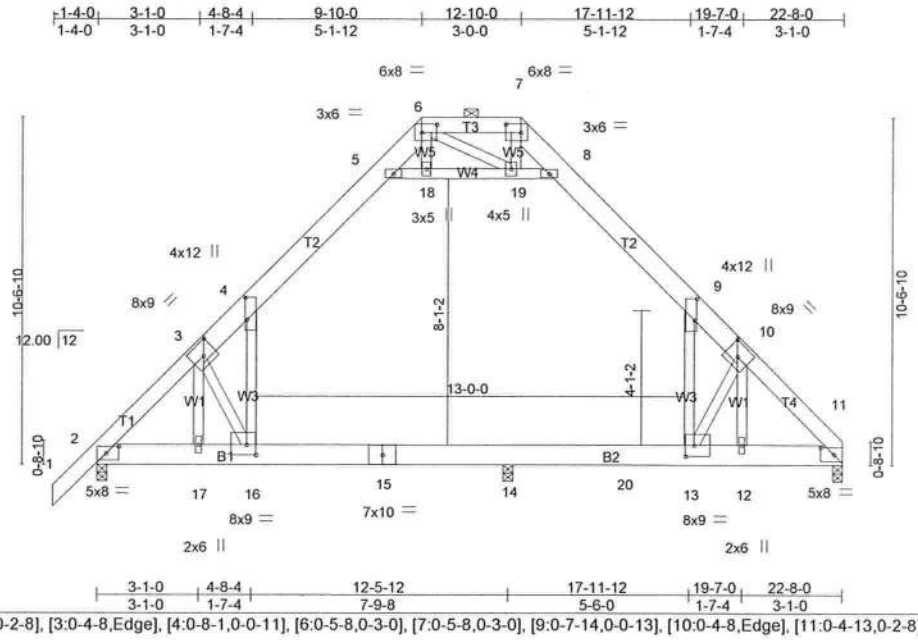

Plate Offsets (X,Y): [2:0-4-13,0-2-8], [3:0-4-8,Edge], [4:0-8-1,0-0-11], [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [9:0-7-14,0-0-13], [10:0-4-8,Edge], [11:0-4-13,0-2-8], [13:0-3-3,0-4-0], [16:0-3-5,0-3-11]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.10	13-14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.63	Vert(TL)	-0.15	13-14	>790	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(TL)	0.01	11	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.10	13-14	>999	240	Weight: 209 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D *Except*
T2: 2 X 8 SYP No.1D
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
W3: 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 9-10-2 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=1095/0-3-8, 11=1441/0-3-8, 14=1334/0-3-8
Max Horz 2=385(LC 5)
Max Uplift 2=-182(LC 6), 11=-201(LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1251/295, 3-4=-1251/352, 4-5=-770/408, 8-9=-757/393, 9-10=-1305/432, 10-11=-1590/437, 6-7=-88/332
BOT CHORD 2-17=-276/812, 16-17=-268/811, 15-16=-149/650, 14-15=-149/650, 14-20=-149/650, 13-20=-149/650, 12-13=-196/1029, 11-12=-209/1059
WEBS 4-16=-21/627, 9-13=-160/745, 5-18=-960/597, 18-19=-949/594, 8-19=-967/593, 10-12=-411/792, 3-16=-493/312, 10-13=-1041/574

NOTES (15-16)
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=20ft; Cat. II; Exp C; 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
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). 4-5, 8-9, 5-18, 18-19, 8-19; Wall dead load (5.0psf) on member(s).4-16, 9-13
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16, 13-14
8) All bearings are assumed to be SYP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2 and 201 lb uplift at joint 11.
10) Girder carries tie-in span(s): 5-0-0 from 16-0-0 to 22-8-0
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
13) Attic room checked for L/360 deflection.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
15) 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.
16) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Continued on page 2

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

LOAD CASE(S) Standard

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T06	ROOF TRUSS	5	1	I4669455
					Job Reference (optional)

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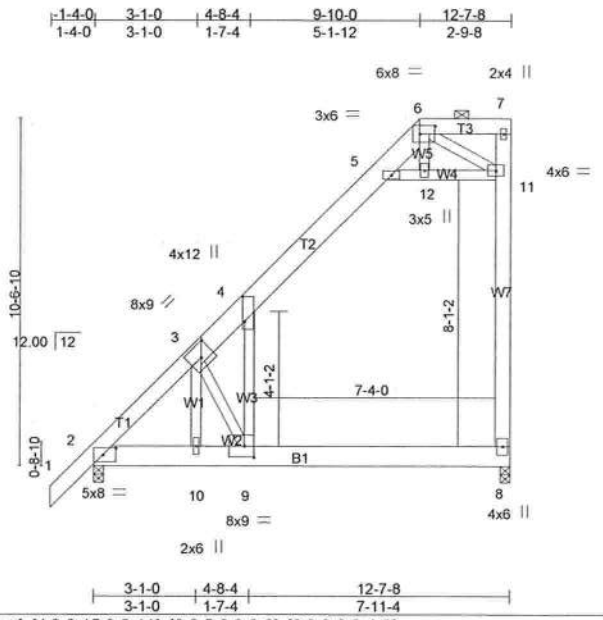


3-1-0 4-8-4 12-7-8
3-1-0 1-7-4 7-11-4

Plate Offsets (X,Y): [2:0-4-13,0-2-8], [3:0-4-8,Edge], [4:0-8-15,0-0-11], [6:0-5-8,0-3-0], [9:0-3-8,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.19	8-9	>767	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.34	8-9	>434	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(TL)	-0.00	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.24	8-9	>603	240	Weight: 139 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D *Except* T2: 2 X 8 SYP No.1D
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except* W7: 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 8-6-4 oc bracing.

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

REACTIONS (lb/size) 8=986/0-3-8, 2=773/0-3-8
Max Horz 2=493(LC 6)
Max Uplift 8=-177(LC 6), 2=-13(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-815/0, 3-4=-673/0, 4-5=-403/14, 6-7=-255/488, 8-11=-386/457
BOT CHORD 2-10=-649/514, 9-10=-618/494, 8-9=-290/140
WEBS 4-9=0/673, 3-10=-697/441, 3-9=-891/795, 5-12=-619/0, 11-12=-610/0, 6-11=-648/782

NOTES (12-13)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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.
5) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-12, 11-12; Wall dead load (5.0psf) on member(s).4-9
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-9
7) All bearings are assumed to be SYP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 8 and 13 lb uplift at joint 2.
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) Attic room checked for L/360 deflection.
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 S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

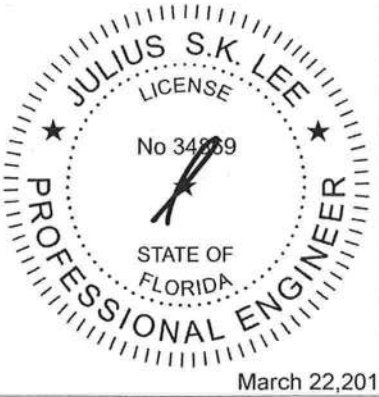
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T07	SPECIAL	1	1	I4669456
					Job Reference (optional)

NOTES (15-16)

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1601 lb down and 1610 lb up at 7-0-12, 859 lb down and 336 lb up at 9-0-12, 859 lb down and 337 lb up at 11-0-12, and 771 lb down and 331 lb up at 13-0-12, and 699 lb down and 331 lb up at 15-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
15) 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.
16) 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=-54, 4-6=-54, 2-9=-10, 7-8=-10
   Concentrated Loads (lb)
   Vert: 14=-1601(B) 15=-859(B) 16=-859(B) 17=-771(B) 18=-699(B)



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

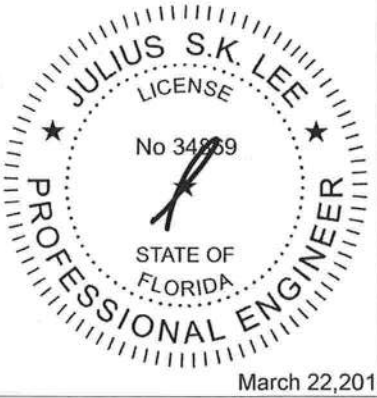
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T08	SPECIAL	1	1	I4669457
					Job Reference (optional)

NOTES (12-14)

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 174 lb up at 9-9-5, 21 lb down and 88 lb up at 11-10-1, 20 lb down and 83 lb up at 13-10-1, 20 lb down and 83 lb up at 15-10-1, 20 lb down and 83 lb up at 17-10-1, and 20 lb down and 83 lb up at 19-10-1, and 20 lb down and 83 lb up at 21-8-0 on top chord, and 607 lb down and 745 lb up at 9-9-5, 131 lb down and 146 lb up at 13-10-1, 131 lb down and 146 lb up at 15-10-1, 131 lb down and 146 lb up at 17-10-1, and 131 lb down and 146 lb up at 19-10-1, and 131 lb down and 146 lb up at 21-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-8=-54, 2-15=-10, 14-15=-10, 12-14=-10, 11-12=-10, 9-11=-10
   Concentrated Loads (lb)
   Vert: 5=-57(F) 16=-21(F) 17=-20(F) 18=-20(F) 19=-20(F) 20=-20(F) 21=-20(F) 22=-607(F) 23=-131(F) 24=-131(F) 25=-131(F) 26=-131(F) 27=-131(F)



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669459
366563	T10	SPECIAL	1	1	Job Reference (optional)	

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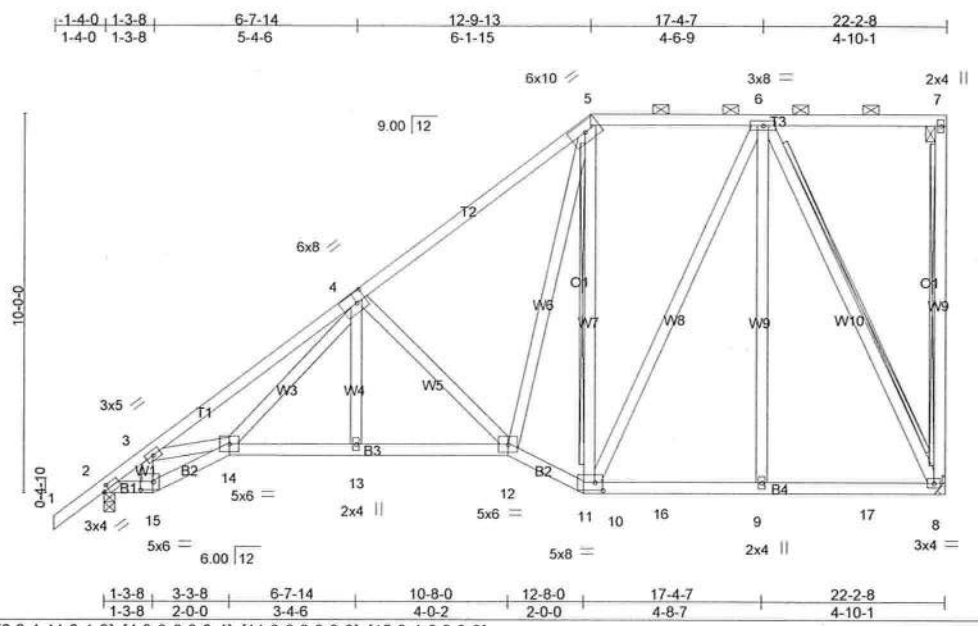


Plate Offsets (X,Y): [2:0-1-11,0-1-8], [4:0-3-0,0-3-4], [11:0-2-8,0-2-8], [15:0-4-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.42	Vert(LL)	-0.05	13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.09	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(TL)	0.06	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.08	12-13	>999	240	Weight: 185 lb	

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

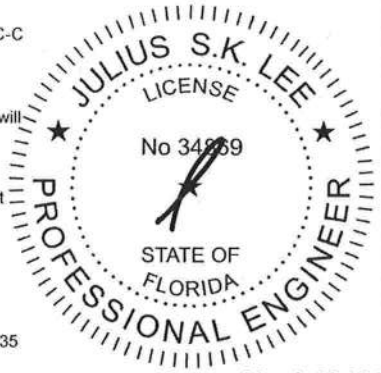
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 7-8, 5-10, 6-8
Fasten T and I braces to narrow edge of web with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

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

REACTIONS (lb/size) 8=869/Mechanical, 2=830/0-3-8
Max Horz 2=462(LC 6)
Max Uplift 8=-311(LC 5), 2=-265(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1056/436, 3-4=-1619/1034, 4-5=-848/508, 5-6=-456/383
BOT CHORD 2-15=-858/783, 14-15=-877/810, 13-14=-894/914, 12-13=-893/915, 11-12=-423/499, 10-11=-384/455, 10-16=-250/353, 9-16=-250/353, 9-17=-250/353, 8-17=-250/353
WEBS 3-15=-373/460, 3-14=-427/513, 4-14=-500/506, 4-12=-457/531, 5-12=-537/553, 5-10=-363/476, 6-10=-316/241, 6-8=-803/570

NOTES (11-13)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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 SYP No.2 .
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 8 and 265 lb uplift at joint 2.
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 33435
13) Use Simpson HTU26 to attach Truss to Carrying member



March 22,2011

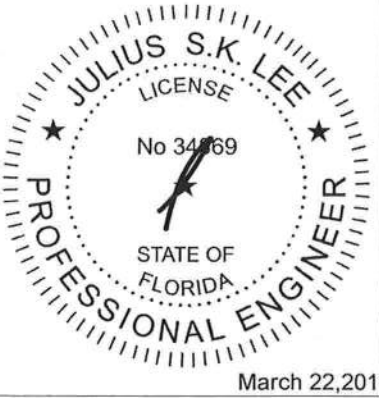
LOAD CASE(S) Standard

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T11	SPECIAL	1	1	I4669460
					Job Reference (optional)

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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669462
366563	T13	SPECIAL	3	1	Job Reference (optional)	

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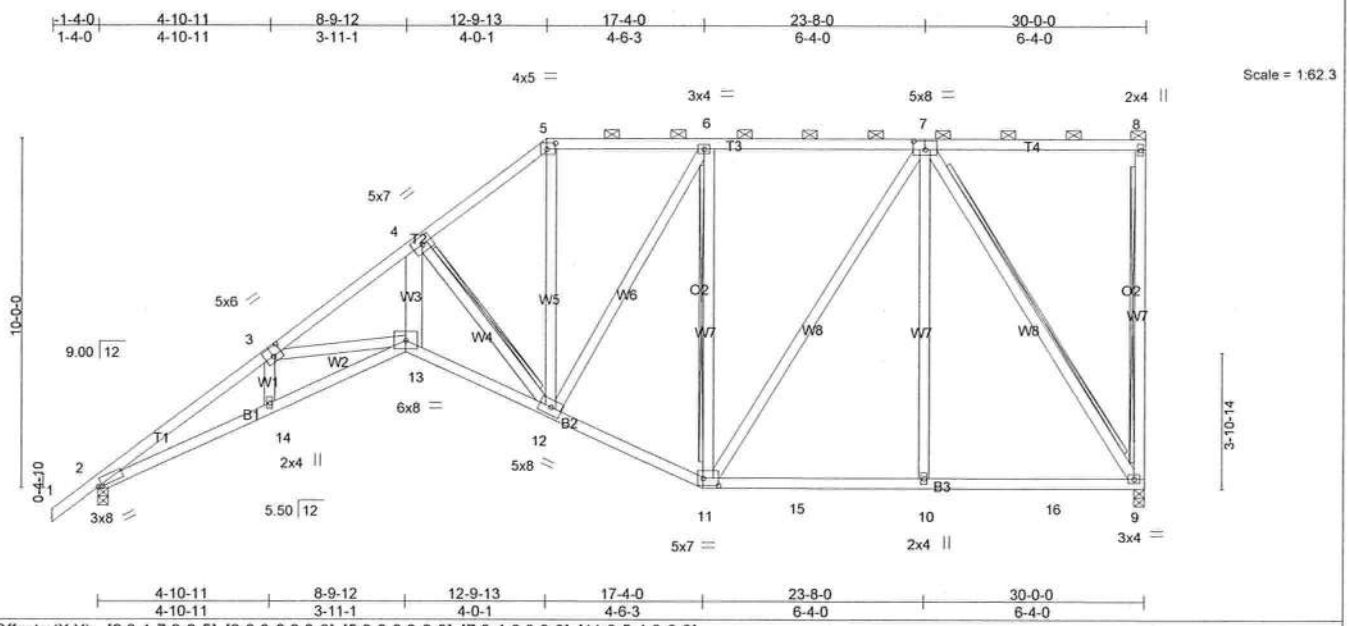

Plate Offsets (X,Y): [2:0-1-7,0-0-5], [3:0-3-0,0-3-0], [5:0-3-0,0-2-0], [7:0-4-0,0-3-0], [11:0-5-4,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.22	13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.40	13-14	>888	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(TL)	0.33	9	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.36	13-14	>993	240	Weight: 222 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3: 2 X 6 SYP No.1D

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

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

REACTIONS (lb/size) 9=1182/0-3-8, 2=1094/0-3-8
Max Horz 2=461(LC 6)
Max Uplift9=-412(LC 5), 2=-346(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3293/2433, 3-4=-2739/2053, 4-5=-1311/932, 5-6=-1007/819, 6-7=-835/623
BOT CHORD 2-14=-2564/2767, 13-14=-2525/2720, 12-13=-2073/2356, 11-12=-681/917, 11-15=-413/638, 10-15=-413/638, 10-16=-413/638, 9-16=-413/638
WEBS 3-13=-371/448, 4-13=-1789/2039, 4-12=-1809/1694, 5-12=-362/539, 6-12=-406/357, 6-11=-602/633, 7-11=-385/361, 7-10=0/313, 7-9=-1175/761

NOTES (11-12)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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 SYP No.2 .
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 412 lb uplift at joint 9 and 346 lb uplift at joint 2.
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 33435

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

LOAD CASE(S) Standard

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-254(F=-200), 3-4=-54, 4-7=-54, 1-12=-210(F=-200), 10-12=-10, 10-14=-50, 14-15=-10, 8-15=-50

Concentrated Loads (lb)

Vert: 12=-4613(F)

March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T14	SPECIAL	1	1	I4669464
					Job Reference (optional)

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NOTES (12-14)

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) 20 lb down and 68 lb up at 0-5-12, 20 lb down and 68 lb up at 2-5-12, 20 lb down and 68 lb up at 4-5-12, 20 lb down and 68 lb up at 6-5-12, 20 lb down and 68 lb up at 8-5-12, 20 lb down and 68 lb up at 10-5-12, 20 lb down and 68 lb up at 12-5-12, 20 lb down and 68 lb up at 14-5-12, 20 lb down and 68 lb up at 16-5-12, 20 lb down and 68 lb up at 18-5-12, 20 lb down and 68 lb up at 20-5-12, 20 lb down and 68 lb up at 22-5-12, 20 lb down and 68 lb up at 24-5-12, 20 lb down and 68 lb up at 26-5-12, 20 lb down and 68 lb up at 28-5-12, and 20 lb down and 68 lb up at 30-5-12, and 74 lb down and 101 lb up at 32-3-4 on top chord, and 131 lb down and 146 lb up at 0-5-12, 131 lb down and 146 lb up at 2-5-12, 131 lb down and 146 lb up at 4-5-12, 131 lb down and 146 lb up at 6-5-12, 131 lb down and 146 lb up at 8-5-12, 131 lb down and 146 lb up at 10-5-12, 131 lb down and 146 lb up at 12-5-12, 131 lb down and 146 lb up at 14-5-12, 131 lb down and 146 lb up at 16-5-12, 131 lb down and 146 lb up at 18-5-12, 131 lb down and 146 lb up at 20-5-12, 131 lb down and 146 lb up at 22-5-12, 131 lb down and 146 lb up at 24-5-12, 131 lb down and 146 lb up at 26-5-12, 131 lb down and 146 lb up at 28-5-12, and 131 lb down and 146 lb up at 30-5-12, and 141 lb down and 140 lb up at 32-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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

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 HGUS28 to attach Truss to Carrying member

LOAD CASE(S) Standard

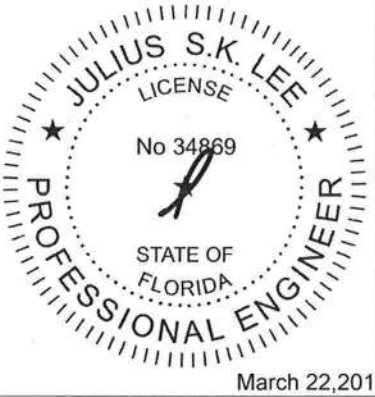
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-54, 13-31=-10, 31-34=-50, 34-36=-10, 36-38=-50, 38-39=-10, 39-42=-50, 42-44=-10, 44-47=-50, 7-47=-10

Concentrated Loads (lb)

Vert: 6=-74(B) 7=-141(B) 12=-131(B) 10=-131(B) 5=-20(B) 9=-131(B) 14=-20(B) 15=-20(B) 16=-20(B) 17=-20(B) 18=-20(B) 19=-20(B) 20=-20(B) 21=-20(B) 22=-20(B) 23=-20(B) 24=-20(B) 25=-20(B) 26=-20(B) 27=-20(B) 28=-20(B) 29=-131(B) 30=-131(B) 32=-131(B) 33=-131(B) 35=-131(B) 37=-131(B) 38=-131(B) 40=-131(B) 41=-131(B) 43=-131(B) 45=-131(B) 46=-131(B) 48=-131(B)



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669466
366563	T16	MONO HIP	1	1	Job Reference (optional)	

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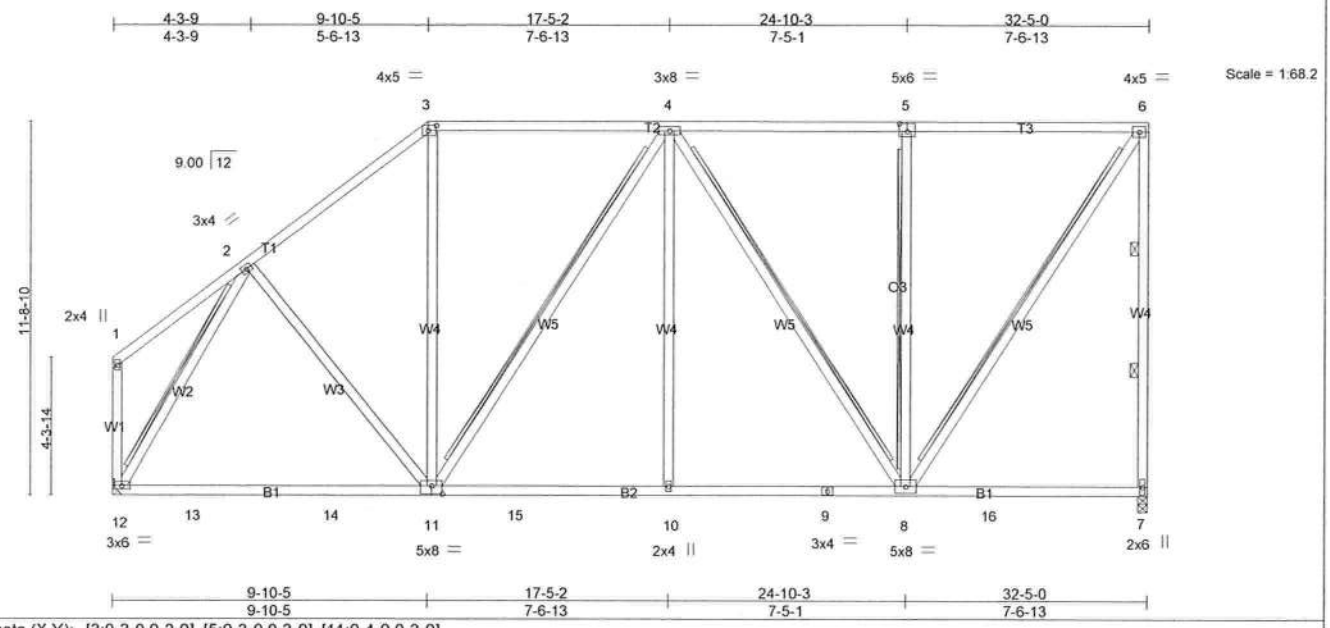


Plate Offsets (X,Y): [3:0-3-0,0-2-0], [5:0-3-0,0-3-0], [11:0-4-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.82	Vert(LL)	-0.32	11-12	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.49	11-12	>787	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(TL)	0.04	7	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.07	8-10	>999	240	Weight: 256 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W5,W1: 2 X 4 SYP No.2

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

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

REACTIONS (lb/size) 7=1445/0-3-8, 12=1375/Mechanical
Max Horz 12=302(LC 6)
Max Uplift 7=-473(LC 4), 12=-279(LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1170/660, 3-4=-865/630, 4-5=-741/452, 5-6=-742/453, 6-7=-1297/853
BOT CHORD 12-13=-705/679, 13-14=-705/679, 11-14=-705/679, 11-15=-662/1044, 10-15=-662/1044, 9-10=-662/1044, 8-9=-662/1044
WEBS 2-11=-148/289, 3-11=-80/311, 4-11=-328/227, 4-10=0/318, 4-8=-555/385, 5-8=-432/422, 6-8=-823/1344, 2-12=-1295/594

NOTES (10-12)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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 SYP No.2 .
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 473 lb uplift at joint 7 and 279 lb uplift at joint 12.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
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) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
12) Use Simpson HTU26 to attach Truss to Carrying member

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

LOAD CASE(S) Standard

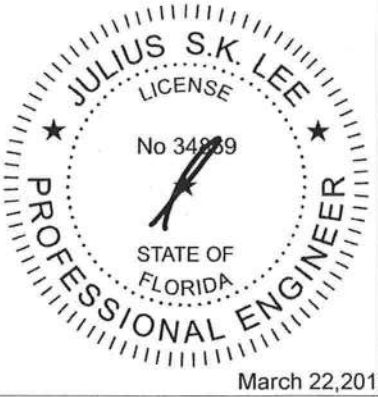
March 22,2011

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 paramenters 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 BCSI1 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	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T17	HIP	2	1	I4669467
					Job Reference (optional)

LOAD CASE(S) Standard



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
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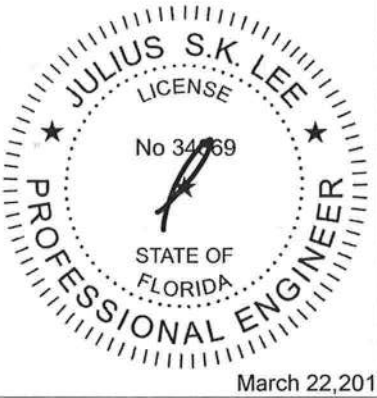
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T18	SPECIAL	2	1	I4669468
					Job Reference (optional)

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



March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T18G	SPECIAL	1	3	I4669469 Job Reference (optional)

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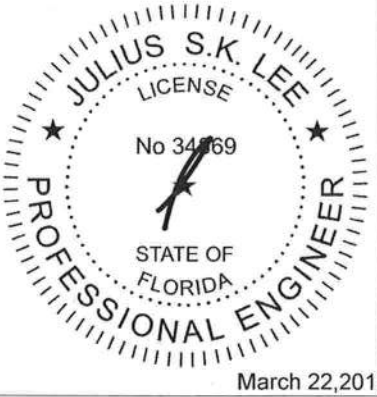
NOTES (16-17)

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2708 lb uplift at joint 1 and 939 lb uplift at joint 9.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4613 lb down and 1662 lb up at 9-0-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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: 1-3=-254(F=-200), 3-4=-54, 4-7=-54, 7-8=-54, 1-15=-210(F=-200), 13-15=-10, 13-17=-50, 17-18=-10, 10-18=-50, 9-10=-10
   Concentrated Loads (lb)
   Vert: 15=-4613(F)



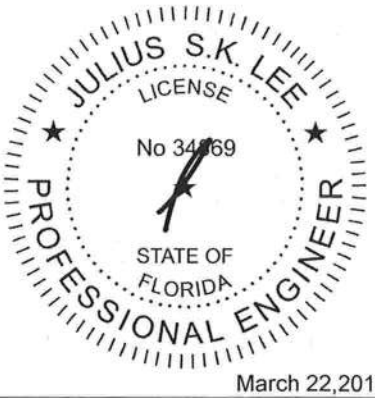
March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T19	SPECIAL	6	1	I4669470
					Job Reference (optional)

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



March 22,2011

Julius Lee
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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669472
366563	T20G	GABLE	1	1	Job Reference (optional)	

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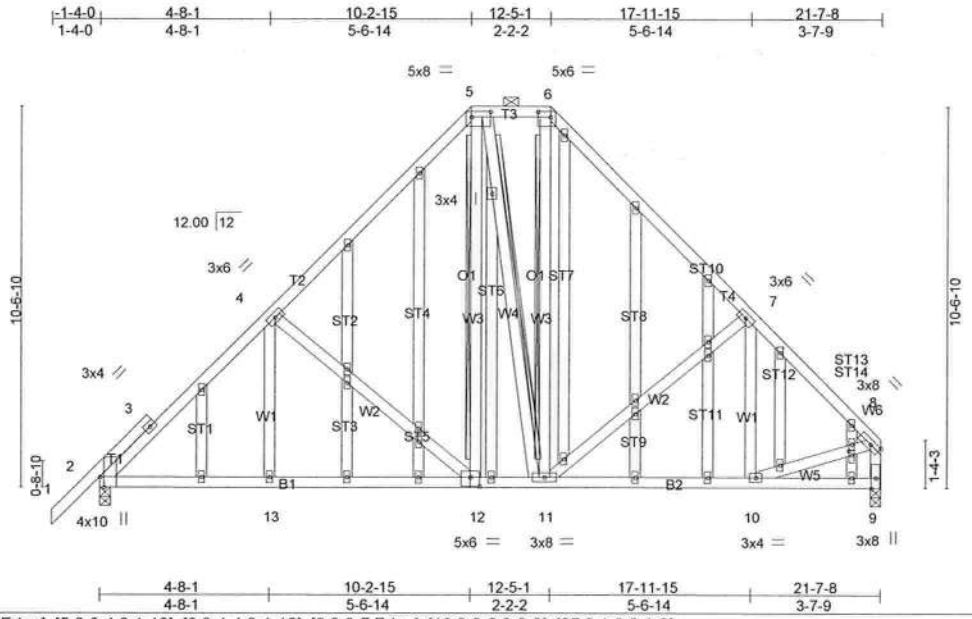

Plate Offsets (X,Y): [2:0-3-8,Edge], [5:0-6-4,0-1-12], [6:0-4-4,0-1-12], [8:0-3-7,Edge], [12:0-3-0,0-3-0], [37:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.83	Vert(LL)	-0.03	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.07	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(TL)	-0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.15	12-13	>999	240	Weight: 247 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W6: 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 5-2-14 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-12, 5-11, 6-11
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS (lb/size) 2=1064/0-3-8, 9=953/0-3-8
Max Horz 2=479(LC 5)
Max Uplift 2=-1201(LC 6), 9=-1044(LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1229/2034, 3-4=-996/1925, 4-5=-886/1553, 5-6=-501/1179, 6-7=-873/1531, 7-8=-974/1662, 8-9=-935/1599
BOT CHORD 2-13=-1367/796, 12-13=-1367/796, 11-12=-675/505, 10-11=-1095/646
WEBS 4-13=-379/177, 4-12=-379/904, 5-12=-772/265, 5-11=-228/273, 6-11=-661/229, 7-11=-210/562, 8-10=-1104/656

NOTES (15-16)

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=20ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) All bearings are assumed to be SYP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1201 lb uplift at joint 2 and 1044 lb uplift at joint 9.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

JULIUS S.K. LEE LICENSE No 34859 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669473
366563	T21G	GABLE	1	1	Job Reference (optional)	

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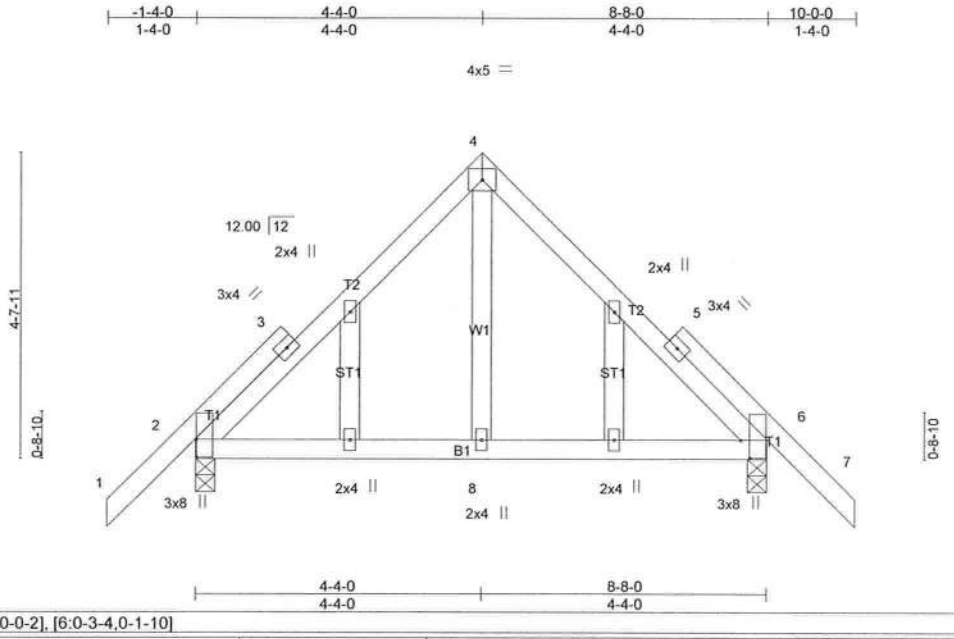

Plate Offsets (X,Y): [2:0-3-4,0-0-2], [6:0-3-4,0-1-10]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.01	2-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.02	2-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(TL)	-0.00	6	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.04	2-8	>999	240	Weight: 55 lb	

LUMBER

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

BRACING

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

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

REACTIONS (lb/size) 2=491/0-3-8, 6=491/0-3-8
Max Horz 2=198(LC 5)
Max Uplift 2=-575(LC 6), 6=-575(LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-412/665, 3-4=-289/603, 4-5=-289/603, 5-6=-412/665
WEBS 4-8=-416/159

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=20ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002.
4) Gable studs spaced at 2-0-0 oc.
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 SYP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 575 lb uplift at joint 2 and 575 lb uplift at joint 6.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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) 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: 2-6=-10, 1-4=-79(F=-25), 4-7=-79(F=-25)

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.	I4669475
366563	T22G	GABLE	1	1	Job Reference (optional)	

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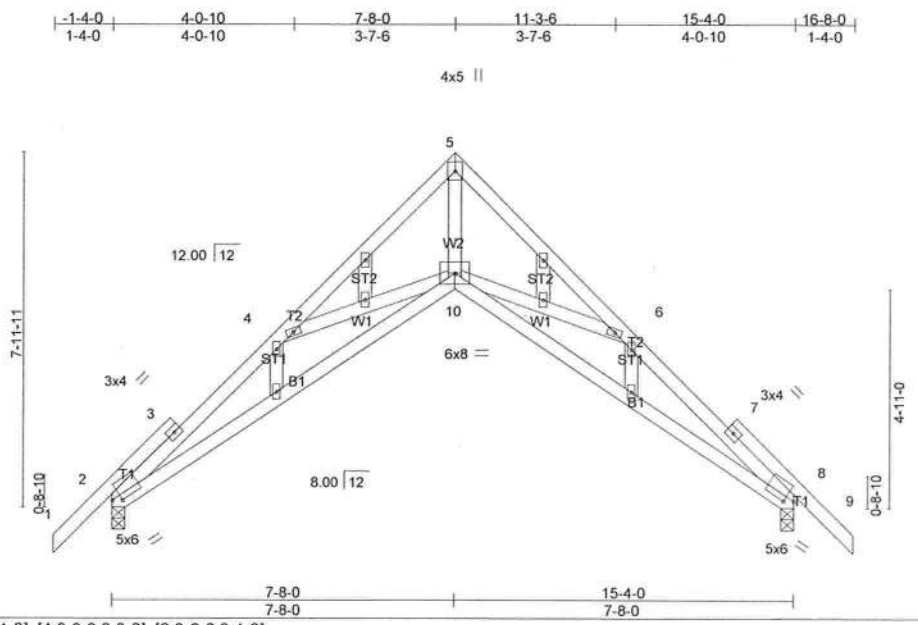

Plate Offsets (X,Y): [2:0-2-6,0-1-8], [4:0-0-0,0-0-0], [8:0-2-6,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	-0.13	2-10	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.38	Vert(TL)	-0.26	2-10	>698	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(TL)	0.31	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.11	10	>999	240	Weight: 94 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-10 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=786/0-3-8, 8=786/0-3-8
Max Horz 2=349(LC 5)
Max Uplift 2=-543(LC 6), 8=-543(LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1919/1129, 3-4=-1834/1106, 4-5=-1401/497, 5-6=-1401/540, 6-7=-1834/967, 7-8=-1920/989
BOT CHORD 2-10=-966/1514, 8-10=-690/1514
WEBS 5-10=-539/1533, 6-10=-362/727, 4-10=-361/683

NOTES (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=20ft; Cat. II; Exp C; 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
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 1-2002.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
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) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 543 lb uplift at joint 2 and 543 lb uplift at joint 8.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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

LOAD CASE(S) Standard

JULIUS S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

Continued on page 2

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T23	SCISSOR	2	1	I4669476
					Job Reference (optional)

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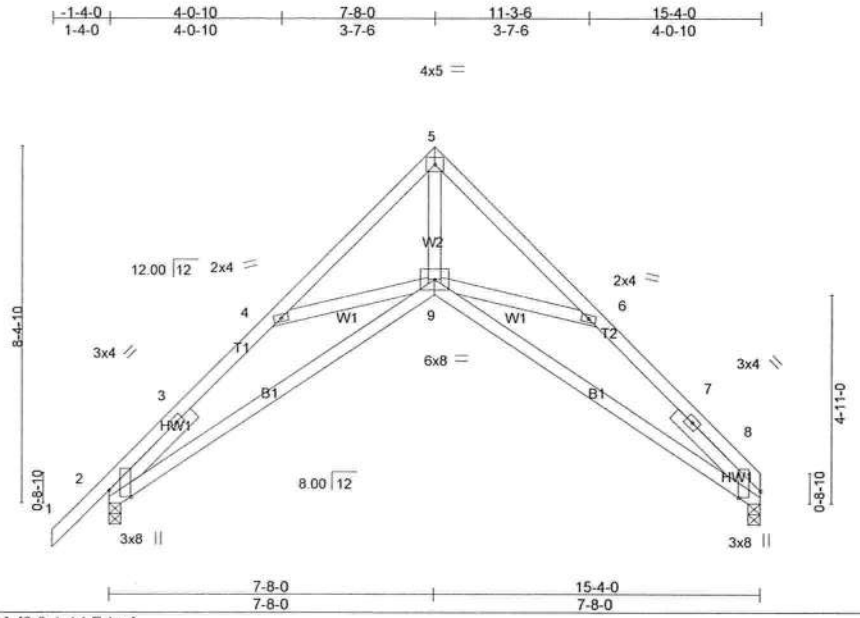

Plate Offsets (X,Y): [2:0-1-14,Edge], [8:0-1-14,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.11	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.25	Vert(TL)	-0.21	8-9	>838	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0.17	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.05	9	>999	240	Weight: 87 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
SLIDER Left 2 X 4 SYP No.2 2-10-0, Right 2 X 4 SYP No.2 2-10-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-3-6 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=565/0-3-8, 8=476/0-3-8
Max Horz 2=311(LC 5)
Max Uplift 2=-231(LC 6), 8=-144(LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1111/539, 3-4=-1051/558, 4-5=-892/215, 5-6=-894/293, 6-7=-1069/598, 7-8=-1142/579
BOT CHORD 2-9=-584/836, 8-9=-335/860
WEBS 5-9=-310/951, 6-9=-152/494, 4-9=-133/451

NOTES (9-10)
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=20ft; Cat. II; Exp C; 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
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 SYP No.2 .
6) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 2 and 144 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) 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) 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 S.K. LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

March 22,2011

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1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - BENSON RES.
366563	T24	HOWE	1	2	I4669477
					Job Reference (optional)

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LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 2-6=-10, 1-4=-54, 4-6=-54
   Concentrated Loads (lb)
      Vert: 6=-1329(B) 7=-1380(B) 10=-2582(B) 11=-1244(B) 12=-1329(B)

JULIUS S.K. LEE
LICENSE
No 34859
STATE OF FLORIDA
PROFESSIONAL ENGINEER

March 22,2011

Julius Lee
1109 Coastal Bay Blvd.
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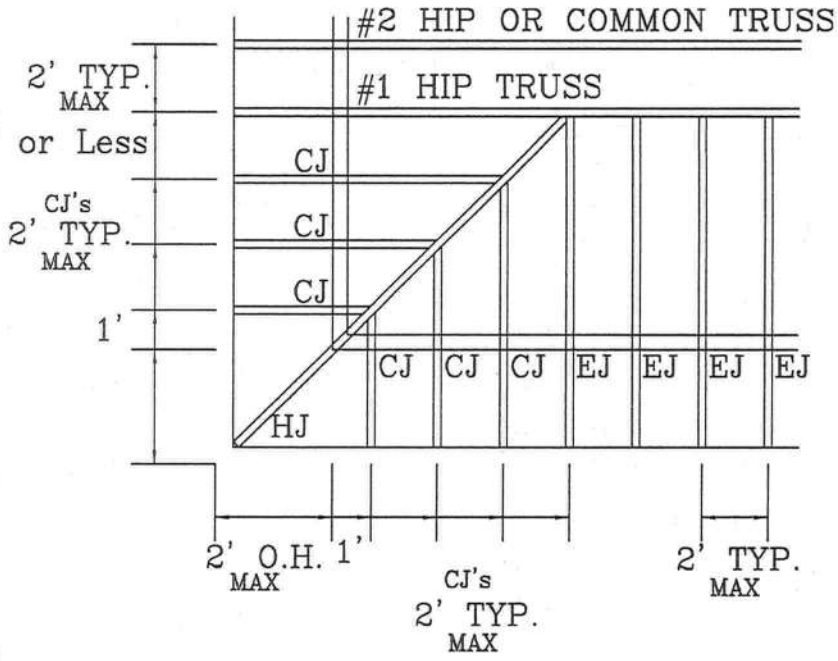
STEPDOWN CORNER SET

TOP CHORD 2X4 SO. PINE #2 or Better
BOT CHORD 2X4 SO. PINE #2 or Better
WEBS 2X4 SO. PINE #3 or Better

120 MPH MAX

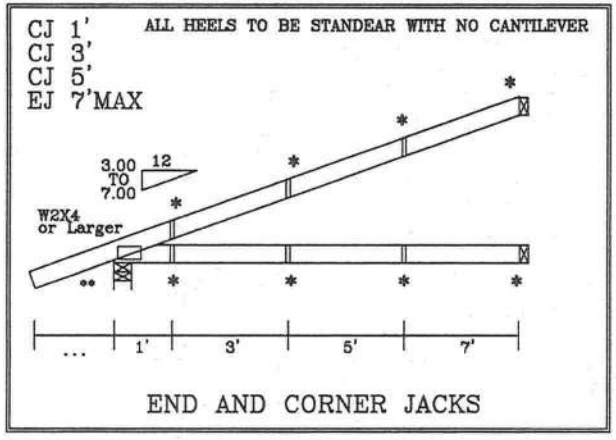
Setback 7' or Less



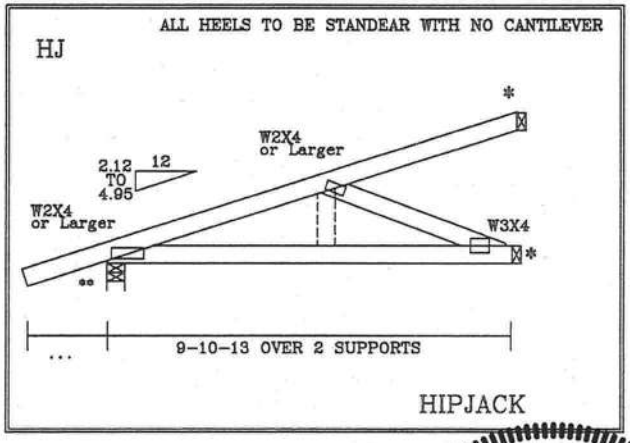
PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED. TILE
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 15.0 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "B" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)



END AND CORNER JACKS



HIPJACK

* (3) 16d TOENAILS

** SEE EOR FOR TIE DOWN

UPLIFT VALUES DO TAKE INTO ACCOUNT PORCHES EXPOSED
BC LIVE LOAD IS NON CONCURRENT 10*

CORNER SET SETBACK
7'0" MAX

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/S/K) ASTM A653 GRADE 40/60 (W,K/H,S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

JULIUS LEE
CONS. ENGINEERS, P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

NO. 34859
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHINGLE			
TC	LL	20	MAX PSF
TC	DL	7	MAX PSF
BC	LL	10*	MAX PSF
BC	DL	5	MAX PSF
TILE			
TC	LL	20	MAX PSF
TC	DL	20	MAX PSF
BC	LL	10*	MAX PSF
BC	DL	5	MAX PSF
DUR. FAC.		1.25	
SPACING		2' MAX	

REF	7'MAX STBK CS
DATE	Jun./27/2008
DRWG	
-ENG	

REVIEWED
By julius lee at 10:52 am, Jun 27, 2008

ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 2"	5' 6"	6' 8"	6' 6"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
		#3	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STUD	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STANDARD	2' 11"	3' 9"	3' 9"	5' 0"	5' 0"	6' 9"	6' 9"	7' 10"	7' 10"	10' 7"	10' 7"
	SP DFL	#1	3' 6"	5' 6"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#2	3' 5"	5' 6"	5' 11"	6' 6"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#3	3' 3"	4' 6"	4' 6"	6' 0"	6' 0"	7' 10"	8' 1"	9' 4"	9' 4"	12' 3"	12' 6"
		STUD	3' 3"	4' 6"	4' 8"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 8"
		STANDARD	3' 0"	3' 10"	3' 10"	5' 1"	5' 1"	6' 11"	6' 11"	8' 0"	8' 0"	10' 10"	10' 10"
16" O.C.	SPF HF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
		STUD	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
		STANDARD	3' 7"	4' 6"	4' 8"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	8' 4"	8' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	8' 4"	8' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	6' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"
		STUD	3' 8"	5' 6"	5' 8"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	13' 3"
12" O.C.	SPF HF	#1 / #2	4' 0"	6' 11"	7' 2"	8' 3"	8' 6"	9' 10"	10' 1"	12' 11"	13' 4"	14' 0"	14' 0"
		#3	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"
		STUD	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 10"	12' 10"	14' 0"	14' 0"
		STANDARD	3' 11"	5' 4"	5' 4"	7' 1"	7' 1"	9' 6"	9' 6"	11' 1"	11' 1"	14' 0"	14' 0"
	SP DFL	#1	4' 5"	6' 11"	7' 8"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#2	4' 4"	6' 11"	7' 6"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#3	4' 2"	6' 6"	6' 5"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 3"	14' 0"	14' 0"
		STUD	4' 2"	6' 4"	6' 4"	8' 3"	8' 5"	9' 10"	10' 4"	12' 11"	13' 1"	14' 0"	14' 0"
		STANDARD	4' 0"	5' 6"	5' 6"	7' 3"	7' 3"	9' 9"	9' 9"	11' 4"	11' 4"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

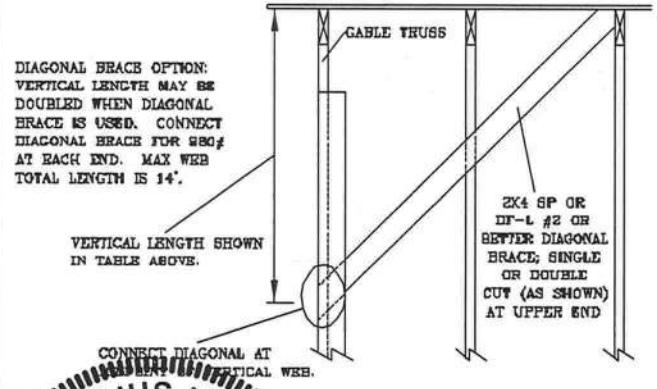
SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

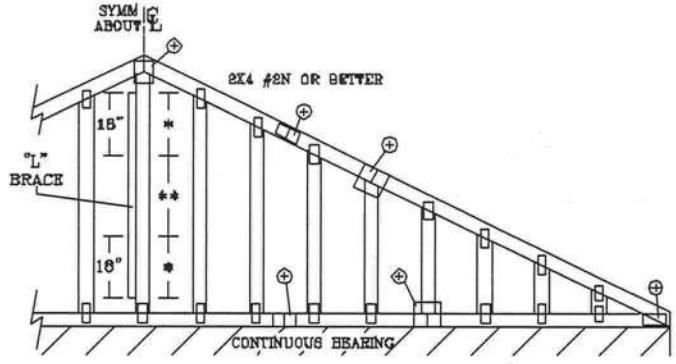
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE	DOUGLAS FIR-LARCH
#1	#1
#2	#2



DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 980# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

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

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REVIEWED
By julius lee at 12:00 pm, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB13030
DATE	11/26/03
DWG	MiTek STD GABLE 30' E W7
	-ENG

PIGGYBACK DETAIL

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

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

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

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

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

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

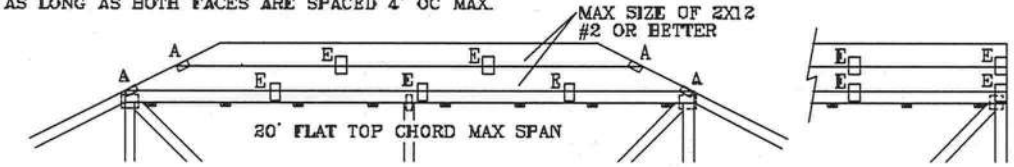
110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

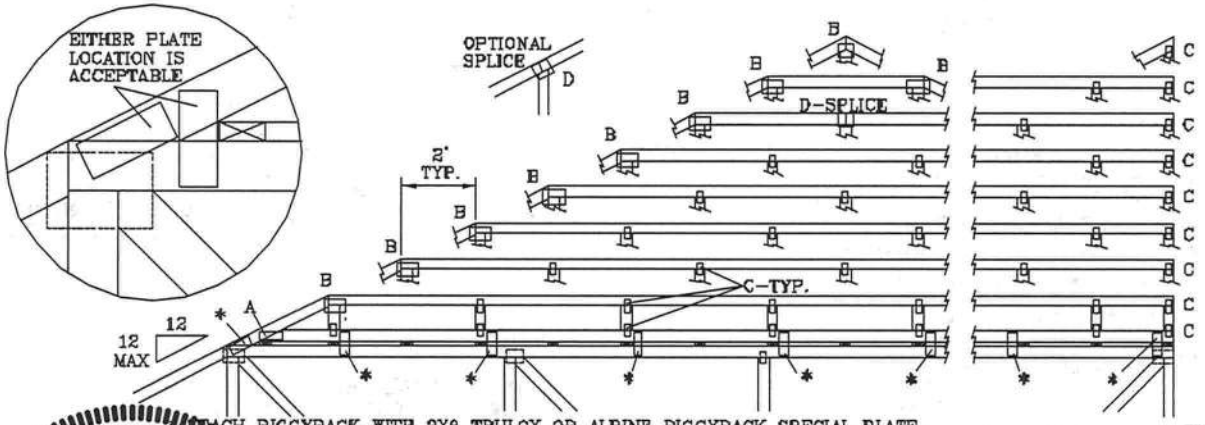
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (6) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.



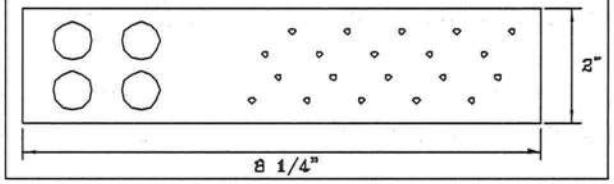


ATTACH PIGGYBACK WITH 3X6 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.

* PIGGYBACK SPECIAL PLATE

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



THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.
SPACING 24.0"

REF PIGGYBACK
DATE 09/12/07
DRWG MITEK STD PIGGY
-ENG JL

TOE-NAIL DETAIL

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

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

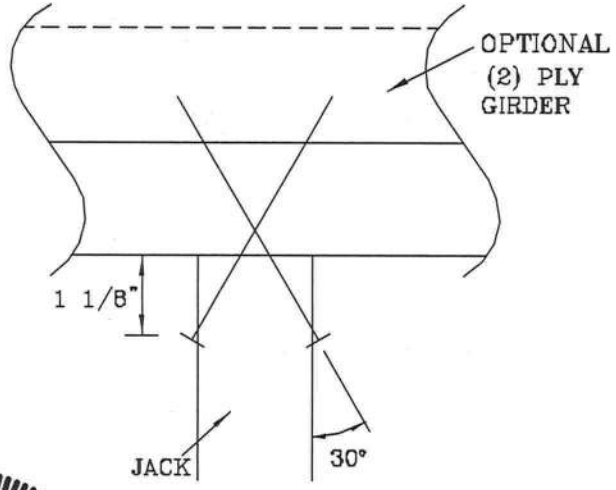
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

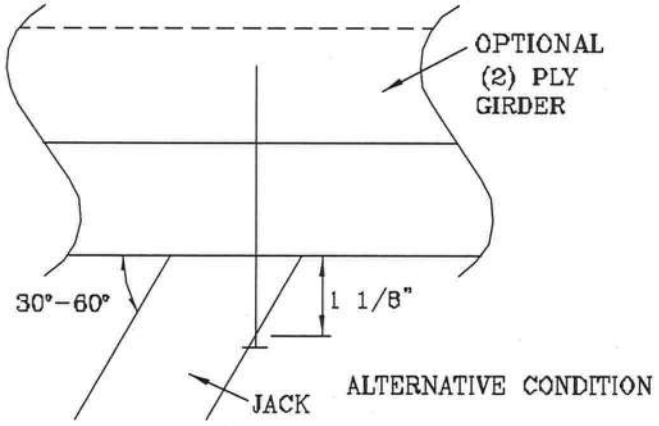
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1450 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF TOE-NAIL
TC DL	PSF	DATE 09/12/07
BC DL	PSF	DRWG CNTONAIL1103
BC LL	PSF	-ENG JL
TOT. LD.	PSF	
DUR. FAC.	1.00	
SPACING		

TRULOX CONNECTION DETAIL

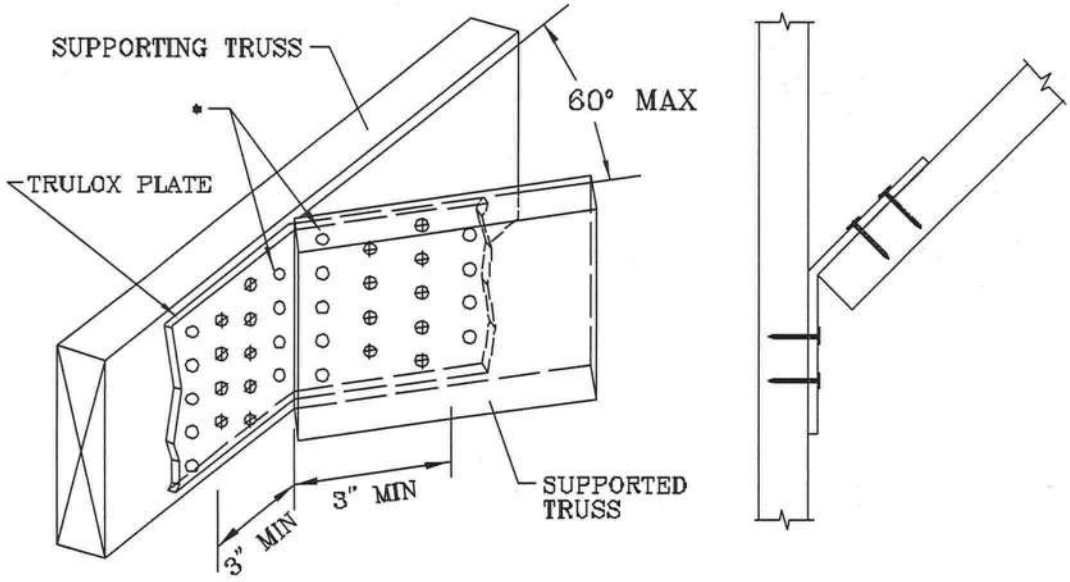
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

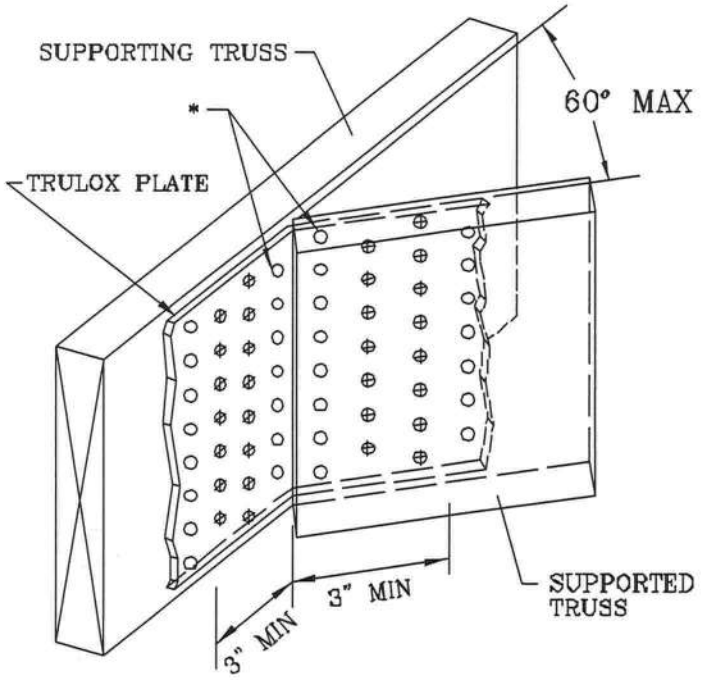
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



MINIMUM 3X6 TRULOX PLATE



MINIMUM 5X6 TRULOX PLATE

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

REVIEWED
By julius lee at 11:58 am, Jun 11, 2008

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,944 1,152,217 1,152,017 1,159,154 & 1,151,524

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

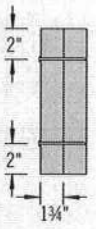
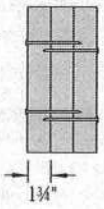
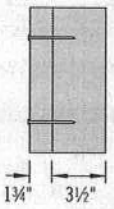
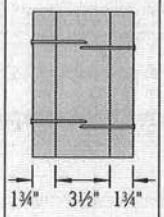
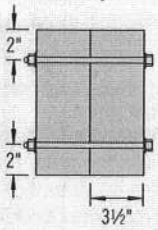
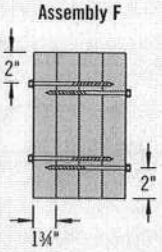
JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2151

No: 34869
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

Connector Type	Number of Rows	Connector On-Center Spacing	Connector Pattern					
			Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
								
			3½" 2-ply	5¼" 3-ply	5¼" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail[1]	2	12"	370	***280***	280	***245***		
	3	12"	555	***415***	415	***370***		
½" A307 Through Bolts[2][4]	2	24"	505	380	520	465	860	340
		19.2"	635	475	655	580	1,075	425
		16"	760	570	785	695	1,290	505
SDS ¼" x 3½"[4]	2	24"	680	***510***	510	***455***		
		19.2"	850	***640***	640	***565***		
		16"	1,020	***765***	765	***680***		
SDS ¼" x 6"[3][4]	2	24"				***455***	***465***	***455***
		19.2"				***565***	***580***	***565***
		16"				***680***	***695***	***680***
USP WS35 [4]	2	24"	480	***360***	360	***320***		
		19.2"	600	***450***	450	***400***		
		16"	715	***540***	540	***480***		
USP WS6 [3][4]	2	24"				***350***	***525***	***350***
		19.2"				***440***	***660***	***440***
		16"				***525***	***790***	***525***
3⅜" TrussLok[4]	2	24"	635	***475***	475	***425***		
		19.2"	795	***595***	595	***530***		
		16"	955	***715***	715	***635***		
5" TrussLok[4]	2	24"		***500***	500	***445***	***480***	***445***
		19.2"		***625***	625	***555***	***600***	***555***
		16"		***750***	750	***665***	***725***	***665***
6¾" TrussLok[4]	2	24"				445	620	445
		19.2"				555	770	555
		16"				665	925	665

(1) Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

(2) Washers required. Bolt holes to be 9/16" maximum.

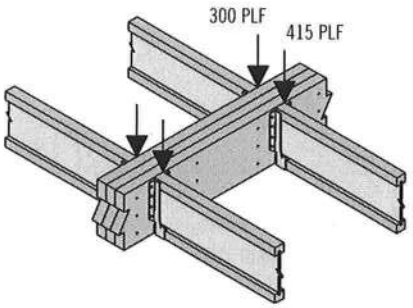
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(4) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

General Notes

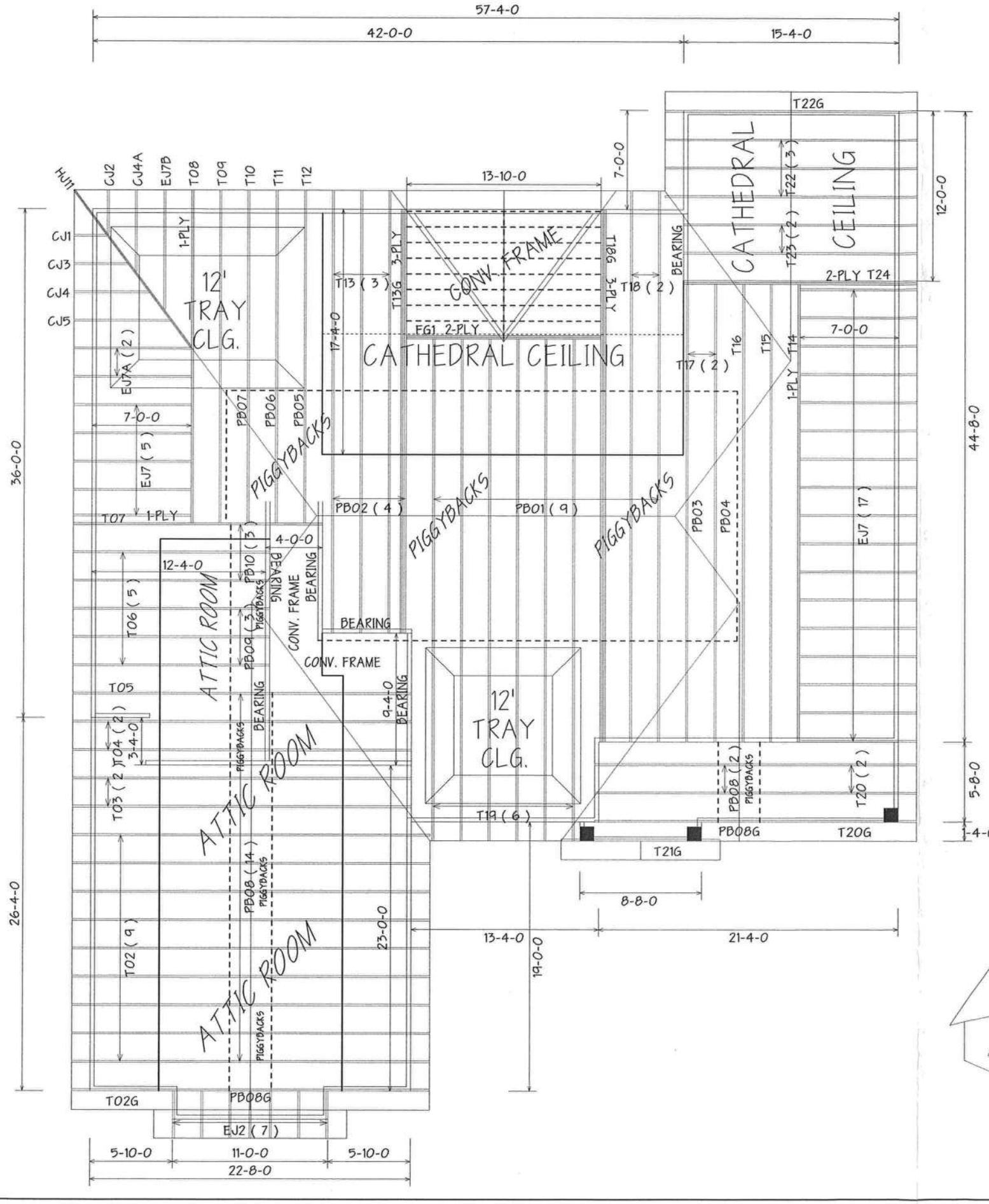
- Connections are based on NDS® 2005 or manufacturer's code report.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- ***Bold Italic*** cells indicate **Connector Pattern** must be installed on both sides. Stagger fasteners on opposite side of beam by ½ the required **Connector Spacing**.
- Verify adequacy of beam in allowable load tables on pages 16–33.
- 7" wide beams should be side-loaded only when loads are applied to both sides of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

Uniform Load Design Example

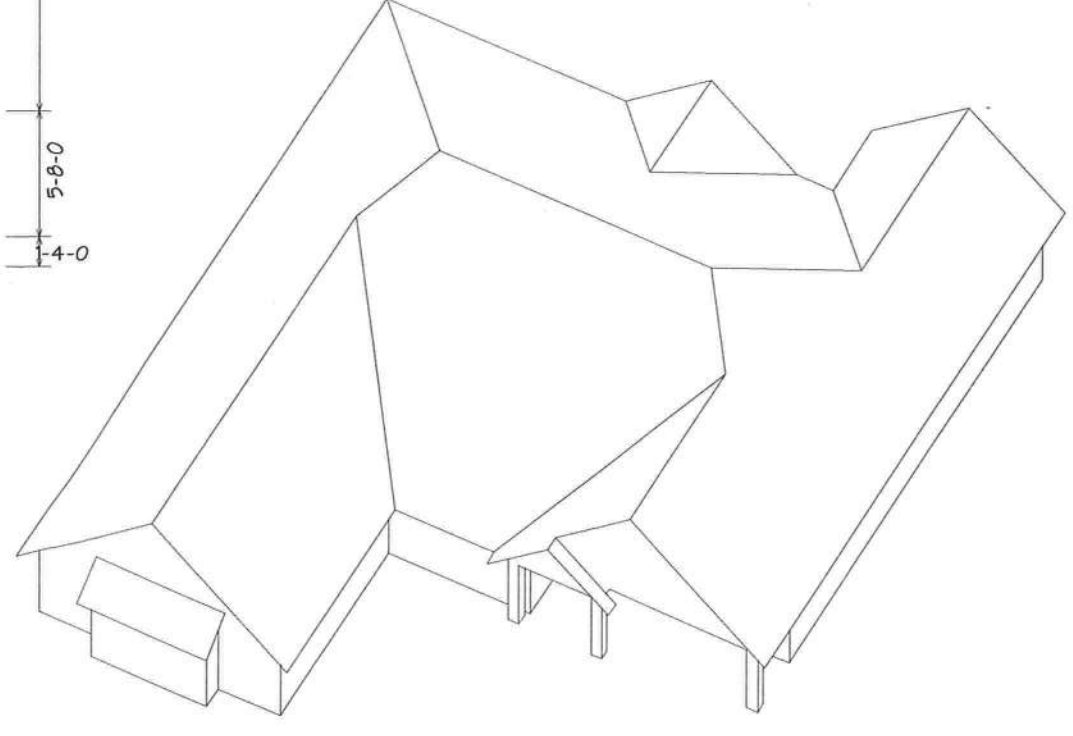


First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1¾" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates:
Two rows of ½" bolts or SDS ¼" x 3½" screws at 19.2" on-center.



9/12 - 12/12 PITCH
16" O/H



BEARING HEIGHT SCHEDULE

	9' 1-1/8"

NOTES:

1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING.) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.
3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
5) ALL WALLS SHOWN ON FLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
6) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.
8) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Requested Delivery Date : _____

Approved by: _____ Date: _____

Builders FirstSource

Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973

Lake City
PHONE: 386-755-6894 FAX: 386-755-7973

Sanford
PHONE: 407-322-0059 FAX: 407-322-9593

BUILDER: BLAKE CONST.		
LEGAL ADDRESS: BENSON RES.		
MODEL: CUSTOM		REVISION:
		SCALE: NTS
DATE: 3-22-11	DRAWN BY: K.L.H.	JOB #: 366563

Residential System Sizing Calculation

Summary

Benson Res

, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

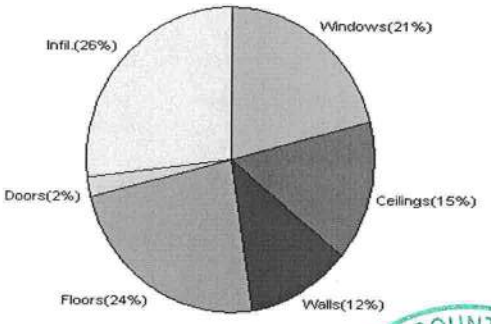
3/29/2011

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**42360**	**Btuh**	**Total cooling load calculation**	**37835**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.0	50000	Sensible (SHR = 0.75)	120.9	37500
Heat Pump + Auxiliary(0.0kW)	118.0	50000	Latent	183.5	12500
			Total (Electric Heat Pump)	132.2	50000

WINTER CALCULATIONS

Winter Heating Load (for 2797 sqft)

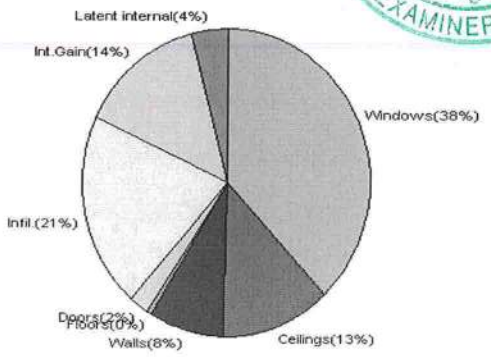
Load component			Load	
Window total	484	sqft	8954	Btuh
Wall total	1506	sqft	4947	Btuh
Door total	72	sqft	928	Btuh
Ceiling total	3389	sqft	6301	Btuh
Floor total	See detail report		10013	Btuh
Infiltration	277	cfm	11216	Btuh
Duct loss			0	Btuh
Subtotal			**42360**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**42360**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2797 sqft)

Load component			Load	
Window total	484	sqft	14325	Btuh
Wall total	1506	sqft	3142	Btuh
Door total	72	sqft	703	Btuh
Ceiling total	3389	sqft	4768	Btuh
Floor total			189	Btuh
Infiltration	143	cfm	2655	Btuh
Internal gain			5240	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**31022**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			5213	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**6813**	**Btuh**
TOTAL HEAT GAIN			**37835**	**Btuh**



Powered by ACCA MANUAL J

For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 3/29/11 EVAN BOMHOFF

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

3/29/2011

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, SHGC=0.5, Metal, 0.50	NW	44.4	18.5	821 Btuh
2	2, SHGC=0.5, Metal, 0.50	NW	21.3	18.5	394 Btuh
3	2, SHGC=0.5, Metal, 0.50	NW	72.0	18.5	1332 Btuh
4	2, SHGC=0.5, Metal, 0.50	SW	13.3	18.5	246 Btuh
5	2, SHGC=0.5, Metal, 0.50	SW	6.0	18.5	111 Btuh
6	2, SHGC=0.5, Metal, 0.50	SW	10.0	18.5	185 Btuh
7	2, SHGC=0.5, Metal, 0.50	NW	16.0	18.5	296 Btuh
8	2, SHGC=0.5, Metal, 0.50	NW	30.0	18.5	555 Btuh
9	2, SHGC=0.5, Metal, 0.50	NW	30.0	18.5	555 Btuh
10	2, SHGC=0.5, Metal, 0.50	NE	60.0	18.5	1110 Btuh
11	2, SHGC=0.5, Metal, 0.50	NE	15.0	18.5	278 Btuh
12	2, SHGC=0.5, Metal, 0.50	NE	3.0	18.5	56 Btuh
13	2, SHGC=0.5, Metal, 0.50	NE	5.0	18.5	92 Btuh
14	2, SHGC=0.5, Metal, 0.50	SE	26.7	18.5	494 Btuh
15	2, SHGC=0.5, Metal, 0.50	SE	11.1	18.5	205 Btuh
16	2, SHGC=0.5, Metal, 0.50	SE	10.0	18.5	185 Btuh
17	2, SHGC=0.5, Metal, 0.50	SE	42.0	18.5	777 Btuh
18	2, SHGC=0.5, Metal, 0.50	SW	20.0	18.5	370 Btuh
19	2, SHGC=0.5, Metal, 0.50	SW	6.0	18.5	111 Btuh
20	2, SHGC=0.5, Metal, 0.50	SE	25.7	18.5	475 Btuh
21	2, SHGC=0.5, Metal, 0.50	SE	4.5	18.5	83 Btuh
22	2, SHGC=0.5, Metal, 0.50	NW	12.0	18.5	222 Btuh
	Window Total		484(sqft)		8954 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1506	3.3	4947 Btuh
	Wall Total		1506		4947 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	234 Btuh
2	Insulated - Exterior		20	12.9	260 Btuh
3	Insulated - Exterior		7	12.9	87 Btuh
4	Insulated - Exterior		27	12.9	347 Btuh
	Door Total		72		928Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Single Assembly/D/Shin)	19.0	3389	1.9	6301 Btuh
	Ceiling Total		3389		6301Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Adj	19	314.0 sqft	1.9	583 Btuh
2	Slab On Grade	0	216.0 ft(p)	43.7	9431 Btuh
	Floor Total		530		10013 Btuh
			Zone Envelope Subtotal:		31143 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

3/29/2011

Infiltration	Type Natural	ACH X 0.66	Zone Volume 25173	CFM= 276.9	11216 Btuh
Ductload	Unsealed, R6.0, Supply(Cond.), Return(Cond)			(DLM of 0.00)	0 Btuh
Zone #1	**Sensible Zone Subtotal**				**42360 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	42360 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	42360 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

3/29/2011

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, SHGC=0.5, Metal, 0.50	NW	44.4	18.5	821 Btuh
2	2, SHGC=0.5, Metal, 0.50	NW	21.3	18.5	394 Btuh
3	2, SHGC=0.5, Metal, 0.50	NW	72.0	18.5	1332 Btuh
4	2, SHGC=0.5, Metal, 0.50	SW	13.3	18.5	246 Btuh
5	2, SHGC=0.5, Metal, 0.50	SW	6.0	18.5	111 Btuh
6	2, SHGC=0.5, Metal, 0.50	SW	10.0	18.5	185 Btuh
7	2, SHGC=0.5, Metal, 0.50	NW	16.0	18.5	296 Btuh
8	2, SHGC=0.5, Metal, 0.50	NW	30.0	18.5	555 Btuh
9	2, SHGC=0.5, Metal, 0.50	NW	30.0	18.5	555 Btuh
10	2, SHGC=0.5, Metal, 0.50	NE	60.0	18.5	1110 Btuh
11	2, SHGC=0.5, Metal, 0.50	NE	15.0	18.5	278 Btuh
12	2, SHGC=0.5, Metal, 0.50	NE	3.0	18.5	56 Btuh
13	2, SHGC=0.5, Metal, 0.50	NE	5.0	18.5	92 Btuh
14	2, SHGC=0.5, Metal, 0.50	SE	26.7	18.5	494 Btuh
15	2, SHGC=0.5, Metal, 0.50	SE	11.1	18.5	205 Btuh
16	2, SHGC=0.5, Metal, 0.50	SE	10.0	18.5	185 Btuh
17	2, SHGC=0.5, Metal, 0.50	SE	42.0	18.5	777 Btuh
18	2, SHGC=0.5, Metal, 0.50	SW	20.0	18.5	370 Btuh
19	2, SHGC=0.5, Metal, 0.50	SW	6.0	18.5	111 Btuh
20	2, SHGC=0.5, Metal, 0.50	SE	25.7	18.5	475 Btuh
21	2, SHGC=0.5, Metal, 0.50	SE	4.5	18.5	83 Btuh
22	2, SHGC=0.5, Metal, 0.50	NW	12.0	18.5	222 Btuh
	Window Total		484(sqft)		8954 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1506	3.3	4947 Btuh
	Wall Total		1506		4947 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	234 Btuh
2	Insulated - Exterior		20	12.9	260 Btuh
3	Insulated - Exterior		7	12.9	87 Btuh
4	Insulated - Exterior		27	12.9	347 Btuh
	Door Total		72		928Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Single Assembly/D/Shin)	19.0	3389	1.9	6301 Btuh
	Ceiling Total		3389		6301Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Raised Wood - Adj	19	314.0 sqft	1.9	583 Btuh
2	Slab On Grade	0	216.0 ft(p)	43.7	9431 Btuh
	Floor Total		530		10013 Btuh
			Zone Envelope Subtotal:		31143 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

3/29/2011

Infiltration	Type Natural	ACH X 0.66	Zone Volume 25173	CFM= 276.9	11216 Btuh
Ductload	Unsealed, R6.0, Supply(Cond.), Return(Cond)			(DLM of 0.00)	0 Btuh
Zone #1	**Sensible Zone Subtotal**				**42360 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	42360 Btuh 0 Btuh 42360 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 3/29/2011

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, SHGC=0.5, 0.50, None,N,N	NW	1.5ft	9ft.	44.4	0.0	44.4	19	19	847 Btuh
2	2, SHGC=0.5, 0.50, None,N,N	NW	1.5ft	2ft.	21.3	0.0	21.3	19	19	406 Btuh
3	2, SHGC=0.5, 0.50, None,N,N	NW	1.5ft	7ft.	72.0	0.0	72.0	19	19	1373 Btuh
4	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	8ft.	13.3	0.0	13.3	19	57	755 Btuh
5	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	2ft.	6.0	3.7	2.3	19	57	200 Btuh
6	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	7ft.	10.0	0.0	10.0	19	57	568 Btuh
7	2, SHGC=0.5, 0.50, None,N,N	NW	0ft.	0ft.	16.0	0.0	16.0	19	19	305 Btuh
8	2, SHGC=0.5, 0.50, None,N,N	NW	1.5ft	7ft.	30.0	0.0	30.0	19	19	572 Btuh
9	2, SHGC=0.5, 0.50, None,N,N	NW	0ft.	0ft.	30.0	0.0	30.0	19	19	572 Btuh
10	2, SHGC=0.5, 0.50, None,N,N	NE	1.5ft	7ft.	60.0	0.0	60.0	19	57	3408 Btuh
11	2, SHGC=0.5, 0.50, None,N,N	NE	1.5ft	7ft.	15.0	0.0	15.0	19	57	852 Btuh
12	2, SHGC=0.5, 0.50, None,N,N	NE	1.5ft	3ft.	3.0	0.0	3.0	19	57	170 Btuh
13	2, SHGC=0.5, 0.50, None,N,N	NE	1.5ft	3ft.	5.0	0.0	5.0	19	57	284 Btuh
14	2, SHGC=0.5, 0.50, None,N,N	SE	7.16	7ft.	26.7	26.7	0.0	19	23	509 Btuh
15	2, SHGC=0.5, 0.50, None,N,N	SE	7ft.	9ft.	11.1	11.1	0.0	19	23	212 Btuh
16	2, SHGC=0.5, 0.50, None,N,N	SE	7ft.	3ft.	10.0	10.0	0.0	19	23	191 Btuh
17	2, SHGC=0.5, 0.50, None,N,N	SE	1.5ft	7ft.	42.0	42.0	0.0	19	23	801 Btuh
18	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	7ft.	20.0	0.0	20.0	19	57	1136 Btuh
19	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	5ft.	6.0	0.0	6.0	19	57	341 Btuh
20	2, SHGC=0.5, 0.50, None,N,N	SE	1.5ft	5ft.	25.7	25.7	0.0	19	23	490 Btuh
21	2, SHGC=0.5, 0.50, None,N,N	SE	0ft.	0ft.	4.5	0.0	4.5	19	23	102 Btuh
22	2, SHGC=0.5, 0.50, None,N,N	NW	0ft.	0ft.	12.0	0.0	12.0	19	19	229 Btuh
	Window Total				484 (sqft)					14325 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1506.3	2.1	3142 Btuh
	Wall Total		1506 (sqft)		3142 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	18.1	9.8	177 Btuh
2	Insulated - Exterior	20.1	9.8	197 Btuh
3	Insulated - Exterior	6.7	9.8	66 Btuh
4	Insulated - Exterior	26.8	9.8	263 Btuh
	Door Total	72 (sqft)		703 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Single Assembly/DarkShingle	19.0	3389.0	1.4	4768 Btuh
	Ceiling Total		3389 (sqft)		4768 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Adj	19.0	314 (sqft)	0.6	189 Btuh
2	Slab On Grade	0.0	216 (ft(p))	0.0	0 Btuh
	Floor Total		530.0 (sqft)		189 Btuh

		Zone Envelope Subtotal:	23127 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

3/29/2011

Infiltration	Type		ACH		Volume(cuft)		CFM=	Load
	SensibleNatural		0.34		25173		142.6	2655 Btuh
Internal gain		Occupants		Btuh/occupant		Appliance		Load
		8	X	230	+	3400		5240 Btuh
Duct load	Unsealed, R6.0, Supply(Conditioned), Return(Conditioned)					DGM = 0.00		0.0 Btuh
						Sensible Zone Load		**31022 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

3/29/2011

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**31022**	**Btuh**
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	**31022**	**Btuh**
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	**Total sensible gain**	**31022**	**Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	5213	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600	Btuh
	Latent other gain	0	Btuh
	Latent total gain	**6813**	**Btuh**
	TOTAL GAIN	**37835**	**Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

Powered by ACCA MANUAL J
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 3/29/2011
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, SHGC=0.5, 0.50, None,N,N	NW	1.5ft	9ft.	44.4	0.0	44.4	19	19	847 Btuh
2	2, SHGC=0.5, 0.50, None,N,N	NW	1.5ft	2ft.	21.3	0.0	21.3	19	19	406 Btuh
3	2, SHGC=0.5, 0.50, None,N,N	NW	1.5ft	7ft.	72.0	0.0	72.0	19	19	1373 Btuh
4	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	8ft.	13.3	0.0	13.3	19	57	755 Btuh
5	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	2ft.	6.0	3.7	2.3	19	57	200 Btuh
6	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	7ft.	10.0	0.0	10.0	19	57	568 Btuh
7	2, SHGC=0.5, 0.50, None,N,N	NW	0ft.	0ft.	16.0	0.0	16.0	19	19	305 Btuh
8	2, SHGC=0.5, 0.50, None,N,N	NW	1.5ft	7ft.	30.0	0.0	30.0	19	19	572 Btuh
9	2, SHGC=0.5, 0.50, None,N,N	NW	0ft.	0ft.	30.0	0.0	30.0	19	19	572 Btuh
10	2, SHGC=0.5, 0.50, None,N,N	NE	1.5ft	7ft.	60.0	0.0	60.0	19	57	3408 Btuh
11	2, SHGC=0.5, 0.50, None,N,N	NE	1.5ft	7ft.	15.0	0.0	15.0	19	57	852 Btuh
12	2, SHGC=0.5, 0.50, None,N,N	NE	1.5ft	3ft.	3.0	0.0	3.0	19	57	170 Btuh
13	2, SHGC=0.5, 0.50, None,N,N	NE	1.5ft	3ft.	5.0	0.0	5.0	19	57	284 Btuh
14	2, SHGC=0.5, 0.50, None,N,N	SE	7.16	7ft.	26.7	26.7	0.0	19	23	509 Btuh
15	2, SHGC=0.5, 0.50, None,N,N	SE	7ft.	9ft.	11.1	11.1	0.0	19	23	212 Btuh
16	2, SHGC=0.5, 0.50, None,N,N	SE	7ft.	3ft.	10.0	10.0	0.0	19	23	191 Btuh
17	2, SHGC=0.5, 0.50, None,N,N	SE	1.5ft	7ft.	42.0	42.0	0.0	19	23	801 Btuh
18	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	7ft.	20.0	0.0	20.0	19	57	1136 Btuh
19	2, SHGC=0.5, 0.50, None,N,N	SW	1.5ft	5ft.	6.0	0.0	6.0	19	57	341 Btuh
20	2, SHGC=0.5, 0.50, None,N,N	SE	1.5ft	5ft.	25.7	25.7	0.0	19	23	490 Btuh
21	2, SHGC=0.5, 0.50, None,N,N	SE	0ft.	0ft.	4.5	0.0	4.5	19	23	102 Btuh
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	Window Total				484 (sqft)					14325 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1506.3	2.1	3142 Btuh
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4	Insulated - Exterior	26.8	9.8	263 Btuh
	Door Total	72 (sqft)		703 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Single Assembly/DarkShingle	19.0	3389.0	1.4	4768 Btuh
	Ceiling Total		3389 (sqft)		4768 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised Wood - Adj	19.0	314 (sqft)	0.6	189 Btuh
2	Slab On Grade	0.0	216 (ft(p))	0.0	0 Btuh
	Floor Total		530.0 (sqft)		189 Btuh

	Zone Envelope Subtotal:	23127 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

3/29/2011

Infiltration	Type SensibleNatural	ACH 0.34	Volume(cuft) 25173		CFM= 142.6		Load 2655	Btuh
Internal gain		Occupants 8	Btuh/occupant X 230	+	Appliance 3400		Load 5240	Btuh
Duct load	Unsealed, R6.0, Supply(Conditioned), Return(Conditioned)				DGM = 0.00		0.0	Btuh
					Sensible Zone Load		**31022**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Benson Res
, FL

Project Title:
1103073aBlakeConstructionBensonRes

Class 3 Rating
Registration No. 0
Climate: North

3/29/2011

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**31022**	**Btuh**
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	**31022**	**Btuh**
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	**Total sensible gain**	**31022**	**Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	5213	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600	Btuh
	Latent other gain	0	Btuh
	Latent total gain	**6813**	**Btuh**
	TOTAL GAIN	**37835**	**Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Residential Window Diversity

MidSummer

Benson Res

, FL

Project Title:
1103073aBlakeConstructionBensonRes

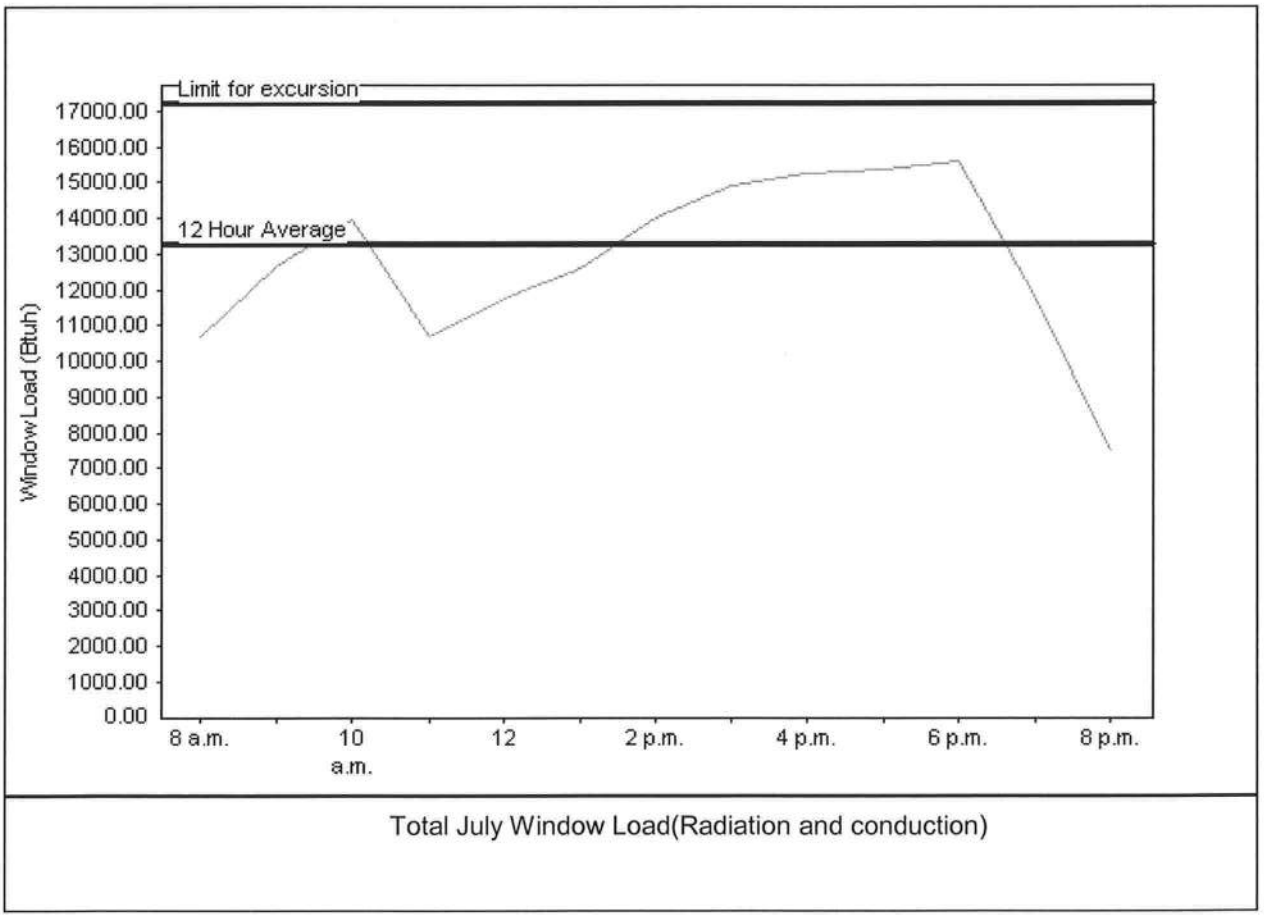
Class 3 Rating
Registration No. 0
Climate: North

3/29/2011

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	13264 Btu
Summer setpoint	75 F	Peak window load for July	15595 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	17244 Btu
Latitude	29 North	Window excursion (July)	None

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

The midsummer window load for this house does not exceed the window load excursion limit.

This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY:

DATE: 3/29/11 EVAN BEAMSLEY

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536 SE BAY
City LAKE CITY Phone 752-1705

Site Location: Subdivision _____
Lot # _____ Block# _____ Permit # 29290
Address _____

Product used	Active Ingredient	% Concentration
☑ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☑ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
DWELLING	2568	230	200

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

4-15-11 Date | 8:00 Time | DAVID FULLER Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©