DATE 07/12/2011

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000029533

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP CRT LAKE CITY FL 32024

OWNER FAMILY HEALTH CENTER OF COL. COUNTY,INC. PHONE 386.758.5552

ADDRESS 171 NW ALBRIGHT LANE LAKE CITY FL 32055

CONTRACTOR BLAKE LUNDE PHONE 754-5810

LOCATION OF PROPERTY 441-N TO ALBRIGHT LN,TL AND HEALTH CENTER ON R.

TYPE DEVELOPMENT DENTAL OFFICE ESTIMATED COST OF CONSTRUCTION 300000.00

HEATED FLOOR AREA 2178.00 TOTAL AREA 2242.00 HEIGHT 16.00 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 4/12 FLOOR SLAB

LAND USE & ZONING RSF/MH-2 MAX. HEIGHT 35

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

NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 20-3S-17-05405-001 SUBDIVISION S.C. ALBRITTON -REPLAT OF SPRINGFIELD

LOT BLOCK I&D PHASE UNIT 0 TOTAL ACRES 3.67

		CBC1253408		
Culvert Permit No.	Culvert Waiver	Contractor's License Number		Applicant/Owner/Contractor
EXISTING	CITY	BK	TC	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: NOC ON FILE

EXISTIG USE WITH VESTED RIGHTS, CITY WATER & SEWER

Check # or Cash 8269

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 $ 1500.00 CERTIFICATION FEE $ 11.21 SURCHARGE FEE $ 11.21

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

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 1597.42

INSPECTORS OFFICE L. H. CLERKS OFFICE CH

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."

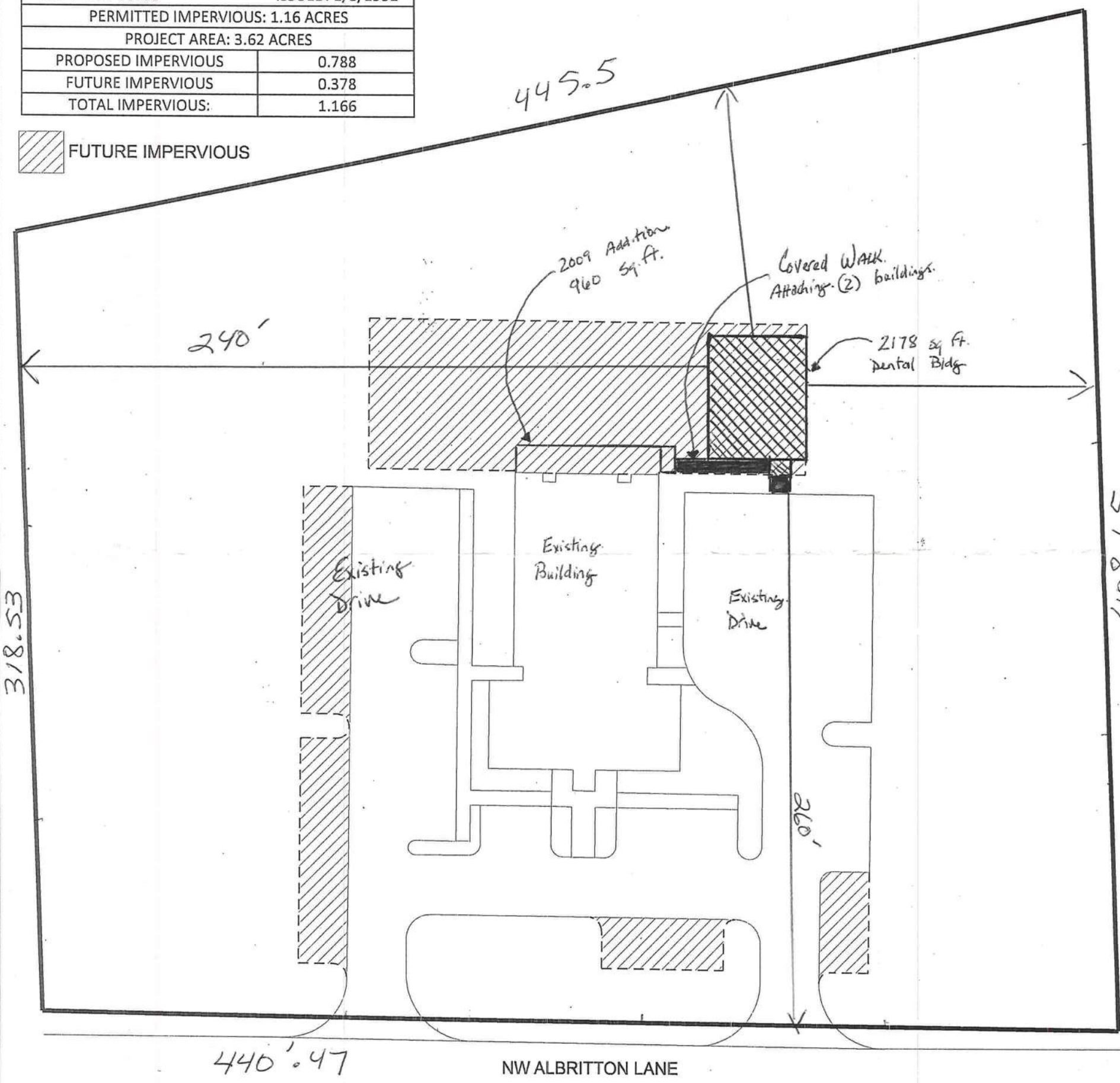
EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION 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.

20-3S-17-05405-001

FAMILY HEALTH CENTER OF COLUMBIA COUNTY	
ERP # 4-91-00199	ISSUED: 1/8/1992
PERMITTED IMPERVIOUS: 1.16 ACRES	
PROJECT AREA: 3.62 ACRES	
PROPOSED IMPERVIOUS	0.788
FUTURE IMPERVIOUS	0.378
TOTAL IMPERVIOUS:	1.166

FUTURE IMPERVIOUS



FAMILY HEALTH CENTER OF COLUMBIA COUNTY

PERMITTED IMPERVIOUS AREAS

GTC Design Group, LLC.
Auth. # 9461
Structural / Civil Engineers
www.gtcdesigngroup.com

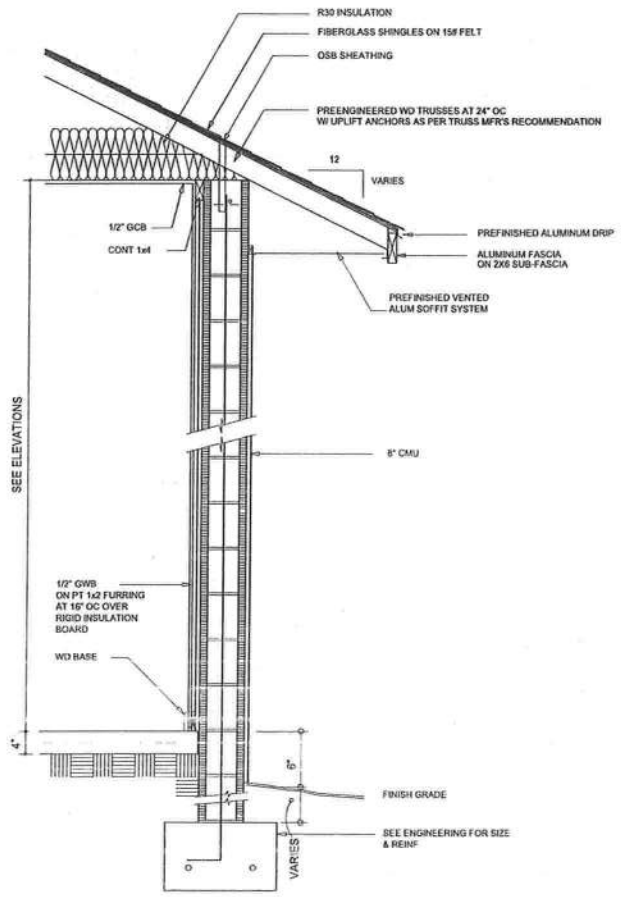
P.O. BOX 187
130 W HOWARD ST
LIVE OAK FL, 32064
PHONE: (386) 362-3678
FAX: (386) 362-6133

176 NW LAKE JEFFREY RD
LAKE CITY, FL 32055
Phone: (386) 719-9985
Fax: (386) 719-8828

PROJECT NUMBER: PF10-147

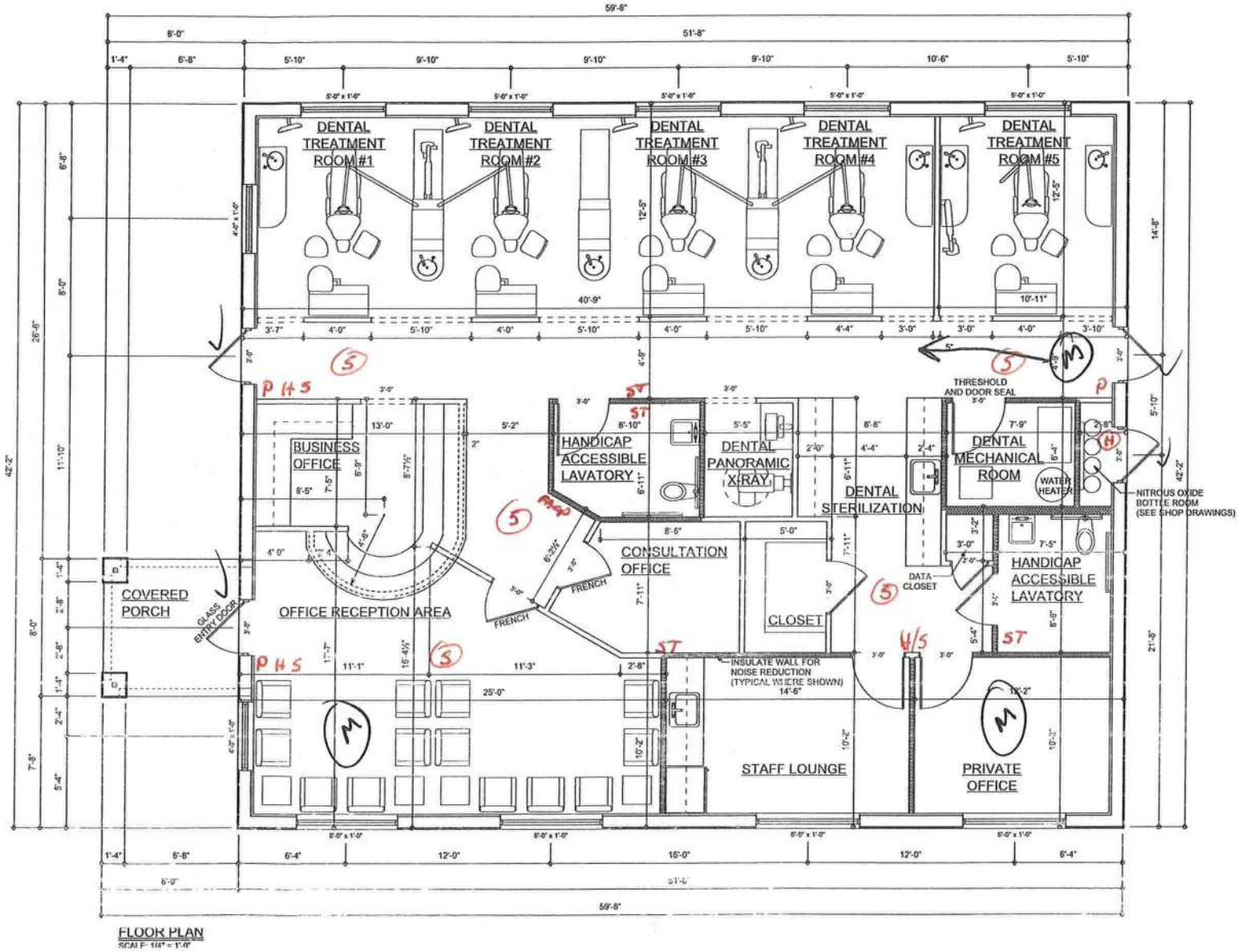
SHEET: 13

...\CAD\GTC_top02.dgn 12/16/2010 9:45:02 AM



TYPICAL DESIGN WALL SECTION
NON - STRUCTURAL DATA
3/4" = 1'0"

1-5300
3-PULLS
3-H/S
4-STROBES
5-SMOKES
1-HEAT



FLOOR PLAN
SCALE: 1/4" = 1'-0"

S&C
4 DR
1 KP
4 MOTION

REVISIONS

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

ENGINEER OF RECORD: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

DIMENSIONS:
Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

CERTIFICATION: These plans and Cover Sheet A-0, attached, comply with applicable portions of the Florida Building Code 2007 & 2009 supplements, to the best of my knowledge.

LIMITATION: This design is valid for one building at specified location. In case of conflict, structural requirements, scope of work, and builder responsibilities control.

MARK DISOSWAY
P.E. 53915

SEAL

Blake Construction

New Dentist Office for: Family Health Center of Columbia County

ADDRESS:
Lake City, Florida
Columbia County

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32025
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871
mdisosway@bellsouth.net

PRINTED DATE:
May 31, 2011

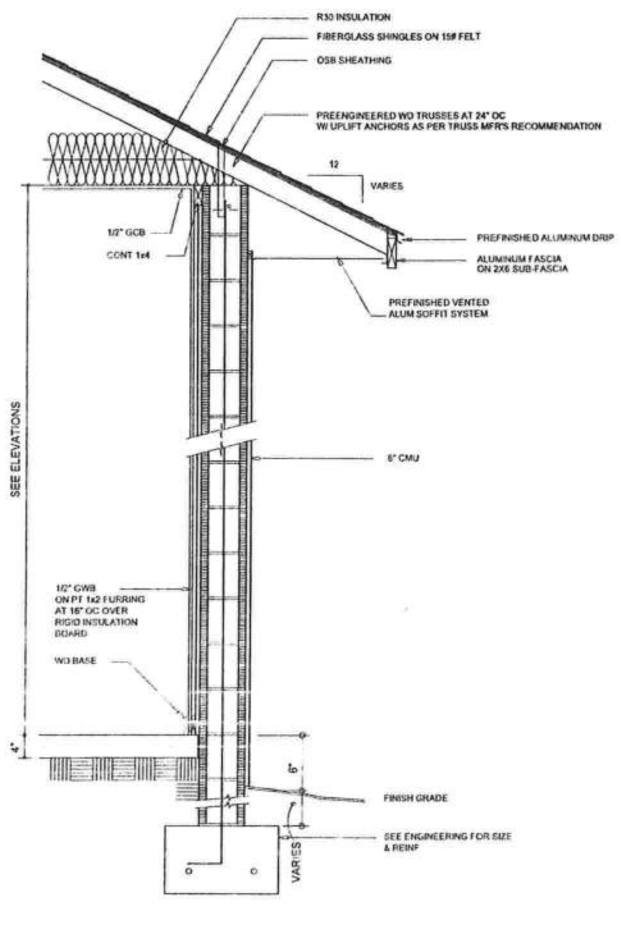
DRAWN BY: Evan Boomsma
CHECKED BY:

FINALES DATE:
2011 05 24

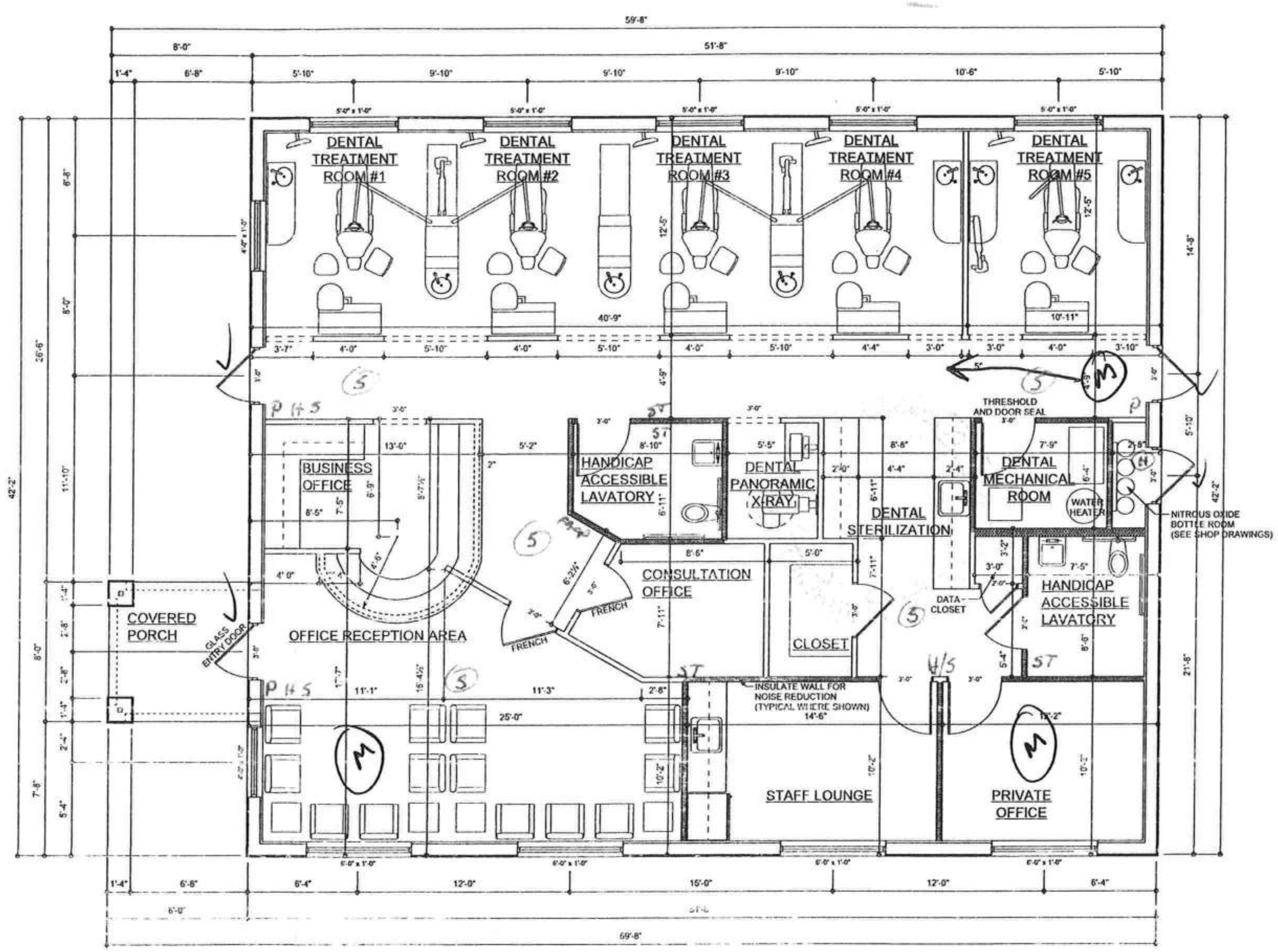
JOB NUMBER:

REVISIONS

SOFTPLAN



TYPICAL DESIGN WALL SECTION
NON - STRUCTURAL DATA
3/4" = 1'0"



FLOOR PLAN
SCALE: 1/4" = 1'0"

Sec
4 DR
1 KP
4 MOTN

1-5300
3-PULLS
3-H/S
4-STROBES
5-SMOKES
1-HEAT

ENGINEER OF RECORD: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

DIMENSIONS:
Stated dimensions supercede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

COPYRIGHTS AND PROPERTY RIGHTS:
Mark Disosway, P.E. hereby expressly reserves its common law copyrights and property right in these instruments of service. This document is not to be reproduced, altered or copied in any form or manner without first the express written permission and consent of Mark Disosway.

CERTIFICATION: These plans and Cover Sheet A-0, attached, comply with applicable portions of the Florida Building Code 2007 & 2009 supplements, to the best of my knowledge.

LIMITATION: This design is valid for one building at specified location. In case of conflict, structural requirements, scope of work, and builder responsibilities control.

MARK DISOSWAY
P.E. 53915

SEAL

Blake Construction

New Dentist Office for:
Family Health Center
of Columbia County

ADDRESS:
Lake City, Florida
Columbia County

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32025
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871
[illegible]@bellsouth.net

PRINTED DATE
May 11, 2011

DRAWN BY	CHECKED BY
Evan Beamsley	

FINALES DATE	
2011 05 24	

JOB NUMBER:


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

Concrete block

CAL-TECH TESTING, INC.

ENGINEERING & TESTING LABORATORY

P.O. Box 1625 Lake City, FL 32056 •(386) 755-3633 • FAX (386) 752-5456
4784 Rosselle Street, Jacksonville, FL 32254 • (904)381-8901 • Fax(904) 381-8902

JOB NO: 10-00163-01
LAB NO: 13170
DATE: 4/21/2010

REPORT OF: Sampling & Testing Concrete Masonry Units (ASTM C-140)
Standard Specification for Load Bearing Concrete Masonry Units (ASTM C-90)

PROJECT: 2010 Concrete Block Testing

CLIENT: Columbia Ready-Mix Concrete, Inc.
P.O. Box 2101
Lake City, FL 32056-2101

BLOCK NO.:	1	No. of Cells:	2
Size of Block:	8 x 8 x 16	Face Shell Thickness (FST):	1.3
Measured Size:	7.66 x 7.60 x 15.60	Web Thickness:	1.1
Date Cast:	Unknown	Equivalent Web:	2.5
Date Submitted:	4/15/2010	Equivalent Thickness:	4.0
Date Tested:	4/19/2010	Fire Endurance (hours):	2

BLOCK NO.:	2	No. of Cells:	2
Size of Block:	8 x 8 x 16	Face Shell Thickness (FST):	1.3
Measured Size:	7.60 x 7.60 x 15.60	Web Thickness:	1.1
Date Cast:	Unknown	Equivalent Web:	2.5
Date Submitted:	4/15/2010	Equivalent Thickness:	4.0
Date Tested:	4/19/2010	Fire Endurance (hours):	2

BLOCK NO.:	3	No. of Cells:	2
Size of Block:	8 x 8 x 16	Face Shell Thickness (FST):	1.3
Measured Size:	7.60 x 7.60 x 15.64	Web Thickness:	1.1
Date Cast:	Unknown	Equivalent Web:	2.5
Date Submitted:	4/15/2010	Equivalent Thickness:	4.0
Date Tested:	4/19/2010	Fire Endurance (hours):	2

Block I.D.	Dens. (lbs./ft.^{3})	Absorption (%)	Age Days	Area (Sq. Inches) Net	Area (Sq. Inches) Gross	Breaking Load (lbs.)	Unit Load (Lbs./Sq.In.) Net	Unit Load (Lbs./Sq.In.) Gross
1	97.2	12.0%	Unknown	61.7	118.6	215,000	3490	1810
2	96.8	12.5%	Unknown	61.7	118.6	211,000	3420	1780
3	97.0	12.6%	Unknown	61.8	118.9	200,000	3240	1680
AVERAGE	97.0	12.4%	Unknown	61.7	118.7	208,667	3380	1760

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer, CEO, DBE

Linda M. Creamer
President - CEO

Reviewed By:

Date: 4/26/10
Licensed, Florida No.: 57842

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

Family Health Center Dental Clinic

Location: **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			
1. Swinging	Mayfair	entry door	FL 1311
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Danvid	Single hung windows	FL 1369
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			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other	concrete block	Concrete Block See attached	
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Tamko	30-year Asphault Shingles	FL 673
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 inspectior

Contractor or Contractor's Authorized Agent Signature

Linda Roda 6-14-4

Print Name Date

Location

Permit # **(FOR STAFF USE ONLY)**

Julius Lee

RE: 373452 - BLAKE CONST. - FAMILY HEALTH DENTAL

1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

Site Information:
Project Customer: BLAKE CONST. Project Name: 373452 Model: FAMILY HEALTH DENTAL
Lot/Block: Subdivision:
Address: 173 NW ALBRITTON LN
City: COLUMBIA 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 7.3
Wind Code: ASCE 7-05 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 18 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.

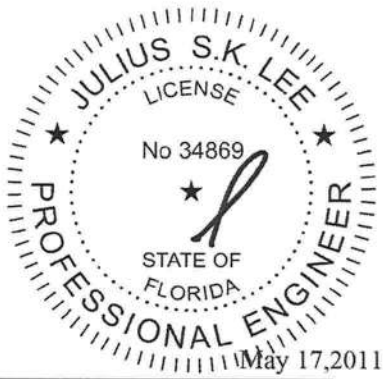
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I4741372	CJ1	5/17/011	18	I4741389	T10	5/17/011
2	I4741373	CJ3	5/17/011				
3	I4741374	CJ5	5/17/011				
4	I4741375	EJ3	5/17/011				
5	I4741376	EJ7	5/17/011				
6	I4741377	EJ7A	5/17/011				
7	I4741378	HJ4	5/17/011				
8	I4741379	HJ9	5/17/011				
9	I4741380	T01	5/17/011				
10	I4741381	T02	5/17/011				
11	I4741382	T03	5/17/011				
12	I4741383	T04	5/17/011				
13	I4741384	T05	5/17/011				
14	I4741385	T06	5/17/011				
15	I4741386	T07	5/17/011				
16	I4741387	T08	5/17/011				
17	I4741388	T09	5/17/011				

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.



May 17,2011

Julius Lee

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	CJ1	JACK	12	1	Job Reference (optional)	I4741372

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:48 2011 Page 1

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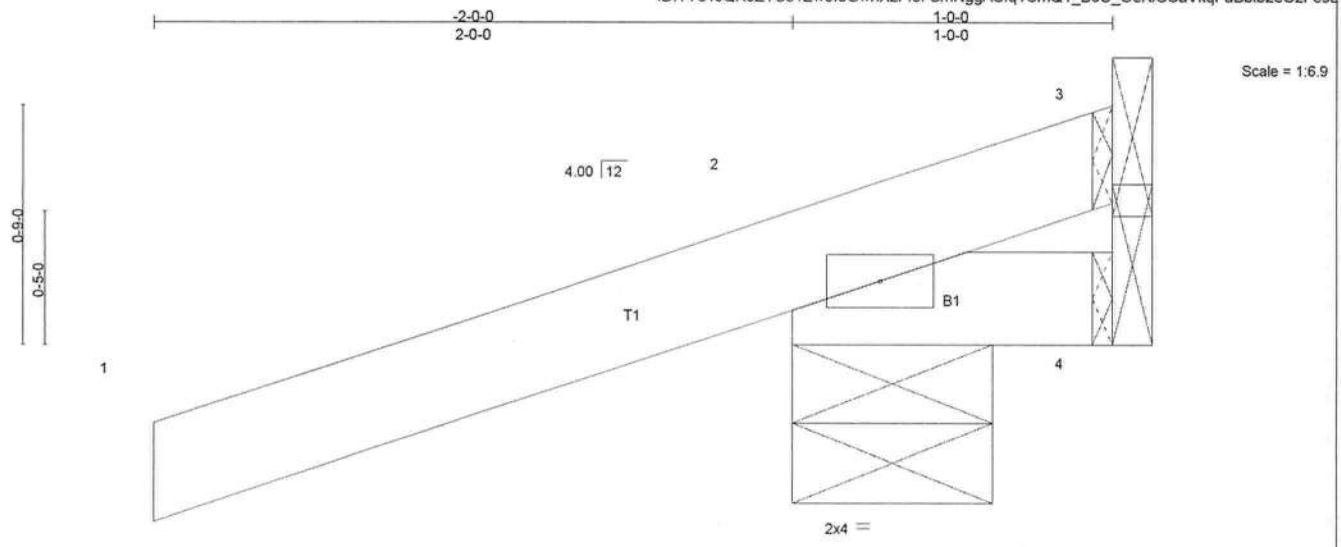

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.00	2	****	240	Weight: 6 lb	FT = 20%

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 1-0-0 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=265/0-7-8, 4=5/Mechanical, 3=-99/Mechanical
Max Horz 2=69(LC 4)
Max Uplift2=-336(LC 4), 3=-99(LC 1)
Max Grav 2=265(LC 1), 4=14(LC 2), 3=148(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=16ft; 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
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 336 lb uplift at joint 2 and 99 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

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

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741373
373452	CJ3	JACK	8	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:49 2011 Page 1

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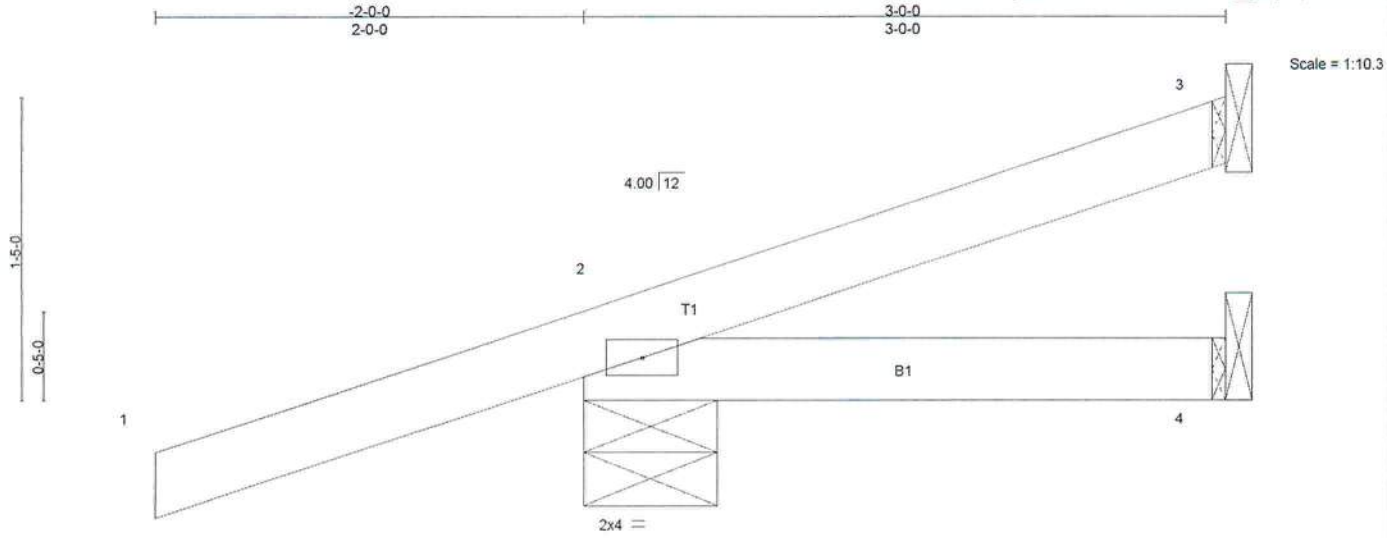


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.00	2	****	240	Weight: 12 lb	FT = 20%

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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

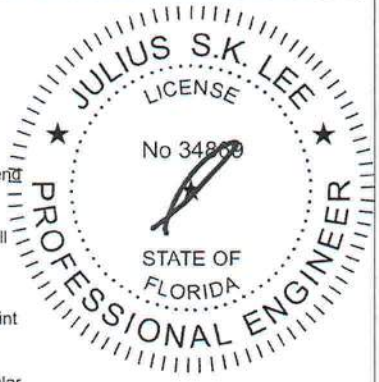
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=16/Mechanical, 2=264/0-7-8, 4=13/Mechanical
Max Horz 2=106(LC 4)
Max Uplift 3=-25(LC 7), 2=-283(LC 4)
Max Grav 3=16(LC 1), 2=264(LC 1), 4=39(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=16ft; 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 25 lb uplift at joint 3 and 283 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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741374
373452	CJ5	JACK	8	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:49 2011 Page 1

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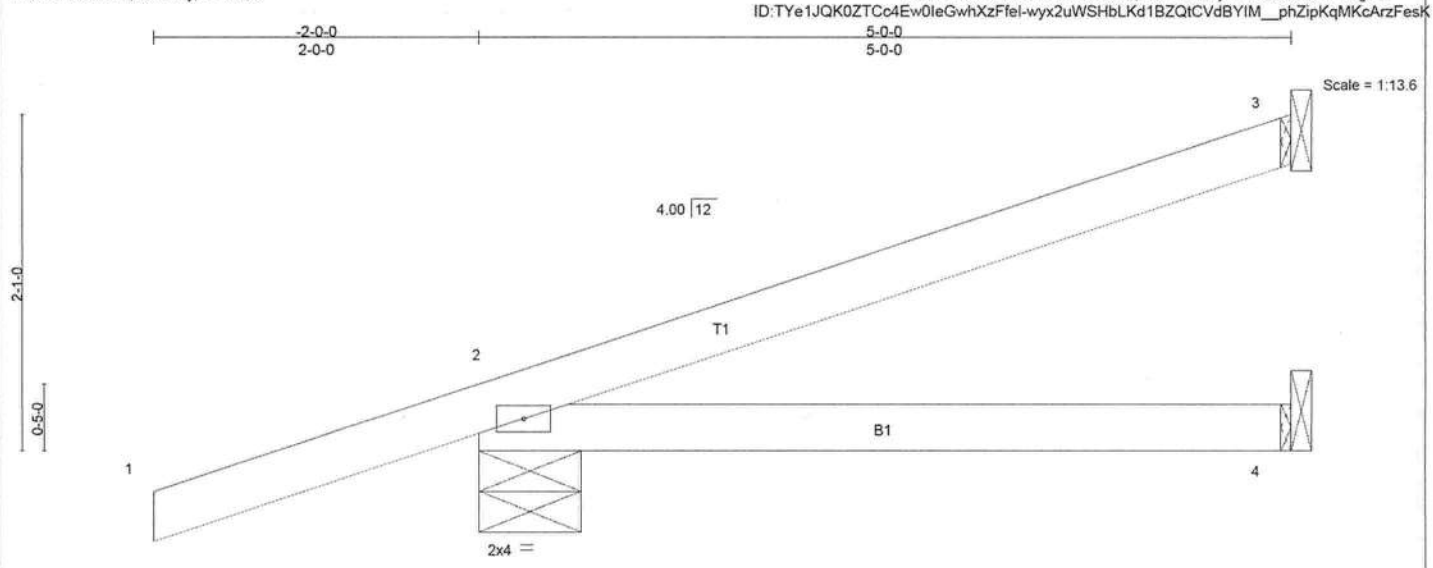


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.02	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.04	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.00	2	****	240	Weight: 19 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 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) 3=94/Mechanical, 2=304/0-7-8, 4=23/Mechanical
Max Horz 2=143(LC 4)
Max Uplift3=-87(LC 4), 2=-286(LC 4)
Max Grav 3=94(LC 1), 2=304(LC 1), 4=69(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=16ft; 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 87 lb uplift at joint 3 and 286 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

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

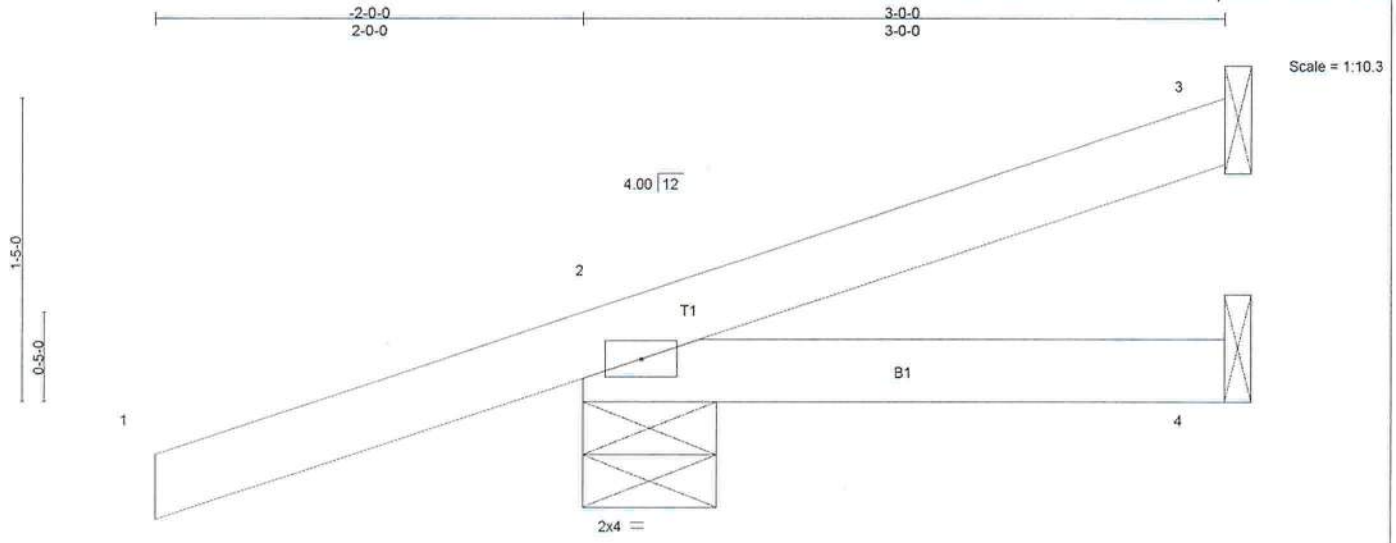
May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741375
373452	EJ3	JACK	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:50 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0IeGwhXzFfeI-O8VQ5sTvMfSUfL8cRv0skIqXkOAuI93U2049iHzFesJ



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)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.00	2-4	>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)	0.01	2-4	>999	240	Weight: 12 lb	FT = 20%

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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

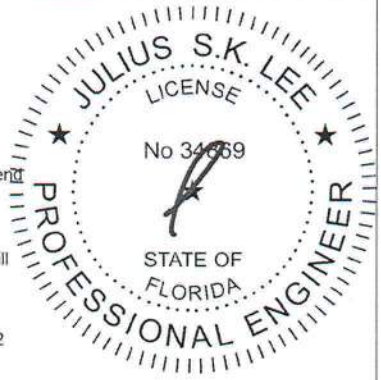
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=16/Mechanical, 2=264/0-7-8, 4=13/Mechanical
Max Horz 2=106(LC 4)
Max Uplift 3=-25(LC 7), 2=-324(LC 4), 4=-33(LC 4)
Max Grav 3=16(LC 1), 2=264(LC 1), 4=39(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=16ft; 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
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 25 lb uplift at joint 3, 324 lb uplift at joint 2 and 33 lb uplift at joint 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL
373452	EJ7	MONO TRUSS	24	1	I4741376
					Job Reference (optional)

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:50 2011 Page 1

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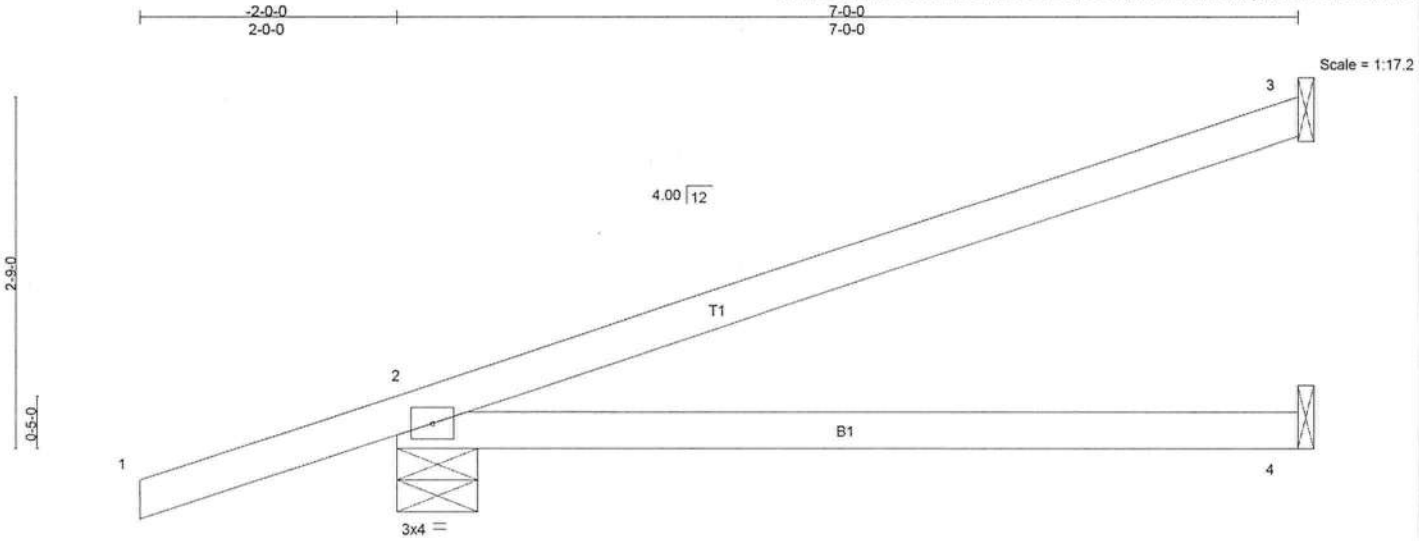


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.08	2-4	>998	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.15	2-4	>524	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.05	2-4	>999	240	Weight: 25 lb	FT = 20%

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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

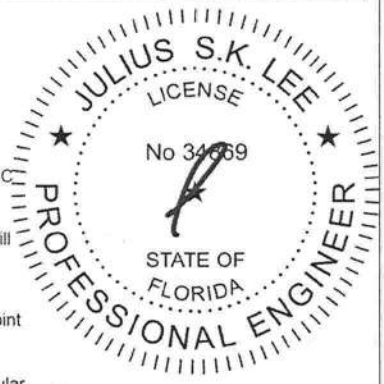
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=151/Mechanical, 2=359/0-7-8, 4=39/Mechanical
Max Horz 2=130(LC 4)
Max Uplift3=-93(LC 4), 2=-213(LC 4)
Max Grav 3=151(LC 1), 2=359(LC 1), 4=93(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=16ft; 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 93 lb uplift at joint 3 and 213 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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741377
373452	EJ7A	MONO TRUSS	6	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:50 2011 Page 1

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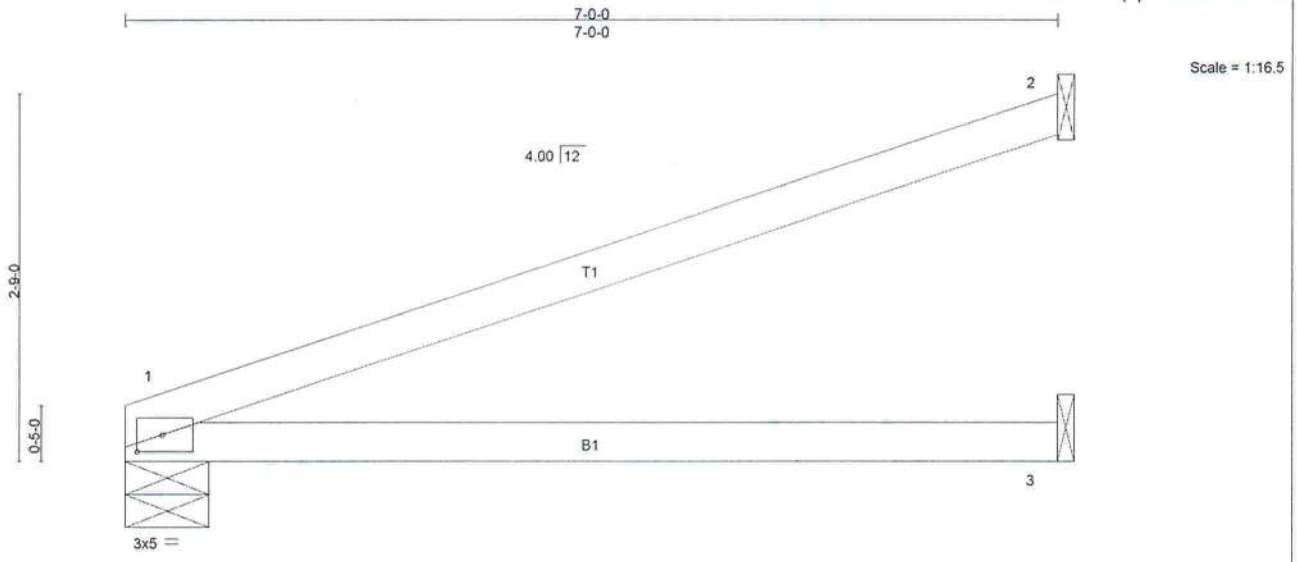


Plate Offsets (X,Y): [1:0-2-4,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.08	1-3	>942	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.17	1-3	>478	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.08	1-3	>950	240	Weight: 22 lb	FT = 20%

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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

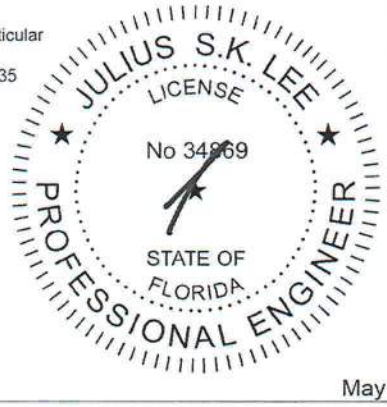
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=212/0-7-8, 2=168/Mechanical, 3=44/Mechanical
Max Horz 1=96(LC 4)
Max Uplift 1=-65(LC 4), 2=-110(LC 4)
Max Grav 1=212(LC 1), 2=168(LC 1), 3=96(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=16ft; 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 65 lb uplift at joint 1 and 110 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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741378
373452	HJ4	JACK	2	1	Job Reference (optional)	

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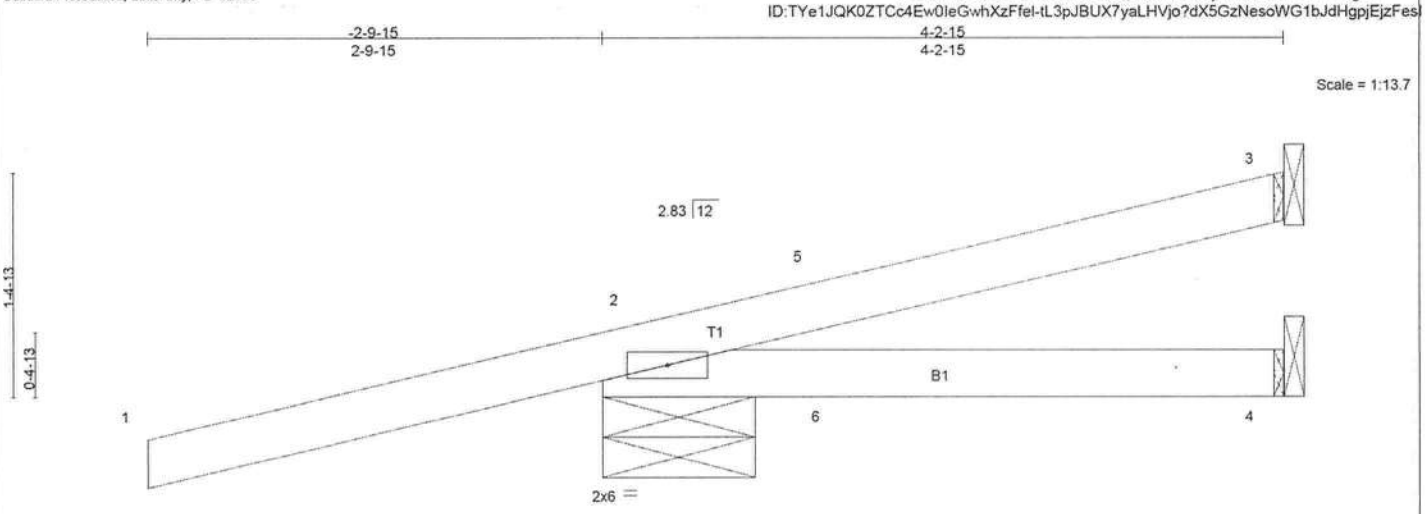

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.02	2-4	>999	240	Weight: 17 lb	FT = 20%

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 4-2-15 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) 3=10/Mechanical, 2=301/0-11-6, 4=16/Mechanical
Max Horz 2=106(LC 3)
Max Uplift 3=-49(LC 6), 2=-489(LC 3), 4=-50(LC 3)
Max Grav 3=10(LC 1), 2=301(LC 1), 4=48(LC 2)

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

NOTES (10-11)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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 49 lb uplift at joint 3, 489 lb uplift at joint 2 and 50 lb uplift at joint 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb up at 1-5-12, and 40 lb up at 1-5-12 on top chord, and 16 lb up at 1-5-12, and 16 lb up at 1-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
11) 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
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 2-4=-10
Concentrated Loads (lb)
Vert: 5=79(F=40, B=40) 6=11(F=5, B=5)

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	HJ9	MONO TRUSS	4	1	Job Reference (optional)	I4741379

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:52 2011 Page 1

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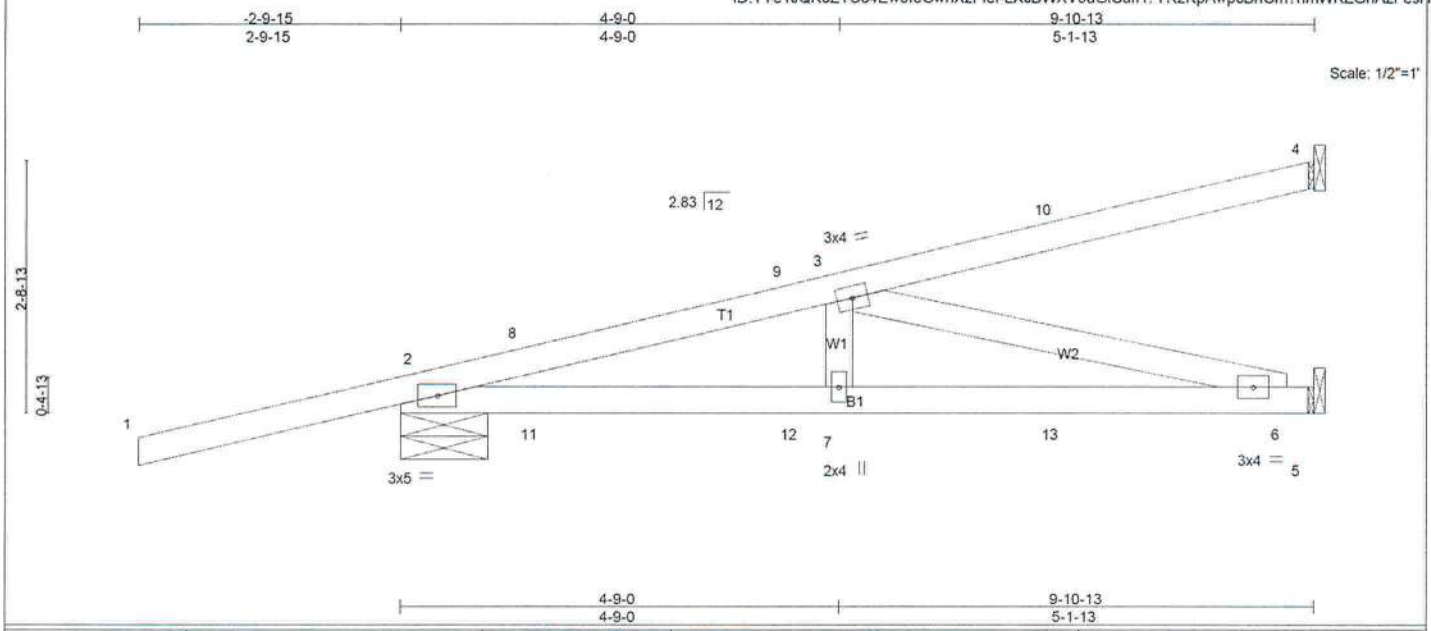


4-9-0 / 4-9-0 — 9-10-13 / 5-1-13

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.11	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.04	6-7	>999	240	Weight: 43 lb	FT = 20%

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

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) 4=154/Mechanical, 2=413/0-11-6, 5=157/Mechanical
Max Horz 2=182(LC 3)
Max Uplift 4=-143(LC 3), 2=-481(LC 3), 5=-76(LC 6)
Max Grav 4=154(LC 1), 2=413(LC 1), 5=213(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-535/319, 8-9=-539/314, 3-9=-521/318
BOT CHORD 2-11=-376/498, 11-12=-376/498, 7-12=-376/498, 7-13=-376/498, 6-13=-376/498
WEBS 3-6=-514/388

NOTES (10-11)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 4, 481 lb uplift at joint 2 and 76 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb up at 1-5-12, 40 lb up at 1-5-12, 24 lb down and 38 lb up at 4-3-11, 24 lb down and 38 lb up at 4-3-11, and 40 lb down and 70 lb up at 7-1-10, and 40 lb down and 70 lb up at 7-1-10 on top chord, and 16 lb up at 1-5-12, 16 lb up at 1-5-12, 9 lb down at 4-3-11, 9 lb down at 4-3-11, and 39 lb down at 7-1-10, and 39 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
11) 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, 2-5=-10

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

Continued on page 2

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL
373452	HJ9	MONO TRUSS	4	1	I4741379
					Job Reference (optional)

Builders FrstSource, Lake City, FL 32055 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:52 2011 Page 2

ID:TYe1JQK0ZTCc4Ew0leGwhXzFfel-LXcBWXV9uGiCufH?YK2KpAwpcBnCm?nmWKZGnAzFesH

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=79(F=40, B=40) 9=76(F=38, B=38) 10=-79(F=-40, B=-40) 11=11(F=5, B=5) 12=-6(F=-3, B=-3) 13=-26(F=-13, B=-13)

JULIUS S.K. LEE
LICENSE
No 34809
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

May 17,2011

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. - FAMILY HEALTH DENTAL	I4741380
373452	T01	HIP	2	3	Job Reference (optional)	

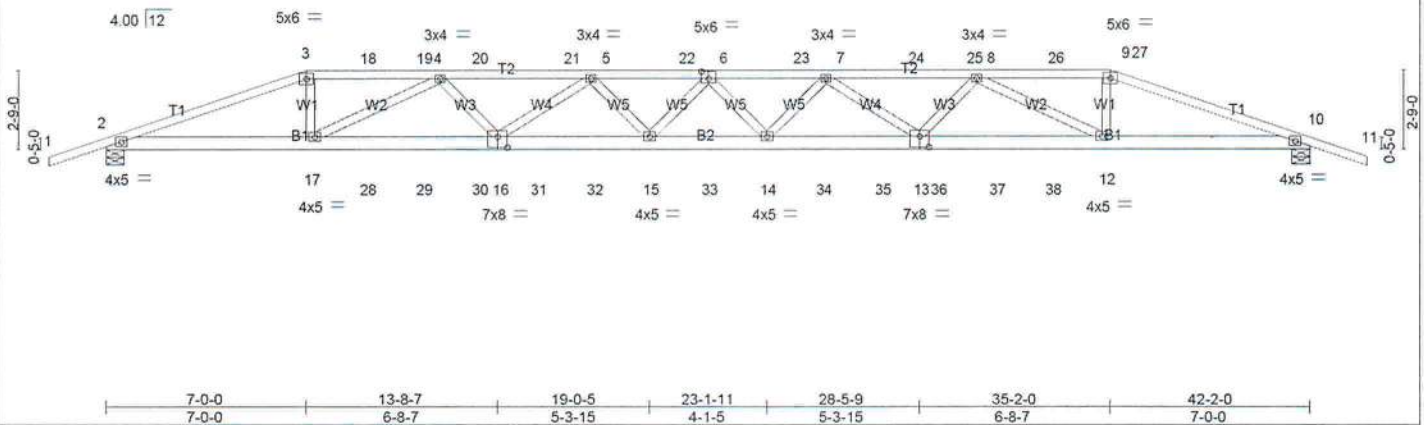
Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:54 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0IeGwhXzFfeI-HwkxxDWQQtyv8zRNgI5oub?EO?R3Ev_3ze2Nr2zFesF

-2-0-0 | 7-0-0 | 11-8-5 | 16-11-10 | 21-1-0 | 25-2-6 | 30-5-11 | 35-2-0 | 42-2-0 | 44-2-0

2-0-0 | 7-0-0 | 4-8-5 | 5-3-5 | 4-1-6 | 4-1-6 | 5-3-5 | 4-8-5 | 7-0-0 | 2-0-0

Scale = 1:77.1



7-0-0 | 13-8-7 | 19-0-5 | 23-1-11 | 28-5-9 | 35-2-0 | 42-2-0

7-0-0 | 6-8-7 | 5-3-15 | 4-1-5 | 5-3-15 | 6-8-7 | 7-0-0

Plate Offsets (X,Y): [6:0-3-0,0-3-0], [13:0-4-0,0-4-8], [16:0-4-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.46	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.89	14-15	>559	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(TL)	0.12	10	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.48	14-15	>999	240	Weight: 678 lb	FT = 20%

LUMBER

TOP CHORD 2 X 4 SYP No.2
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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

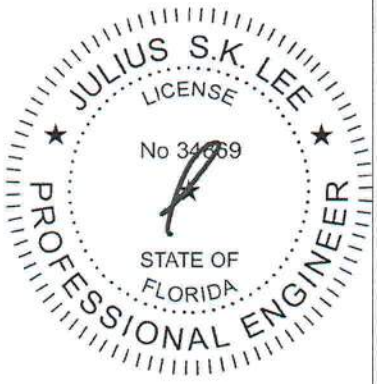
REACTIONS (lb/size) 2=2648/0-7-8, 10=2648/0-7-8
Max Horz 2=63(LC 5)
Max Uplift 2=-1199(LC 3), 10=-1197(LC 4)

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

TOP CHORD 2-3=-6875/2872, 3-18=-6524/2776, 18-19=-6524/2776, 4-19=-6524/2775, 4-20=-10159/4164, 20-21=-10159/4164, 5-21=-10159/4164, 5-22=-11491/4694, 6-22=-11491/4694, 6-23=-11491/4691, 7-23=-11491/4691, 7-24=-10159/4155, 24-25=-10159/4155, 8-25=-10159/4155, 8-26=-6524/2771, 26-27=-6524/2771, 9-27=-6525/2771, 9-10=-6876/2867

BOT CHORD 2-17=-2656/6417, 17-28=-3845/9359, 28-29=-3845/9359, 29-30=-3845/9359, 16-30=-3845/9359, 16-31=-4566/11242, 31-32=-4566/11242, 15-32=-4566/11242, 15-33=-4706/11651, 14-33=-4706/11651, 14-34=-4559/11242, 34-35=-4559/11242, 13-35=-4559/11242, 13-36=-3834/9359, 36-37=-3834/9359, 37-38=-3834/9359, 12-38=-3834/9359, 10-12=-2637/6417

WEBS 3-17=-609/1766, 4-17=-3269/1311, 4-16=-367/1263, 5-16=-1365/609, 5-15=-76/423, 6-15=-271/152, 6-14=-263/150, 7-14=-74/423, 7-13=-1354/606, 8-13=-365/1255, 8-12=-3256/1308, 9-12=-607/1759



NOTES (12-13)

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SYP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1199 lb uplift at joint 2 and 1197 lb uplift at joint 10.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

Continued on page 2

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL
373452	T01	HIP	2	3	I4741380
					Job Reference (optional)

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:54 2011 Page 2

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NOTES (12-13)

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 197 lb down and 203 lb up at 7-0-0, 97 lb down and 76 lb up at 9-0-12, 97 lb down and 76 lb up at 11-0-12, 97 lb down and 76 lb up at 13-0-12, 97 lb down and 76 lb up at 15-0-12, 97 lb down and 76 lb up at 17-0-12, 97 lb down and 76 lb up at 19-0-12, 97 lb down and 76 lb up at 21-1-0, 97 lb down and 76 lb up at 23-1-4, 97 lb down and 76 lb up at 25-1-4, 97 lb down and 76 lb up at 27-1-4, 97 lb down and 76 lb up at 29-1-4, 97 lb down and 76 lb up at 31-1-4, and 97 lb down and 76 lb up at 33-1-4, and 237 lb down and 203 lb up at 35-2-0 on top chord, and 246 lb down and 68 lb up at 7-0-0, 63 lb down at 9-0-12, 63 lb down at 11-0-12, 63 lb down at 13-0-12, 63 lb down at 15-0-12, 63 lb down at 17-0-12, 63 lb down at 19-0-12, 63 lb down at 21-1-0, 63 lb down at 23-1-4, 63 lb down at 25-1-4, 63 lb down at 27-1-4, 63 lb down at 29-1-4, 63 lb down at 31-1-4, and 63 lb down at 33-1-4, and 246 lb down and 68 lb up at 35-1-4 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

LOAD CASE(S) Standard

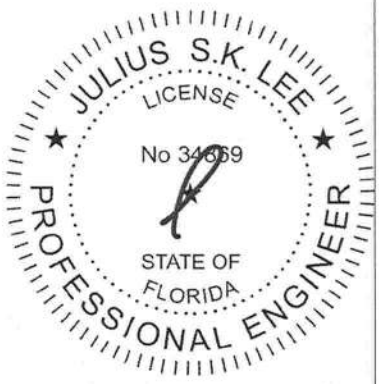
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-9=-54, 9-11=-54, 2-10=-10

Concentrated Loads (lb)

Vert: 3=-197(B) 6=-97(B) 9=-197(B) 17=-176(B) 5=-97(B) 15=-29(B) 14=-29(B) 7=-97(B) 12=-176(B) 18=-97(B) 19=-97(B) 20=-97(B) 21=-97(B) 22=-97(B) 23=-97(B) 24=-97(B) 25=-97(B) 26=-97(B) 27=-97(B) 28=-29(B) 29=-29(B) 30=-29(B) 31=-29(B) 32=-29(B) 33=-29(B) 34=-29(B) 35=-29(B) 36=-29(B) 37=-29(B) 38=-29(B)



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

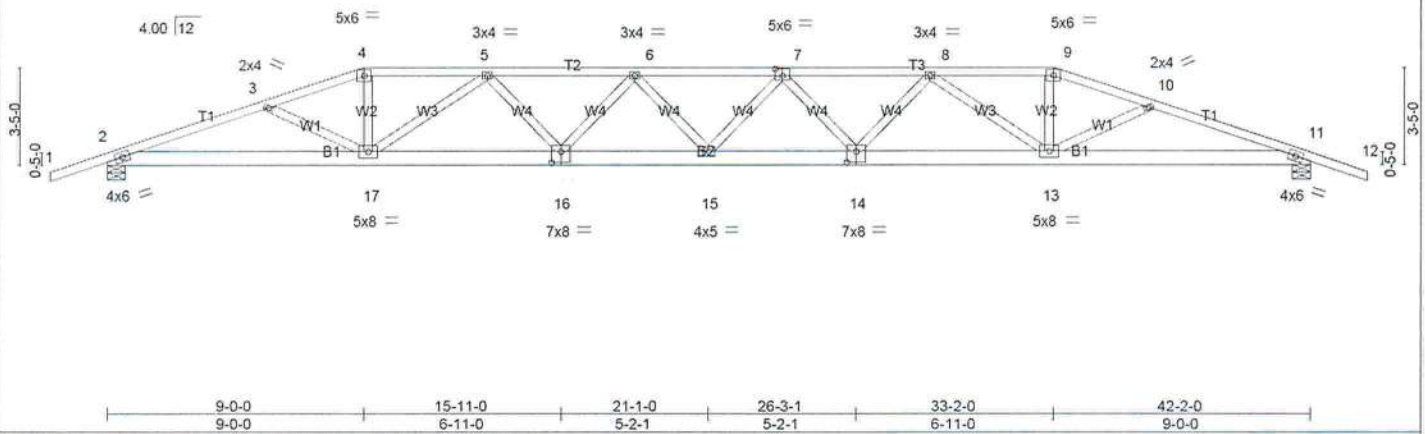
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741381
373452	T02	HIP	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:55 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0leGwhXzFfel-I6IJ8ZX2BB4ml60aESc1QpYMGPnBzHtDCInwNUzFesE

-2-0-0	5-7-15	9-0-0	13-4-0	18-6-0	23-8-1	28-10-0	33-2-0	36-6-1	42-2-0	44-2-0
2-0-0	5-7-15	3-4-1	4-4-0	5-2-0	5-2-1	5-2-0	4-4-0	3-4-1	5-7-15	2-0-0

Scale = 1:77.1



9-0-0	15-11-0	21-1-0	26-3-1	33-2-0	42-2-0
9-0-0	6-11-0	5-2-1	5-2-1	6-11-0	9-0-0

Plate Offsets (X,Y): [7:0-3-0,0-3-0], [14:0-4-0,0-4-8], [16:0-4-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	-0.46	15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.88	15	>567	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.15	11	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.67	15	>743	240	Weight: 236 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-11 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=1454/0-7-8, 11=1454/0-7-8
Max Horz 2=73(LC 6)
Max Uplift2=-636(LC 4), 11=-636(LC 5)

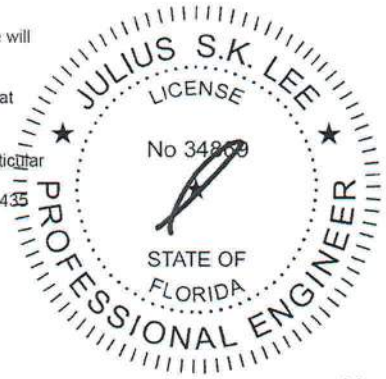
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3371/2322, 3-4=-3148/2160, 4-5=-2994/2103, 5-6=-4171/2926, 6-7=-4446/3111, 7-8=-4171/2926, 8-9=-2994/2103, 9-10=-3148/2160, 10-11=-3371/2322
BOT CHORD 2-17=-2047/3121, 16-17=-2487/3862, 15-16=-2875/4428, 14-15=-2875/4428, 13-14=-2487/3862, 11-13=-2047/3121
WEBS 4-17=-497/791, 5-17=-1130/788, 5-16=-287/518, 6-16=-441/312, 7-14=-441/312, 8-14=-287/518, 8-13=-1130/788, 9-13=-497/791

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 636 lb uplift at joint 2 and 636 lb uplift at joint 11.
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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

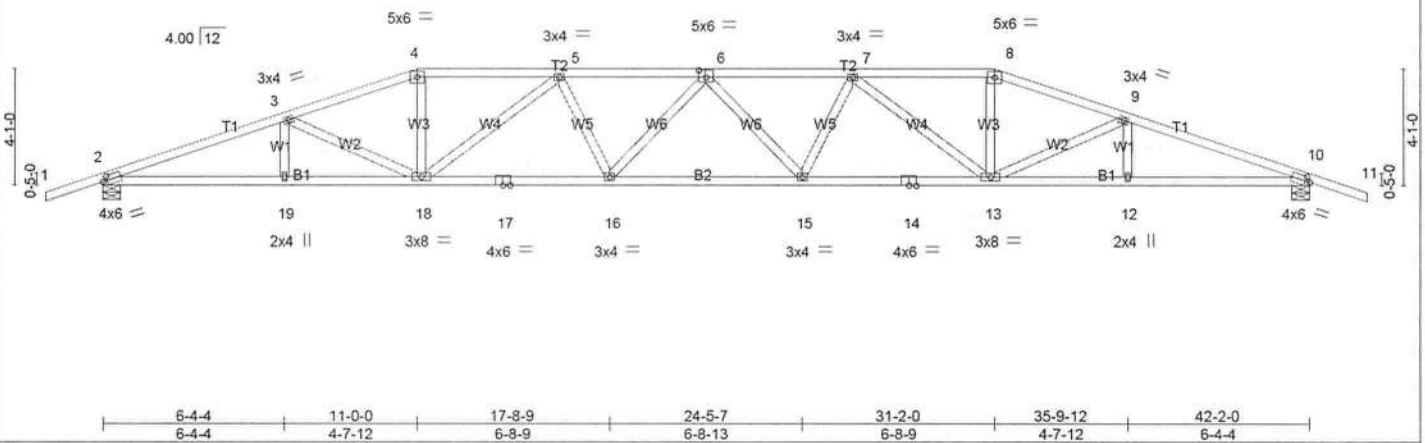
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741382
373452	T03	HIP	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:57 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0leGwhXzFfel-hVQ4ZFYIjoKU?QAyLteVWEdhHCTFRAdWfcG1SNzFesC

-2-0-0	6-4-4	11-0-0	15-11-8	21-1-0	26-2-8	31-2-0	35-9-12	42-2-0	44-2-0
2-0-0	6-4-4	4-7-12	4-11-8	5-1-8	5-1-8	4-11-8	4-7-12	6-4-4	2-0-0

Scale = 1:77.1



6-4-4	11-0-0	17-8-9	24-5-7	31-2-0	35-9-12	42-2-0
6-4-4	4-7-12	6-8-9	6-8-13	6-8-9	4-7-12	6-4-4

Plate Offsets (X,Y): [2:0-1-15,0-2-0], [6:0-3-0,0-3-0], [10:0-1-15,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.41	15-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.80	15-16	>626	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.20	10	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.60	15-16	>835	240	Weight: 208 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-5-0 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=1454/0-7-8, 10=1454/0-7-8
Max Horz 2=80(LC 6)
Max Uplift2=-631(LC 4), 10=-631(LC 5)

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

TOP CHORD 2-3=-3304/2252, 3-4=-2956/2093, 4-5=-2789/2040, 5-6=-3499/2512, 6-7=-3499/2512, 7-8=-2789/2040, 8-9=-2956/2093, 9-10=-3304/2252

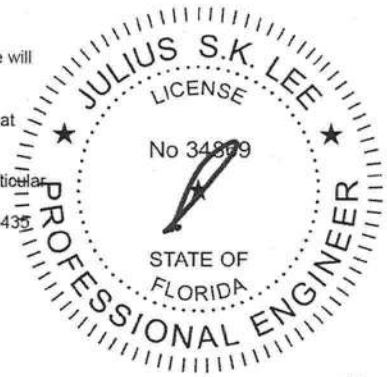
BOT CHORD 2-19=-1973/3043, 18-19=-1973/3043, 17-18=-2182/3405, 16-17=-2182/3405, 15-16=-2332/3620, 14-15=-2182/3405, 13-14=-2182/3405, 12-13=-1973/3043, 10-12=-1973/3043

WEBS 3-18=-319/266, 4-18=-434/685, 5-18=-877/553, 5-16=-91/280, 6-16=-251/168, 6-15=-251/168, 7-15=-91/280, 7-13=-877/553, 8-13=-434/685, 9-13=-319/266

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 631 lb uplift at joint 2 and 631 lb uplift at joint 10.
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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	T04	HIP	2	1	Job Reference (optional)	I4741383

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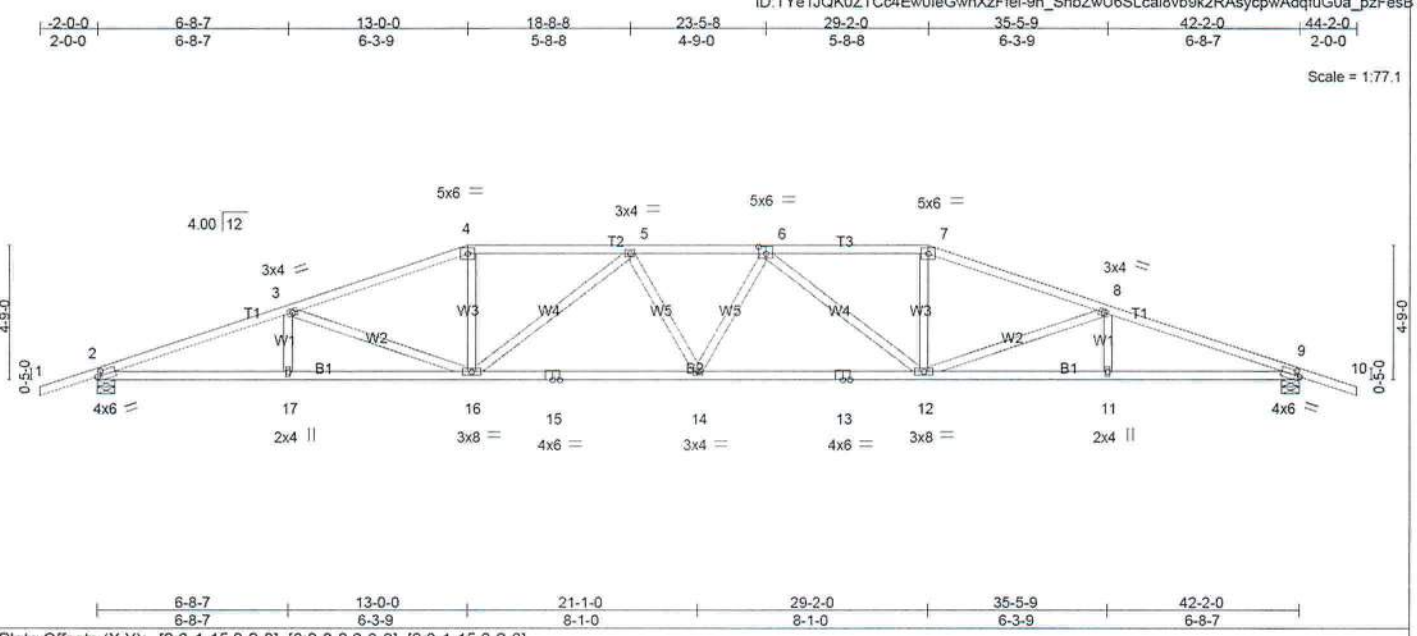


Plate Offsets (X,Y): [2:0-1-15,0-2-0], [6:0-3-0,0-3-0], [9:0-1-15,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.35	14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.67	14-16	>739	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.19	9	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.51	14	>981	240	Weight: 207 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-7 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=1454/0-7-8, 9=1454/0-7-8
Max Horz 2=89(LC 6)
Max Uplift 2=-625(LC 4), 9=-625(LC 5)

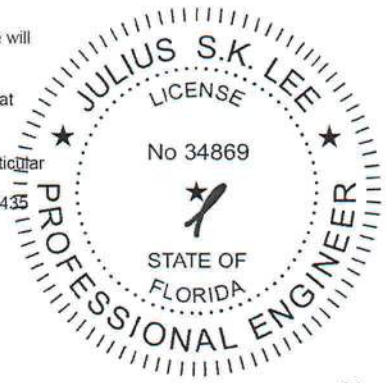
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3322/2298, 3-4=-2823/2019, 4-5=-2641/1979, 5-6=-3065/2255, 6-7=-2641/1979, 7-8=-2823/2019, 8-9=-3322/2298
BOT CHORD 2-17=-2017/3064, 16-17=-2017/3064, 15-16=-1936/3045, 14-15=-1936/3045, 13-14=-1936/3045, 12-13=-1936/3045, 11-12=-2017/3064, 9-11=-2017/3064
WEBS 3-16=-483/408, 4-16=-340/566, 5-16=-653/372, 6-12=-653/372, 7-12=-340/566, 8-12=-483/408

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 625 lb uplift at joint 2 and 625 lb uplift at joint 9.
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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

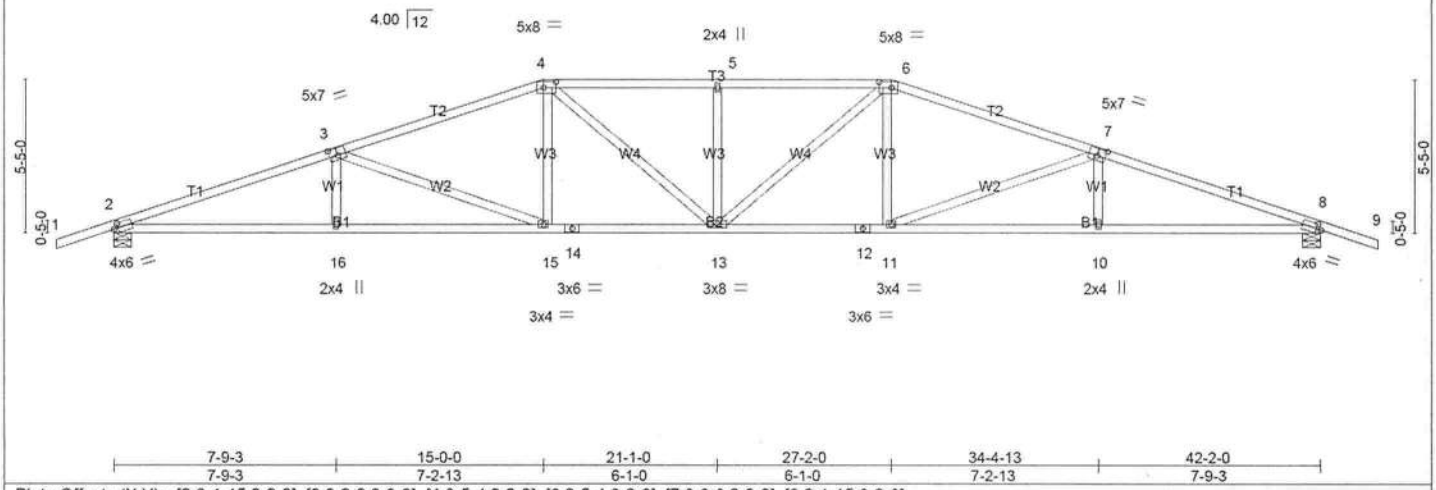
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741384
373452	T05	HIP	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:59 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0leGwhXzFfel-etYq_xaYFQbCEkKLTlgzbfi0p09qv3Ko7wl8WGzFesA

-2-0-0	7-9-3	15-0-0	21-1-0	27-2-0	34-4-13	42-2-0	44-2-0
2-0-0	7-9-3	7-2-13	6-1-0	6-1-0	7-2-13	7-9-3	2-0-0

Scale = 1:77.1



7-9-3	15-0-0	21-1-0	27-2-0	34-4-13	42-2-0
7-9-3	7-2-13	6-1-0	6-1-0	7-2-13	7-9-3

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.32	13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.60	13	>829	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.18	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.47	13	>999	240	Weight: 208 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-3 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=1454/0-7-8, 8=1454/0-7-8
Max Horz 2=-99(LC 7)
Max Uplift 2=-617(LC 4), 8=-617(LC 5)

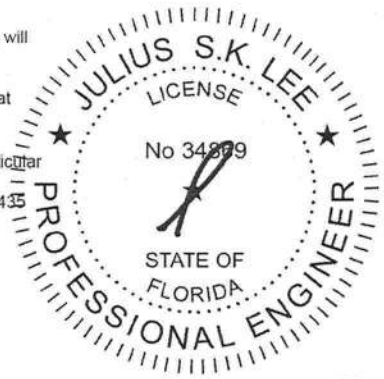
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3313/2321, 3-4=-2660/1940, 4-5=-2703/2066, 5-6=-2703/2066, 6-7=-2660/1940, 7-8=-3313/2321
BOT CHORD 2-16=-2033/3054, 15-16=-2033/3054, 14-15=-1528/2467, 13-14=-1528/2467, 12-13=-1528/2467, 11-12=-1528/2467, 10-11=-2033/3054, 8-10=-2033/3054
WEBS 3-15=-650/542, 4-15=-156/357, 4-13=-212/484, 5-13=-363/313, 6-13=-212/484, 6-11=-156/357, 7-11=-650/542

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 617 lb uplift at joint 2 and 617 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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

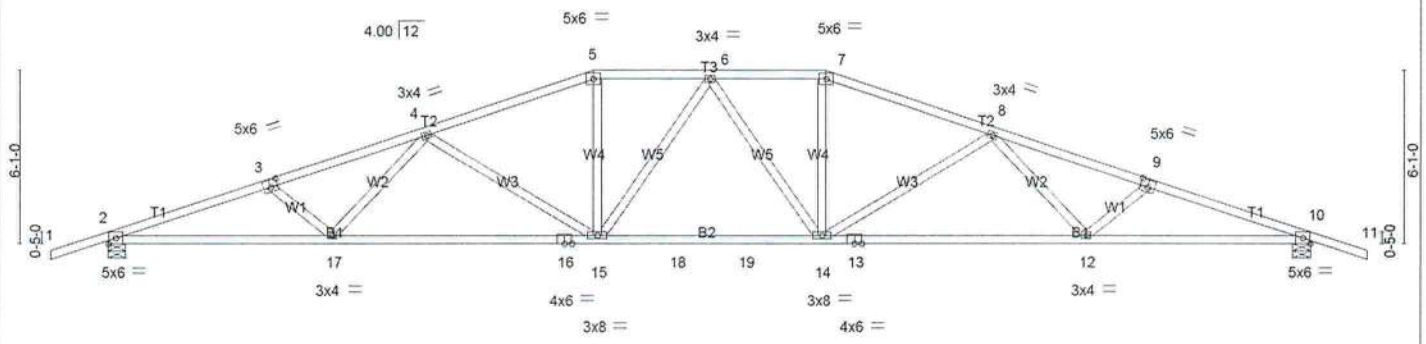
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741385
373452	T06	HIP	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:39:00 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0leGwhXzFfel-645CCGbB0jj3suvX00CC7sFC5QU6eYQyMaVh3izFes9

-2-0-0	5-8-11	11-1-13	17-0-0	21-1-0	25-2-0	31-0-3	36-5-5	42-2-0	44-2-0
2-0-0	5-8-11	5-5-2	5-10-3	4-1-0	4-1-0	5-10-3	5-5-2	5-8-11	2-0-0

Scale = 1:77.1



7-10-4	17-0-0	25-2-0	34-3-12	42-2-0
7-10-4	9-1-12	8-2-0	9-1-12	7-10-4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.40	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.67	14-15	>741	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.18	10	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.43	15-17	>999	240	Weight: 214 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-9 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=1502/0-7-8, 10=1502/0-7-8
Max Horz 2=109(LC 6)
Max Uplift 2=-609(LC 4), 10=-609(LC 5)

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

TOP CHORD 2-3=-3434/2349, 3-4=-3263/2264, 4-5=-2616/1855, 5-6=-2443/1816, 6-7=-2443/1816, 7-8=-2616/1855, 8-9=-3263/2264, 9-10=-3434/2349
BOT CHORD 2-17=-2065/3165, 16-17=-1844/2906, 15-16=-1844/2906, 15-18=-1464/2516, 18-19=-1464/2516, 14-19=-1464/2516, 13-14=-1844/2906, 12-13=-1844/2906, 10-12=-2065/3165
WEBS 4-17=-100/347, 4-15=-576/538, 5-15=-339/556, 6-15=-304/121, 6-14=-304/121, 7-14=-339/556, 8-14=-576/538, 8-12=-100/347

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 609 lb uplift at joint 2 and 609 lb uplift at joint 10.
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

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

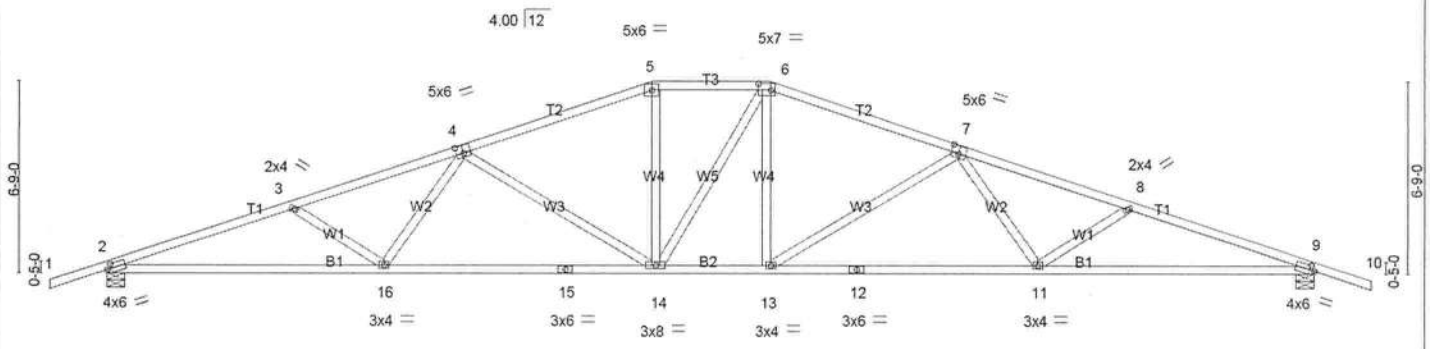
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741386
373452	T07	HIP	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:39:01 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0leGwhXzFfel-aGfbPccpm1rwT1TjajjRg4oLfqn_Nxa5aEEEb8zFes8

-2-0-0	6-6-7	12-5-4	19-0-0	23-2-0	29-8-12	35-7-9	42-2-0	44-2-0
2-0-0	6-6-7	5-10-13	6-6-12	4-2-0	6-6-12	5-10-13	6-6-7	2-0-0

Scale = 1:77.1



9-8-1	19-0-0	23-2-0	32-5-15	42-2-0
9-8-1	9-3-15	4-2-0	9-3-15	9-8-1

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.31	11-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.66	11-13	>752	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(TL)	0.20	9	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.46	11-13	>999	240	Weight: 213 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-3-1 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=1454/0-7-8, 9=1454/0-7-8
Max Horz 2=118(LC 6)
Max Uplift 2=-599(LC 4), 9=-599(LC 5)

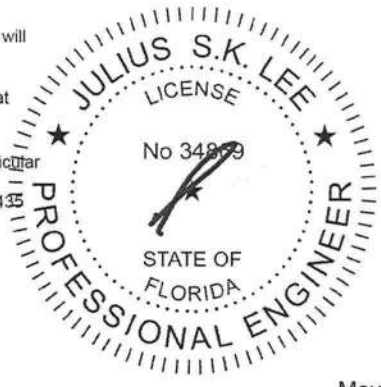
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3294/2391, 3-4=-3038/2230, 4-5=-2282/1767, 5-6=-2116/1736, 6-7=-2282/1767, 7-8=-3039/2230, 8-9=-3295/2391
BOT CHORD 2-16=-2102/3036, 15-16=-1792/2683, 14-15=-1792/2683, 13-14=-1278/2115, 12-13=-1792/2683, 11-12=-1792/2683, 9-11=-2102/3036
WEBS 3-16=-263/298, 4-16=-116/391, 4-14=-694/617, 5-14=-297/431, 6-13=-297/436, 7-13=-695/618, 7-11=-116/391, 8-11=-263/298

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 599 lb uplift at joint 2 and 599 lb uplift at joint 9.
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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741387
373452	T08	COMMON	6	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:39:01 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0IeGwhXzFfel-aGfbPccpm1rwT1TjajjRg4oLNqpcN_o5aEEEb8zFes8

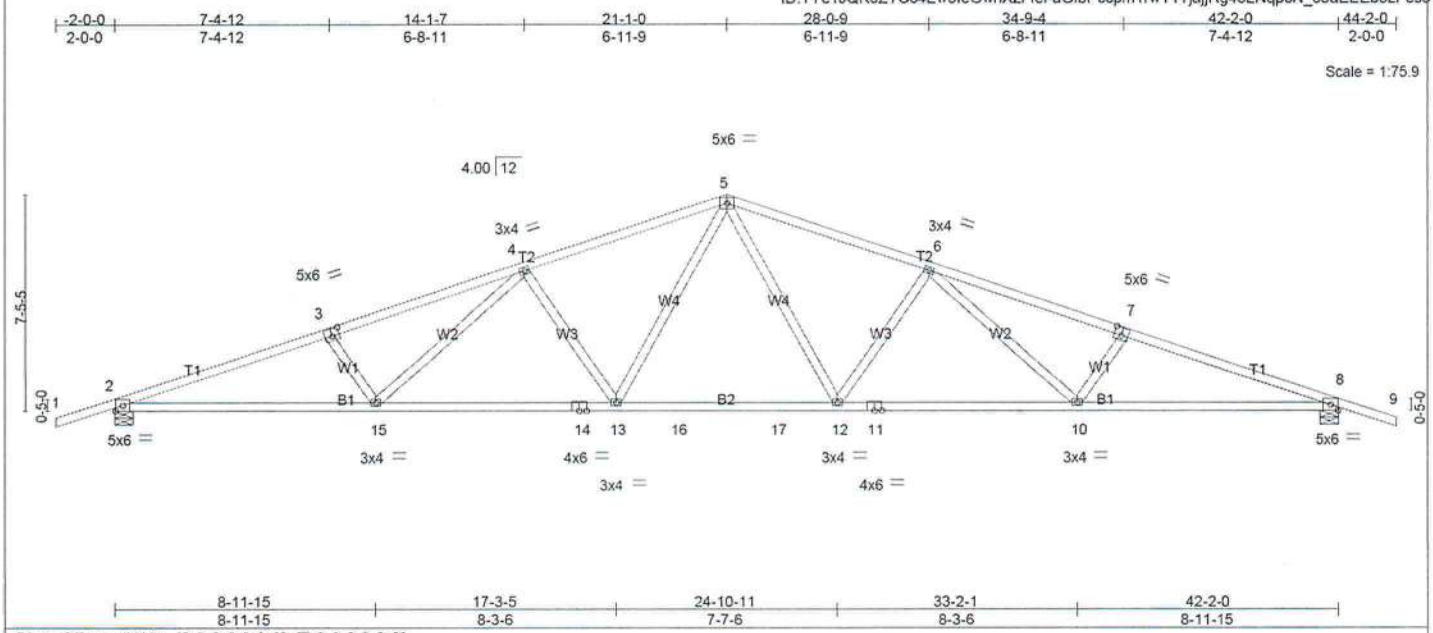


Plate Offsets (X,Y): [3:0-3-0,0-3-0], [7:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.43	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.72	12-13	>692	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.17	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.45	13	>999	240	Weight: 204 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-1 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=1522/0-7-8, 8=1522/0-7-8
Max Horz 2=129(LC 6)
Max Uplift 2=-588(LC 4), 8=-588(LC 5)

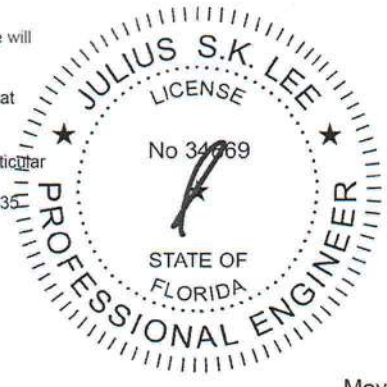
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3482/2400, 3-4=-3297/2352, 4-5=-2633/1935, 5-6=-2633/1935, 6-7=-3297/2352, 7-8=-3482/2400
BOT CHORD 2-15=-2106/3211, 14-15=-1706/2752, 13-14=-1706/2752, 13-16=-1160/2097, 16-17=-1160/2097, 12-17=-1160/2097, 11-12=-1706/2752, 10-11=-1706/2752, 8-10=-2106/3211
WEBS 5-12=-495/741, 6-12=-593/573, 6-10=-319/466, 7-10=-281/326, 5-13=-495/741, 4-13=-593/573, 4-15=-319/466, 3-15=-281/326

NOTES (8-9)

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=16ft; 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, with BCDL = 5.0psf.
5) All bearings are assumed to be SYP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 588 lb uplift at joint 2 and 588 lb uplift at joint 8.
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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741388
373452	T09	HIP	1	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:39:02 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0leGwhXzFfel-2SDzdycRXLzn5B2w8REgDHKbfDGq6aaFpu_o7bzFes7

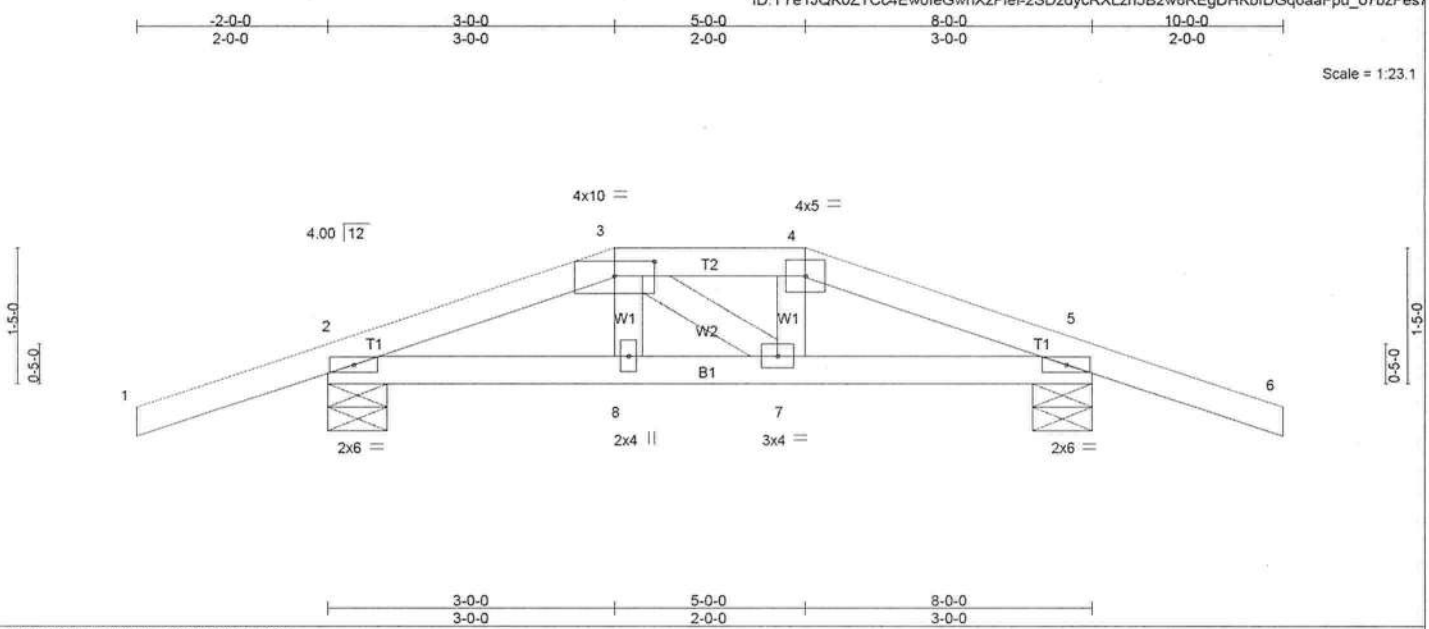


Plate Offsets (X,Y): [3:0-5-0,0-1-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.00	8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	8	>999	240	Weight: 36 lb	FT = 20%

LUMBER

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

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.

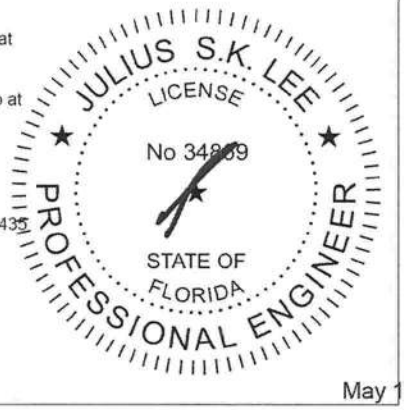
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=288/0-7-8, 5=288/0-7-8
Max Horz 2=41(LC 5)
Max Uplift 2=-398(LC 5), 5=-388(LC 6)
Max Grav 2=297(LC 9), 5=288(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-215/388, 3-4=-202/388, 4-5=-216/401
BOT CHORD 2-8=-307/189, 7-8=-315/201, 5-7=-342/190

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=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 398 lb uplift at joint 2 and 388 lb uplift at joint 5.
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) 82 lb up at 3-0-0, and 82 lb up at 5-0-0 on top chord, and 27 lb down and 33 lb up at 3-0-0, and 27 lb down and 33 lb up at 4-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) 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=-54, 3-4=-54, 4-6=-54, 2-5=-10

Continued on page 2

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL
373452	T09	HIP	1	1	I4741388
					Job Reference (optional)

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=82(F) 4=82(F) 8=-9(F) 7=-9(F)

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

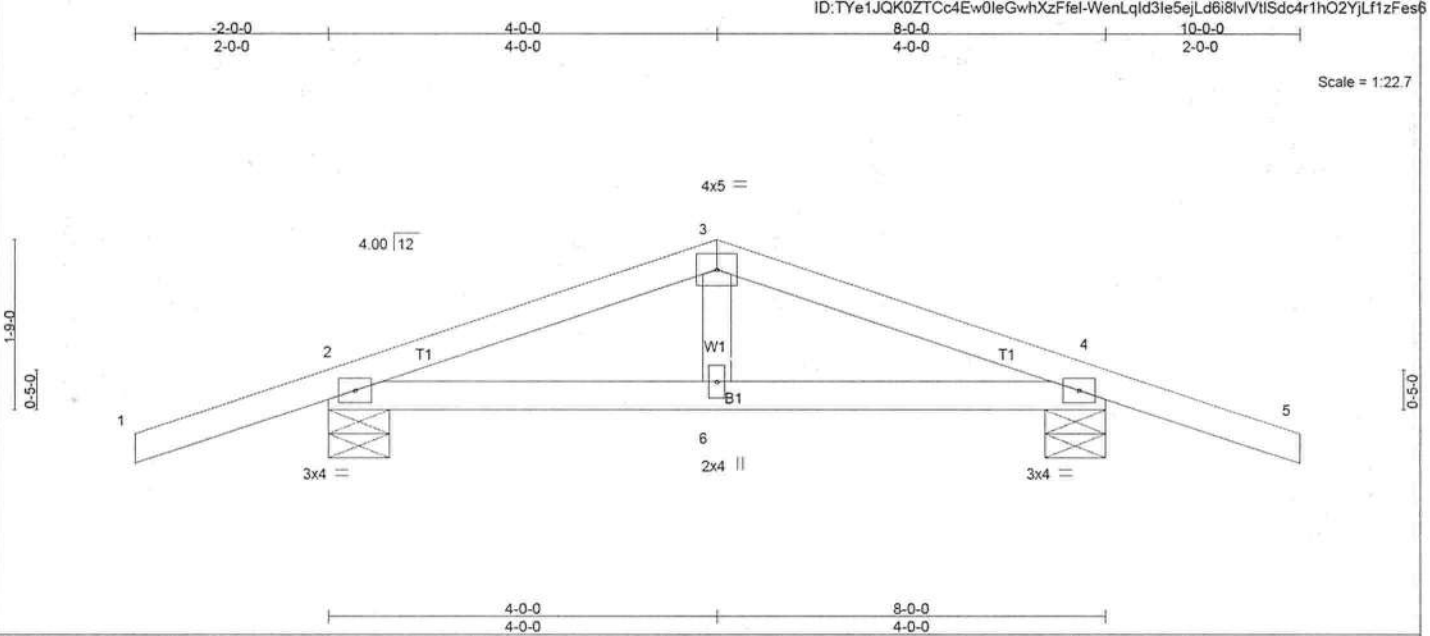
May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	T10	COMMON	2	1	Job Reference (optional)	I4741389

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:39:03 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0leGwhXzFfeI-WenLqId3le5ejLd6i8lvlVtlSdc4r1hO2YjLf1zFes6



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)	-0.01	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.02	2-6	>999	240	Weight: 33 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-1 oc bracing.

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

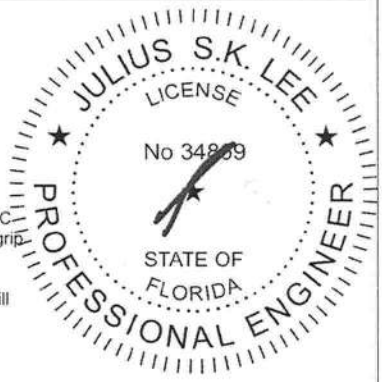
REACTIONS (lb/size) 2=361/0-7-8, 4=361/0-7-8
Max Horz 2=-46(LC 7)
Max Uplift2=-335(LC 4), 4=-335(LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-270/589, 3-4=-270/589
BOT CHORD 2-6=-417/208, 4-6=-417/208

NOTES (8-9)

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=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 2 and 335 lb uplift at joint 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



May 17,2011

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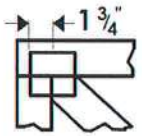
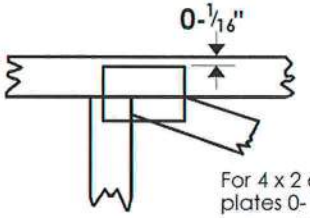
Boynton, FL 33435

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0-1/16" from outside edge of truss.

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

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

PLATE SIZE

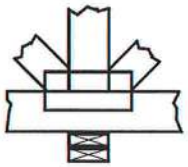
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

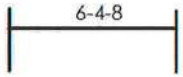


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

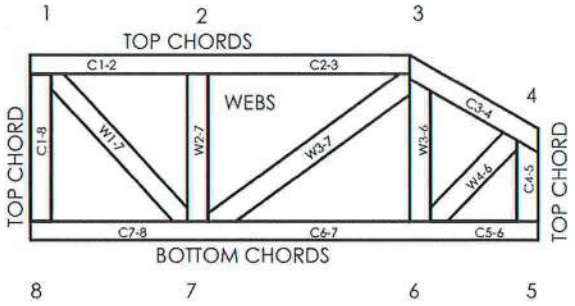
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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Boynton, FL 33435

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

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

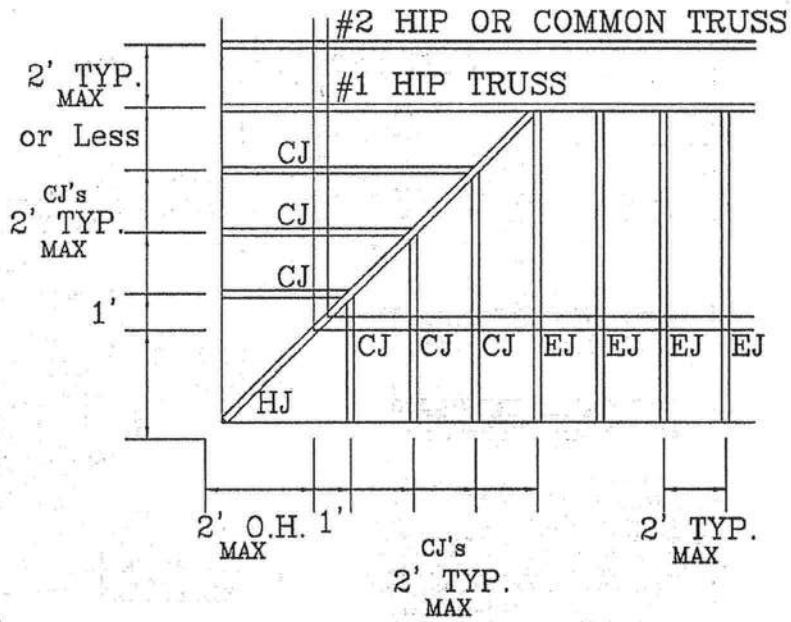
120 MPH MAX

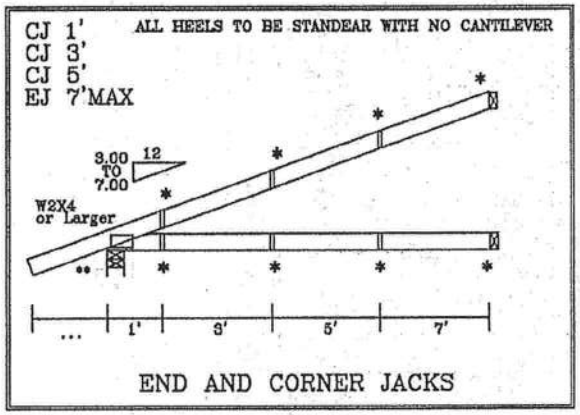
Setback 7' or Less

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)

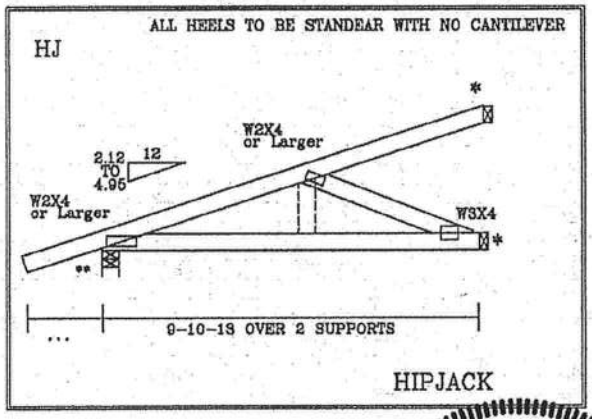
PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED. TILE
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 15.0 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)

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 (V,H/S/K) ASTM A653 GRADE 40/60 (V,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 (D 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 33444-2181

NO. 54869
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: 110 – 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE B,C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1)1X4 "L","T" BRACE*		(1)2X4 "L","T" BRACE*		(2)2X4 "L","T" BRACE**		(1)2X6 "L","T" BRACE*		(2)2X6 "L","T" 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"	5' 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' 6"	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' 8"
		STUD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 6"
		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' 8"	4' 8"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"
		STUD	3' 9"	5' 5"	5' 6"	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' 6"	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' 5"	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

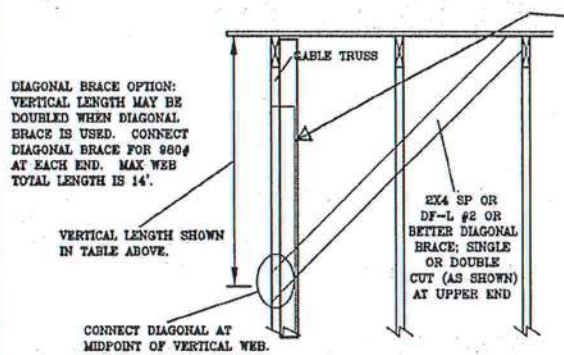
DOUGLAS FIR-LARCH
#3
STUD
STANDARD

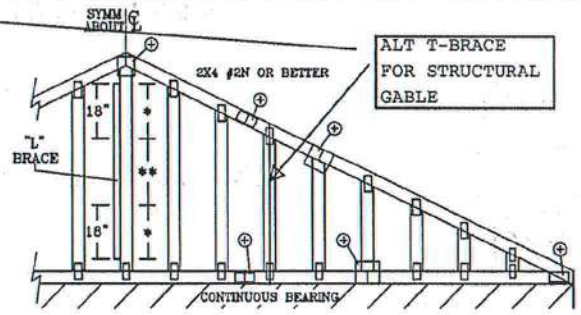
SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

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





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

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

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

"L"or"T" BRACING MUST BE A MINIMUM OF 60% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0"	2X4

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

12/4/8

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.

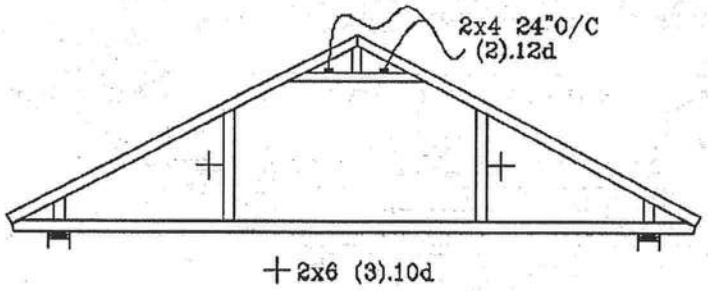
IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (V,H/S/C) ASTM A653 GRADE 40/60 (V,X/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 (D 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'S CONS. ENGINEERS P.A.
1109 COASTAL BAY BLVD.
BOYNTON BEACH, FL 33435
No: 34869
STATE OF FLORIDA

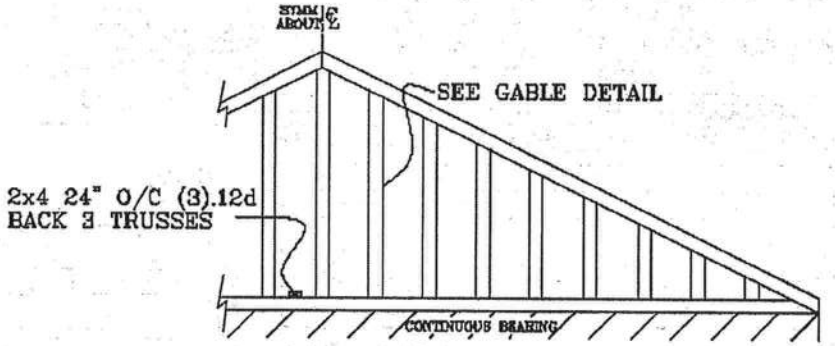
MAX LOADING	
55 PSF AT 1.25 DUR. FAC.	
50 PSF AT 1.25 DUR. FAC.	
42 PSF AT 1.25 DUR. FAC.	
MAX. SPACING	24.0"

REF	ASCE7-98-GAB13030
DATE	DEC./04/2008
DRWG	
-ENG	

TYPICAL ATTIC TRUSS BRACING

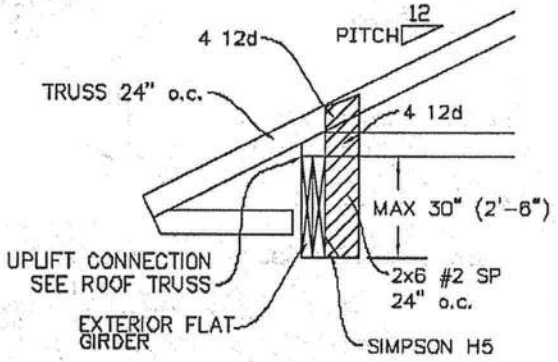


GABLE END TRUSS DETAIL



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

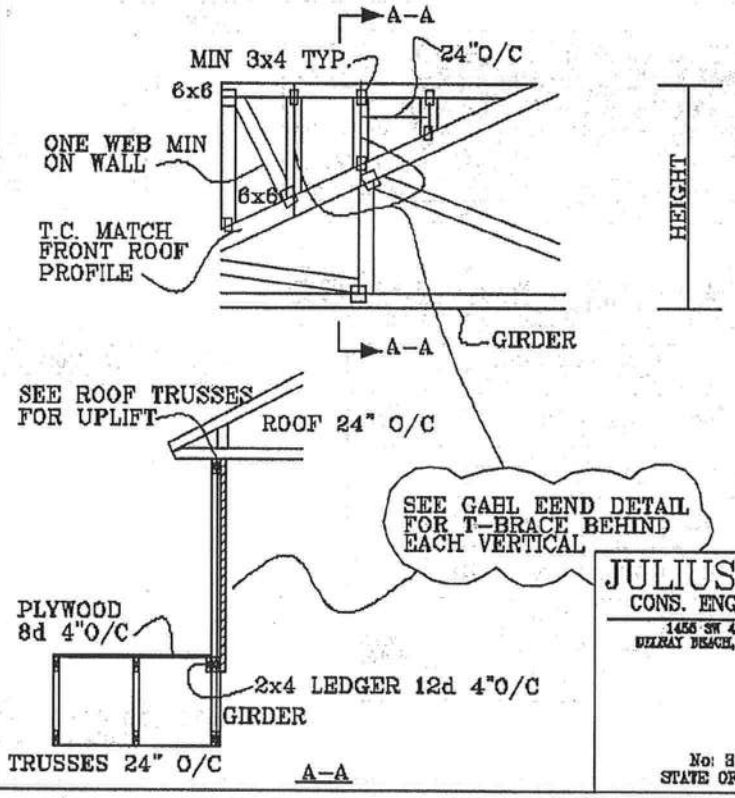
TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



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

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

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

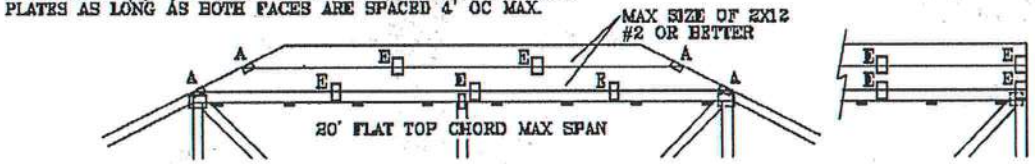
110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

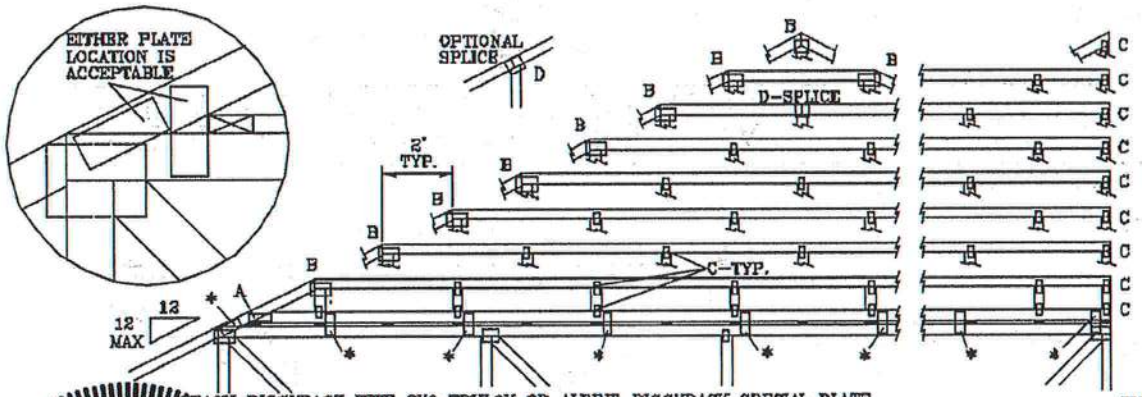
FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4" OC MAX.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X6
B	4X6	5X8	5X8	5X8
C	1.5X3	1.6X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X8 OR 3X8 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.



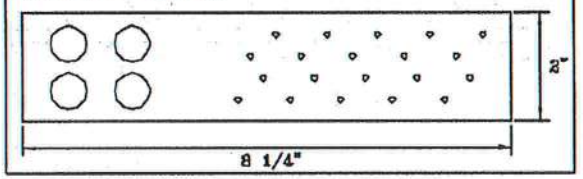
WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'8"	NO BRACING
7'8" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER.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



ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

* 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 & 647,045

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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.
1466 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

VALLEY TRUSS DETAIL

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

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

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

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

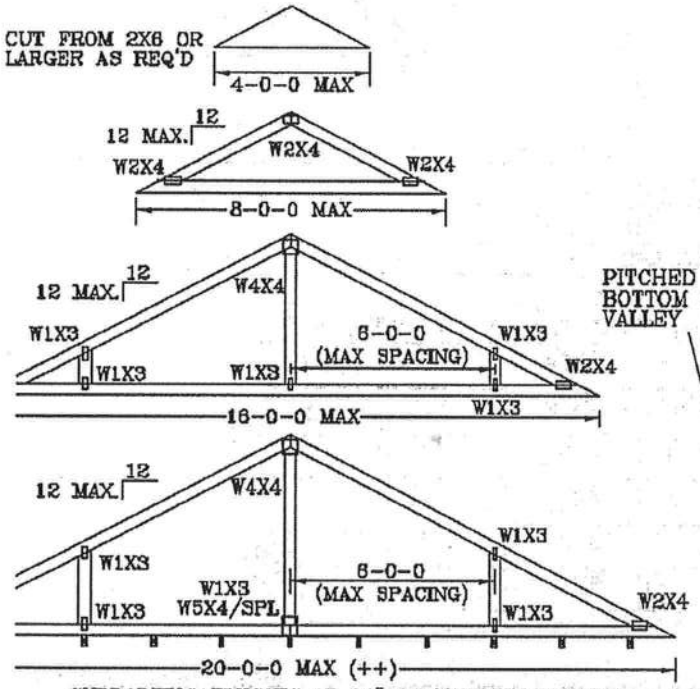
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

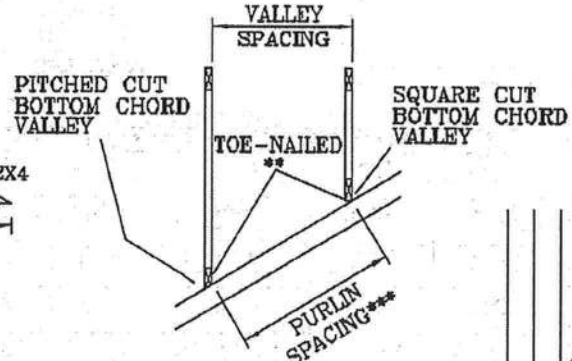
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

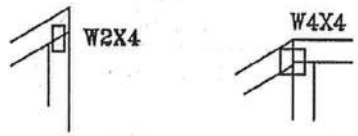
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

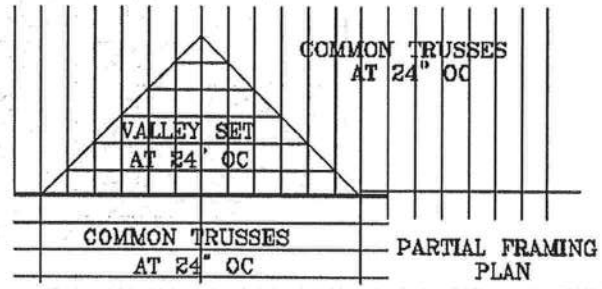
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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

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."

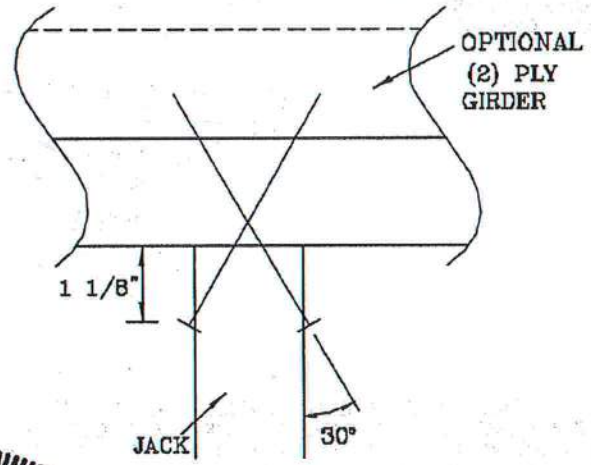
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

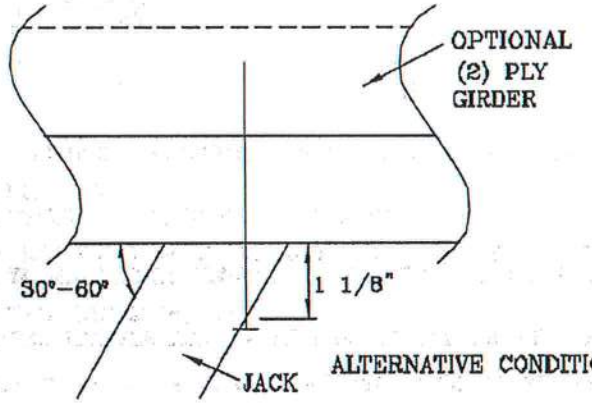
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

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

"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.
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			

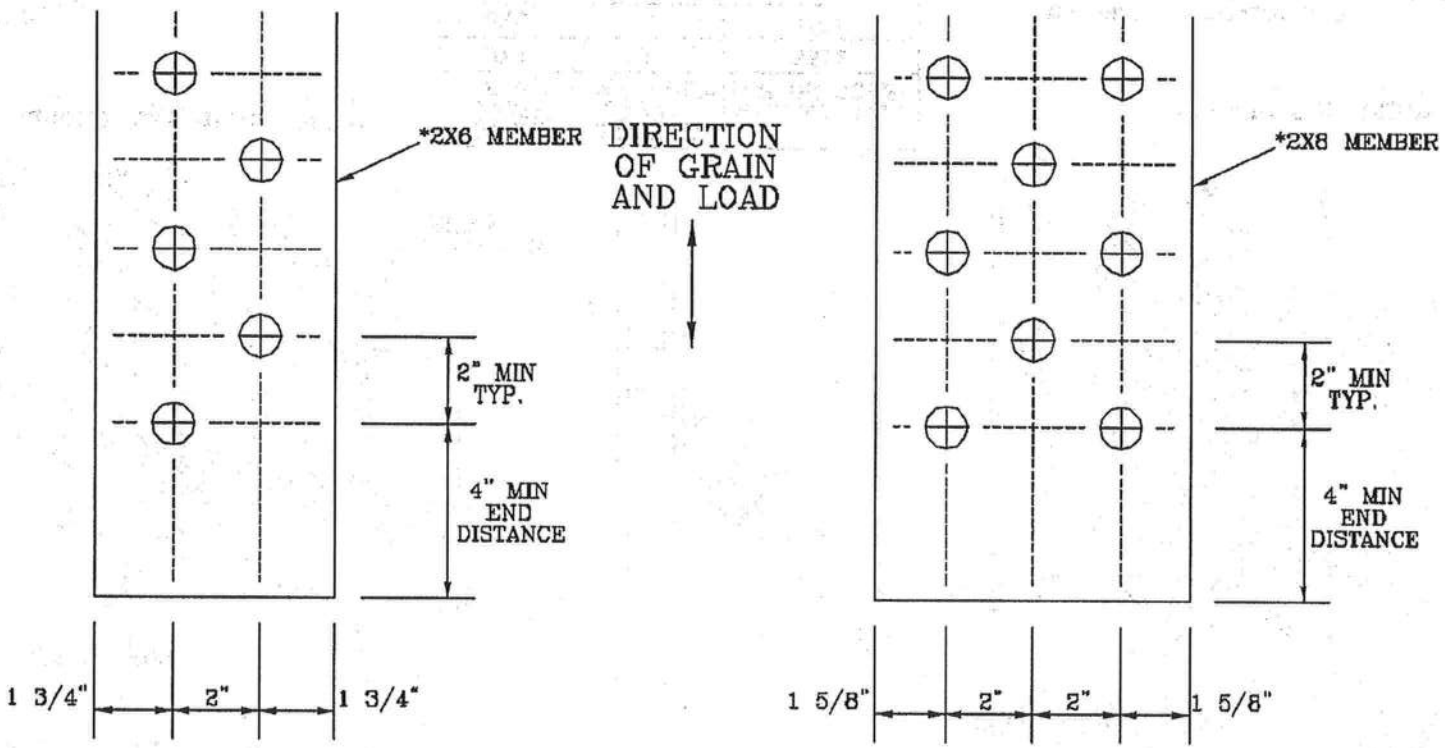
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

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

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628,016

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 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, 2009

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

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF BOLT SPACING
TC DL	PSF	DATE 11/26/09
BC DL	PSF	DRWG CNBOLTSP1103
BC LL	PSF	-ENG JL
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

TRULOX CONNECTION DETAIL

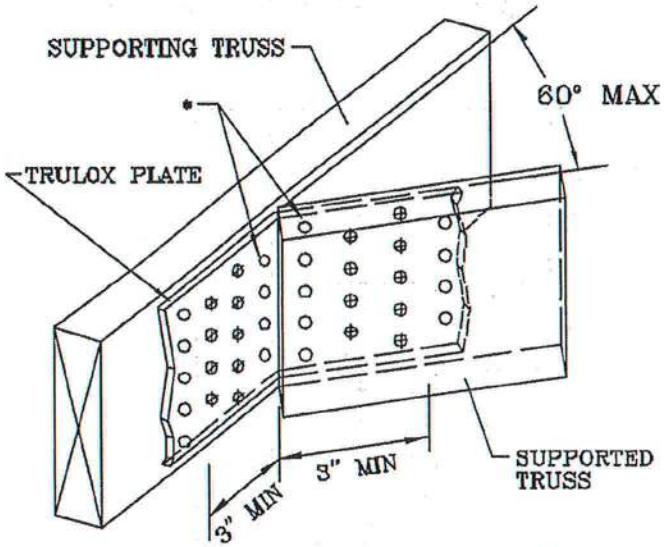
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

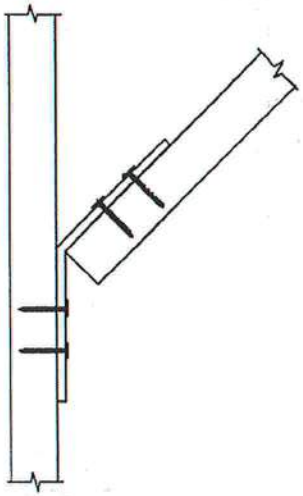
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

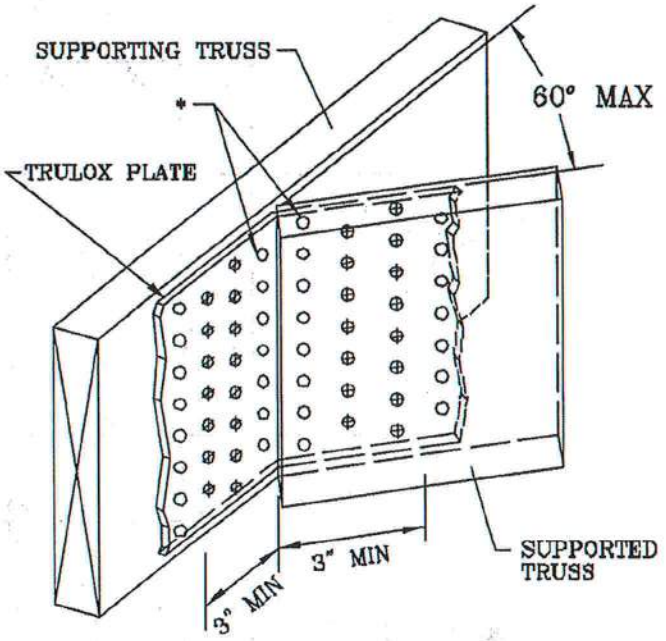
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

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#

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

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.

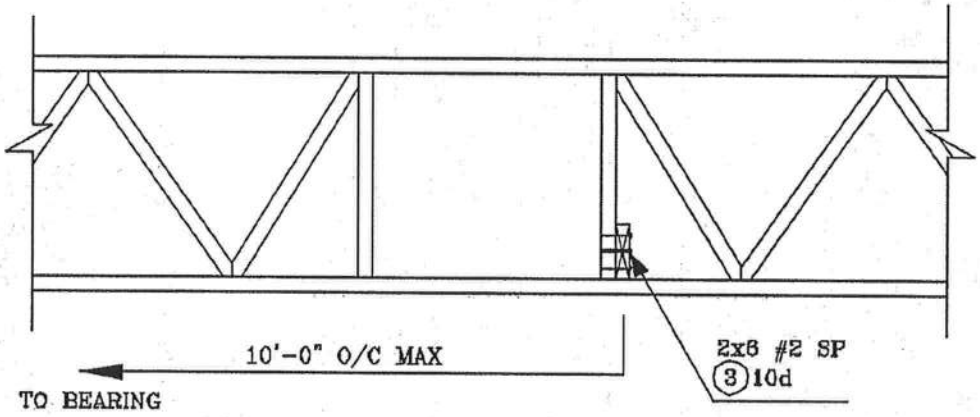
REVIEWED
By julius lee at 11:58 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-3061

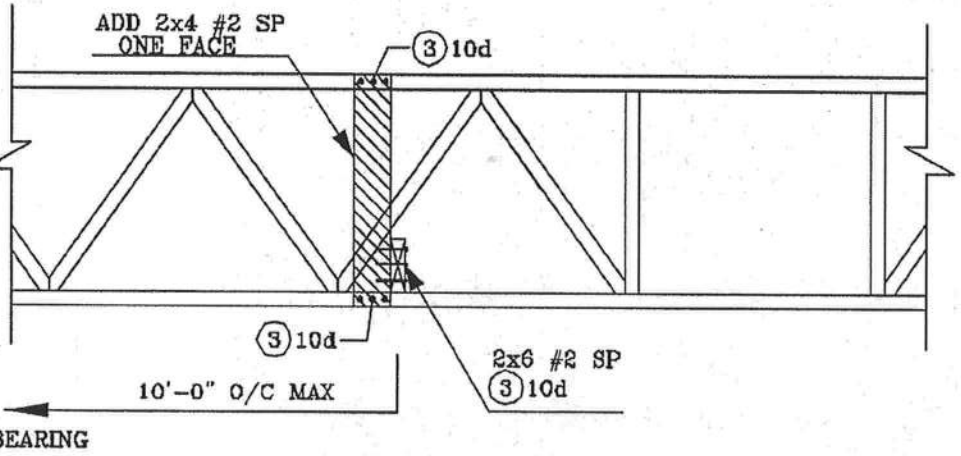
No: 34869
STATE OF FLORIDA

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

STRONG BACK DETAIL
SYSTEM–42 OR FLAT TRUSS



ALTERNATE DETAIL FOR
STRONG BACK WITH VERTICAL
NOT LINING UP



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

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Uniform Load—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][3]	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"[3]	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[3]	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***
3¼" TrussLok[3]	2	24"	635	***475***	475	***425***		
		19.2"	795	***595***	595	***530***		
		16"	955	***715***	715	***635***		
5" TrussLok[3]	2	24"		500	500	***445***	***480***	***445***
		19.2"		625	625	***555***	***600***	***555***
		16"		750	750	***665***	***725***	***665***
6¾" TrussLok[3]	2	24"				445	620	445
		19.2"				555	770	555
		16"				665	925	665

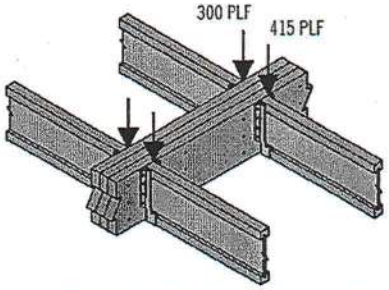
(1) Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

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

(3) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

(4) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

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).

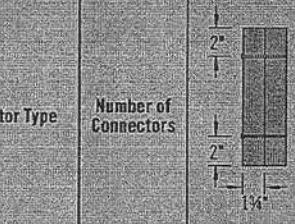
Alternatives:
Two rows of ½" bolts or ¼" x 3½" SDS screws at 19.2" on-center.

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.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

Connector Type	Number of Connectors	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	6	1,110	*835*	835	*740*		
	12	2,225	*1,670*	1,670	*1,485*		
	18	3,335	*2,505*	2,505	*2,225*		
	24	4,450	*3,335*	3,335	*2,965*		
SDS Screws ¼" x 3½" or WS35 ¼" x 6" or WS6[1]	4	1,915	1,435[2]	1,435	*1,275*	*1,860*[3]	*1,405*[3]
	6	2,870	2,150[2]	2,150	*1,915*	*2,785*[3]	*2,110*[3]
	8	3,825	2,870[2]	2,870	*2,550*	*3,715*[3]	*2,810*[3]
3⅜" or 5" TrussLok™	4	2,545	1,910[2]	1,910	*1,695*	*1,925*[4]	*1,775*[4]
	6	3,815	2,860[2]	2,860	*2,545*	*2,890*[4]	*2,665*[4]
	8	5,090	3,815[2]	3,815	*3,390*	*3,855*[4]	*3,550*[4]

(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

See General Notes on page 38

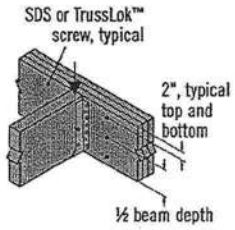
(2) 3½" and 3⅜" long screws must be installed on both sides.

(3) 6" long screws required.

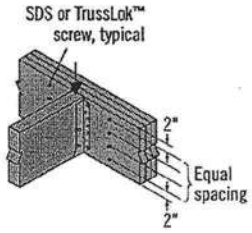
(4) 5" long screws required.

Point Load Connections

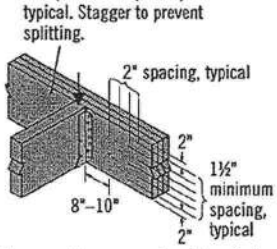
4- or 6-Screw Connection



8-Screw Connection

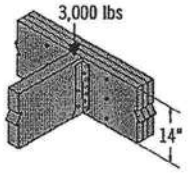


Nail Connection



There must be an equal number of nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply, 1¾" x 14" beam can support the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply, 1¾" assembly, eight 3⅜" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

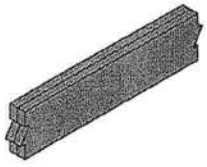
MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1¾"-Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for 14" or deeper.
- If using 12d–16d (0.148"–0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, WS, or TrussLok™ screws at 16" on-center. Use 3⅜" minimum length with two or three plies; 5" minimum for 4-ply members. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. For 3- or 4-ply members, connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

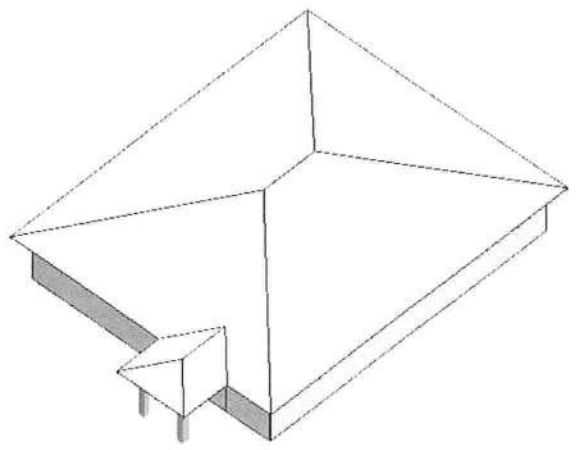
3½"-Wide Pieces

- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Minimum of two rows of ½" bolts at 24" on-center staggered.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

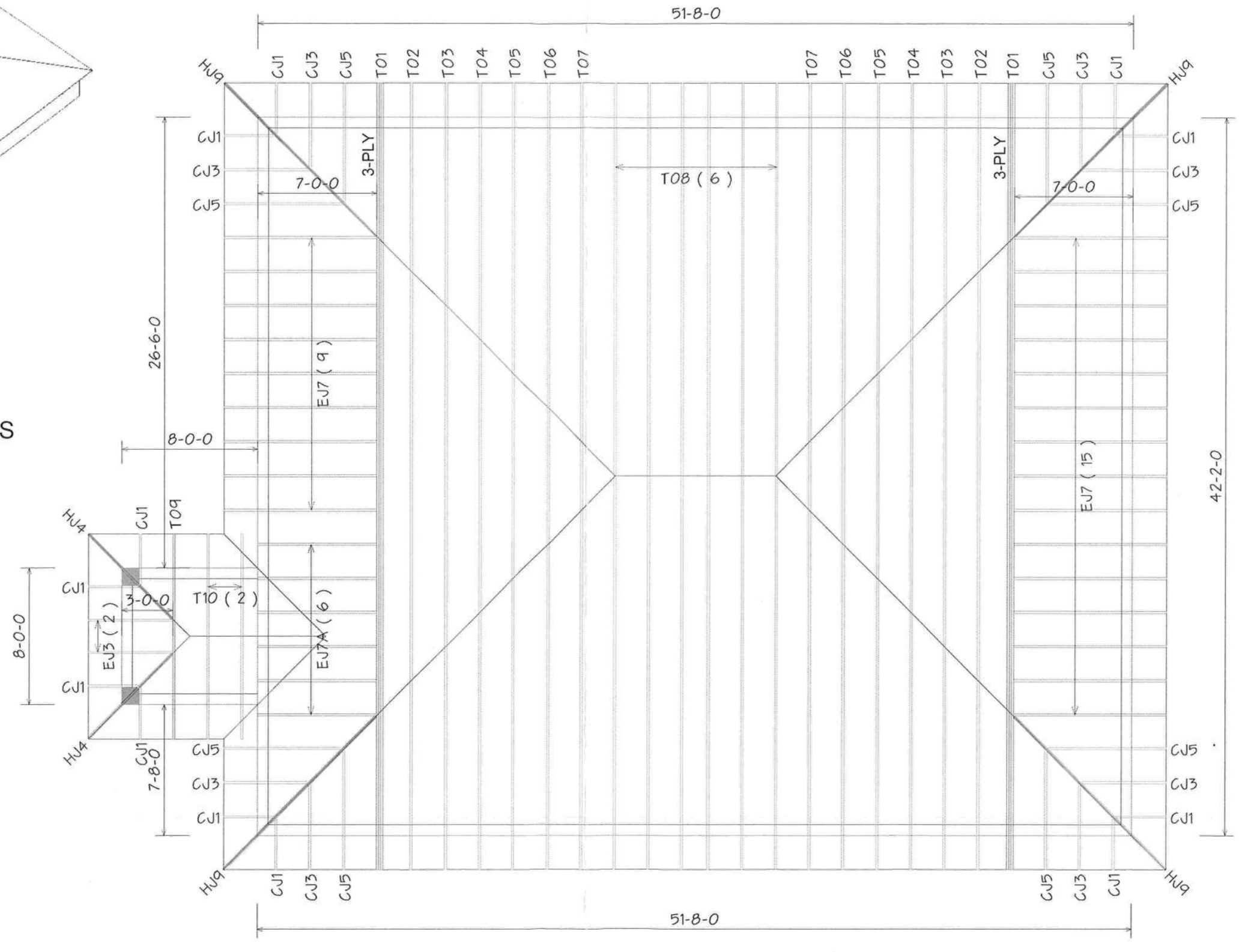


L6 *Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"*

4/12 PITCH - 24" 0/H



ALL FLAT CEILINGS



BEARING HEIGHT SCHEDULE

8'-0"

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 PLACEMENT 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: 407-322-5593

BUILDER: BLAKE CONST.

LEGAL ADDRESS: FAMILY HEALTH DENTAL

MODEL: CUSTOM | REVISION: | SCALE: NTS

DATE: 5-17-11 | DRAWN BY: K.L.H. | JOB #: 373452

Florida Energy Efficiency Code For Building Construction

Florida Department of Community Affairs

EnergyGauge Summit® Fla/Com-2008, Effective: March 1, 2009 -- Form 400A-2008

Method A: Whole Building Performance Method for Commercial Buildings

PROJECT SUMMARY

Short Desc:	1104014	**Description:**	Blake Const. Family Health (
Owner:			
Address1:	NW Albritton Ln.	**City:**	Lake City
Address2:		**State:**	Florida
		Zip:	0
Type:	Healthcare-Clinic	**Class:**	New Finished building
Jurisdiction:	COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)		
Conditioned Area:	2178 SF	**Conditioned & UnConditioned Area:**	2178 SF
No of Stories:	1	**Area entered from Plans**	2178 SF
Permit No:	0	**Max Tonnage**	12.5
		If different, write in:	_____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	1,715.0	1,739.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**None Entered**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**None Entered**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT MESSAGE
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

CERTIFICATIONS

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

Prepared By: Mark Disosway P.E. Building Official: _____

Date: 06 JUN 11 Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: _____ Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the FLorida Energy Efficiency Code

Architect: _____ Reg No: _____

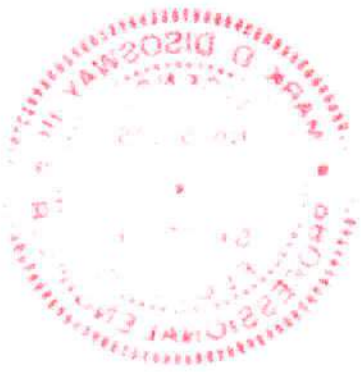
Electrical Designer: _____ Reg No: _____

Lighting Designer: _____ Reg No: _____

Mechanical Designer: _____ Reg No: _____

Plumbing Designer: _____ Reg No: _____

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.



Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	*109.60*	*129.50*
	$1,715	*$2,046*
ELECTRICITY(MBtu/kWh/$)	109.60	129.50
	32113	37962
	$1,715	*$2,046*
AREA LIGHTS	41.30	32.70
	12090	9581
	$646	*$516*
MISC EQUIPMT	24.10	24.10
	7068	7068
	$377	*$381*
PUMPS & MISC	0.10	0.10
	37	38
	$2	*$2*
SPACE COOL	28.10	36.10
	8240	10584
	$440	*$570*
SPACE HEAT	1.60	5.30
	455	1539
	$24	*$83*
VENT FANS	14.40	31.20
	4223	9152
	$226	*$493*

Passing requires Proposed Building cost to be at most 85% of Baseline cost. This Proposed Building is at 83.8%

PASSES

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2	Building facades (by linear foot)	No	5.00	204.0	1,020	800
Ext Light 3	Canopies (freestanding, attached and Overhangs)	Yes	1.25	64.0	80	100

Tradable Surfaces: 100 (W) Allowance for Tradable: 135 (W) **PASSES**
All External Lighting: 900 (W)
Complicance check includes a 5% excess allowance of 55.00(W)

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
Treatment	10,004	Exam/Treatment (Hospital)	882	1	1	**PASSES**
Reception	12	Lobby (General) - Reception and Waiting	531	2	1	**PASSES**
RR#1	6	Toilet and Washroom	63	1	1	**PASSES**
Consult	15	Conference/meeting (Multiple Functions)	80	1	1	**PASSES**
Ster x-ray	10,007	Operating Room (Hospital)	220	2	1	**PASSES**
Mech	1	Electrical Mechanical Equipment Room - General	66	1	1	**PASSES**
RR #2	6	Toilet and Washroom	64	1	1	**PASSES**
Lounge	9	Food Service - Bar/Lounge	146	1	1	**PASSES**
Office	17	Office - Enclosed	126	1	1	**PASSES**

PASSES

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

Pr0Sy2 **System 2** **Constant Volume Packaged System** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity		13.00	9.30	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity		7.80	3.10			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.50	0.90			PASSES
Air Distribution System	ADS System		6.00	6.00			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp liance

None

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Comp liance
Water Heater 1	Electric water heater	<= 12 [kW]	0.94	0.86			PASSES

PASSES

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
None							

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	13-101	Input Report Print-Out from EnergyGauge FlaCom attached	☐
Operations Manual	13-102.1, 13-410, 13-413	Operations manual provided to owner	☐
Windows & Doors	13-406.AB.1.1	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft²; all other products: 0.4 cfm/ft²	☐
Joints/Cracks	13-406.AB.1.2	To be caulked, gasketed, weather-stripped or otherwise sealed	☐
Dropped Ceiling Cavity	13-406.AB.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	☐
System	13-407	HVAC Load sizing has been performed	☐
Reheat	13-407.B	Electric resistance reheat prohibited	☐
HVAC Efficiency	13-407, 13-408	Minimum efficiences: Cooling Tables 13-407.AB.3.2.1A-D; Heating Tables 13-407.AB.3.2.1B, 13-407.AB.3.2.1D, 13-408.AB.3.2.1E, 13-408.AB.3.2F	☐
HVAC Controls	13-407.AB.2	Zone controls prevent reheat (exceptions); simultaneous heating and cooling in each zone; combined HAC deadband of at least 5°F (exceptions)	☐
Ventilation Controls	13-409.AB.3	Motorized dampers reqd, except gravity dampers OK in: 1) exhaust systems and 2) systems with design outside air intake or exhaust capacity ≤300 cfm	☐
ADS	13-410	Duct sizing and Design have been performed	☐
HVAC Ducts	13-410.AB	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Sec. 13-410 Air Distribution Systems	☐
Balancing	13-410.AB.4	HVAC distribution system(s) tested & balanced. Report in construction documents	☐
Piping Insulation	13-411.AB	In accordance with Table 13-411.AB.2	☐
Water Heaters	13-412.AB	Performance requirements in accordance with Table 13-412.AB.3. Heat trap required	☐
Swimming Pools	13-412.AB.2.6	Cover on heated swimming pools: Time switch (exceptions); Readily accessible on/off switch	☐
Hot Water Pipe Insulation	13-411.AB.3	Table 13-411.AB.2 for circulating systems, first 8 feet of outlet pipe from storage tank and between inlet pipe and heat trap	☐
Water Fixtures	13-412.AB.2.5	Shower hot water flow restricted to 2.5 gpm at 80 psi. Public lavatory fixture how water flow 0.5 gpm max; if self-closing valve 0.25 gallon recirculating, 0.5 gallon non recirculating	☐
Motors	13-414	Motor efficiency criteria have been met	☐
Lighting Controls	13-415.AB	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandom wiring with 1 or 3 linear fluuorescent lamps>30W	☐

EnergyGauge Summit® v3.22

INPUT DATA REPORT

Project Information

Project Name: 1104014

Project Title: Blake Const. Family Health Center Dentist Office

Address: NW Albritton Ln.

State: Florida

Zip: 0

Owner:

Orientation: West

Building Type: Healthcare-Clinic

Building Classification: New Finished building

No.of Stories: 1

GrossArea: 2178 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	DentOff	Total Dentist Office	CONDITIONED	2177.8	1	2177.8	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]

In Zone:	**DentOff**									
1	Treatment	All Treatment Rooms and walkway	Exam/Treatment (Hospital)	17.10	51.55	8.00	1	881.5	7052.0	☐
2	Reception	Reception office	Lobby (General) - Reception and Waiting	25.00	21.24	8.00	1	531.0	4248.0	☐
3	RR#1	RESTROOM ON MAIN HALLWAY	Toilet and Washroom	7.00	9.00	8.00	1	63.0	504.0	☐
4	Consult	Consultation Office	Conference/meeting (Multiple Functions)	8.00	10.00	8.00	1	80.0	640.0	☐
5	Ster x-ray	Sterilization, x-ray, closet	Operating Room (Hospital)	15.20	14.50	8.00	1	220.4	1763.2	☐
6	Mech	Mechanical Room	Electrical Mechanical Equipment Room - General	6.30	10.50	8.00	1	66.2	529.2	☐
7	RR #2	RESTROOM ON BACK HALLWAY	Toilet and Washroom	8.50	7.50	8.00	1	63.8	510.0	☐
8	Lounge	Staff Lounge	Food Service - Bar/Lounge	10.00	14.60	8.00	1	146.0	1168.0	☐
9	Office	Private Office	Office - Enclosed	10.00	12.60	8.00	1	126.0	1008.0	☐

Lighting

	No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone:	**DentOff**								
In Space:	**Treatment**								
	1	Recessed Fluorescent - No vent	Lighting for medical procedures/equipment	10	160	1600	Manual On/Off	2	☐
	2	Recessed Fluorescent - No vent	General Lighting	4	160	640	Manual On/Off	1	☐
	3	Compact Fluorescent	Lighting for medical procedures/equipment	5	23	115	Manual On/Off	1	☐
In Space:	**Reception**								
	1	Recessed Fluorescent - No vent	General Lighting	9	160	1440	Manual On/Off	1	☐
	2	Recessed Fluorescent - No vent	General Lighting	6	18	108	Manual On/Off	1	☐
In Space:	**RR#1**								
	1	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐

In Space:	**Consult**							
1	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐
In Space:	**Ster x-ray**							
1	Recessed Fluorescent - No vent	General Lighting	2	160	320	Manual On/Off	1	☐
2	Recessed Fluorescent - No vent	Lighting for medical procedures/equipment	1	160	160	Manual On/Off	1	☐
3	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐
In Space:	**Mech**							
1	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐
In Space:	**RR #2**							
1	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐
In Space:	**Lounge**							
1	Recessed Fluorescent - No vent	General Lighting	2	160	320	Manual On/Off	1	☐
In Space:	**Office**							
1	Recessed Fluorescent - No vent	General Lighting	2	160	320	Manual On/Off	1	☐

Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	**DentOff**											
1	Front Wall	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	42.17	8.00	1	337.4	West	0.2642	9.696	62.72	3.8	☐
2	Left Wall	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	51.70	8.00	1	413.6	North	0.2642	9.696	62.72	3.8	☐
3	Rear Wall	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	42.20	8.00	1	337.6	East	0.2642	9.696	62.72	3.8	☐
4	Right Wall	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	51.80	8.00	1	414.4	South	0.2642	9.696	62.72	3.8	☐

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
In Zone: DentOff											
In Wall: Front											
1	4010 at left side of elevation	User Defined	Yes	0.6000	0.59	0.64	4.00	1.00	1	4.0	☐
2	4010 at right side of elevation	User Defined	Yes	0.6000	0.59	0.64	4.00	1.00	1	4.0	☐
3	3070 entry door into rec. area	User Defined	Yes	0.6000	0.59	0.64	3.00	7.00	1	21.0	☐
In Wall: Left											
1	5010 typical of 5	User Defined	Yes	0.6000	0.59	0.64	5.00	1.00	5	25.0	☐
In Wall: Right											
1	6010 Tansoms typical of all 4	User Defined	Yes	0.6000	0.59	0.64	6.00	1.00	4	24.0	☐

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]	
In Zone: DentOff												
In Wall: Front												
1	3070 door to hall\	Hollow core flush	Yes	3.00	7.00	1	21.0	0.7827	0.00	0.00	1.28	☐
In Wall: Rear												
1	3070 door into ha	Hollow core flush	Yes	3.00	7.00	2	21.0	0.7553	0.00	0.00	1.32	☐

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone: DentOff											

1	Total Building Roof	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	51.61	42.20	1	2177.9	0.00	0.0320	1.50	8.22	31.2

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]

In Zone:
In Roof:

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone:	**DentOff**									
1	Total Floor	1 ft. soil, concrete floor, carpet and rubber pad	51.61	42.20	1	2177.9	0.2681	34.00	113.33	3.73

Systems

Pr0Sy2 **System 2** **Constant Volume Packaged System** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV
1	Cooling System	150000.00	13.00	8.00
2	Heating System	150000.00	7.80	
3	Air Handling System -Supply	1500.00	0.50	
4	Air Distribution System		6.00	

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV

Water Heaters

	W-Heater Description	Capacity	Cap.Unit	I/P Rt.	Efficiency		Loss	
1	Electric water heater	50	[Gal]	[kW]	0.9400	[Ef]	[Btu/h]	

Ext-Lighting

	Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]	
1	Ext Light 2	Building facades (by linear foot)	8	100	204.00	Photo Sensor control	800.00	
2	Ext Light 3	Canopies (freestanding, attached and Overhangs)	1	100	64.00	Photo Sensor control	100.00	

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	
ASHULDblClrWd-Vy-Fg frm	User Defined	2	0.6000	0.5900	0.6400	☐

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐
265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	☐
48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	☐
105	Matl105	CONC BLK HW, 8IN, HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	☐
269	Matl269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	☐
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	☐
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500					☐
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1014	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	No	No	0.26	9.70	62.72	3.8	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	105	CONC BLK HW, 8IN, HOLLOW	0.6667	0.000	☐
2	269	.75" ISO BTWN24" oc	0.0625	0.000	☐
3	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1022	Hollow core flush	No	Yes	0.78			1.3	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	273	Hollow core flush (1.375")		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1025	Hollow core flush	No	Yes	0.76			1.3	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	276	Hollow core flush (1.75")		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1038	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	No	No	0.03	1.50	8.22	31.2	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	81	ASPHALT-ROOFING, ROLL		0.000	☐
2	244	PLYWOOD, 1/2IN	0.0417	0.000	☐
3	12	3 in. Insulation	0.2500	0.000	☐
4	23	6 in. Insulation	0.5000	0.000	☐
5	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1057	1 ft. soil, concrete floor, carpet and rubber pad	No	No	0.27	34.00	113.33	3.7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	265	Soil, 1 ft	1.0000	0.000	☐
2	48	6 in. Heavyweight concrete	0.5000	0.000	☐
3	178	CARPET W/RUBBER PAD		0.000	☐

FORM N-1 Commercial Load Calculations

Building/Room Business

Name Family Health Center of Columbia County
Address Lake City, Florida, Columbia County

Contractor Blake Construction

1. Cooling Design Condiltions

				Correction
Latitude	29			
Time	3:00pm	Daily Range	18	-1
Inside db (F)	75	Inside %RH	60	
Outside db (F)	93	Outside %RH	77	
Outside db @3pm	93	Time Correct.	0	
Grains (50%)	51	T.D. =	18	-2

2. Solar Radiation Heat Gain Through Glass

	Exposure	Sq. Ft.	Solar Factor	Shading Factor	Cooling Load Sensible	Cooling Load Latent
Clear, 2pane	N	0	30	0.81	0	
Light. wt. bldg.	E	25	64	0.81	1296	
	S	29	65	0.81	1527	
	W	24	99	0.81	1925	

3. Transmission Gains

Glass	ETD	Exposure	Sq. Ft.	U Factor	db dT or Equiv.		
Clear, 2pane		All	78	0.65	18	913	
Walls	D	N	338	0.122	15	619	
Stucco, R13	D	E	414	0.122	23	1162	
	D	S	338	0.122	36	1484	
	D	W	414	0.122	17	859	
Doors	use t.d.	All	63	0.56	18	635	
Steel							
Roof/Ceiling	R4	All	2178	0.04	68	5924	
Shingles, 7/16"OSB, R19							

4. Internal Heat Gain

a. Occupants		Number	Sensible	Latent		
		22	315	325	6930	7150
b. Lights & Others			Watts			
	Incandescent Lights		0	3.4	0	
	Fluorescent Lights		5823	4.1	23874	
	Name	Sensible	Latent	Usage Factor		
Appliances	All	17000	1500	1		

5. Infiltration

		ft3/min	db dT	dGrains		
	Doors	640	18	51	12672	22195
Neutral, avg.	Bldg.	175	18	51	3465	6069
6. Subtotal Cooling Load from Space					58536	35414

7. Supply Duct Heat Gain

Gain Factor	Line 6 Sensible Gain		
0.03	58536		1756
8. Room, Zone, or Block Design Load		Lines 6+7	60293 35414

Supply dT 19 Line 8 Sens. 60293 Cooling cfm = 2885

9. Ventilation	cfm/occupant	ft3/min	db dT	dGrains		
Non Smoking	25	550	18	51	10890	19074

10. Return Air Load From Lighting And Roof

11. Return Duct Heat Gain

Line 6 Sensible Gain	Gain Factor		
58536	0.00	0	
12. Total Cooling Loads on Equipment (Btuh)	**10.5**	**71183**	**54488**

13. Heating Design Conditions

Inside db = 75 Outside db= 31 dT= 44

14. Transmission Losses

Glass	ETD	Exposure	ft2	U Factor	db dT	Heating Load
Clear, 2pane		All	78	0.62	44	2128
Walls	D	N	338	0.122	44	1814
Stucco, R13	D	E	414	0.122	44	2222
	D	S	338	0.122	44	1814
	D	W	414	0.122	44	2222
Doors	use t.d.	All	63	0.56	44	1552
Steel						
Roof/Ceiling	R4	All	2178	0.04	44	3833
Shingles, 7/16"OSB, R19						

15. Infiltration

		ft3/min	db dT	
door	Doors	1100	44	53240
Neutral, avg.	Bldg.	292	44	14133

16. Sub Total Heating Load for Space 68827

17. Supply Duct Heat Loss

Loss Factor	Line 16 Sensible	
0.05	68827	3441

18. Ventilation

ft3/min	db dT	
550	44	26620

19. Humidification 150

20. Return Duct Heat Loss

Loss Factor	Line 16 Sensible	
0.00	68827	0

21. Total Heating Load on Equipment (Btuh) 6.0 72418

[redacted]

P 0743 PG 675

COLUMBIA COUNTY DEED

OFFICIAL RECORDS

THIS DEED, made this 21st day of February, 1991, by COLUMBIA COUNTY, FLORIDA, party of the first part, and FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC., party of the second part,

W I T N E S S E T H, that the said party of the first part, for and in consideration of the sum of ONE AND NO/100 ($1.00) DOLLARS to it in hand paid by the party of the second part, receipt whereof is hereby acknowledged, has granted, bargained and sold to the party of the second part, his heirs and assigns forever, the following described land lying and being in Columbia County, Florida:

ALL OF BLOCKS A AND B, and ALL OF BELMONT AVENUE SOUTH OF COLUMBIA AVENUE, all being in S.G. ALBRITTON'S REPLAT OF [illegible], a subdivision according to Plat thereof recorded in Plat Book 3, Page 80, Public Records, Columbia County, Florida.

IN WITNESS WHEREOF, the said party of the first part has caused these presents to be executed in its name by its Board of County Commissioners acting by the Chairman or Vice Chairman of said board, the day and year aforesaid.

COLUMBIA COUNTY, FLORIDA
BY ITS BOARD OF COUNTY COMMISSIONERS

BY: [signature]
RONALD WILLIAMS, CHAIRMAN

ATTEST: [signature]
P. DEWITT CASON,
CLERK OF COURT

(SEAL)

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

81 03730

[illegible]

COLUMBIA COUNTY, FLORIDA
RESOLUTION NO. 91-5

BK 0749 PG0676

OFFICIAL RECORDS

RESOLUTION CERTIFYING APPLICATION BEING MADE BY THE FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC. FOR TITLE TO REAL PROPERTY OWNED BY COLUMBIA COUNTY TO BE USED FOR THE HEALTH CARE OF CITIZENS AND RESIDENTS OF COLUMBIA COUNTY, FLORIDA

WHEREAS, FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC. ("Center"), has applied to the Board of County Commissioners, Columbia County, Florida for title to certain real properties located in Columbia County, Florida as more particularly described herein; and

WHEREAS, the Center has stipulated the property will be used in providing health care services for the residents and citizens of Columbia County, Florida, and that the Center will at its expense make substantial improvements to the property; and

WHEREAS, title shall be transferred from the County to the Center for the nominal consideration of $1.00 as the property will be used exclusively for the welfare and interest of the residents and citizens of Columbia County, Florida.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Columbia County, Florida that title to the following described property located in Columbia County, Florida shall be transferred and conveyed by statutory deed form to FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC., to wit:

OR 0743 PG0677

OFFICIAL RECORDS

ALL OF BLOCKS F AND G, and ALL OF [illegible] AVENUE NORTH OF COLUMBIA AVENUE, all being in [illegible]. ALBRITTON'S REPLAT OF SPRINGFIELD, a subdivision according to Plat thereof recorded in Plat Book 3, Page 30, Public Records, Columbia County, Florida.

BE IT FURTHER RESOLVED that the Chairman of the Board of County Commissioners is authorized to execute said statutory form deed and all other necessary documents to consummate the proper transfer of title to the property to the Center.

DATED this 21st day of February, 1992 at Lake City, Columbia County, Florida.

BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY, FLORIDA

BY: [signature]
RONALD WILLIAMS, CHAIRMAN

ATTEST: [signature]
P. DEWITT CASON,
CLERK OF COURT

(SEAL)

Family Health Center Dental Clinic

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST REQUIRMENTS

MINIMUM PLAN REQUIREMENTS FOR THE FLORIDA BUILDING CODE RESIDENTIAL 2007 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007 FLORIDA BUILDING CODES RESIDENTIAL. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind speed map) **SHALL BE USED.**

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

	GENERAL REQUIREMENTS APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Yes	No	N/A
	Items to include Each Box shall be Completed if Applicable					
1	Two (2) complete sets of plans containing the following:			✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			✓		
3	Condition space (Sq. Ft.)		Total (Sq. Ft.) under roof	IIIIIII	IIIIIII	IIIII

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

	Site Plan information including:			
4	Dimensions of lot or parcel of land	✓		
5	Dimensions of all building set backs			
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	✓		
7	Provide a full legal description of property.	✓		

Wind-load Engineering Summary, calculations and any details required

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		IIIIII	IIIII	IIIIII
8	**Plans or specifications must show compliance with FBCR Chapter 3**	**YES**	**NO**	**N/A**
		✓		
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)			
11	Wind importance factor and nature of occupancy	✓		
		✓		
12	The applicable internal pressure coefficient, Components and Cladding			
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	✓		

Elevations Drawing including:

		✓		
14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys	✓		
18	Location and size of skylights with Florida Product Approval	✓		
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak			

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
		✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade	✓		
22	All exterior and interior shear walls indicated			
23	Shear wall opening shown (Windows, Doors and Garage doors)			
24	Emergency escape and rescue opening shown in each bedroom (net clear opening shown)			
25	Safety glazing of glass where needed			
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)			
27	Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FBCR SECTION 311)	✓		
28	Identify accessibility of bathroom (see FBCR SECTION 322)			

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the pl

(see Florida product approval form)

GENERAL REQUIREMENTS

APPLICANT: PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to include. Each Box shall be Checked as Applicable

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	✓		
30	All posts and/or column footing including size and reinforcing	✓		
31	Any special support required by soil analysis such as piling.	✓		
32	Assumed load-bearing valve of soil _____ Pound Per Square Foot	✓		
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type)	✓		

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	✓		
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	✓		

FBCR 320: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. **Protection shall be provided by registered termiticides**	✓		

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	✓		
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	✓		

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer o Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer			
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers			
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers			
42	Attachment of joist to girder			
43	Wind load requirements where applicable			
44	Show required under-floor crawl space			
45	Show required amount of ventilation opening for under-floor spaces			
46	Show required covering of ventilation opening			
47	Show the required access opening to access to under-floor spaces			
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &			

48	intermediate of the areas structural panel sheathing			
49	Show Draftstopping, Fire caulking and Fire blocking			
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309			
51	Provide live and dead load rating of floor framing systems (psf).			

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

GENERAL REQUIREMENTS APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to include Each Box shall be marked by Applicant		
	YES	NO	N/A
52 Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls			
53 Fastener schedule for structural members per table FBCR 602.3 are to be shown			
54 Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing			
55 Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems			
56 Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)			
57 Indicate where pressure treated wood will be placed			
58 Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas			
59 A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail			

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	✓		
64	Provide dead load rating of trusses			

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing			
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			
67	Valley framing and support details			
68	Provide dead load rating of rafter system			

FBCR Table 602,3(2) & FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness			
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas			

FBCR ROOF ASSEMBLIES FRC Chapter 9

		YES	NO	N/A
71	Include all materials which will make up the roof assembles covering	✓		
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	✓		

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 Residential buildings compliance methods. *Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable YES	NO	N/A
73	Show the insulation R value for the following areas of the structure	✓		
74	Attic space	✓		
75	Exterior wall cavity	✓		
76	Crawl space	✓		

HVAC information

		YES	NO	N/A
77	Submit two copies of a Manual J sizing equipment or equivalent computation study	✓		
78	Exhaust fans locations in bathrooms	✓		
79	Show clothes dryer route and total run of exhaust duct	✓		

Plumbing Fixture layout shown

		YES	NO	N/A
80	All fixtures waste water lines shall be shown on the foundation plan	✓		
81	Show the location of water heater	✓		

Private Potable Water

City Water

		YES	NO	N/A
82	Pump motor horse power			
83	Reservoir pressure tank gallon capacity			
84	Rating of cycle stop valve if used			

Electrical layout shown including

		YES	NO	N/A
85	Switches, outlets/receptacles, lighting and all required GFCI outlets identified	✓		
86	Ceiling fans	✓		
87	Smoke detectors & Carbon dioxide detectors	✓		
88	Service panel, sub-panel, location(s) and total ampere ratings	✓		
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.			

		✓		
90	Appliances and HVAC equipment and disconnects	✓		
91	Arc Fault Circuits (AFCI) in bedrooms	✓		

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

GENERAL REQUIREMENTS APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include Each Box Shall Be Circled as Applicable

TIIE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	**Building Permit Application** A current Building Permit Application form is to be completed and submitted for all residential projects	✓		
93	**Parcel Number** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested	✓		
94	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058			
95	**City of Lake City** A permit showing an approved waste water sewer tap			
96	**Toilet facilities shall be provided for all construction sites**			
97	**Town of Fort White** (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			
98	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established			
100	A development permit will also be required. Development permit cost is **$50.00**			
101	**Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$50.00**). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.			
102	**911 Address:** If the project is located in an area where a 911 address has not been issued, then application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125			

REPORT OF GEOTECHNICAL EXPLORATION

Family Health Center of Columbia County
New Dentist Office
173 NW Albritton Lane
Lake City, Columbia County, Florida
CTI Project No. 11-00234

- Prepared For -
Blake Construction Co. of North Florida
3101 West US Highway 90, #102
Lake City, Florida 32055

- Prepared by -
Cal-Tech Testing, Inc.
P.O. Box 1625
Lake City, Florida 32056-1625

July 5, 2011

Cal-Tech Testing, Inc.
- Engineering
- Geotechnical
- Environmental
LABORATORIES

P.O. Box 1625 • Lake City, FL 32056 Tel. (386) 755-3633 • Fax (386) 752-5456
4784 Rosselle Street • Jacksonville, FL 32254 Tel. (904) 381-8901 • Fax (904) 381-8902

July 5, 2011

Blake Construction Co. of North Florida
3101 West US Highway 90, #102
Lake City, Florida 32055

Attention: Mr. Blake Lunde

Reference: Report of Subsurface Exploration
Family Health Center of Columbia County – New Dentist Office
173 NW Albritton Lane
Lake City, Columbia County, Florida
Cal-Tech Project No. 11-00234-01

Dear Dr. Lunde:

Cal-Tech Testing, Inc. (CTI) has completed the geotechnical exploration for the proposed dentist office at the referenced site. Our work was planned and performed in general accordance with our proposal dated June 22, 2011. Verbal authorization for this work was provided by you on June 24, 2011.

We have enjoyed assisting you on this project and look forward to serving as your geotechnical and construction materials testing consultant for the remainder of this and future projects. Should you have any questions concerning this report, please contact our office at 386-755-3633.

Sincerely,
Cal-Tech Testing, Inc.

David B. Brown
Executive Vice President

COPY

Nabil O. Hmeidi, P.E.
Senior Geotechnical Engineer
Licensed, Florida No. 57842

Distribution: *File (1 copy)*
Addressee (2 copies)
Mr. Troy Crews – Columbia County Building Department (pdf via e-mail)

TABLE OF CONTENTS

ATTACHMENTS

1.0 INTRODUCTION

1.1 Purpose and Scope of Service

The purpose of this exploration was to develop information concerning the site and subsurface conditions, and to evaluate site preparation requirements and foundation support recommendations for the proposed construction. This report briefly describes our field activities and presents our findings. The services rendered by CTI during the course of this exploration can be summarized as follows:

1. Reviewed available data such as results of similar explorations and published data including the U.S.G.S. Quadrangle Map and the Geologic Map of Florida;
2. Planned and performed three (3) Standard Penetration Test (SPT) borings at the approximate locations shown on the attached Field Exploration Plan;
3. Reviewed and analyzed gathered data in order to evaluate the general subsurface conditions with respect to the proposed development;
4. Prepared this report, which includes the results of our field exploration as well as our recommendations with respect to foundation design, foundation related site work, general site development, and quality control.

2.0 SITE & PROJECT CHARACTERISTICS

2.1 Site & Project Descriptions

The proposed dentist office building will be constructed near the existing Family Health Center of Columbia County located at 173 NW Albritton Lane in Lake City, Columbia County, Florida. The existing site conditions were observed by our personnel during our field program. At the time of our site visit, the ground surface within the proposed building appears to have been recently cleared of trees. About 1 to 1½ feet of new fill consisting of yellowish tan sand with silt had been placed across the building footprint. The ground surface within the subject site and surrounding areas is dry and appears relatively level.

We understand the proposed building will consist of a one-story ±52' by ±42' structure oriented as shown on the attached Field Exploration Plan. We anticipate the building will be constructed of brick veneered-concrete masonry unit (CMU) walls with a wood truss or composite built-up roofing system. Detailed structural information or finished floor elevations have not been furnished; however, based on our past experience with similar constructions, we assume that bearing walls and individual column loads will not exceed 4 klf and 25 kips, respectively. We also assume that soil-supported ground floor loads (dead load plus live load) will not exceed 150 psf. In addition, we anticipate that less than 3 feet of earthwork cut/fill will be required to bring the site to the desired grades.

3.0 FIELD & LABORATORY PROGRAMS

3.1 Field Program

Our field program consisted of performing three (3) SPT borings each extending 15 feet below the existing ground surface. The borings were performed at the approximate locations shown on the attached Field Exploration Plan. These locations were determined in the field and measured by tape and approximating right angles from existing features (existing building, driveways). Therefore, the boring locations should be considered only as accurate as the means and methods by which they were obtained.

The sampling and penetration procedures of the SPT borings were accomplished in general accordance with ASTM D-1586, "*Penetration Test and Split-Barrel Sampling of Soils*", using a power rotary drill rig. The standard penetration tests were performed by driving a standard 1-3/8" I.D. and 2" O.D. split spoon sampler with a 140 pound hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 18 inches, in 6 inch increments, were recorded. The penetration resistance or "*N*" value is the summation of the last two 6 inch increments and is illustrated on the attached boring logs adjacent to their corresponding sample depths. The penetration resistance is used as an index to derive soil parameters from various empirical correlations. The borings were performed using a BK-51 (continuous flight auger with a manual hammer) drill rig.

The attached record of boring logs present the descriptions of the subsurface conditions encountered at the time of our field program, and also provide the penetration resistances recorded during the drilling and sampling process. The stratification lines and depth designations on the boring records represent approximate boundaries between the various soils encountered, as determined in the field by our personnel. In some cases, the transition between the various soils may be gradual.

4.0 SITE AND SUBSURFACE CONDITIONS

4.1 General Area Geology

Published information regarding the geology in this area of Columbia County, Florida indicates the site is situated within the Statenville formation (**Ths**) of the Miocene period. Typically, the Statenville formation consists of interbedded sands, clays and dolostones with common to very abundant phosphate grains. The sands are predominate and are light gray to olive gray, poorly indurated, phosphatic, fine to coarse grained with scattered gravel and with minor occurrences of fossils. Clays are yellowish gray to olive gray, poorly consolidated, variably sandy and phosphatic, and variably dolomitic. The dolostones are yellowish gray to light orange, poorly to well indurated, sandy, clayey and phosphatic with scattered mollusk molds and casts.

4.2 USDA/SCS Soil Survey

Cursory review of the Columbia County, Florida USDA Soil Survey indicates the soils within the subject site to mostly consist of the Mascotte fine sand (Soil Map Unit No. 37). This soil map unit consists of about 6 inches of black fine sand underlain by gray fine sand extending to a depth of about 15 inches below the ground surface. The upper part of the subsoils extends to a depth of about 25 inches below the ground surface and consists of black to dark yellowish brown and yellowish brown fine sand. The lower part of the subsoils extends to a depth of about 67 inches below the ground surface and consists of light brownish gray fine sandy loam with brownish yellow and yellowish brown mottles, underlain by gray fine sandy loam with reddish yellow mottles. The substratum is light olive gray loamy sand and extends to a depth of 80 inches or more below the "*original*" ground surface. The soil survey indicates the estimated apparent[1] high water table at about 0 to 12 inches below the ground surface during the period of June to September. The soils in this area have a hydrologic group B[2]/D designation.

4.3 Subsurface Conditions

In general, the soil profile as disclosed by the SPT borings consisted of about 1 to 1 ½ feet of yellowish tan sand with silt (new fill) underlain by alternating layers of dark gray to tan sand with silt (SP-SM), gray fine sand (SP) with trace silt, and gray to brown sand with silt (SP-SM). The standard penetration resistance indicates the relative density of these sandy soils vary from very loose to very dense with "*N*" values ranging from 3 to exceeding 50 Blow Per Foot (BPF). The clayey soils vary in consistency from very stiff to hard with "*N*" values ranging from 18 to 49 BPF.

4.4 Groundwater

The depth to the groundwater was measured at the boring locations at the time of completion of drilling. At the time of completion, the groundwater was encountered in the borings at depths ranging from 6 to 7 feet below the existing ground surface. We note that due to the relative short time frame of the field exploration, the groundwater may not have had sufficient time to stabilize. For a true "stabilized" groundwater level reading, piezometers may be required. In any event, fluctuation in groundwater levels should be anticipated due to seasonal climatic conditions, construction activities, rainfall variations, surface water runoff, and other site-specific factors.

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1 *Thick zone of free water in the soil indicated by the level at which water stands in an uncased borehole after adequate time is allowed for adjustment in the surrounding soils.*
2 Typically, soils assigned a dual Hydrologic Group "B" have a moderate infiltration rate when thoroughly wet, and have a moderate rate of water transmission. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine to coarse texture. The first and second letters of a dual designation correspond to drained and undrained areas.

5.0 FOUNDATION DESIGN RECOMMENDATIONS

The recommendations presented in this report are based upon available project information, anticipated loading conditions, and data obtained during our field program. If the structural information is incorrect or the location of the structure changes, please contact this office so our recommendations may be reviewed and/or revised. Discovery of any site or subsurface condition during construction, which deviates from the data collected during this exploration, should be reported to us for evaluation.

5.1 General

Based on our evaluation of the encountered subsoils, anticipated loading conditions and our past experience with similar projects, it is our opinion the subject site can be made suitable for the support of the proposed building. The development should include the densification of the upper loose soils.

5.2 Foundation Support

Provided the soils are prepared in accordance with the guidelines presented in this report, it is our opinion the proposed structure may be supported on a conventional shallow foundation system. The shallow foundation may be designed for an allowable bearing pressure of 2,000 pounds per square foot (psf) or less supported on recompacted structural fill. In using net pressures, the weight of the footing and backfill over the footing need not be considered. Hence, only loads applied at or above final grade need to be used for dimensioning footings. Wall bearing footings should be designed with a minimum width of 18 inches, while the individual column footings should have minimum dimensions of 2 feet by 2 feet.

5.3 Floor Slab

All unsuitable material (grass, organics, etc.) located within the building area (including 5 feet outside the perimeter of the building) should be overexcavated and removed. The exposed subgrade should then be recompacted and proofrolled with a fully-loaded, tandem-axle dump-truck or similar pneumatic-tired equipment (tracked equipment should not be used for this task). All new fill soils placed within this area should be placed in accordance with our recommendations presented herein.

Provided the proofrolling operations do not indicate significant deflection or pumping of the existing subgrade and that new fill is satisfactorily placed and compacted, the floor slab may be designed as a slab-on-grade. Floor slabs should be supported on at least 4 inches of relatively clean granular material, such as sand, sand and gravel, or crushed stone. This is to help distribute concentrated loads and equalize moisture beneath the slab. This granular material should have 100 percent passing the 1½ -inch sieve and a maximum of 12 percent passing the No. 200 sieve.

6.0 GENERAL EARTHWORK RECOMMENDATIONS

6.1 Structural Fill/Backfill

As disclosed by the borings, the upper 3 feet of the existing soils exhibited a loose relative density. These loose sandy soils are considered suitable for reuse as structural fill, however, they are not considered acceptable for the support of the proposed building in their current conditions. To improve the density of the supporting soils, we recommend the upper 2 feet of the existing soils (new fill and in-situ soils) be overexcavated and recompacted as indicated herein.

After overexcavation of the upper 2 feet of the existing soils and prior to placement of any fill soils, the exposed subgrade should be recompacted and/or proofrolled with a fully-loaded, tandem-axle dump-truck or similar pneumatic-tired equipment (tracked equipment should not be used for this task). Subsequent structural fill needed to raise the site to the planned finished grades may then be placed in loose lifts not exceeding 12 inches in thickness, and compacted accordingly. Structural fill should be compacted using a roller that has a static at-drum weight on the order of four to five tons and a drum diameter on the order of four feet (the roller should operate with the vibratory action disengaged to avoid damage to the foundation system of the neighboring buildings). The initial compaction operations should also consist of at least eight overlapping passes of the roller in each direction.

All structural fill placed within the building area (including 5 feet outside the perimeter of the building) should be compacted to minimum densities equivalent to 95 percent of the modified Proctor maximum dry density (ASTM D-1557). Structural fill should consist of an inorganic, non-plastic, granular soil containing less than 12 percent material passing the No. 200 mesh sieve (relatively clean sand with a Unified Soil Classification of SP or SP-SM).

6.2 Construction Monitoring and Testing Guidelines

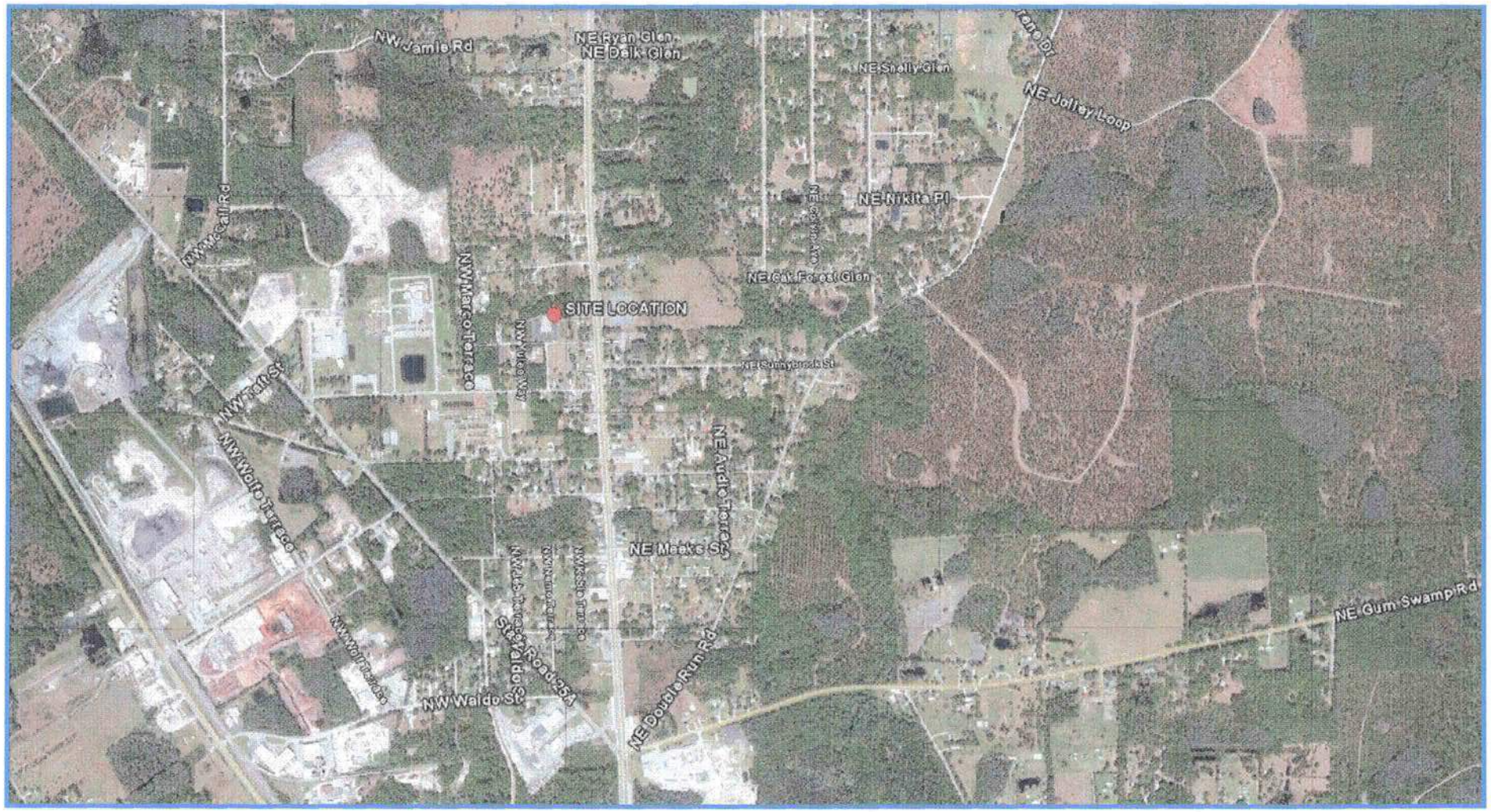
Prior to initiating compaction operations, we recommend that representative samples of the on-site and any off-site materials to be used as structural fill be tested to determine their compaction and classification characteristics. A representative number of in-place field density tests should be performed in the compacted soils and in each lift of structural fill or backfill to confirm the required degree of compaction has been achieved. In-place density tests should also be performed at representative locations in the bearing level soils in the footing excavation bottoms. The following minimum density testing frequencies are recommended:

Area	Recommended Minimum Density Test Frequency
Concrete slab-on-grade	1 test per 1,000 ft^2 in compacted existing soils and in each lift of structural fill.
Footing Bearing Level Soils	
-Spread Footings	1 test per 100 ft^2 of bearing surface (or one test for each isolated footing less than 100 ft^2)
-Continuous/Strip Footings	1 test per 50 lineal feet of bearing surface
Pavement Areas	Not Applicable

7.0 REPORT LIMITATIONS

This report has been prepared for the exclusive use of Blake Construction Co. of Lake City, Florida for the specific application to the project discussed herein. Our conclusions and recommendations have been rendered using generally accepted standards of geotechnical engineering practice in the State of Florida. No other warranty is expressed or implied. CTI is not responsible for the interpretations, conclusions, opinions, or recommendations of others based on the data contained herein. The assessment of environmental conditions at the site was beyond the scope of this exploration.

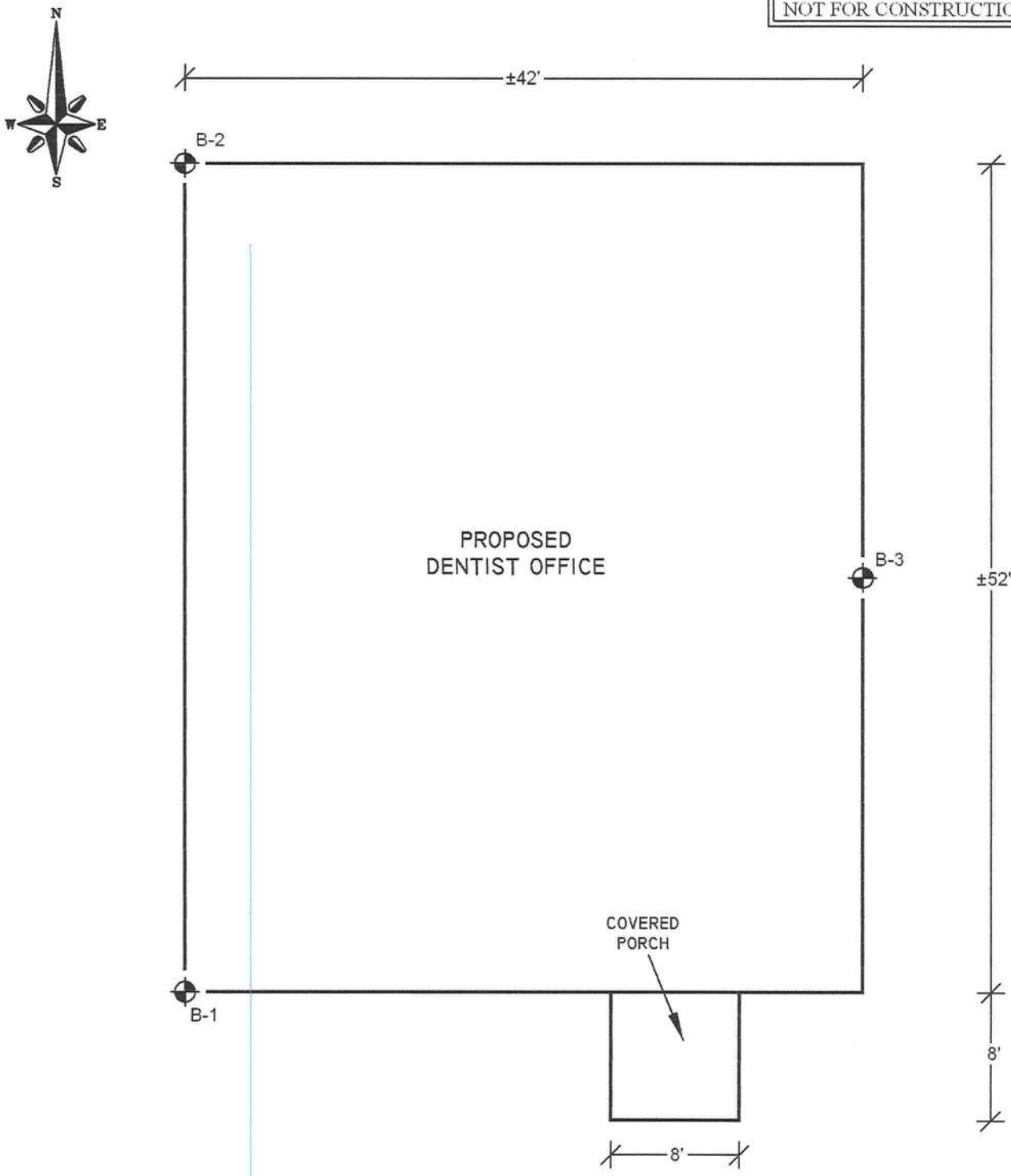
ATTACHMENTS



CAL-TECH TESTING, INC. P.O. Box 1625 Lake City, Florida 32056-1625 Phone: (386) 755-3633 Fax: (386) 752-5456	VICINITY MAP Family Health Center of Columbia County – New Dentist Office 173 NW Albritton Lane Lake City, Columbia County, Florida Cal-Tech Testing Project No. 11-00234-01

Figure 1

FOR ILLUSTRATION ONLY
NOT FOR CONSTRUCTION



STANDARD PENETRATION TEST (SPT) BORINGS PERFORMED BY CTI ON 05/07/2011

GEOTECHNICAL EXPLORATION
FAMILY HEALTH CENTER OF COLUMBIA COUNTY
NEW DENTIST OFFICE
173 NW ALBRITTON LANE
LAKE CITY, COLUMBIA COUNTY, FLORIDA

CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

FIELD EXPLORATION PLAN

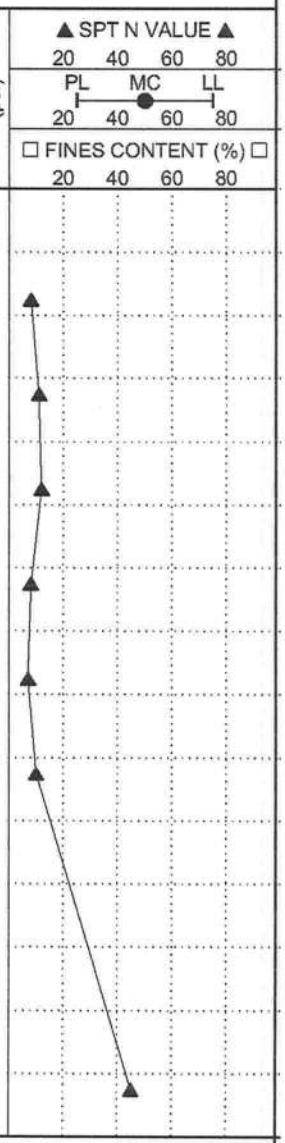
Project No. 11-00234-01		DATE: 07/05/2011	FIGURE: 1
DRAWN: N.H.	APPROVED:	SCALE: AS SHOWN	SHEET: 1/1

Cal-Tech Testing, Inc.
P.O. Box 1625
Lake City, Florida 32024
Telephone: 386-755-3633
Fax: 386-752-5456

BORING NUMBER B-1

CLIENT Blake Construction Co. of North Florida
PROJECT NAME Family Health Center - New Dentist Office
PROJECT NUMBER 11-00234-01
PROJECT LOCATION 173 NW Albritton Lane, Lake City, Florida
DATE STARTED 07/05/11 **COMPLETED** 07/05/11
GROUND ELEVATION _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Mud Rotary/Split Spoon
AT TIME OF DRILLING ---
LOGGED BY N.H. **CHECKED BY** _____
AT END OF DRILLING 7.00 ft
NOTES CME 45 (automatic hammer)
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
0		LOOSE, yellowish tan, sand with silt (FILL)					
		LOOSE to MEDIUM DENSE, dark gray to tan, sand with silt (SP-SM)	SPT 1	100	3-4-4 (8)		
			SPT 2	100	3-5-6 (11)		
5		LOOSE to MEDIUM DENSE, gray, fine sand (SP) with trace silt	SPT 3	100	6-5-7 (12)		
			SPT 4	100	6-5-3 (8)		
			SPT 5	100	3-3-4 (7)		
10		LOOSE to DENSE, gray to brown, sand with silt (SP-SM)	SPT 6	100	5-4-6 (10)		
			SPT 7	100	16-22-23 (45)		
15		Bottom of borehole at 15.0 feet.					



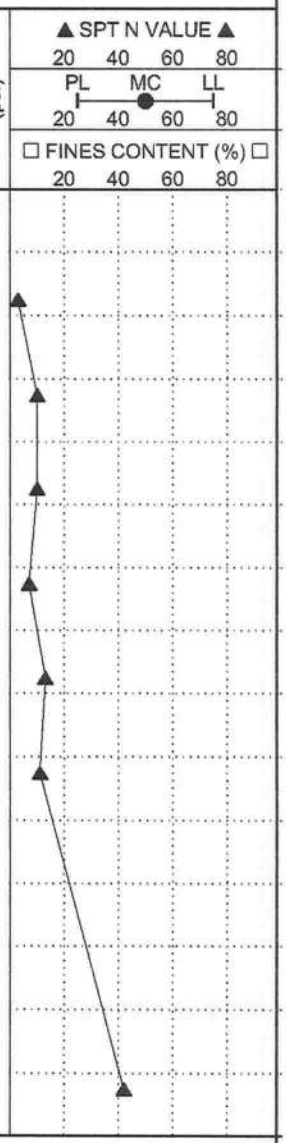
Cal-Tech Testing, Inc.
P.O. Box 1625
Lake City, Florida 32024
Telephone: 386-755-3633
Fax: 386-752-5456

BORING NUMBER B-2

CLIENT Blake Construction Co. of North Florida
PROJECT NAME Family Health Center - New Dentist Office
PROJECT NUMBER 11-00234-01
PROJECT LOCATION 173 NW Albritton Lane, Lake City, Florida
DATE STARTED 07/05/11 **COMPLETED** 07/05/11
GROUND ELEVATION _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Mud Rotary/Split Spoon
AT TIME OF DRILLING ---
LOGGED BY N.H. **CHECKED BY** _____
AT END OF DRILLING 6.50 ft
NOTES CME 45 (automatic hammer)
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
0		LOOSE, yellowish tan, sand with silt (FILL)					
		VERY LOOSE to LOOSE, dark gray to tan, sand with silt (SP-SM)	SPT 1	100	1-2-1 (3)		
			SPT 2	100	2-5-5 (10)		
5		LOOSE, gray, fine sand (SP) with trace silt	SPT 3	100	6-6-4 (10)		
	▼		SPT 4	100	4-3-4 (7)		
		MEDIUM DENSE to DENSE, gray to brown, sand with silt (SP-SM)	SPT 5	100	3-7-6 (13)		
10			SPT 6	100	4-4-7 (11)		
15			SPT 7	100	16-21-21 (42)		

Bottom of borehole at 15.0 feet.



Cal-Tech Testing, Inc.
P.O. Box 1625
Lake City, Florida 32024
Telephone: 386-755-3633
Fax: 386-752-5456

BORING NUMBER B-3

CLIENT Blake Construction Co. of North Florida
PROJECT NAME Family Health Center - New Dentist Office
PROJECT NUMBER 11-00234-01
PROJECT LOCATION 173 NW Albritton Lane, Lake City, Florida
DATE STARTED 07/05/11 **COMPLETED** 07/05/11
GROUND ELEVATION _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Mud Rotary/Split Spoon
AT TIME OF DRILLING ---
LOGGED BY N.H. **CHECKED BY** _____
AT END OF DRILLING 6.00 ft
NOTES CME 45 (automatic hammer)
AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)
0		LOOSE, yellowish tan, sand with silt (FILL)					
		LOOSE to MEDIUM DENSE, dark gray to tan, sand with silt (SP-SM)	SPT 1	100	1-2-4 (6)		
			SPT 2	100	4-5-6 (11)		
5			SPT 3	100	5-6-6 (12)		
		LOOSE to MEDIUM DENSE, gray, fine sand (SP) with trace silt	SPT 4	100	4-4-4 (8)		
			SPT 5	100	3-4-5 (9)		
10			SPT 6	100	6-7-12 (19)		
		MEDIUM DENSE to VERY DENSE, gray to brown, sand with silt (SP-SM)					
			SPT 7	100	16-45-60/5"		

▲ SPT N VALUE ▲
20 40 60 80
PL MC LL
20 40 60 80
☐ FINES CONTENT (%) ☐
20 40 60 80

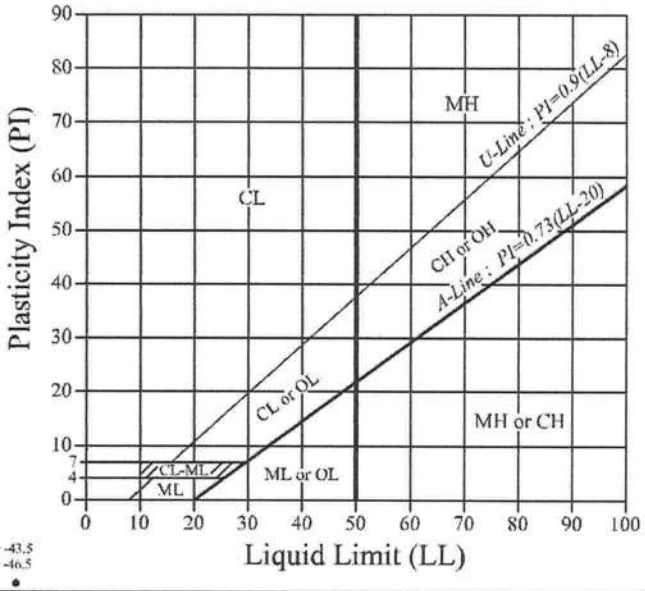
Refusal at 14.9 feet.
Bottom of borehole at 14.9 feet.

UNIFIED SOIL CLASSIFICATION SYSTEM
ASTM DESIGNATION D-2487

MAJOR DIVISIONS			GROUP SYMBOL	TYPICAL NAMES	LABORATORY CLASSIFICATION CRITERIA	
COARSE GRAINED SOILS (More than half of the material is larger than No. 200 sieve)	Gravels (more than half of the coarse fraction is larger than No. 4 sieve)	Clean gravels	GW	Well-graded gravels, gravel-sand mixtures, little or no fines.	Determine percentage of sand and gravel from grain size curve. Depending on percentage of fines (fraction smaller than No. 200 Sieve size), coarse grained soils are classified as follows: Less than 5% ..... GW, GP, SW, SP; More than 12% ... GM, GC, SM, SC; 5 to 12% ..... Borderline cases requiring dual symbols	$C_u = \frac{D_{60}}{D_{10}} > 4 \;;\; 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$
			GP	Poorly graded gravels, gravel-sand mixture, little or no fines.		Not meeting all gradation requirments of GW
		Gravel with fines	GM	Silty gravels, gravel-sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Above A-Line with PI between 4 and 7 are borderline cases requiring the use of dual symbols.
			GC	Clayey gravels, gravel-sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7	
	Sands (more than half of the coarse fraction is smaller than No. 4 sieve)	Clean sands	SW	Well-graded sands, gravelly sands, little or no fines.		$C_u = \frac{D_{60}}{D_{10}} > 6 \;;\; 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$
			SP	Poorly graded sands, gravelly sands, little or no fines.		Not meeting all gradation requirments of SW
		Sands with fine	SM	Silty sands, sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Limits plotting in hatched zone with PI between 4 and 7 are borderline cases requiring the use of dual symbols.
			SC	Clayey sands, sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7	
FINE GRAINED SOILS (More than half of the material is finer than No. 200 sieve)	Silts and Clays (LL less than 50)		ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity.		
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clay.		
			OL	Organic silts and organic silty clays of low plasticity.		
	Silts and Clays (LL greater than 50)		MH	Inorganic silts, micaceous or diato-maceous fine sandy or silty soils, elastic silts.		
			CH	Inorganic clays of high plasticity, fat clay.		
			OH	Organic clays of medium to high plasticity, organic silts.		
	Highly Organic Soils		Pt	Peat and other highly organic soils.		

PLASTICITY CHART

1. Plot intersection of PI as determined by the Atterberg Limits tests.
2. Points plotted above the A-Line indicate clay soils.
3. Points plotted below the A-Line indicate silt.



CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: 386-755-3633 Fax: 386-752-5456

5% Max. Passing the U.S. No. 200 Sieve ..... SP
5% - 12% Passing the U.S. No. 200 Sieve ..... SP-SM
12% - 50% Passing the U.S. No. 200 Sieve ..... SM/SC

KEY TO TEST DATA

STANDARD PENETRATION TEST:
Soil sampling and penetration testing is performed in accordance with ASTM D-1586. The standard penetration resistance ("*N*") is the number of blows of a 140-pound hammer falling 30 inches to drive a 2-inch O.D., 1.4-inch I.D. split spoon sampler one foot.

ROCK CORE DRILLING:
Rock sampling and core drilling is performed in accordance with ASTM D-2113. The rock quality designation percentage (RQD) is determined by summing only pieces of core that are at least 4 inches long, and dividing by the "run" length.

Relation of RQD and In-situ Rock Quality

RQD (%)	Rock Quality
90 -100	Excellent
75 - 90	Good
50 -75	Fair
25 - 50	Poor
0 - 25	Very Poor

RELATIVE DENSITY (SANDS):

Very loose - less than 4 blows/ft.
Loose - 5 to 10 blows/ft.
Medium - 11 to 30 blows/ft.
Dense - 31 to 50 blows/ft.
Very dense - over 50 blows/ft.

CONSISTENCY (SILTS & CLAYS):

Very soft - less than 2 blows/ft.
Soft - 3 to 4 blows/ft.
Medium stiff - 5 to 8 blows/ft.
Stiff - 9 to 15 blows/ft.
Very stiff - 16 to 30 blows/ft.
Hard - 31 to 50 blows/ft.
Very hard - over 50 blows/ft.

HARDNESS (ROCKS):

Soft - Rock core crumbles when handled.
Medium - Can break core with hands.
Moderately hard - Thin edges of rock core can be broken with fingers.
Hard - Thin edges of core can not be broken with fingers.
Very hard - Can not be scratched with knife.

GROUNDWATER:
Water levels shown on boring logs are taken immediately upon completion of boring, and are intended for general information. The apparent level may have been altered by the drilling process. Groundwater levels, if desired, can be monitored over a long time interval.

CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: 386-755-3633 Fax: 386-752-5456

5% Max. Passing the U.S. No. 200 Sieve ..... SP
5% - 12% Passing the U.S. No. 200 Sieve ..... SP-SM
12% - 50% Passing the U.S. No. 200 Sieve ..... SM/SC

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

No charge Per Marsha Moore

Parcel Number 20-3S-17-05405-001 **Building permit No.** 000029533

Use Classification DENTAL OFFICE **Fire:** 0.00

Permit Holder BLAKE LUNDE **Waste:**

Owner of Building FAMILY HEALTH CENTER OF COL. COUNTY, INC. **Total:** 0.00

Location: 171 NW ALBRIGHT LANE, LAKE CITY, FL 32055

Date: 02/16/2012

COLUMBIA COUNTY GATEWAY TO FLORIDA

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

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Date: 02/16/2012

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Fax 2 BLAKE

- 719-6708

BK: SEE ATTACHED Inform. Stapled Behind   cert # 8269

BLAKE Signature
☑ FRAMING   **Columbia County Building Permit Application**   Notices of Inc ☑

For Office Use Only Application # 1106-33 Date Received 6/15 By JW Permit # 29533

Zoning Official BLK Date 11 July 2011 Flood Zone X Land Use RES. Low Dev Zoning RSF/MH-2

FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner T.C. Date 7-5-11

Comments Existing Use with Vested Rights City Water & Sewer Lot

☐ NOC ☐ EH City Water/Sewer ☑ Deed or PA ☑ Site Plan ☐ State Road Info ☐ Well letter City ☐ 911 Sheet ☐ Parent Parcel #________

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

IMPACT FEES: EMS________ Fire________ Corr________ ☐ Sub VF Form ☑ Fire Approv Fi. Booze

Road/Code________ School________ = TOTAL (Suspended) ☐ App Fee Paid

Septic Permit No. Confirmation of this from city   Fax 386-752-2282

Name Authorized Person Signing Permit Linda Roder   Phone 386-752-2281

Address 387 SW Kemp Ct Lake City FL 32024

Owners Name Family Health Center of Columbia County Phone 386-758-5552

911 Address 171 NW Albritton LN, Lake City, FL 32055

Contractors Name Blake Lunde   Phone 867-0296 -754-5810

Address 3101 W. US Hwy 90 Suite 102 Lake City FL 32055

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address NA

Circle the correct power company – (FL Power & Light) – Clay Elec. – Suwannee Valley Elec. – Progress Energy

Property ID Number 20-3S-17-05405-001   Estimated Cost of Construction 300K

Subdivision Name S.C. Albritton's Replat: All of   Lot ____ Block 5 I & J Unit ____ Phase ____

Driving Directions N Marion, L on Albritton, R into Family Health Ctr drive.

________ Number of Existing Dwellings on Property 1

Construction of Dental Clinic, Office   Total Acreage 3.670 Lot Size ____

Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive)   Total Building Height 16'

Actual Distance of Structure from Property Lines - Front 260' Side 240' Side 120' Rear 122'

Number of Stories 1 Heated Floor Area 2178 Total Floor Area 2242 Roof Pitch 4-12

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. Spoken Blake 7.11.11 - JW Spoke w/ Linda 7.11

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1106-33 CONTRACTOR BLAKE LUNDE PHONE 867-0296

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	Print Name License #:	Signature Phone #:
MECHANICAL/ A/C _____	Print Name License #:	Signature Phone #:
PLUMBING/ GAS	Print Name License #:	Signature Phone #:
ROOFING	Print Name License #:	Signature Phone #:
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-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
✓ FRAMING 998	CBC1263408	Blake Construction Co.	
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

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.

SUBCONTRACTOR VERIFICATION FORM

867-0896

APPLICATION NUMBER 1106-33 CONTRACTOR Blake Lunde PHONE (386) 7

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 138	Print Name LAMAR BOOZER License #: RA0035027	Signature Phone #: 754-6190
PLUMBING/ GAS 298	Print Name Hometown Plumbing License #: RF 11067418	Signature Phone #: 386-365-6174
ROOFING 187	Print Name Mac Johnson Roofing License #: CCC 1325497	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	El Dorado Masonry LLC	
CONCRETE FINISHER	000063	Swadley Concrete	
FRAMING	SEE Attached LIST		
INSULATION 498	CBC 1253408	Blake Const. Co.	
STUCCO			
DRYWALL	000627	Jackson Drywall	
PLASTER			
CABINET INSTALLER 498	CBC 1253408	Blake Const Co.	
PAINTING	000104	Ted's Painting	
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE 498	CBC 1253408	Blake Const Co.	
FLOOR COVERING 498	CBC 1253408	Blake Const Co.	
ALUM/VINYL SIDING			
GARAGE DOOR	000211	County Line Garage Door	
METAL BLDG ERECTOR			

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.

300K

FPL

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 6/14/2011 **DATE ISSUED:** 6/16/2011

ENHANCED 9-1-1 ADDRESS:

171 NW ALBRITTON LN

LAKE CITY FL 32055

PROPERTY APPRAISER PARCEL NUMBER:

20-3S-17-05405-001

Remarks:

ADDRESS FOR 2ND STRUCTURE ON PARCEL.

Address Issued By: SIGNED: / RONAL N. CROFT

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

Columbia County Building Permit Application

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.

Notary Sign & Stamp
(Owners Must Sign All Applications Before Permit Issuance.)

X Dorothy M Pattison
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 _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 10 day of June 2011.

Personally known ___ or Produced Identification _____

Joyce D Cook
State of Florida Notary Signature (For the Contractor)

SEAL:

JOYCE D. COOK
MY COMMISSION # DD 959861
EXPIRES: April 27, 2014
Bonded Thru Budget Notary Services

JOYCE D. COOK
MY COMMISSION # DD 959861
EXPIRES: April 27, 2014
Bonded Thru Budget Notary Services

FLORIDA DEPARTMENT OF STATE
DIVISION OF CORPORATIONS

www.Sunbiz.org

Detail by Entity Name

Florida Non Profit Corporation

FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC.

Filing Information

Document Number	754720
FEI/EIN Number	592086283
Date Filed	10/17/1980
State	FL
Status	ACTIVE
Last Event	NAME CHANGE AMENDMENT
Event Date Filed	06/19/1986
Event Effective Date	NONE

Principal Address

173 ALBRITTON LN
LAKE CITY FL 32055 US

Changed 04/02/2007

Mailing Address

P O BOX 249
LAKE CITY FL 32056-7249

Changed 03/26/1992

Registered Agent Name & Address

LATOUR, LARRY
778 SW BISCAYNE GLEN
LAKE CITY FL 32025

Name Changed: 04/02/2007

Address Changed: 04/02/2007

Officer/Director Detail

Name & Address

Title TD

PATTISON, DOROTHY
576 NW SPRING HOLLOW BLVD
LAKE CITY FL 32055

Title S

TALMADGE, VICTORIA
321 SE FAWN GLEN
LAKE CITY FL 32025

Title D

ROBERTS, SHELIA
393 SW SHORTLEAF DRIVE
LAKE CITY FL 32024

Title VP

SCHAAFSMA, KEITH C
10278 SW TUSTENUGEE AVE
LAKE CITY FL 32024

Title PD

LATOUR, LARRY
778 SW BISCAYNE GLEN
LAKE CITY FL 32025

Title D

LEE, GAYNELL
632 NE FAIRVIEW STREET
LAKE CITY FL 32055

Annual Reports

Report Year	Filed Date
2007	04/02/2007
2008	03/03/2008
2009	02/26/2009

Document Images

02/26/2009 -- ANNUAL REPORT	View image in PDF format
03/03/2008 -- ANNUAL REPORT	View image in PDF format
04/02/2007 -- ANNUAL REPORT	View image in PDF format
03/01/2006 -- ANNUAL REPORT	View image in PDF format
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02/02/2004 -- ANNUAL REPORT	View image in PDF format
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03/26/2002 -- ANNUAL REPORT	View image in PDF format
03/06/2001 -- ANNUAL REPORT	View image in PDF format
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03/05/1999 -- ANNUAL REPORT	View image in PDF format
03/26/1998 -- ANNUAL REPORT	View image in PDF format
04/14/1997 -- ANNUAL REPORT	View image in PDF format
05/15/1996 -- ANNUAL REPORT	View image in PDF format
05/01/1995 -- ANNUAL REPORT	View image in PDF format

Note: This is not official record. See documents if question or conflict.

Previous on List Next on List Return To List

Entity Name Search

Events Name History Submit

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Columbia County Property Appraiser

DB Last Updated: 5/3/2011

2010 Tax Year

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

Parcel: 20-3S-17-05405-001

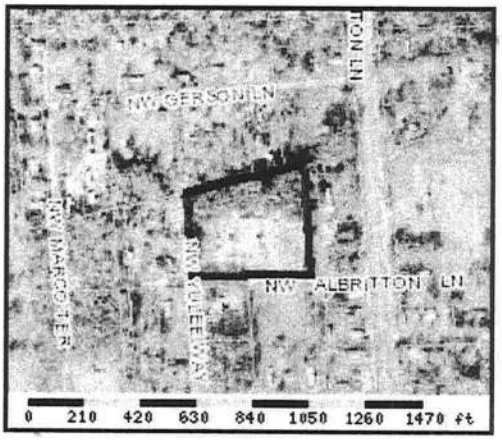
<< Next Lower Parcel | Next Higher Parcel >>

Search Result: 1 of 1

Owner & Property Info

Owner's Name	FAMILY HEALTH CENTER OF		
Mailing Address	COLUMBIA COUNTY P O BOX 249 LAKE CITY, FL 32056		
Site Address	173 NW ALBRITTON LN		
Use Desc. (code)	PROFESSION (001900)		
Tax District	2 (County)	**Neighborhood**	20317
Land Area	3.670 ACRES	**Market Area**	06
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		

ALL BLOCKS I & D OF S C ALBRITTON'S REPLAT SPRINGFIELD S/D & ALL OF SECOND AVE LYING N OF COLUMBIA AVE. ORB 743-675,



Property & Assessment Values

2010 Certified Values		
Mkt Land Value	cnt: (0)	$40,666.00
Ag Land Value	cnt: (1)	$0.00
Building Value	cnt: (1)	$324,250.00
XFOB Value	cnt: (3)	$30,366.00
Total Appraised Value		$395,282.00
Just Value		$395,282.00
Class Value		$0.00
Assessed Value		$395,282.00
Exempt Value	(code: 03)	$395,282.00
Total Taxable Value		Cnty: $0 Other: $0 | Schl: $0

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
2/21/1991	743/675	WD	V	U	11	$0.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	OFFICE MED (005200)	1992	CONC BLOCK (15)	9084	9518	$363,431.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	0	$2,540.00	0001814.000	0 x 0 x 0	(000.00)
0260	PAVEMENT-A	0	$24,626.00	0032191.000	0 x 0 x 0	(000.00)
0253	LIGHTING	0	$3,200.00	0000004.000	0 x 0 x 0	(000.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
008600	COUNTY (MKT)	3.67 AC	1.00/1.00/1.00/1.00	$9,972.72	$36,599.00

Columbia County Property Appraiser

DB Last Updated: 5/3/2011

NOTICE OF COMMENCEMENT

Clerk's Office Stamp

Inst 201112009116 Date 6/15/2011 Time 4:19 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B 1216 P 1247

Tax Parcel Identification Number:

20-35-17-05405-001

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description)*: 20-35-17-05405-001
   a) Street *(job)* Address: 173 NW Albritton LN Lake City FL 32056
2. General description of improvements: Dental Office
3. Owner Information
   a) Name and address: Family Health Center of Columbia County
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property Dental Clinic
4. Contractor Information
   a) Name and address: Blake Construction CO. 3101 W US Hwy 90 Lake City FL 32055
   b) Telephone No.: 867-0296 Fax No. (Opt.) _____
5. Surety Information
   a) Name and address: NA
   b) Amount of Bond: _____
   c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
   a) Name and address: NA
   b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: NA
   b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name and address: NA
   b) Telephone No.: _____ Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement **(the expiration date is one 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 STATUTES, 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 INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. X Dorothy M Pattison
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

X Dorothy M. Pattison
Printed Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 10 day of June, 20 11, by: Dorothy Pattison as _____ (type of authority, e.g. officer, trustee, attorney fact) for Family Health Center (name of party on behalf of whom instrument was executed).

Personally Known ✓ OR Produced Identification ____ Type _____

Notary Signature Joyce D Cook Notary Stamp or Seal:

JOYCE D. COOK
MY COMMISSION # DD 959861
EXPIRES: April 27, 2014
Bonded Thru Budget Notary Services

~~AND~~

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

X Dorothy M Pattison
Signature of Natural Person Signing (in line #10 above.)

June 14, 2011

I Blake Lunde Authorize
Linda Roder to Pull permit for the
Family Health Center Dental Bldg.

Blake N. Lunde II.

Betty M. Federico
June 14, 2011

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

VIRTUS SOLA NOBILITAT

COLUMBIA COUNTY FIRE RESCUE

P.O. BOX 1529 Lake City, Florida 32056
Office (386) 754-7071 Fax (386) 754-7064

Division Chief
David L. Boozer

11 July 2011

TO: Troy Crews
Columbia County Building and Zoning

FROM: David L. Boozer
Division Chief / Fire Marshal

RE: New Dentist Office, Family Health Center of Columbia County
Application # 1106-33, Blake Construction

A plan review was performed of the proposed construction of New Dentist building to be located on NW Albritton Lane, in Lake City, Florida. This building was classified under Chapter 38, New Business, of the Florida Fire Prevention Code, 2007 Edition. I recommend Approval of the building with the following conditions;

- Building Address
  - New and existing buildings shall have approved **address numbers** placed in a position to be plainly legible and visible from the street or road, in contrast with their background. At the minimum, numbers shall be not less than 3 inches in height for residential buildings and at least 6 inches in height for all other buildings. *NFPA 1:10.13.1.1 & NFPA 1:10.13.1.2*

- Fire Alarm
  - Duct Detector Installation
    - Smoke detectors shall be installed, tested, and maintained in accordance with *NFPA 72(90A:6.4.4.1)*
    - In addition to the requirements of 6.4.3 of *NFPA 90A*, Standard for the installation of Air-Conditioning and Ventilating Systems, where an approved fire alarm system is installed in a building, the smoke detectors required by the provisions of Section 6.4 of *NFPA 90A* shall be connected to the fire alarm system in accordance with the requirements of *NFPA 72. (90A:6.4.4.2.1)*
    - Alarm company to install a heat detector in the Dental Mechanical Room

- Electrical Disconnect
  - NFPA 1:11.1.7 states, "Means shall be provided for the fire department to disconnect the electrical service to a building, structure or facility when the electrical is covered under the scope of NFPA 70
  - NFPA 101:7.2.1.5.1 states, "Doors shall be arranged to be opened readily from egress side whenever building is occupied."

- Door Hardware
  - All **exit or exit access doors** shall be arranged to open readily from the egress side whenever the building is occupied. **Locks or latches** if provided shall not require the use of a key, tool, or special knowledge or effort for operation from the egress side. The releasing mechanism for any latch shall be located not less than 34 in and not more than 48 in above the finished floor. The door must not require more than 1 action to open. *NFPA 1:14.5.2.2* **Business travel distance less than 100'=1 exit** *NFPA 1:14.5.2.2*

- Portable Fire Extinguishers
  - **Portable fire extinguishers** requires a license or permit of organizations and individuals who service, recharge, test, mark, inspect, install, or hydro test fire extinguishers. It will be necessary to use a Licensed Fire Extinguisher Contractor for identifying the location and type of extinguisher to use. *FSS 633.061*
  - Minimum 2A rated extinguisher shall be located in **egress path** with not more than 75-foot travel distance. Additional extinguishers of B rating may be required if flammable or combustible liquids are present. Class C rated extinguishers are required whenever fires may involve energized electrical equipment. *NFPA 1:13.6*
  - **Mounted** on brackets or in cabinets, with top not more than 5 feet above floor, and bottom not less than 4" above floor. (less than 40 lbs) *NFPA 1:13.6.3.7 & NFPA 1:13.6.3.10*
  - All portable fire extinguishers must have a current (less than 12 months old) **inspection tag** by a licensed fire extinguisher contractor. *FAC 69A-21.237*

- Light Weight Truss Marking
  - Florida Statute, Section 633.027, (2008) requires the owner of any commercial, industrial or multiunit residential structure of three units or more constructed of light-frame trusses, to install a symbol adopted by rule of the State Fire Marshal's Office. This rule establishes the dimensions, color, and location of the symbol to be applied to every commercial, industrial and multiunit residential structure of three units or more constructed of light-frame trusses.

Should you require any additional information, please feel free to contact my office.

Sincerely,

David L. Boozer

[redacted]

P 0743 PG 675

COLUMBIA COUNTY DEED

OFFICIAL RECORDS

THIS DEED, made this 8th day of February, 1991, by COLUMBIA COUNTY, FLORIDA, party of the first part, and FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC., party of the second part,

W I T N E S S E T H, that the said party of the first part, for and in consideration of the sum of ONE AND 00/100 ($1.00) DOLLARS to it in hand paid by the party of the second part, receipt whereof is hereby acknowledged, has granted, bargained and sold to the party of the second part, his heirs and assigns forever, the following described land lying and being in Columbia County, Florida:

ALL OF BLOCKS A AND B, and ALL OF REMAND AVENUE SOUTH OF COLUMBIA AVENUE, all being in S.T. ALBRITTON'S REPLAT OF LAKE SHORE, a subdivision according to Plat thereof recorded in Plat Book 3, Page 30, Public Records, Columbia County, Florida.

IN WITNESS WHEREOF, the said party of the first part has caused these presents to be executed in its name by its Board of County Commissioners acting by the Chairman or Vice Chairman of said board, the day and year aforesaid.

COLUMBIA COUNTY, FLORIDA
BY ITS BOARD OF COUNTY COMMISSIONERS

BY: _____
RONALD WILLIAMS, CHAIRMAN

ATTEST: _____
P. DEWITT CASON,
CLERK OF COURT

(SEAL)

91 03730

[redacted]

COLUMBIA COUNTY, FLORIDA
RESOLUTION NO. 91-3

BK 0749 PG 0678

OFFICIAL RECORDS

RESOLUTION CERTIFYING APPLICATION BEING MADE BY THE FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC. FOR TITLE TO REAL PROPERTY OWNED BY COLUMBIA COUNTY TO BE USED FOR THE HEALTH CARE OF CITIZENS AND RESIDENTS OF COLUMBIA COUNTY, FLORIDA

WHEREAS, FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC. ("Center"), has applied to the Board of County Commissioners, Columbia County, Florida for title to certain real properties located in Columbia County, Florida as more particularly described herein; and

WHEREAS, the Center has stipulated the property will be used in providing health care services for the residents and citizens of Columbia County, Florida, and that the Center will at its expense make substantial improvements to the property; and

WHEREAS, title shall be transferred from the County to the Center for the nominal consideration of $1.00 so the property will be used exclusively for the welfare and interest of the residents and citizens of Columbia County, Florida.

NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Columbia County, Florida that title to the following described property located in Columbia County, Florida shall be transferred and conveyed by statutory deed form to FAMILY HEALTH CENTER OF COLUMBIA COUNTY, INC., to wit:

OR 0743 PG0677

OFFICIAL RECORDS

ALL OF [illegible] AND [illegible], and ALL OF [illegible] AVENUE NORTH OF COLUMBIA AVENUE, all being in S.C. ALBRITTON'S REPLAT OF SPRINGFIELD, a subdivision according to Plat thereof recorded in Plat Book 3, Page 30, Public Records, Columbia County, Florida.

BE IT FURTHER RESOLVED that the Chairman of the Board of County Commissioners is authorized to execute said statutory form deed and all other necessary documents to consummate the proper transfer of title to the property to the Center.

DATED this 21st day of February, 1992 at Lake City, Columbia County, Florida.

BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY, FLORIDA

BY: RONALD WILLIAMS, CHAIRMAN

ATTEST: P. DEWITT CASON, CLERK OF COURT

(SEAL)

Julius Lee

RE: 373452 - BLAKE CONST. - FAMILY HEALTH DENTAL

1109 Coastal Bay Blvd.
Boynton Beach, FL 33435

Site Information:
Project Customer: BLAKE CONST. Project Name: 373452 Model: FAMILY HEALTH DENTAL
Lot/Block: Subdivision:
Address: 173 NW ALBRITTON LN
City: COLUMBIA 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 7.3
Wind Code: ASCE 7-05 Wind Speed: 110 mph Floor Load: N/A psf
Roof Load: 32.0 psf

This package includes 18 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	I4741372	CJ1	5/17/011	18	I4741389	T10	5/17/011
2	I4741373	CJ3	5/17/011				
3	I4741374	CJ5	5/17/011				
4	I4741375	EJ3	5/17/011				
5	I4741376	EJ7	5/17/011				
6	I4741377	EJ7A	5/17/011				
7	I4741378	HJ4	5/17/011				
8	I4741379	HJ9	5/17/011				
9	I4741380	T01	5/17/011				
10	I4741381	T02	5/17/011				
11	I4741382	T03	5/17/011				
12	I4741383	T04	5/17/011				
13	I4741384	T05	5/17/011				
14	I4741385	T06	5/17/011				
15	I4741386	T07	5/17/011				
16	I4741387	T08	5/17/011				
17	I4741388	T09	5/17/011				

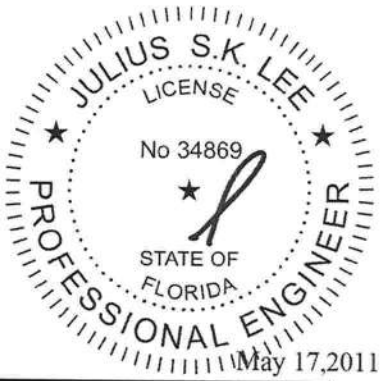
To1 1199

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.



May 17,2011

Julius Lee

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741372
373452	CJ1	JACK	12	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:48 2011 Page 1

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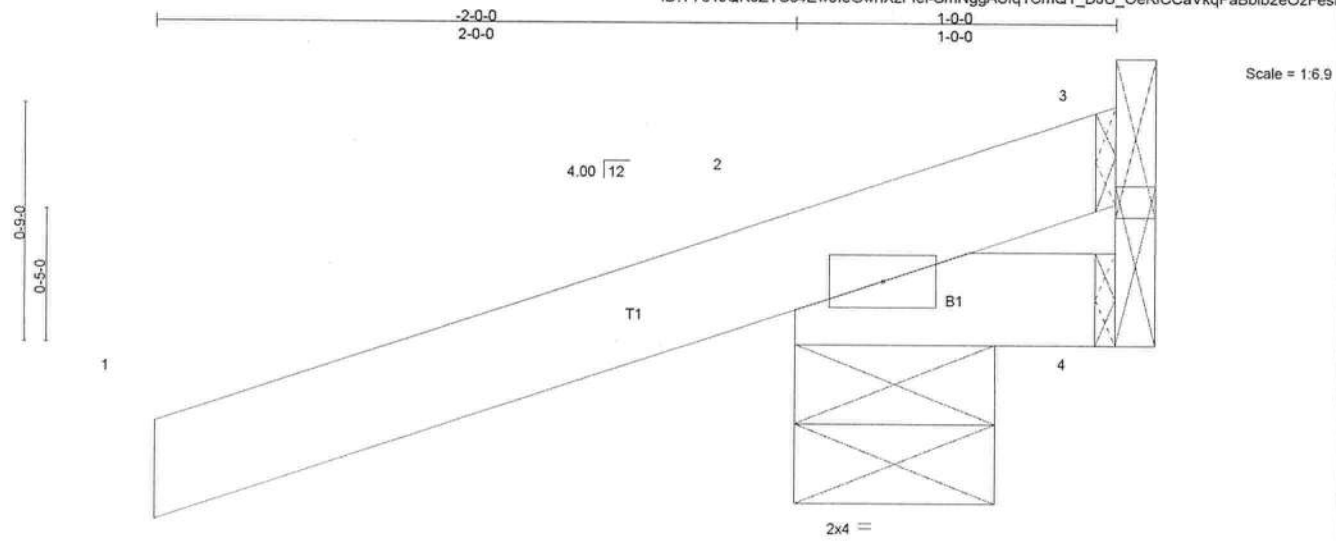


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.01	Vert(TL)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.00	2	****	240	Weight: 6 lb	FT = 20%

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 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

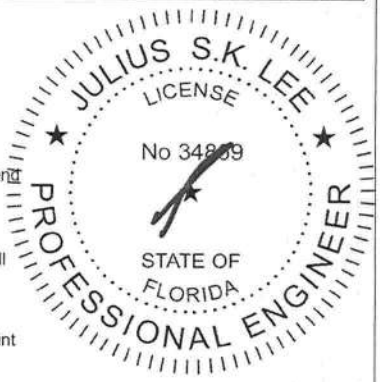
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=265/0-7-8, 4=5/Mechanical, 3=-99/Mechanical
Max Horz 2=69(LC 4)
Max Uplift 2=-336(LC 4), 3=-99(LC 1)
Max Grav 2=265(LC 1), 4=14(LC 2), 3=148(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=16ft; 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
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 336 lb uplift at joint 2 and 99 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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741373
373452	CJ3	JACK	8	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:49 2011 Page 1

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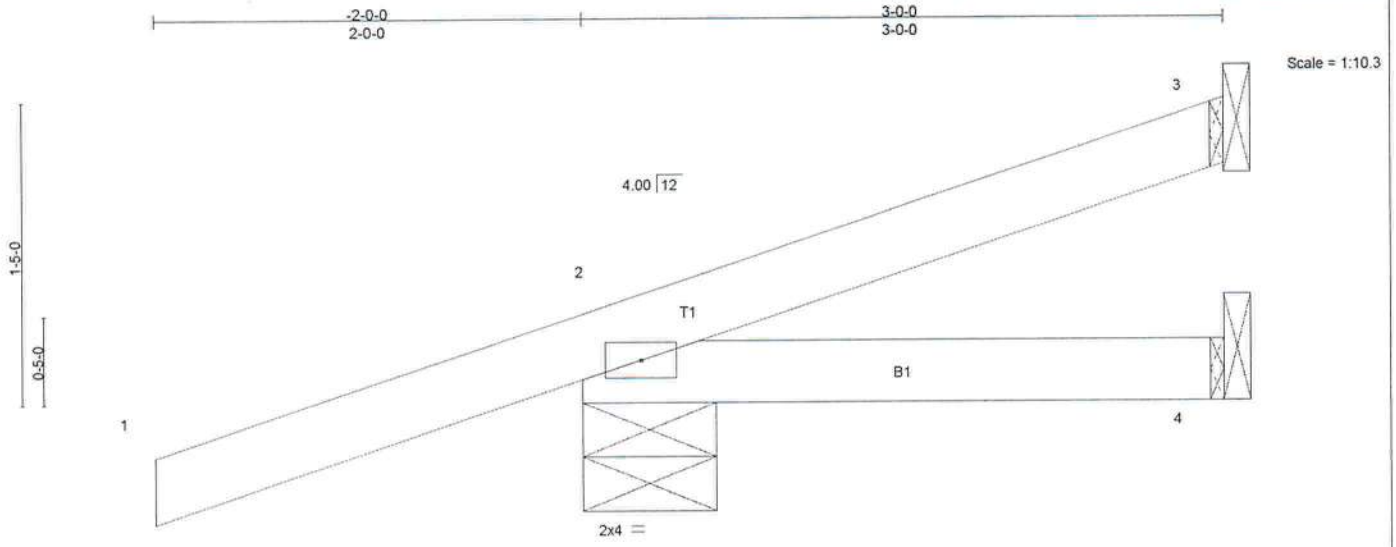


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.00	2	****	240	Weight: 12 lb	FT = 20%

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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

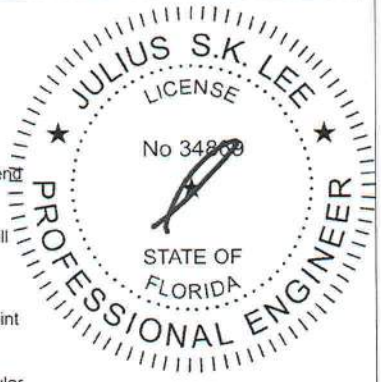
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=16/Mechanical, 2=264/0-7-8, 4=13/Mechanical
Max Horz 2=106(LC 4)
Max Uplift3=-25(LC 7), 2=-283(LC 4)
Max Grav 3=16(LC 1), 2=264(LC 1), 4=39(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=16ft; 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 25 lb uplift at joint 3 and 283 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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	CJ5	JACK	8	1		I4741374
Builders FrstSource, Lake City, FL 32055					Job Reference (optional)	

7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:49 2011 Page 1
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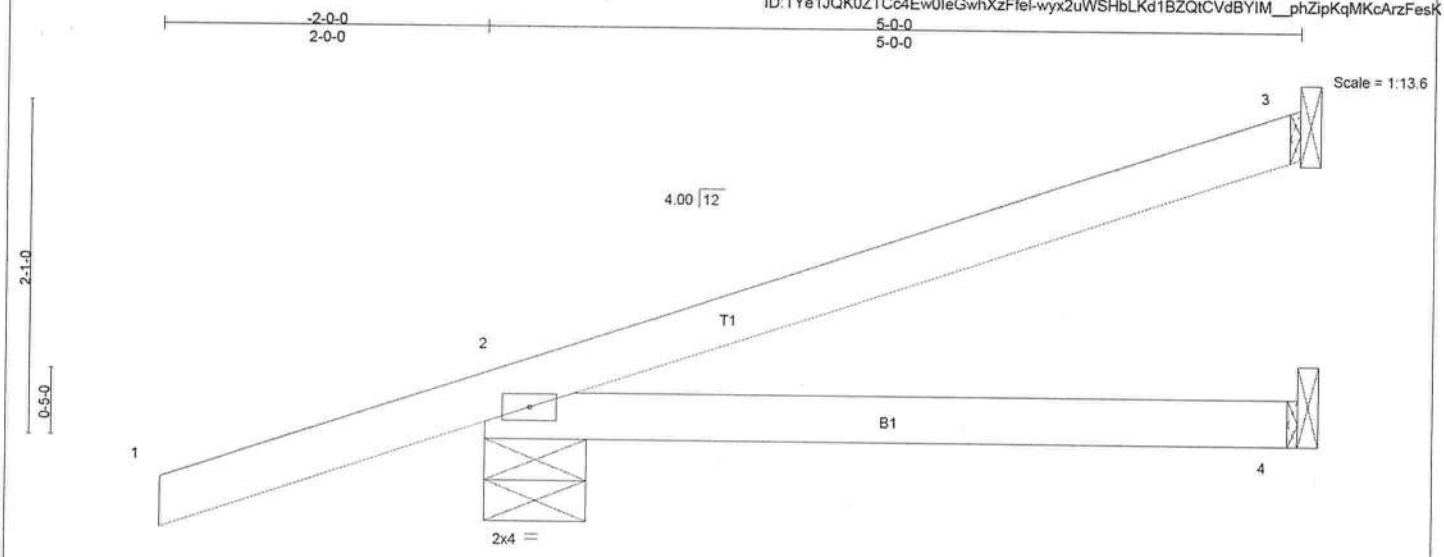


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.02	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	-0.04	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.00	2	****	240	Weight: 19 lb	FT = 20%

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

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

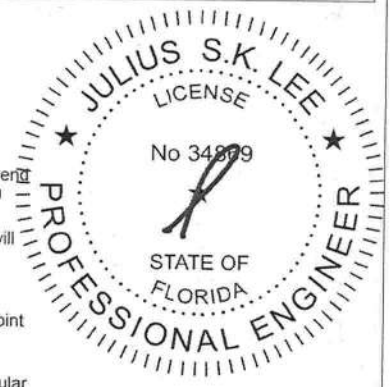
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=94/Mechanical, 2=304/0-7-8, 4=23/Mechanical
Max Horz 2=143(LC 4)
Max Uplift 3=-87(LC 4), 2=-286(LC 4)
Max Grav 3=94(LC 1), 2=304(LC 1), 4=69(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=16ft; 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 87 lb uplift at joint 3 and 286 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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741375
373452	EJ3	JACK	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:50 2011 Page 1

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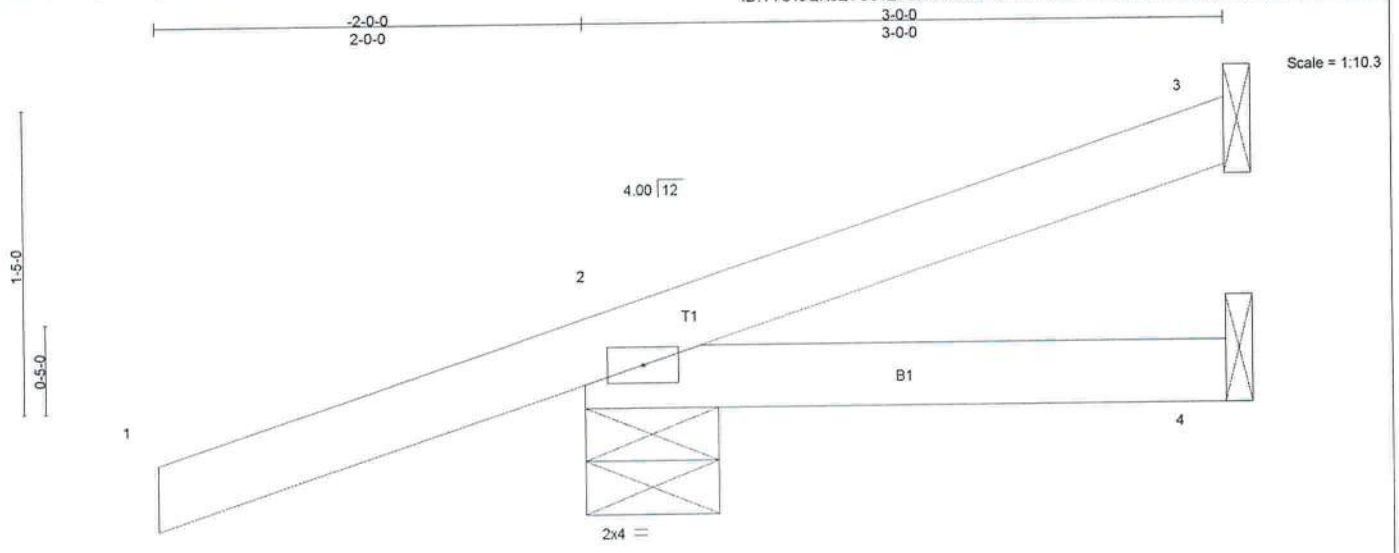


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	2-4	>999	240	Weight: 12 lb	FT = 20%

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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

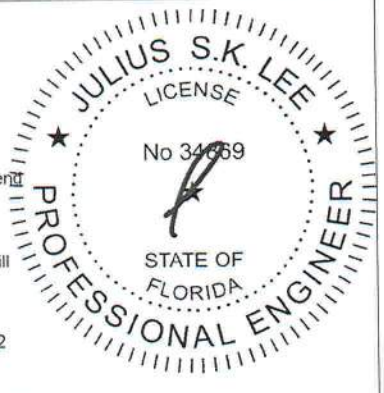
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=16/Mechanical, 2=264/0-7-8, 4=13/Mechanical
Max Horz 2=106(LC 4)
Max Uplift 3=-25(LC 7), 2=-324(LC 4), 4=-33(LC 4)
Max Grav 3=16(LC 1), 2=264(LC 1), 4=39(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=16ft; 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
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 25 lb uplift at joint 3, 324 lb uplift at joint 2 and 33 lb uplift at joint 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard



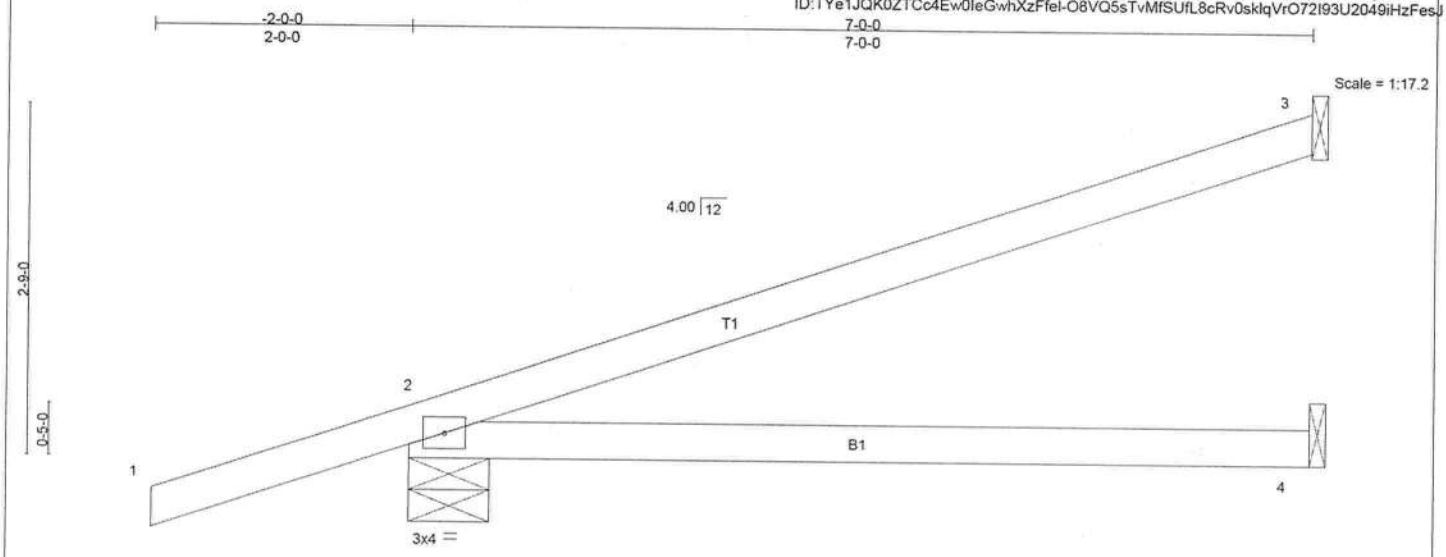
May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	EJ7	MONO TRUSS	24	1	Job Reference (optional)	I4741376

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:50 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0IeGwhXzFfeI-O8VQ5sTvMfSUfL8cRv0skIqVrO72I93U2049iHzFesJ



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.08	2-4	>998	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.15	2-4	>524	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)	0.05	2-4	>999	240	Weight: 25 lb	FT = 20%

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 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) 3=151/Mechanical, 2=359/0-7-8, 4=39/Mechanical
Max Horz 2=130(LC 4)
Max Uplift3=-93(LC 4), 2=-213(LC 4)
Max Grav 3=151(LC 1), 2=359(LC 1), 4=93(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=16ft; 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 93 lb uplift at joint 3 and 213 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

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

May 17,2011

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER 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. - FAMILY HEALTH DENTAL	I4741377
373452	EJ7A	MONO TRUSS	6	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

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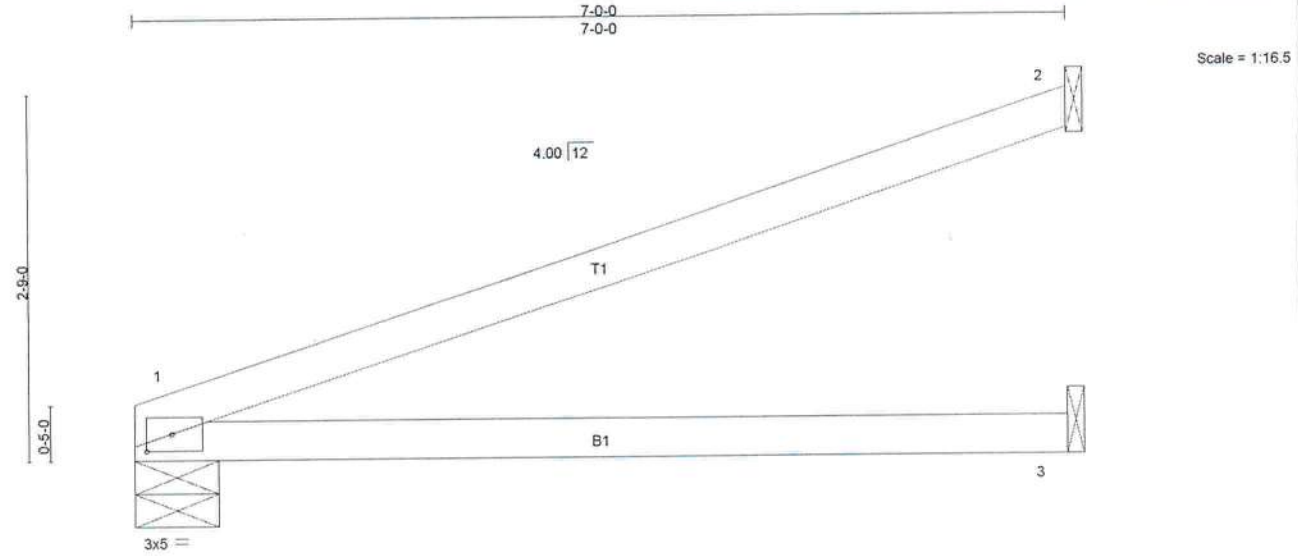


Plate Offsets (X,Y): [1:0-2-4,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.56	Vert(LL)	-0.08	1-3	>942	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.29	Vert(TL)	-0.17	1-3	>478	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.08	1-3	>950	240	Weight: 22 lb	FT = 20%

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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

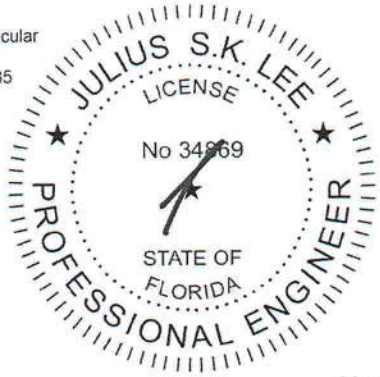
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=212/0-7-8, 2=168/Mechanical, 3=44/Mechanical
Max Horz 1=96(LC 4)
Max Uplift 1=-65(LC 4), 2=-110(LC 4)
Max Grav 1=212(LC 1), 2=168(LC 1), 3=96(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=16ft; 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 65 lb uplift at joint 1 and 110 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



May 17,2011

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. - FAMILY HEALTH DENTAL	
373452	HJ4	JACK	2	1		I4741378

Builders FrstSource, Lake City, FL 32055

Job Reference (optional)

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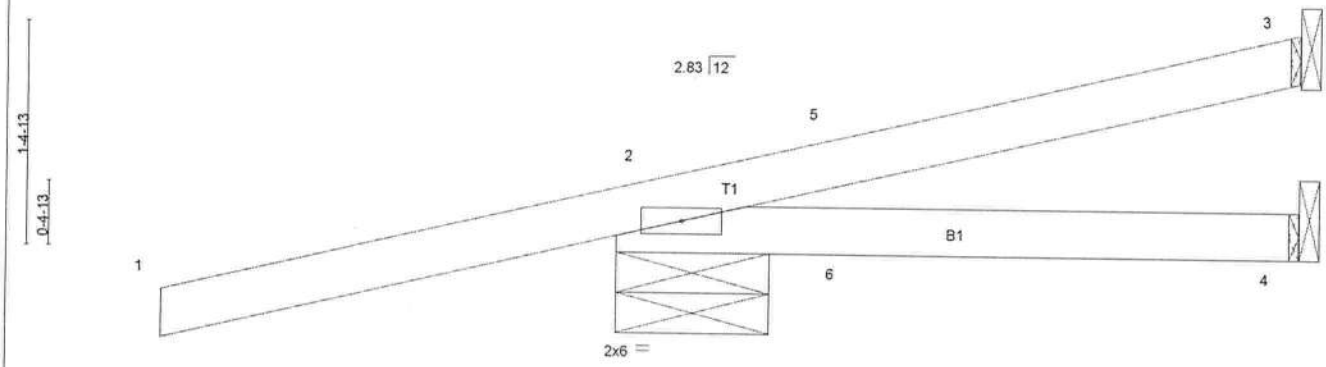

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.02	2-4	>999	240	Weight: 17 lb	FT = 20%

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 4-2-15 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) 3=10/Mechanical, 2=301/0-11-6, 4=16/Mechanical
Max Horz 2=106(LC 3)
Max Uplift 3=-49(LC 6), 2=-489(LC 3), 4=-50(LC 3)
Max Grav 3=10(LC 1), 2=301(LC 1), 4=48(LC 2)

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

NOTES (10-11)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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 49 lb uplift at joint 3, 489 lb uplift at joint 2 and 50 lb uplift at joint 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb up at 1-5-12, and 40 lb up at 1-5-12 on top chord, and 16 lb up at 1-5-12, and 16 lb up at 1-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
11) 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
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 2-4=-10
Concentrated Loads (lb)
Vert: 5=79(F=40, B=40) 6=11(F=5, B=5)

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741379
373452	HJ9	MONO TRUSS	4	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

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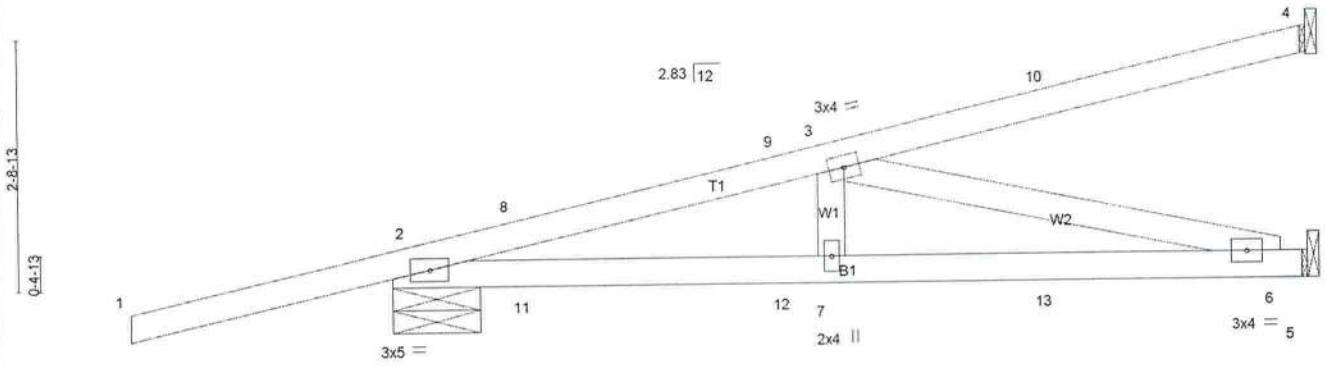
Scale: 1/2"=1'



4-9-0 / 4-9-0 | 9-10-13 / 5-1-13

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.11	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(TL)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.04	6-7	>999	240	Weight: 43 lb	FT = 20%

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

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) 4=154/Mechanical, 2=413/0-11-6, 5=157/Mechanical
Max Horz 2=182(LC 3)
Max Uplift 4=-143(LC 3), 2=-481(LC 3), 5=-76(LC 6)
Max Grav 4=154(LC 1), 2=413(LC 1), 5=213(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-535/319, 8-9=-539/314, 3-9=-521/318
BOT CHORD 2-11=-376/498, 11-12=-376/498, 7-12=-376/498, 7-13=-376/498, 6-13=-376/498
WEBS 3-6=-514/388

NOTES (10-11)
1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 4, 481 lb uplift at joint 2 and 76 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 40 lb up at 1-5-12, 40 lb up at 1-5-12, 24 lb down and 38 lb up at 4-3-11, 24 lb down and 38 lb up at 4-3-11, and 40 lb down and 70 lb up at 7-1-10, and 40 lb down and 70 lb up at 7-1-10 on top chord, and 16 lb up at 1-5-12, 16 lb up at 1-5-12, 9 lb down at 4-3-11, 9 lb down at 4-3-11, and 39 lb down at 7-1-10, and 39 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
11) 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, 2-5=-10

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

May 17,2011

Continued on page 2

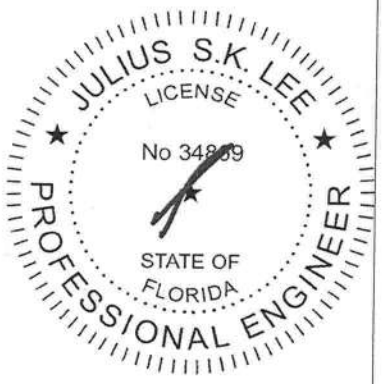
Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	HJ9	MONO TRUSS	4	1		I4741379
Builders FrstSource, Lake City, FL 32055					Job Reference (optional)	

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 8=79(F=40, B=40) 9=76(F=38, B=38) 10=-79(F=-40, B=-40) 11=11(F=5, B=5) 12=-6(F=-3, B=-3) 13=-26(F=-13, B=-13)



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741380
373452	T01	HIP	2	3	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

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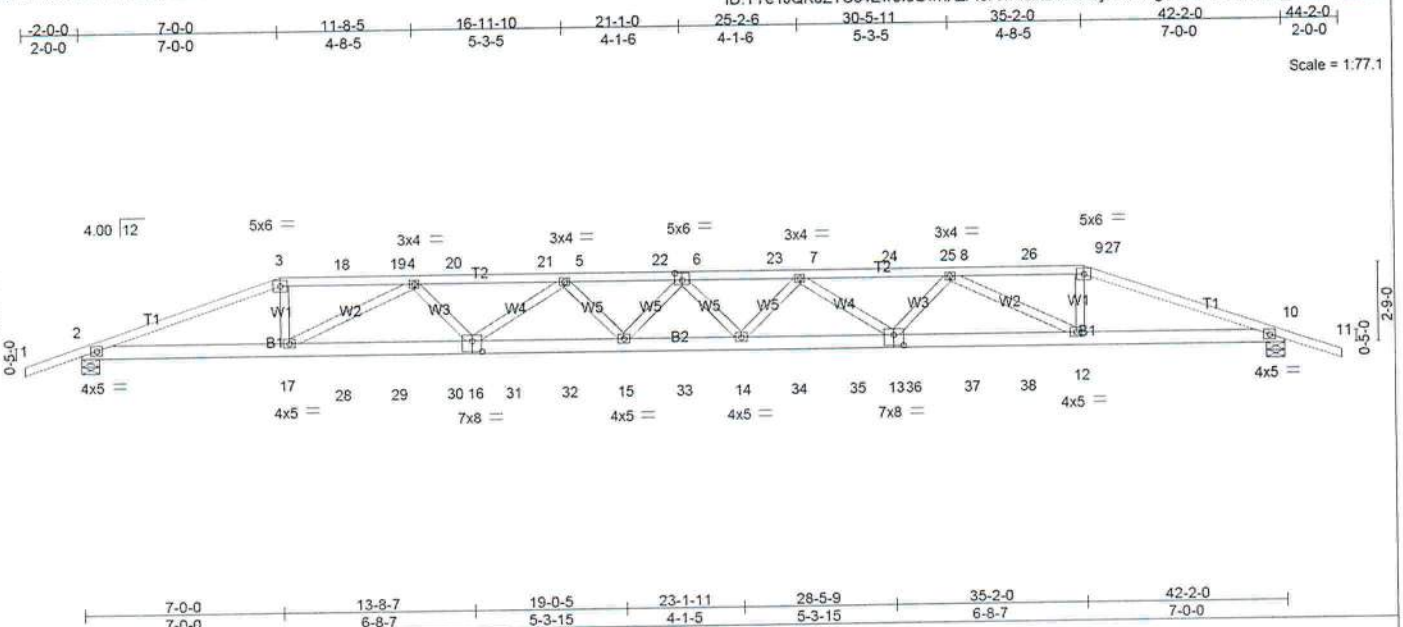


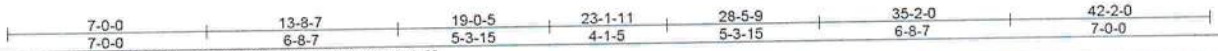


Plate Offsets (X,Y): [6:0-3-0,0-3-0], [13:0-4-0,0-4-8], [16:0-4-0,0-4-8]

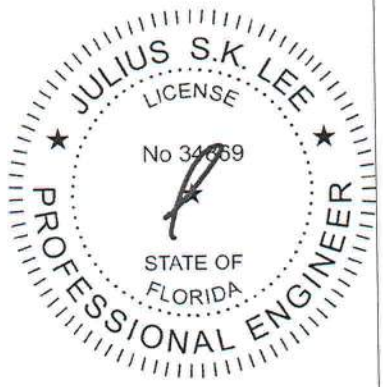
LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.26	Vert(LL)	-0.46	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.89	14-15	>559	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(TL)	0.12	10	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.48	14-15	>999	240	Weight: 678 lb	FT = 20%

LUMBER
TOP CHORD 2 X 4 SYP No.2
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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=2648/0-7-8, 10=2648/0-7-8
Max Horz 2=63(LC 5)
Max Uplift2=-1199(LC 3), 10=-1197(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6875/2872, 3-18=-6524/2776, 18-19=-6524/2776, 4-19=-6524/2775, 4-20=-10159/4164, 20-21=-10159/4164, 5-21=-10159/4164, 5-22=-11491/4694, 6-22=-11491/4694, 6-23=-11491/4691, 7-23=-11491/4691, 7-24=-10159/4155, 24-25=-10159/4155, 8-25=-10159/4155, 8-26=-6524/2771, 26-27=-6524/2771, 9-27=-6525/2771, 9-10=-6876/2867
BOT CHORD 2-17=-2656/6417, 17-28=-3845/9359, 28-29=-3845/9359, 29-30=-3845/9359, 16-30=-3845/9359, 16-31=-4566/11242, 31-32=-4566/11242, 15-32=-4566/11242, 15-33=-4706/11651, 14-33=-4706/11651, 14-34=-4559/11242, 34-35=-4559/11242, 13-35=-4559/11242, 13-36=-3834/9359, 36-37=-3834/9359, 37-38=-3834/9359, 12-38=-3834/9359, 10-12=-2637/6417
WEBS 3-17=-609/1766, 4-17=-3269/1311, 4-16=-367/1263, 5-16=-1365/609, 5-15=-76/423, 6-15=-271/152, 6-14=-263/150, 7-14=-74/423, 7-13=-1354/606, 8-13=-365/1255, 8-12=-3256/1308, 9-12=-607/1759



NOTES (12-13)
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SYP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1199 lb uplift at joint 2 and 1197 lb uplift at joint 10.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

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Continued on page 2

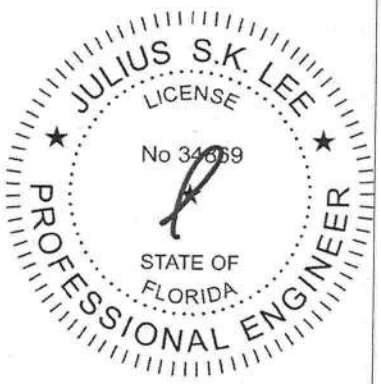
Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

NOTES (12-13)

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 197 lb down and 203 lb up at 7-0-0, 97 lb down and 76 lb up at 9-0-12, 97 lb down and 76 lb up at 11-0-12, 97 lb down and 76 lb up at 13-0-12, 97 lb down and 76 lb up at 15-0-12, 97 lb down and 76 lb up at 17-0-12, 97 lb down and 76 lb up at 19-0-12, 97 lb down and 76 lb up at 21-1-0, 97 lb down and 76 lb up at 23-1-4, 97 lb down and 76 lb up at 25-1-4, 97 lb down and 76 lb up at 27-1-4, 97 lb down and 76 lb up at 29-1-4, 97 lb down and 76 lb up at 31-1-4, and 97 lb down and 76 lb up at 33-1-4, and 237 lb down and 203 lb up at 35-2-0 on top chord, and 246 lb down and 68 lb up at 7-0-0, 63 lb down at 9-0-12, 63 lb down at 11-0-12, 63 lb down at 13-0-12, 63 lb down at 15-0-12, 63 lb down at 17-0-12, 63 lb down at 19-0-12, 63 lb down at 21-1-0, 63 lb down at 23-1-4, 63 lb down at 25-1-4, 63 lb down at 27-1-4, 63 lb down at 29-1-4, 63 lb down at 31-1-4, and 63 lb down at 33-1-4, and 246 lb down and 68 lb up at 35-1-4 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

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-9=-54, 9-11=-54, 2-10=-10
   Concentrated Loads (lb)
   Vert: 3=-197(B) 6=-97(B) 9=-197(B) 17=-176(B) 5=-97(B) 15=-29(B) 14=-29(B) 7=-97(B) 12=-176(B) 18=-97(B) 19=-97(B) 20=-97(B) 21=-97(B) 22=-97(B) 23=-97(B) 24=-97(B) 25=-97(B) 26=-97(B) 27=-97(B) 28=-29(B) 29=-29(B) 30=-29(B) 31=-29(B) 32=-29(B) 33=-29(B) 34=-29(B) 35=-29(B) 36=-29(B) 37=-29(B) 38=-29(B)



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741381
373452	T02	HIP	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

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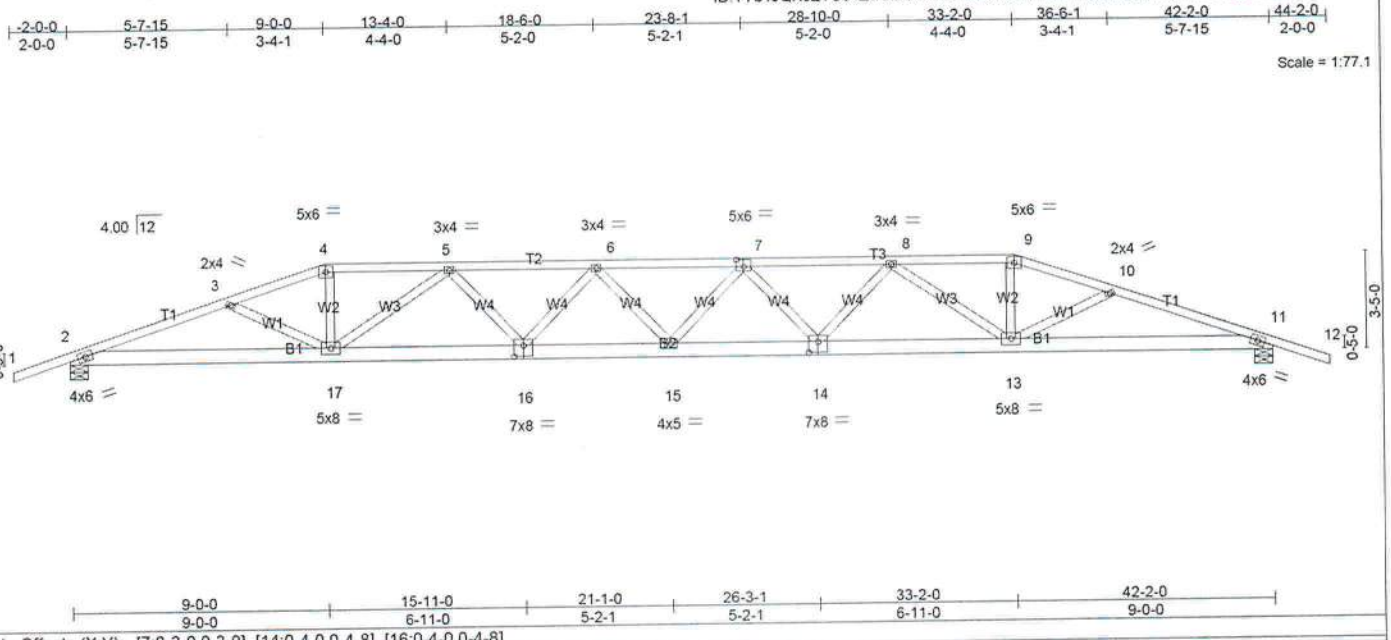


Plate Offsets (X,Y): [7:0-3-0,0-3-0], [14:0-4-0,0-4-8], [16:0-4-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.51	Vert(LL)	-0.46	15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.47	Vert(TL)	-0.88	15	>567	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.15	11	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.67	15	>743	240	Weight: 236 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-11 oc bracing.

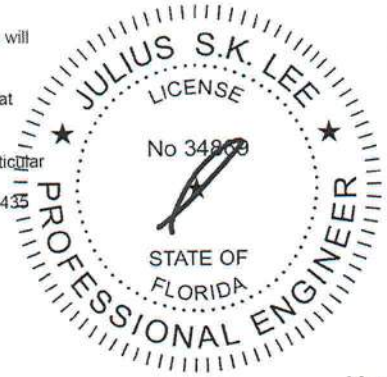
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1454/0-7-8, 11=1454/0-7-8
Max Horz 2=73(LC 6)
Max Uplift 2=-636(LC 4), 11=-636(LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3371/2322, 3-4=-3148/2160, 4-5=-2994/2103, 5-6=-4171/2926, 6-7=-4446/3111, 7-8=-4171/2926, 8-9=-2994/2103, 9-10=-3148/2160, 10-11=-3371/2322
BOT CHORD 2-17=-2047/3121, 16-17=-2487/3862, 15-16=-2875/4428, 14-15=-2875/4428, 13-14=-2487/3862, 11-13=-2047/3121
WEBS 4-17=-497/791, 5-17=-1130/788, 5-16=-287/518, 6-16=-441/312, 7-14=-441/312, 8-14=-287/518, 8-13=-1130/788, 9-13=-497/791

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 636 lb uplift at joint 2 and 636 lb uplift at joint 11.
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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	T03	HIP	2	1		I4741382

Builders FrstSource, Lake City, FL 32055

Job Reference (optional)

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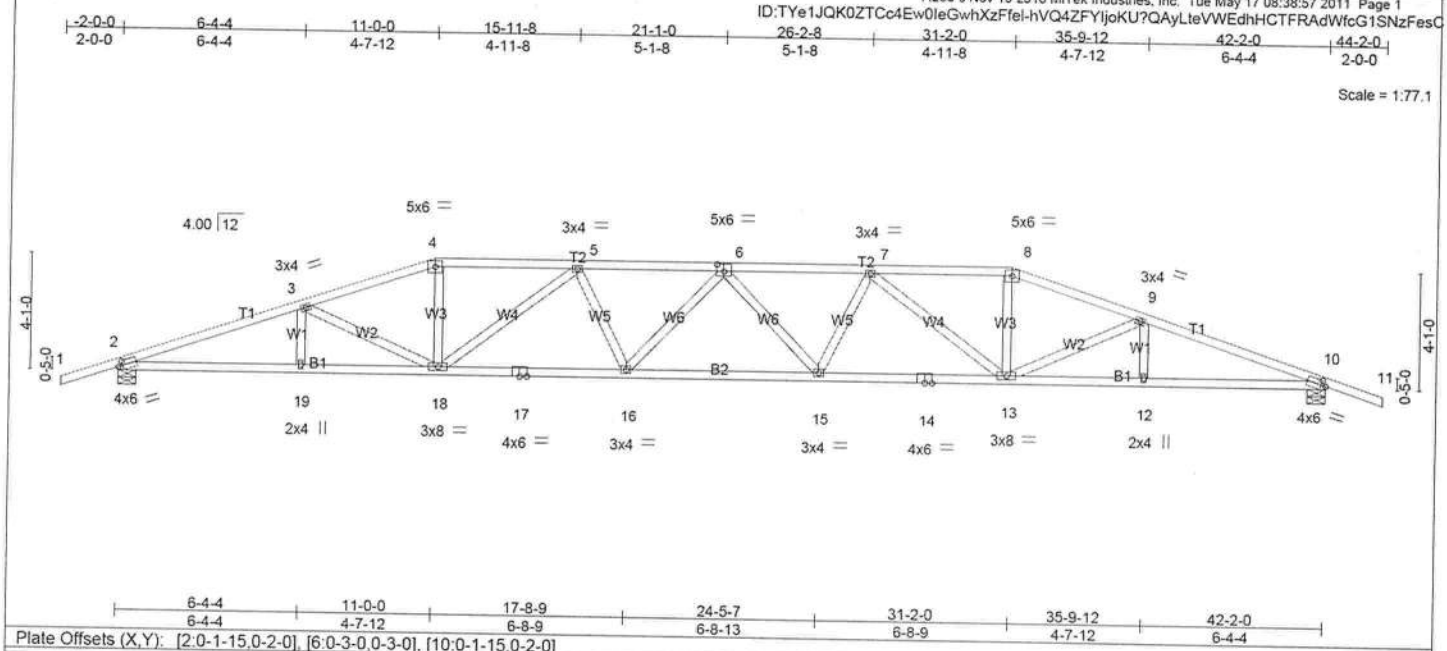

Plate Offsets (X,Y): [2:0-1-15,0-2-0], [6:0-3-0,0-3-0], [10:0-1-15,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.41	15-16	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.80	15-16	>626	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.20	10	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.60	15-16	>835	240	Weight: 208 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-5-0 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=1454/0-7-8, 10=1454/0-7-8
Max Horz 2=80(LC 6)
Max Uplift2=-631(LC 4), 10=-631(LC 5)

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

TOP CHORD 2-3=-3304/2252, 3-4=-2956/2093, 4-5=-2789/2040, 5-6=-3499/2512, 6-7=-3499/2512, 7-8=-2789/2040, 8-9=-2956/2093, 9-10=-3304/2252

BOT CHORD 2-19=-1973/3043, 18-19=-1973/3043, 17-18=-2182/3405, 16-17=-2182/3405, 15-16=-2332/3620, 14-15=-2182/3405, 13-14=-2182/3405, 12-13=-1973/3043, 10-12=-1973/3043

WEBS 3-18=-319/266, 4-18=-434/685, 5-18=-877/553, 5-16=-91/280, 6-16=-251/168, 6-15=-251/168, 7-15=-91/280, 7-13=-877/553, 8-13=-434/685, 9-13=-319/266

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 631 lb uplift at joint 2 and 631 lb uplift at joint 10.
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

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741383
373452	T04	HIP	2	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

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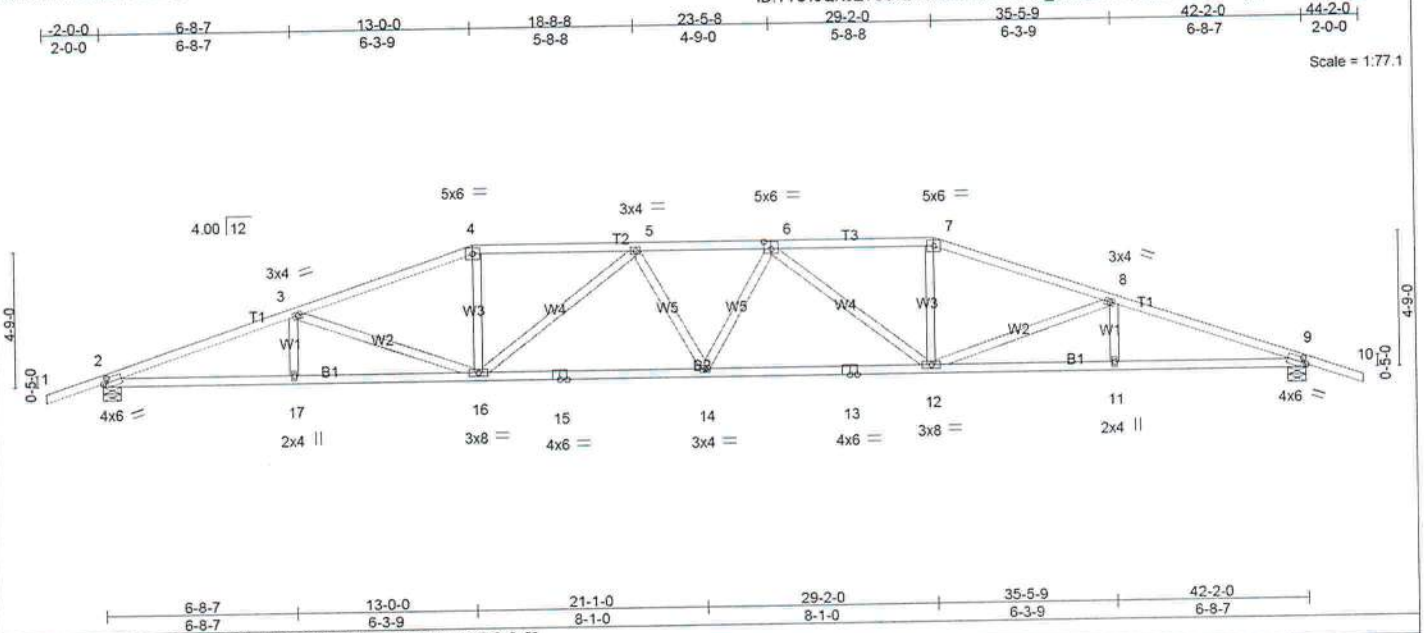

Plate Offsets (X,Y): [2:0-1-15,0-2-0], [6:0-3-0,0-3-0], [9:0-1-15,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	-0.35	14	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.46	Vert(TL)	-0.67	14-16	>739	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.19	9	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.51	14	>981	240	Weight: 207 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-7 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=1454/0-7-8, 9=1454/0-7-8
Max Horz 2=89(LC 6)
Max Uplift2=-625(LC 4), 9=-625(LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3322/2298, 3-4=-2823/2019, 4-5=-2641/1979, 5-6=-3065/2255, 6-7=-2641/1979, 7-8=-2823/2019, 8-9=-3322/2298
BOT CHORD 2-17=-2017/3064, 16-17=-2017/3064, 15-16=-1936/3045, 14-15=-1936/3045, 13-14=-1936/3045, 12-13=-1936/3045, 11-12=-2017/3064, 9-11=-2017/3064
WEBS 3-16=-483/408, 4-16=-340/566, 5-16=-653/372, 6-12=-653/372, 7-12=-340/566, 8-12=-483/408

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 625 lb uplift at joint 2 and 625 lb uplift at joint 9.
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

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	T05	HIP	2	1		I4741384

Builders FrstSource, Lake City, FL 32055

Job Reference (optional)

7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:38:59 2011 Page 1

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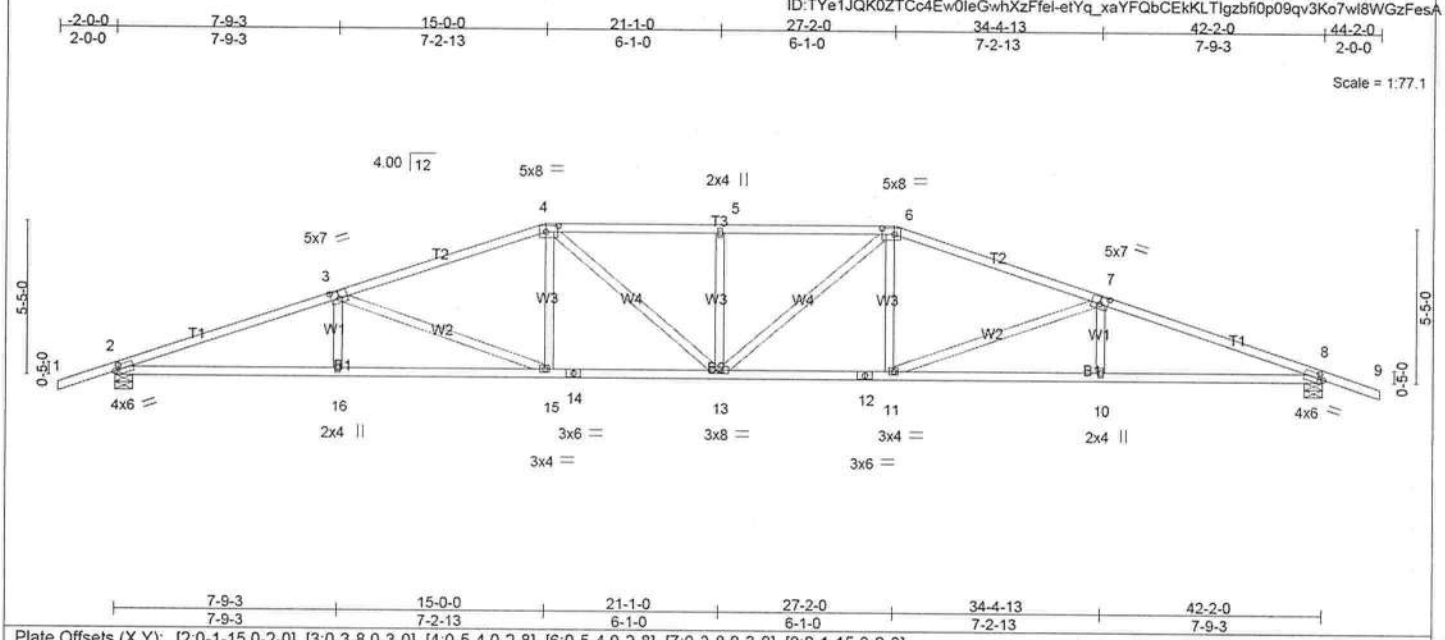


Plate Offsets (X,Y): [2:0-1-15,0-2-0], [3:0-3-8,0-3-0], [4:0-5-4,0-2-8], [6:0-5-4,0-2-8], [7:0-3-8,0-3-0], [8:0-1-15,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.32	13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.49	Vert(TL)	-0.60	13	>829	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.18	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.47	13	>999	240	Weight: 208 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-3 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=1454/0-7-8, 8=1454/0-7-8
Max Horz 2=-99(LC 7)
Max Uplift2=-617(LC 4), 8=-617(LC 5)

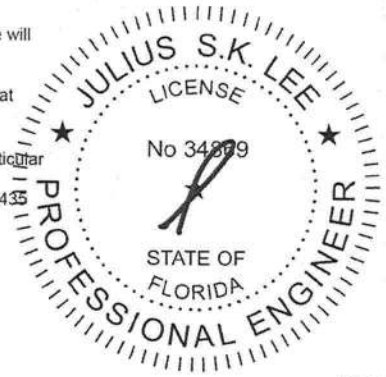
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3313/2321, 3-4=-2660/1940, 4-5=-2703/2066, 5-6=-2703/2066, 6-7=-2660/1940, 7-8=-3313/2321
BOT CHORD 2-16=-2033/3054, 15-16=-2033/3054, 14-15=-1528/2467, 13-14=-1528/2467, 12-13=-1528/2467, 11-12=-1528/2467, 10-11=-2033/3054, 8-10=-2033/3054
WEBS 3-15=-650/542, 4-15=-156/357, 4-13=-212/484, 5-13=-363/313, 6-13=-212/484, 6-11=-156/357, 7-11=-650/542

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 617 lb uplift at joint 2 and 617 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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741385
373452	T06	HIP	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

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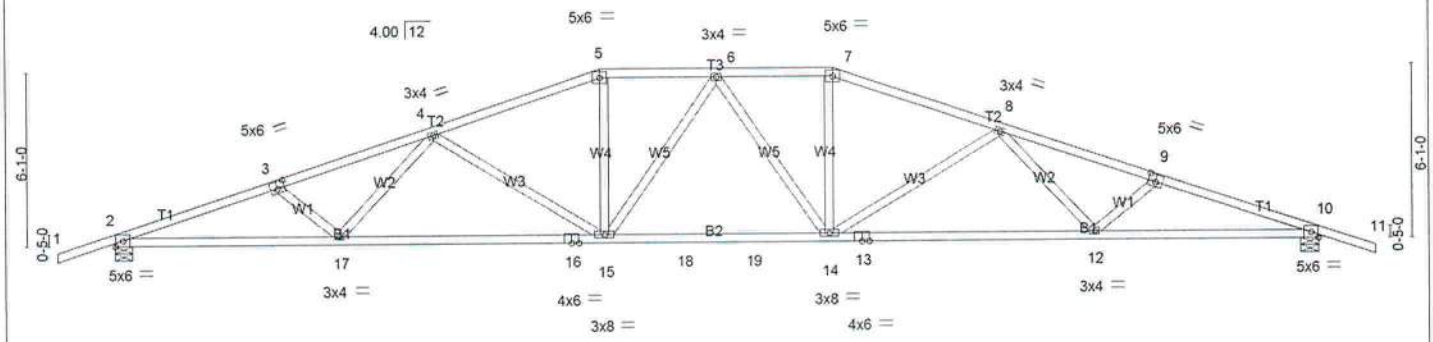
ID:TYe1JQK0ZTCc4Ew0leGwhXzFfel-645CCGbB0jj3suvX00CC7sFC5QU6eYQyMaVh3izFes9

-2-0-0	5-8-11	11-1-13	17-0-0	21-1-0	25-2-0	31-0-3	36-5-5	42-2-0	44-2-0
2-0-0	5-8-11	5-5-2	5-10-3	4-1-0	4-1-0	5-10-3	5-5-2	5-8-11	2-0-0

Scale = 1:77.1



7-10-4	17-0-0	25-2-0	34-3-12	42-2-0
7-10-4	9-1-12	8-2-0	9-1-12	7-10-4

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.40	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.67	14-15	>741	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.18	10	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.43	15-17	>999	240	Weight: 214 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-9 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=1502/0-7-8, 10=1502/0-7-8
Max Horz 2=109(LC 6)
Max Uplift 2=-609(LC 4), 10=-609(LC 5)

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

TOP CHORD 2-3=-3434/2349, 3-4=-3263/2264, 4-5=-2616/1855, 5-6=-2443/1816, 6-7=-2443/1816, 7-8=-2616/1855, 8-9=-3263/2264, 9-10=-3434/2349

BOT CHORD 2-17=-2065/3165, 16-17=-1844/2906, 15-16=-1844/2906, 15-18=-1464/2516, 18-19=-1464/2516, 14-19=-1464/2516, 13-14=-1844/2906, 12-13=-1844/2906, 10-12=-2065/3165

WEBS 4-17=-100/347, 4-15=-576/538, 5-15=-339/556, 6-15=-304/121, 6-14=-304/121, 7-14=-339/556, 8-14=-576/538, 8-12=-100/347

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 609 lb uplift at joint 2 and 609 lb uplift at joint 10.
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

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

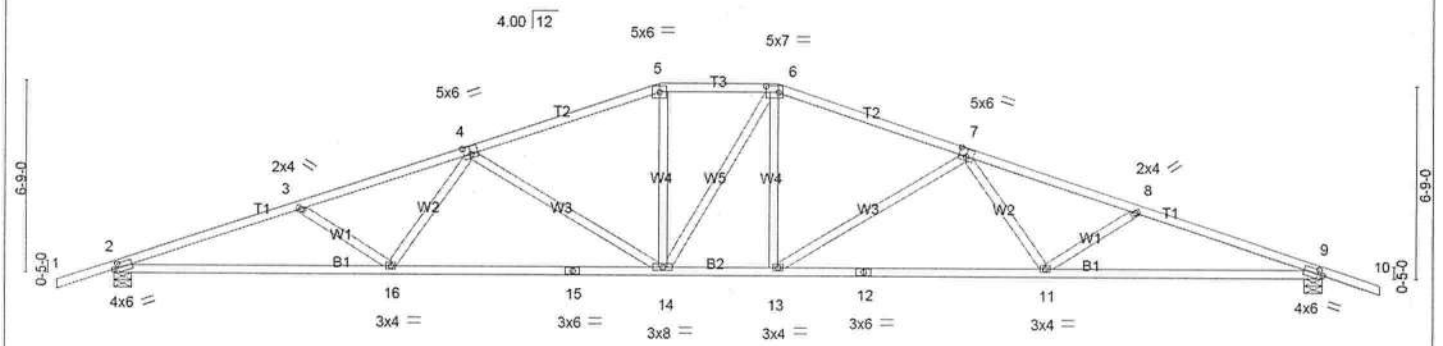
Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	T07	HIP	2	1	Job Reference (optional)	I4741386

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:39:01 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0IeGwhXzFfel-aGfbPccpm1rwT1TjajjRg4oLfqn_Nxa5aEEEb8zFes8

-2-0-0	6-6-7	12-5-4	19-0-0	23-2-0	29-8-12	35-7-9	42-2-0	44-2-0
2-0-0	6-6-7	5-10-13	6-6-12	4-2-0	6-6-12	5-10-13	6-6-7	2-0-0

Scale = 1:77.1



9-8-1	19-0-0	23-2-0	32-5-15	42-2-0
9-8-1	9-3-15	4-2-0	9-3-15	9-8-1

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.58	Vert(LL)	-0.31	11-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.70	Vert(TL)	-0.66	11-13	>752	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(TL)	0.20	9	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.46	11-13	>999	240	Weight: 213 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-3-1 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=1454/0-7-8, 9=1454/0-7-8
Max Horz 2=118(LC 6)
Max Uplift 2=-599(LC 4), 9=-599(LC 5)

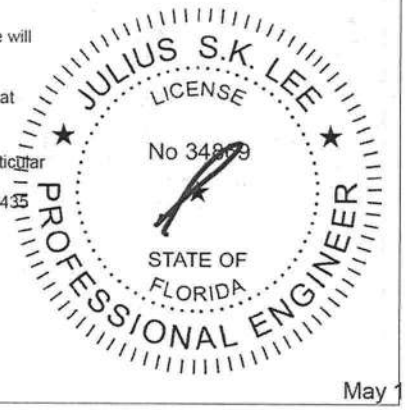
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3294/2391, 3-4=-3038/2230, 4-5=-2282/1767, 5-6=-2116/1736, 6-7=-2282/1767, 7-8=-3039/2230, 8-9=-3295/2391
BOT CHORD 2-16=-2102/3036, 15-16=-1792/2683, 14-15=-1792/2683, 13-14=-1278/2115, 12-13=-1792/2683, 11-12=-1792/2683, 9-11=-2102/3036
WEBS 3-16=-263/298, 4-16=-116/391, 4-14=-694/617, 5-14=-297/431, 6-13=-297/436, 7-13=-695/618, 7-11=-116/391, 8-11=-263/298

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=16ft; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 599 lb uplift at joint 2 and 599 lb uplift at joint 9.
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



May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741387
373452	T08	COMMON	6	1	Job Reference (optional)	

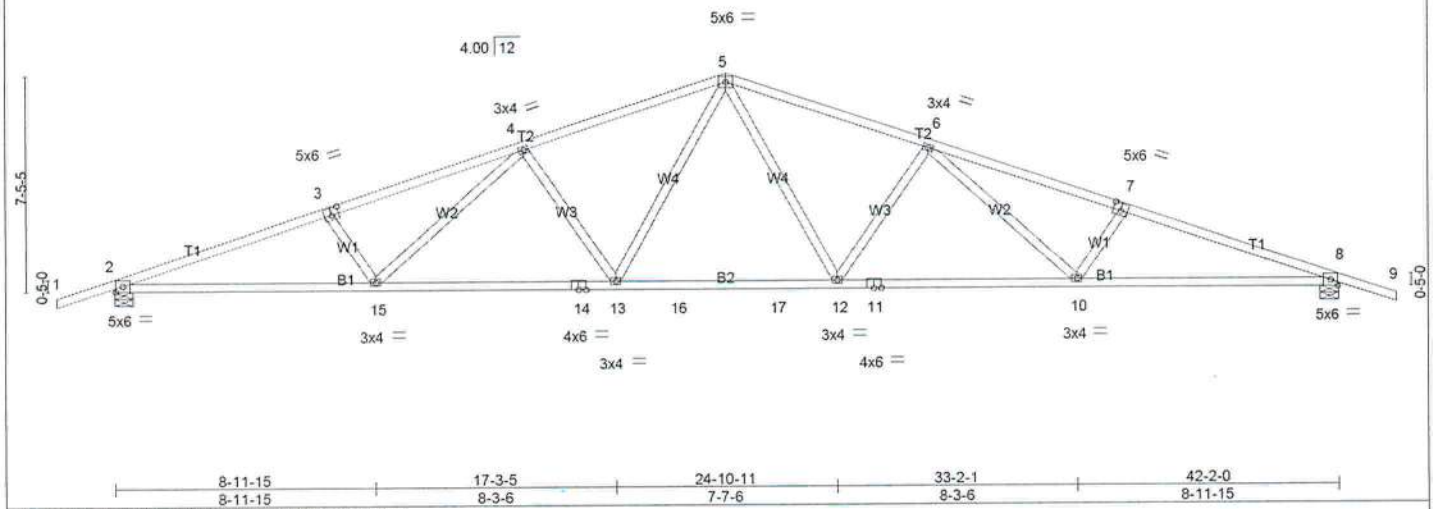
Builders FrstSource, Lake City, FL 32055

7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:39:01 2011 Page 1

ID:TYe1JQK0ZTCc4Ew0IeGwhXzFfeI-aGfbPccpm1rwT1TjajjRg4oLNqpcN_o5aEEEb8zFes8

-2-0-0	7-4-12	14-1-7	21-1-0	28-0-9	34-9-4	42-2-0	44-2-0
2-0-0	7-4-12	6-8-11	6-11-9	6-11-9	6-8-11	7-4-12	2-0-0

Scale = 1:75.9



8-11-15	17-3-5	24-10-11	33-2-1	42-2-0
8-11-15	8-3-6	7-7-6	8-3-6	8-11-15

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

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.43	12-13	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.53	Vert(TL)	-0.72	12-13	>692	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.17	8	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.45	13	>999	240	Weight: 204 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-1 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=1522/0-7-8, 8=1522/0-7-8
Max Horz 2=129(LC 6)
Max Uplift 2=-588(LC 4), 8=-588(LC 5)

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

TOP CHORD 2-3=-3482/2400, 3-4=-3297/2352, 4-5=-2633/1935, 5-6=-2633/1935, 6-7=-3297/2352, 7-8=-3482/2400
BOT CHORD 2-15=-2106/3211, 14-15=-1706/2752, 13-14=-1706/2752, 13-16=-1160/2097, 16-17=-1160/2097, 12-17=-1160/2097, 11-12=-1706/2752, 10-11=-1706/2752, 8-10=-2106/3211
WEBS 5-12=-495/741, 6-12=-593/573, 6-10=-319/466, 7-10=-281/326, 5-13=-495/741, 4-13=-593/573, 4-15=-319/466, 3-15=-281/326

NOTES (8-9)

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=16ft; 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, with BCDL = 5.0psf.
5) All bearings are assumed to be SYP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 588 lb uplift at joint 2 and 588 lb uplift at joint 8.
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

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

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	
373452	T09	HIP	1	1		I4741388

Builders FrstSource, Lake City, FL 32055

Job Reference (optional)

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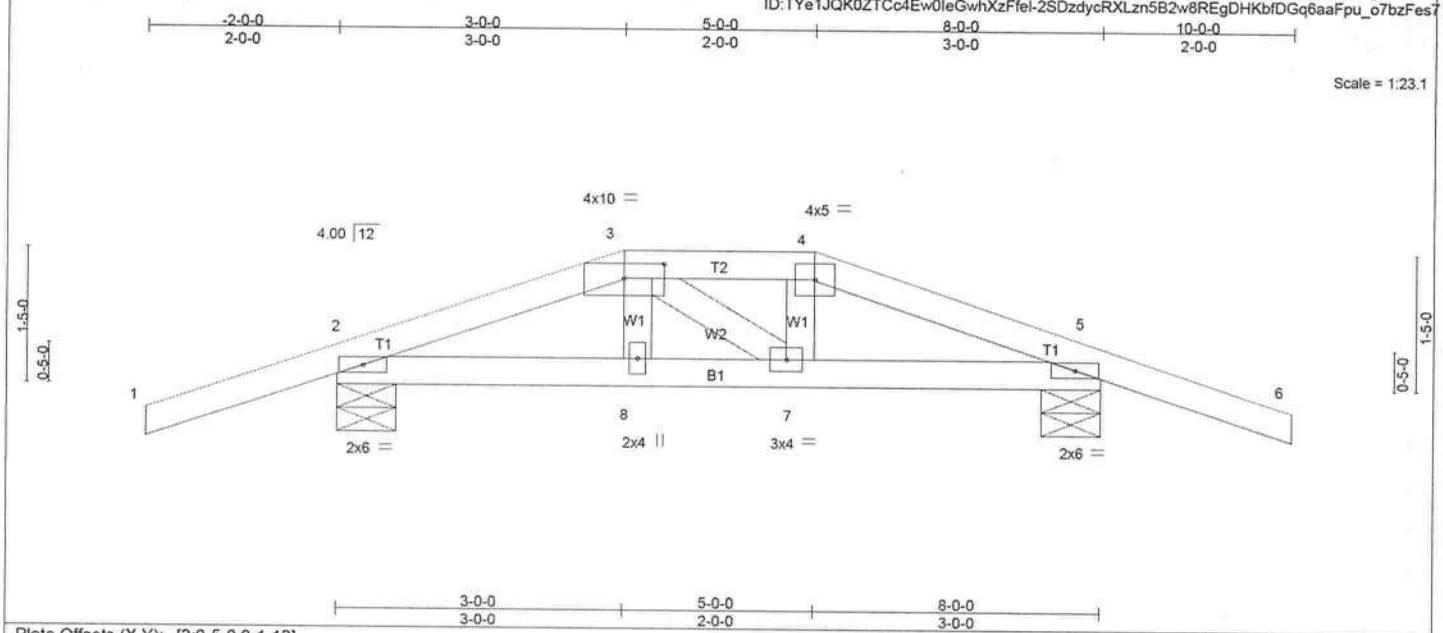

Plate Offsets (X,Y): [3:0-5-0,0-1-13]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.31	Vert(LL)	-0.00	8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(TL)	-0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.01	8	>999	240	Weight: 36 lb	FT = 20%

LUMBER

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

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=288/0-7-8, 5=288/0-7-8
Max Horz 2=41(LC 5)
Max Uplift 2=-398(LC 5), 5=-388(LC 6)
Max Grav 2=297(LC 9), 5=288(LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-215/388, 3-4=-202/388, 4-5=-216/401
BOT CHORD 2-8=-307/189, 7-8=-315/201, 5-7=-342/190

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=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 398 lb uplift at joint 2 and 388 lb uplift at joint 5.
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) 82 lb up at 3-0-0, and 82 lb up at 5-0-0 on top chord, and 27 lb down and 33 lb up at 3-0-0, and 27 lb down and 33 lb up at 4-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
12) 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=-54, 3-4=-54, 4-6=-54, 2-5=-10

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

Continued on page 2

May 17,2011

Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Job	Truss	Truss Type	Qty	Ply	BLAKE CONST. - FAMILY HEALTH DENTAL	I4741388
373452	T09	HIP	1	1	Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=82(F) 4=82(F) 8=-9(F) 7=-9(F)

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

May 17,2011

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. - FAMILY HEALTH DENTAL	
373452	T10	COMMON	2	1		I4741389
					Job Reference (optional)	

Builders FrstSource, Lake City, FL 32055 — 7.250 s Nov 19 2010 MiTek Industries, Inc. Tue May 17 08:39:03 2011 Page 1

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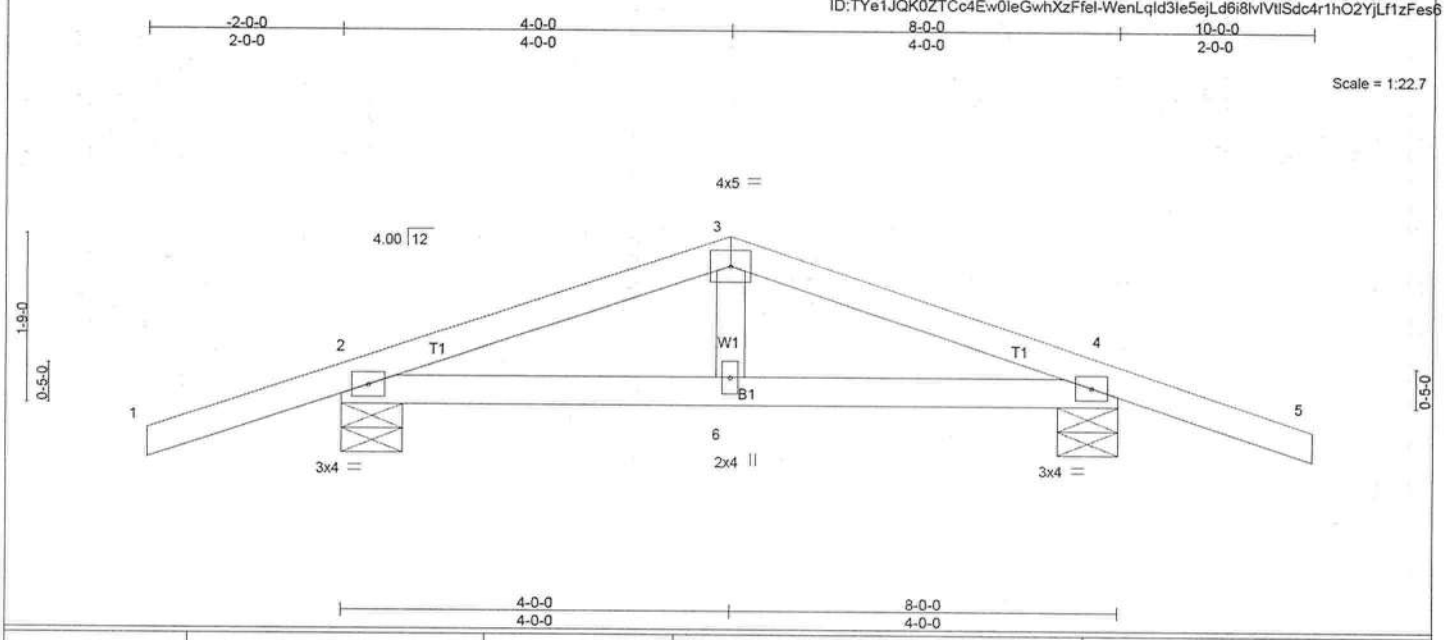


LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.08	Vert(TL)	-0.01	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2007/TPI2002		(Matrix)		Wind(LL)	0.02	2-6	>999	240	Weight: 33 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-1 oc bracing.

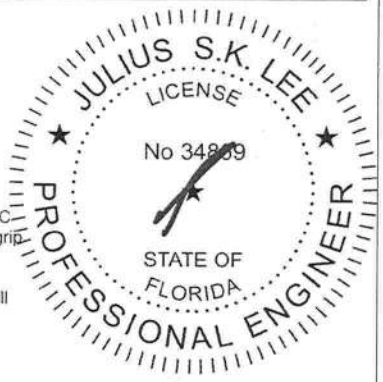
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=361/0-7-8, 4=361/0-7-8
Max Horz 2=-46(LC 7)
Max Uplift2=-335(LC 4), 4=-335(LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-270/589, 3-4=-270/589
BOT CHORD 2-6=-417/208, 4-6=-417/208

NOTES (8-9)
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=16ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 335 lb uplift at joint 2 and 335 lb uplift at joint 4.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.
9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

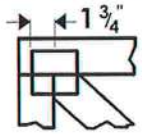


May 17,2011

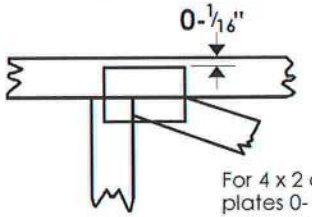
Julius Lee
1109 Coastal Bay Blvd.
Boynton, FL 33435

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

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

PLATE SIZE

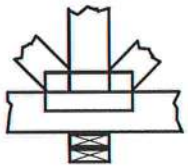
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

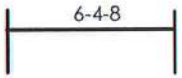


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

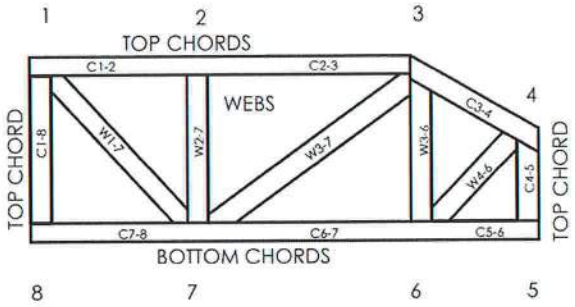
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

Julius Lee
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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

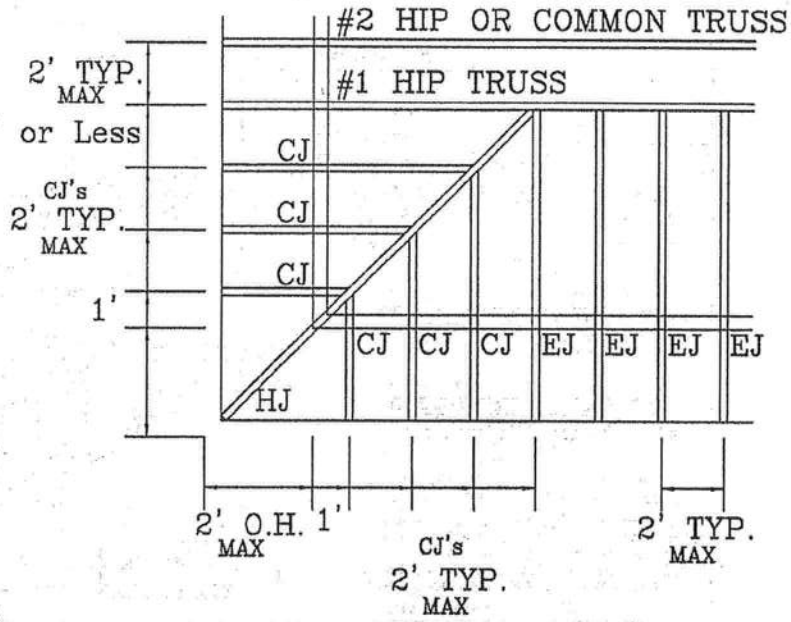
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

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

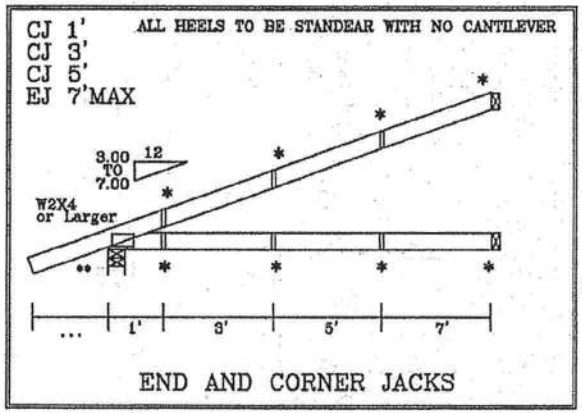
Setback 7' or Less



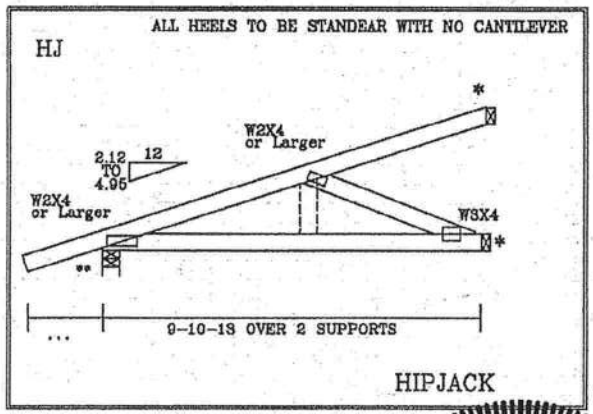
PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.
UPLIFT: 400# or Less
BRG LOC: *
UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT=28 FT. ENCLOSED. (ASCE 7-02)

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) GAL.V. 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 (D 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 CIVIL CONS. ENGINEERS, P.A. 1455 SW 4th AVENUE DELRAY BEACH, FL 33444-2161 NO. 54869 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: 110 – 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE B,C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	GRADE \ BRACE	NO BRACES	(1)1X4 "L","T" BRACE*		(1)2X4 "L","T" BRACE*		(2)2X4 "L","T" BRACE**		(1)2X6 "L","T" BRACE*		(2)2X6 "L","T" 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"	5' 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' 6"	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' 8"
		STUD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 6"
		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' 8"	4' 8"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	6' 4"	6' 10"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"
		STUD	3' 9"	5' 6"	5' 6"	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' 6"	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' 5"	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:

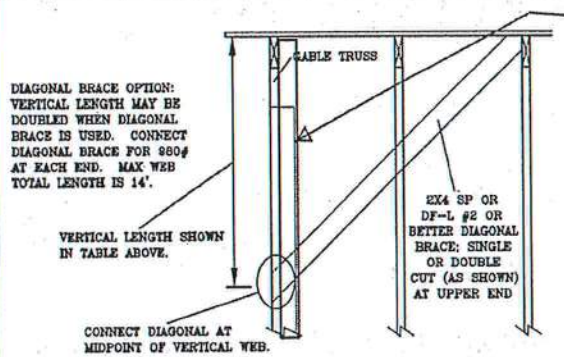
SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

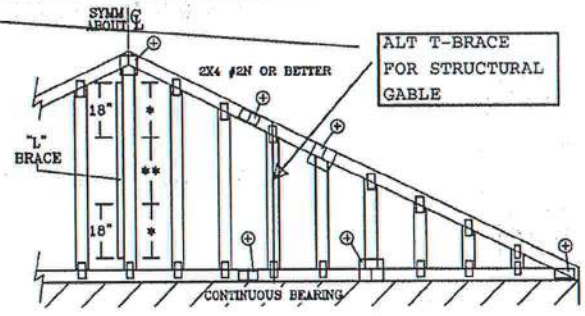
DOUGLAS FIR-LARCH	SOUTHERN PINE
#3	#3
STUD	STUD
STANDARD	STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

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





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 160 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

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

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

"L"or"T" BRACING MUST BE A MINIMUM OF 60% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0"	2X4

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

12/4/8

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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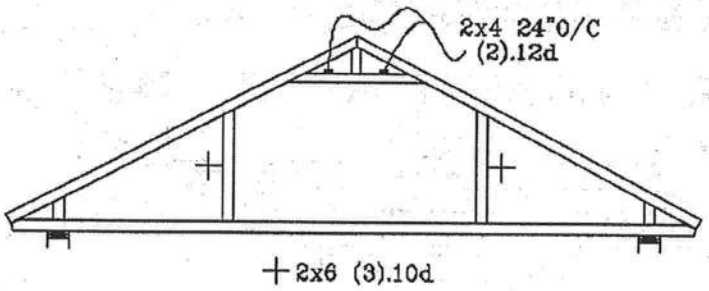
JULIUS LEE'S
CONS. ENGINEERS P.A.
1109 COASTAL BAY BLVD.
BOYNTON BEACH, FL. 33435

No: 34869
STATE OF FLORIDA

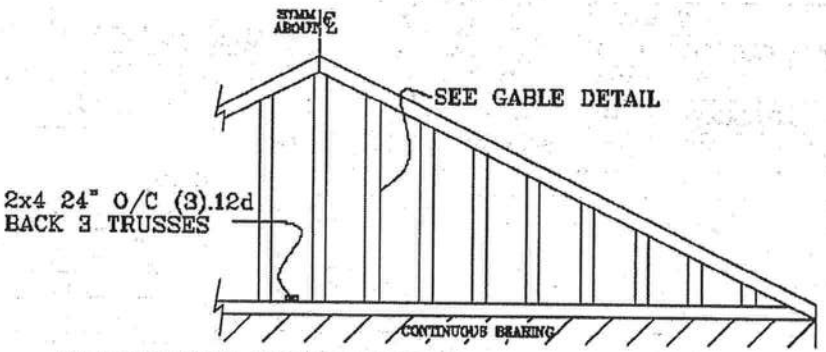
MAX LOADING
55 PSF AT 1.25 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
42 PSF AT 1.25 DUR. FAC.
MAX. SPACING 24.0"

REF	ASCE7-98-GAB13030
DATE	DEC./04/2008
DRWG	
-ENG	

TYPICAL ATTIC TRUSS BRACING

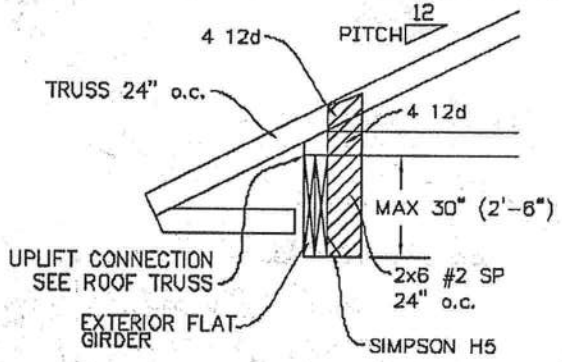


GABLE END TRUSS DETAIL



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

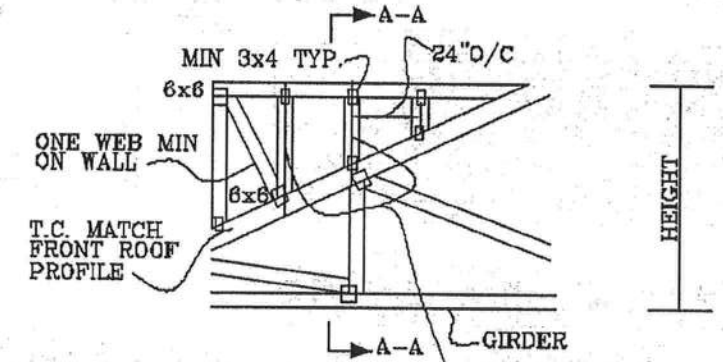
TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

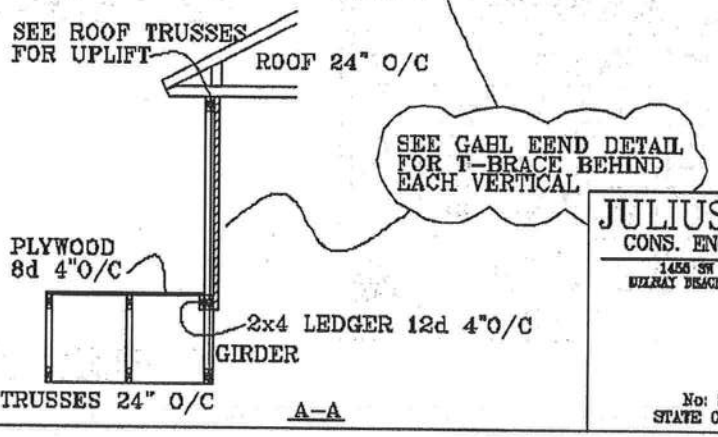


REVIEWED
By julius lee at 11:59 am, Jun 11, 2008

JULIUS LEE
LICENSE
NO. 34869
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL





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

No: 34869
STATE OF FLORIDA

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

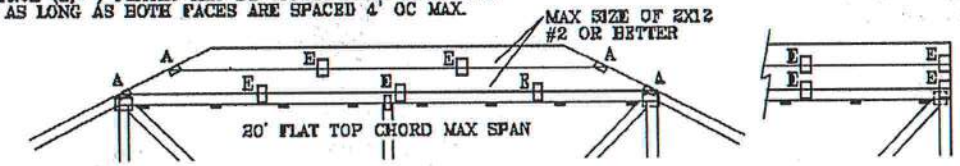
110 MPH WIND, 30' MEAN HGT, SEC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

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

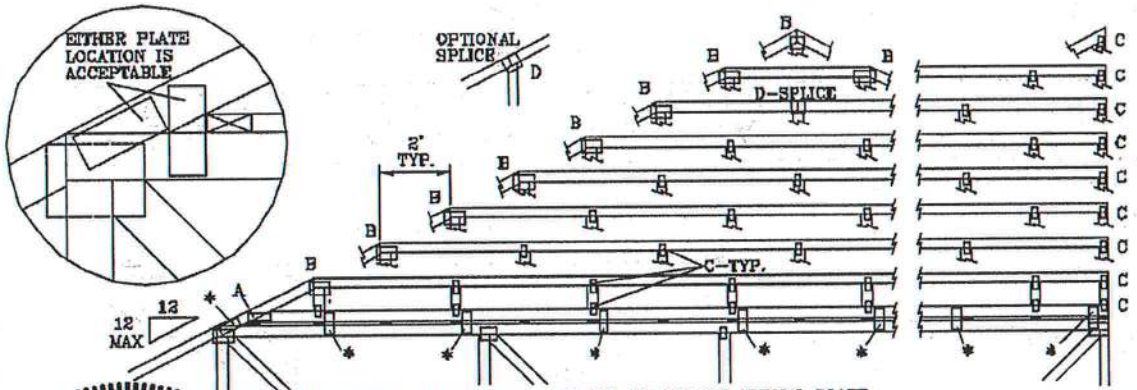
FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X6
B	4X6	5X8	5X8	5X8
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X8 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.



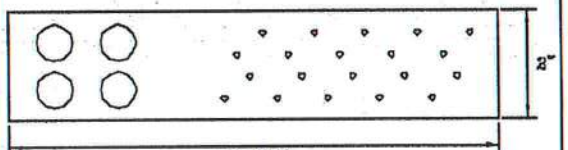
WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'8"	NO BRACING
7'8" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.



ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

* 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 & 647,045

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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.
1466 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

VALLEY TRUSS DETAIL

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

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

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

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

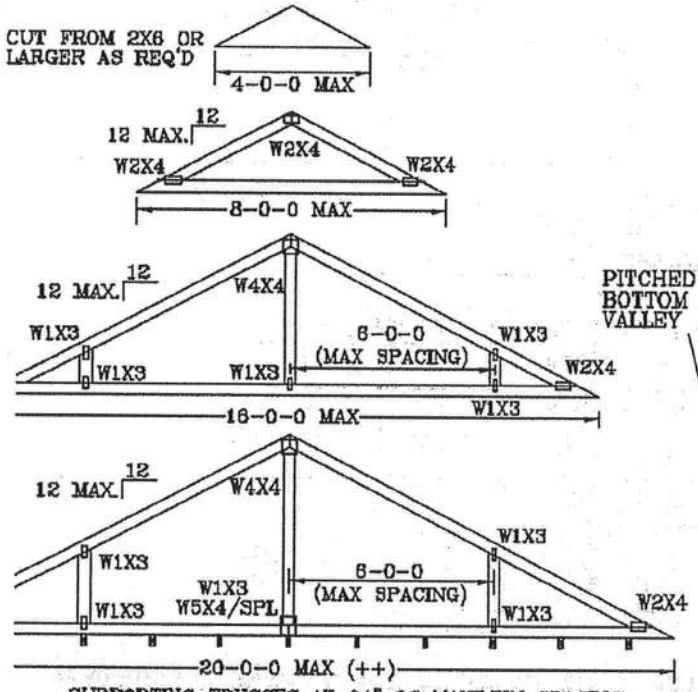
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

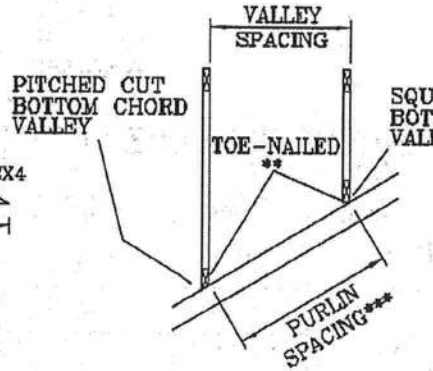
TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

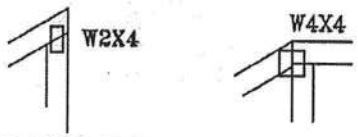
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

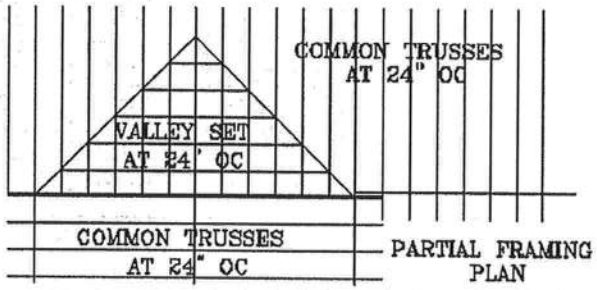
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.









SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.

THIS DRAWING REPLACES DRAWING A105

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

TC LL	20	20	PSF	REF VALLEY DETAIL
TC DL	7	15	PSF	DATE 11/26/08
BC DL	5	5	PSF	DRWG VALTRUSS1103
BC LL	0	0	PSF	-ENG JL
TOT. LD.	32	40	PSF	
DUR.FAC.	1.25	1.25		
SPACING		24"		

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."

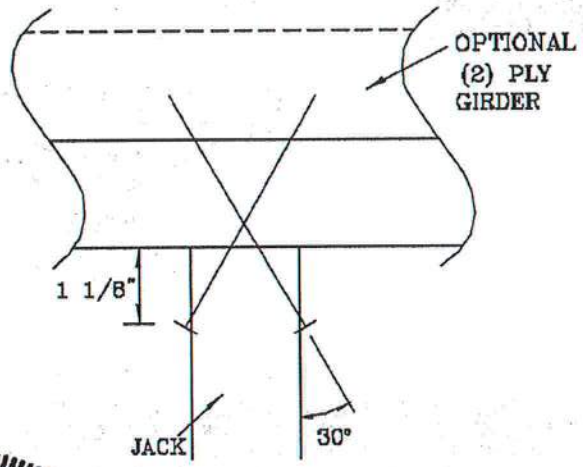
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

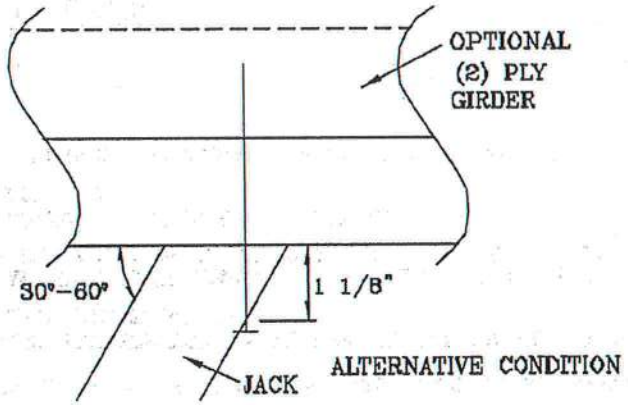
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

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

"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.
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		

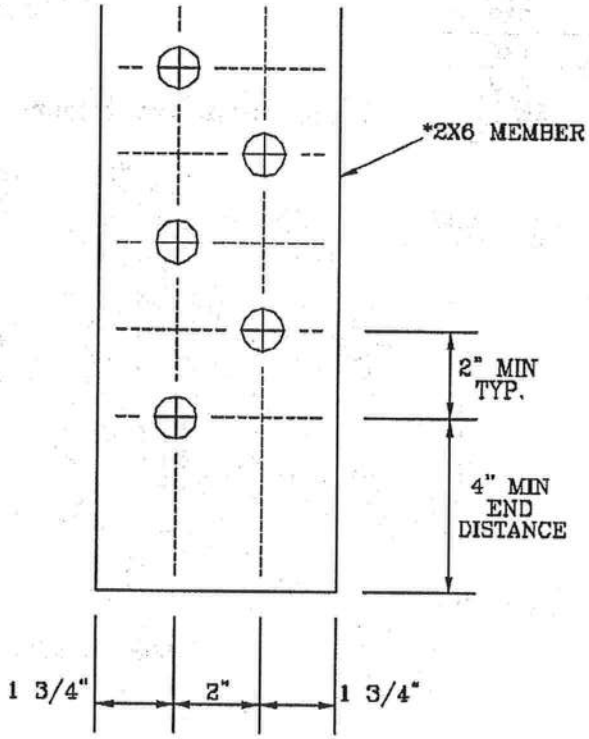
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

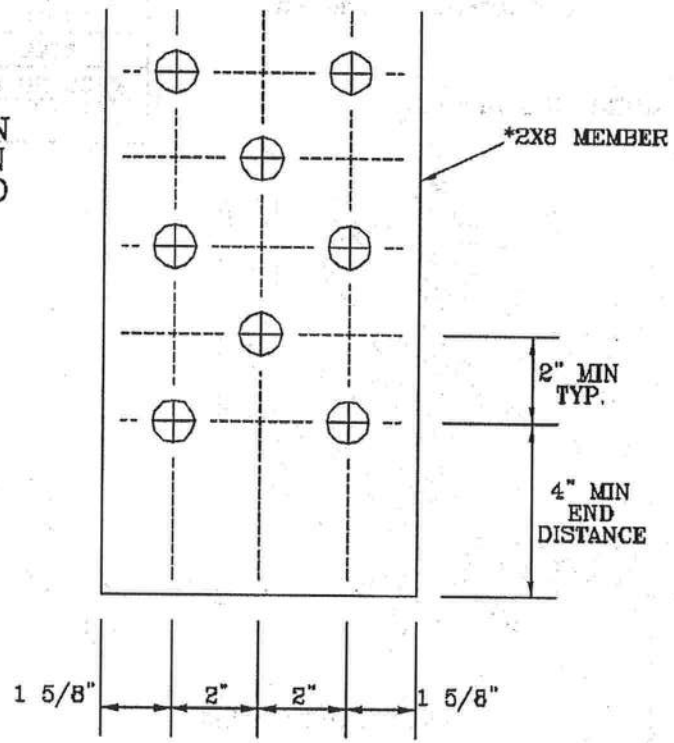
TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

DIRECTION OF GRAIN AND LOAD



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A828.016

JULIUS LEE LICENSE NO. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REVIEWED
By julius lee at 11:59 am, Jun 11, 2009

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

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

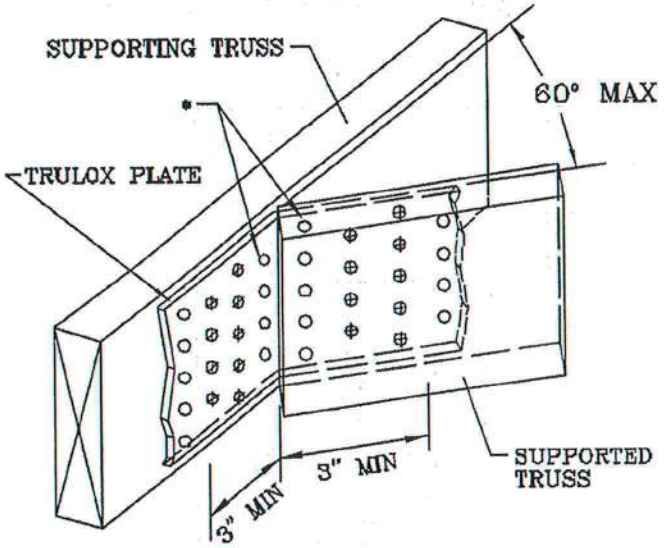
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

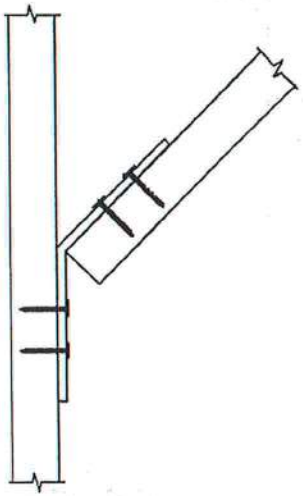
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

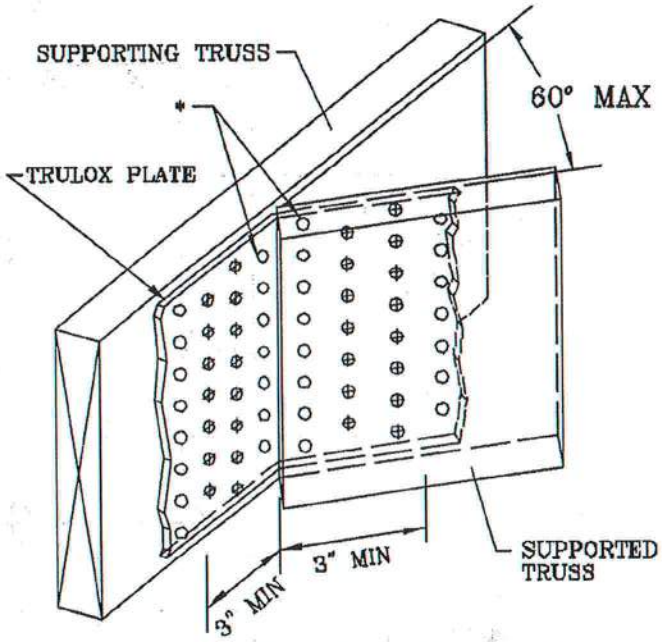
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

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#

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

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 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.

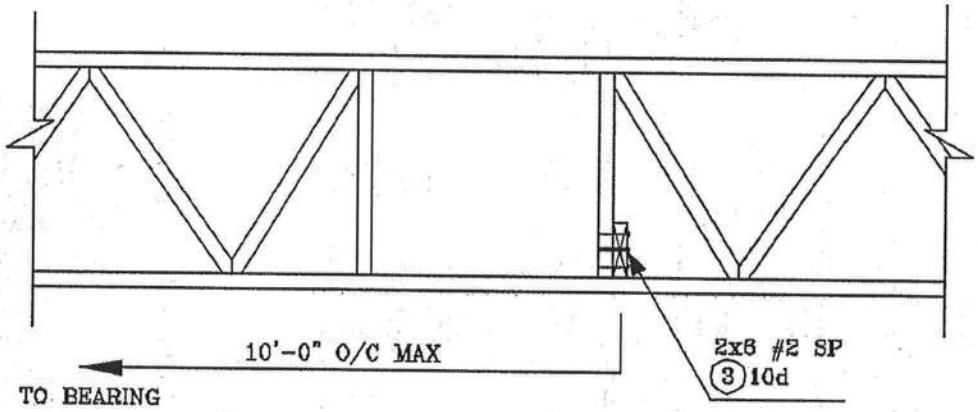
REVIEWED
By julius lee at 11:58 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-3161

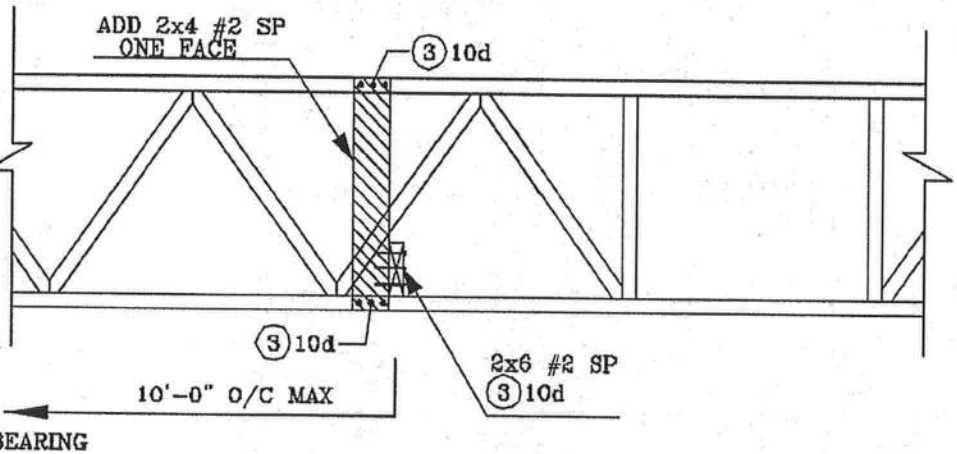
No: 34869
STATE OF FLORIDA

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

STRONG BACK DETAIL
SYSTEM–42 OR FLAT TRUSS



ALTERNATE DETAIL FOR
STRONG BACK WITH VERTICAL
NOT LINING UP



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

JULIUS LEE
LICENSE
NO. 34869
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PROFESSIONAL ENGINEER

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Uniform Load—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][3]	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"[3]	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[3]	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***
3¼" TrussLok[3]	2	24"	635	***475***	475	***425***		
		19.2"	795	***595***	595	***530***		
		16"	955	***715***	715	***635***		
5" TrussLok[3]	2	24"		500	500	***445***	***480***	***445***
		19.2"		625	625	***555***	***600***	***555***
		16"		750	750	***665***	***725***	***665***
6¾" TrussLok[3]	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.

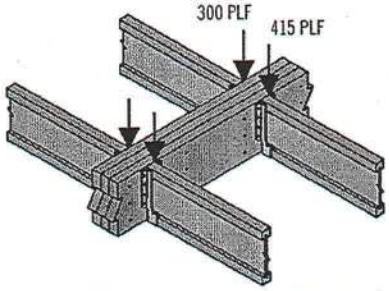
(3) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

(4) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

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

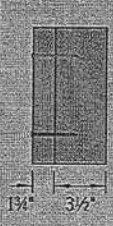
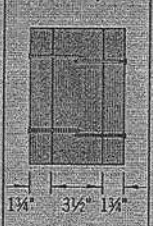
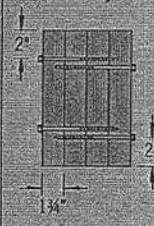


First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply, 1¾" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is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

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

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

Connector Type	Number of Connectors	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	6	1,110	835	835	740		
	12	2,225	1,670	1,670	1,485		
	18	3,335	2,505	2,505	2,225		
	24	4,450	3,335	3,335	2,965		
SDS Screws ¼" x 3½" or WS35 ¼" x 6" or WS6(1)	4	1,915	1,435(2)	1,435	1,275	1,860(3)	1,405(3)
	6	2,870	2,150(2)	2,150	1,915	2,785(3)	2,110(3)
	8	3,825	2,870(2)	2,870	2,550	3,715(3)	2,810(3)
3⅜" or 5" TrussLok™	4	2,545	1,910(2)	1,910	1,695	1,925(4)	1,775(4)
	6	3,815	2,860(2)	2,860	2,545	2,890(4)	2,665(4)
	8	5,090	3,815(2)	3,815	3,390	3,855(4)	3,550(4)

(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

See General Notes on page 38

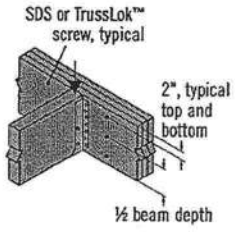
(2) 3½" and 3⅜" long screws must be installed on both sides.

(3) 6" long screws required.

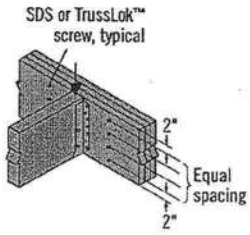
(4) 5" long screws required.

Point Load Connections

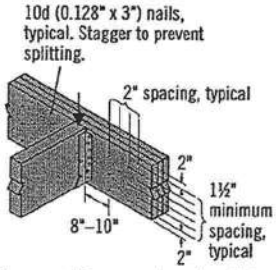
4- or 6-Screw Connection



8-Screw Connection

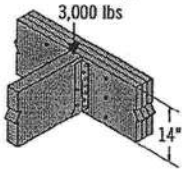


Nail Connection



There must be an equal number of nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply, 1¾" x 14" beam can support the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply, 1¾" assembly, eight 3⅜" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

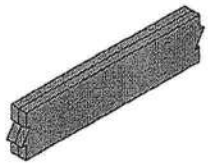
MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1¾"-Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for 14" or deeper.
- If using 12d–16d (0.148"–0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, WS, or TrussLok™ screws at 16" on-center. Use 3⅜" minimum length with two or three plies; 5" minimum for 4-ply members. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. For 3- or 4-ply members, connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

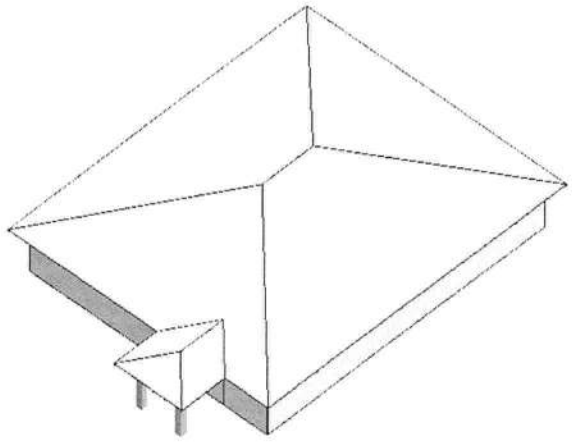
3½"-Wide Pieces

- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on opposite side of beam by ½ of the required connector spacing.
- Minimum of two rows of ½" bolts at 24" on-center staggered.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

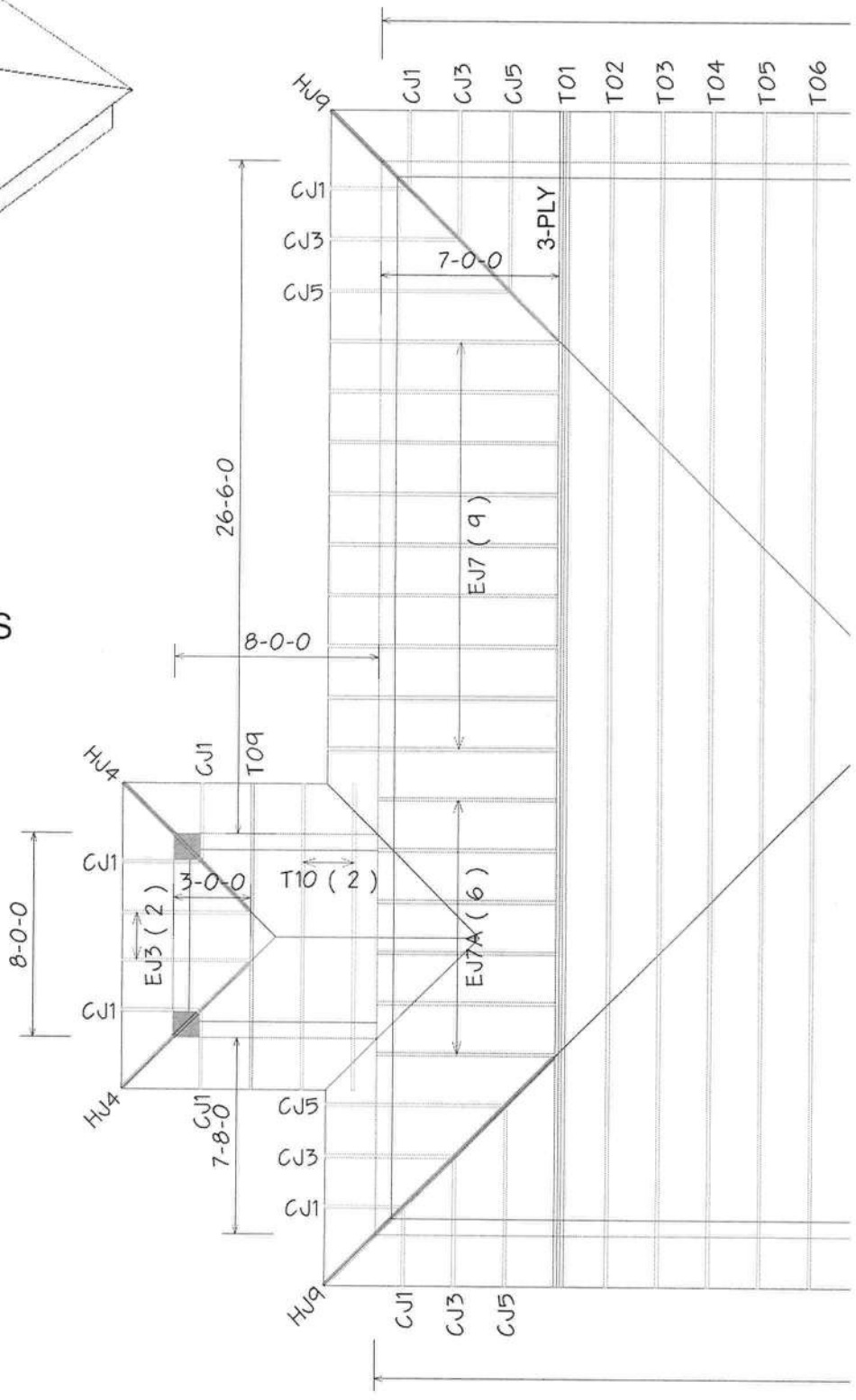


L6 ***Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"***

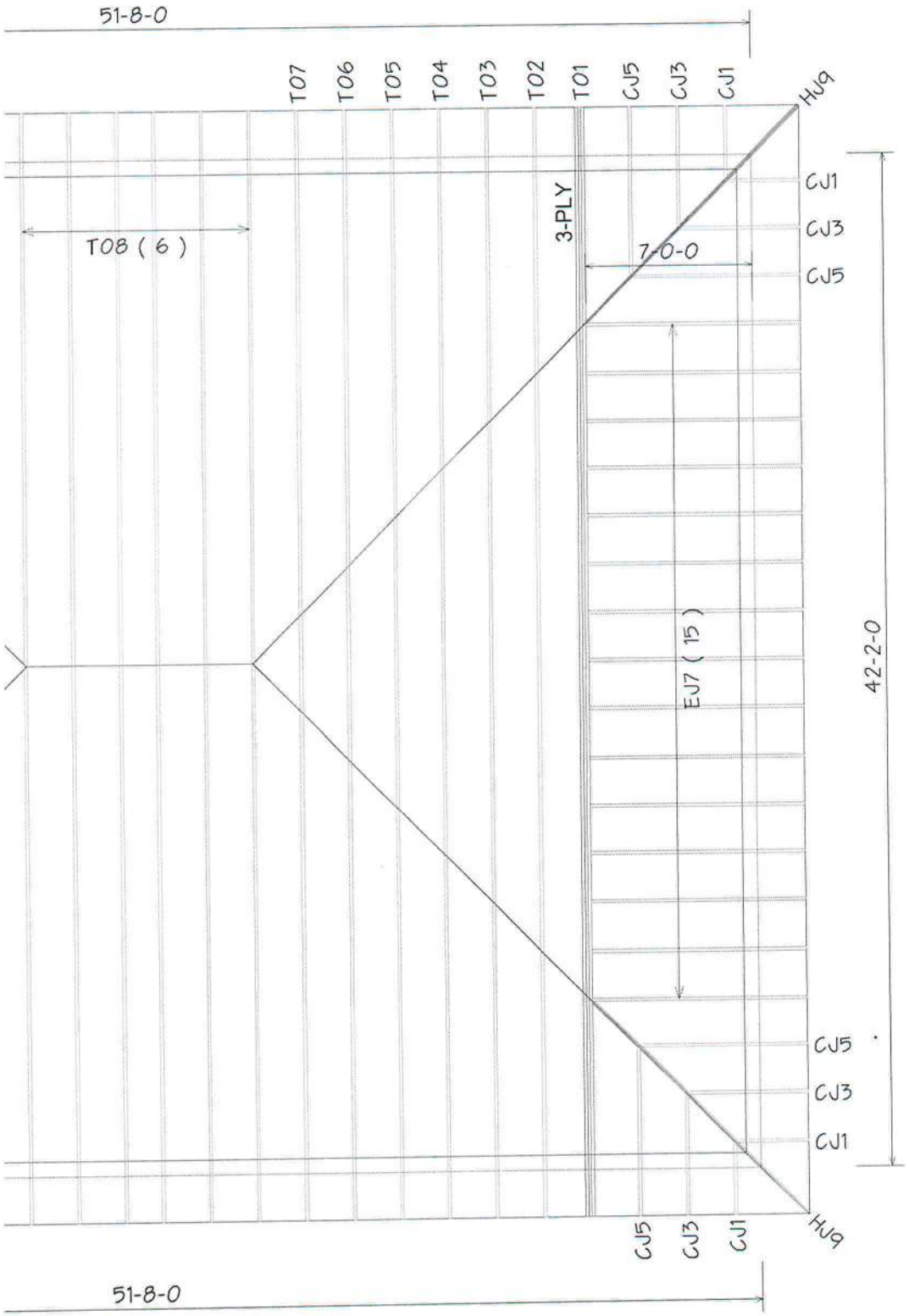
4/12



ALL FLAT CEILINGS



ITCH - 24" 0/H



BEARING HEIGHT SCHEDULE

8'-0"

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 PLACEMENT 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

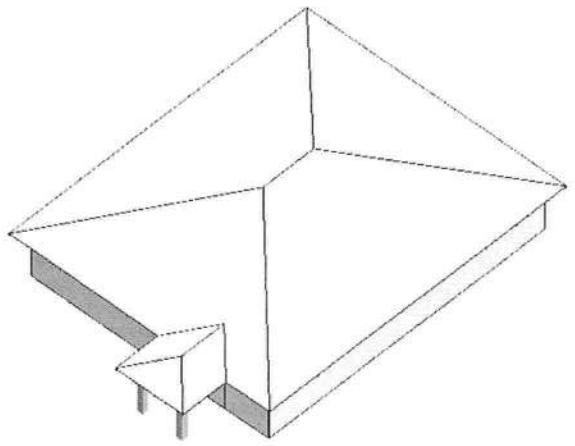
Sanford
PHONE: 407-322-0059 FAX: 407-322-5553

BUILDER: BLAKE CONST.

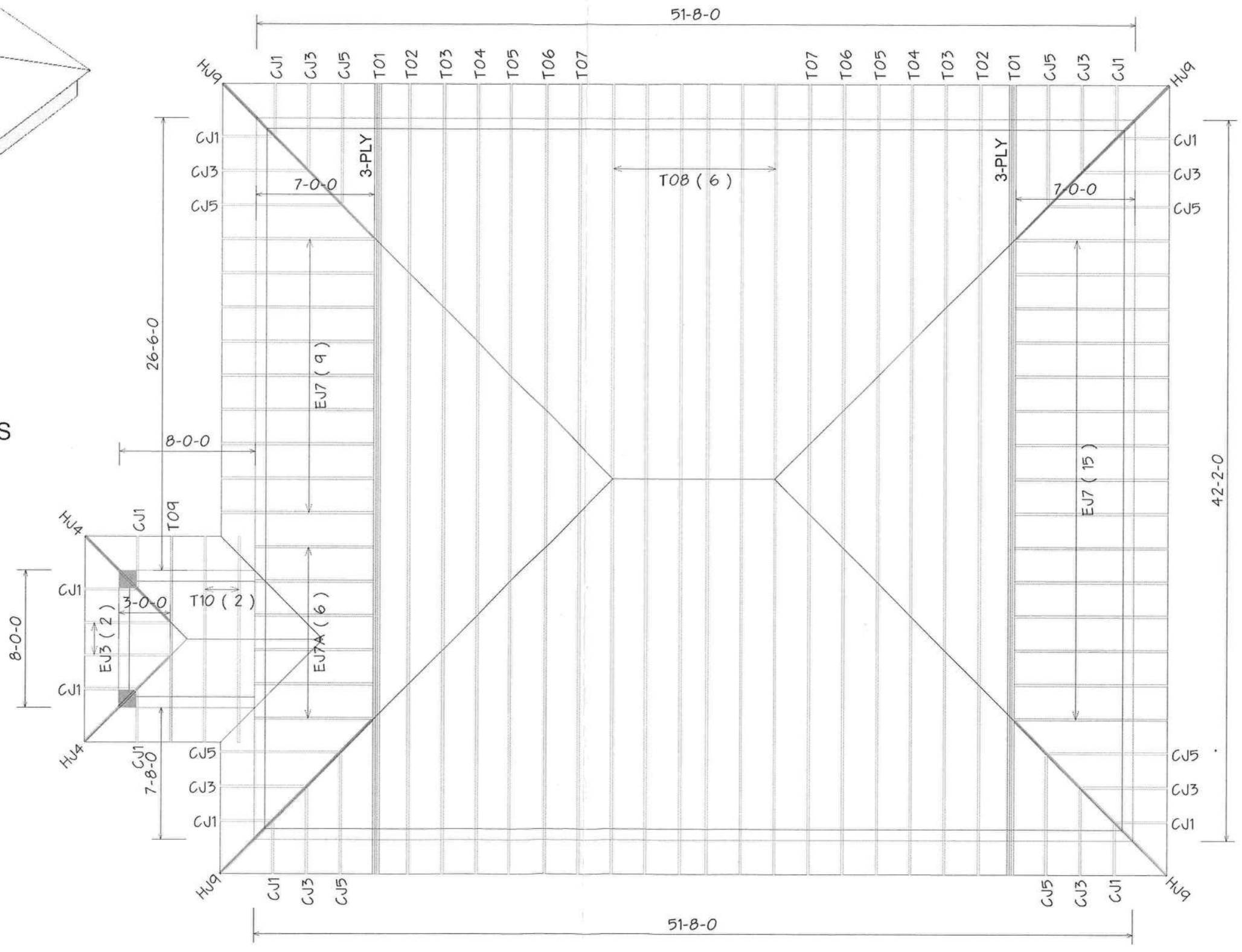
LEGAL ADDRESS: FAMILY HEALTH DENTAL

MODEL: CUSTOM	REVISION:	SCALE: NTS
DATE: 5-17-11	DRAWN BY: K.L.H.	JOB #: 373452

4/12 PITCH - 24" 0/H



ALL FLAT CEILINGS



BEARING HEIGHT SCHEDULE

8'-0"

NOTES:

1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

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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: 407-322-5953

BUILDER: BLAKE CONST.

LEGAL ADDRESS: FAMILY HEALTH DENTAL

MODEL: CUSTOM | ELEVATION:

SCALE: NTS

DATE: 5-17-11 | DRAWN BY: K.L.H. | JOB #: 373452

Family Health Center Dental Clinic

Location: **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			
1. Swinging	Mayfair	entry door	FL 1311
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	Danvid	Sing le hung windows	FL 1369
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			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other	concrete blck	Concrete Block See attached	
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Tamko	30-year asphault Shingles	FL 673
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 inspection

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

Permit # **(FOR STAFF USE ONLY)**

Concrete block

CAL-TECH TESTING, INC.

ENGINEERING & TESTING LABORATORY
P.O. Box 1625 Lake City, FL 32056 •(386) 755-3633 • FAX (386) 752-5456
4784 Rosselle Street, Jacksonville, FL 32254 • (904)381-8901 • Fax(904) 381-8902

JOB NO: 10-00163-01
LAB NO: 13170
DATE: 4/21/2010

REPORT OF: Sampling & Testing Concrete Masonry Units (ASTM C-140)
Standard Specification for Load Bearing Concrete Masonry Units (ASTM C-90)

PROJECT: 2010 Concrete Block Testing

CLIENT: Columbia Ready-Mix Concrete, Inc.
P.O. Box 2101
Lake City, FL 32056-2101

BLOCK NO.:	1	No. of Cells:	2
Size of Block:	8 x 8 x 16	Face Shell Thickness (FST):	1.3
Measured Size:	7.66 x 7.60 x 15.60	Web Thickness:	1.1
Date Cast:	Unknown	Equivalent Web:	2.5
Date Submitted:	4/15/2010	Equivalent Thickness:	4.0
Date Tested:	4/19/2010	Fire Endurance (hours):	2

BLOCK NO.:	2	No. of Cells:	2
Size of Block:	8 x 8 x 16	Face Shell Thickness (FST):	1.3
Measured Size:	7.60 x 7.60 x 15.60	Web Thickness:	1.1
Date Cast:	Unknown	Equivalent Web:	2.5
Date Submitted:	4/15/2010	Equivalent Thickness:	4.0
Date Tested:	4/19/2010	Fire Endurance (hours):	2

BLOCK NO.:	3	No. of Cells:	2
Size of Block:	8 x 8 x 16	Face Shell Thickness (FST):	1.3
Measured Size:	7.60 x 7.60 x 15.64	Web Thickness:	1.1
Date Cast:	Unknown	Equivalent Web:	2.5
Date Submitted:	4/15/2010	Equivalent Thickness:	4.0
Date Tested:	4/19/2010	Fire Endurance (hours):	2

Block I.D.	Dens. (lbs./ft^3)	Absorption (%)	Age Days	Area (Sq. Inches) Net	Area (Sq. Inches) Gross	Breaking Load (lbs.)	Unit Load (Lbs./Sq.In.) Net	Unit Load (Lbs./Sq.In.) Gross
1	97.2	12.0%	Unknown	61.7	118.6	215,000	3490	1810
2	96.8	12.5%	Unknown	61.7	118.6	211,000	3420	1780
3	97.0	12.6%	Unknown	61.8	118.9	200,000	3240	1680
AVERAGE	97.0	12.4%	Unknown	61.7	118.7	208,667	3380	1760

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer, CEO, DBE

Linda M. Creamer
President - CEO

Reviewed By:

Date: 4/26/2010
Licensed, Florida No.: 57842

Columbia County Property Appraiser

DB Last Updated: 5/3/2011

2010 Tax Year

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

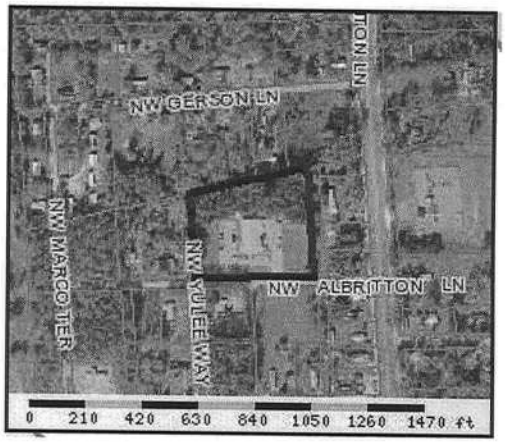
Parcel: 20-3S-17-05405-001

<< Next Lower Parcel | Next Higher Parcel >>

Search Result: 1 of 1

Owner & Property Info

Owner's Name	FAMILY HEALTH CENTER OF		
Mailing Address	COLUMBIA COUNTY P O BOX 249 LAKE CITY, FL 32056		
Site Address	173 NW ALBRITTON LN		
Use Desc. (code)	PROFESSION (001900)		
Tax District	2 (County)	**Neighborhood**	20317
Land Area	3.670 ACRES	**Market Area**	06
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
ALL BLOCKS I & D OF S C ALBRITTON'S REPLAT SPRINGFIELD S/D & ALL OF SECOND AVE LYING N OF COLUMBIA AVE. ORB 743-675,			



Property & Assessment Values

2010 Certified Values		
Mkt Land Value	cnt: (0)	$40,666.00
Ag Land Value	cnt: (1)	$0.00
Building Value	cnt: (1)	$324,250.00
XFOB Value	cnt: (3)	$30,366.00
Total Appraised Value		$395,282.00
Just Value		$395,282.00
Class Value		$0.00
Assessed Value		$395,282.00
Exempt Value	(code: 03)	$395,282.00
Total Taxable Value		Cnty: $0 Other: $0 | Schl: $0

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
2/21/1991	743/675	WD	V	U	11	$0.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	OFFICE MED (005200)	1992	CONC BLOCK (15)	9084	9518	$363,431.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0166	CONC,PAVMT	0	$2,540.00	0001814.000	0 x 0 x 0	(000.00)
0260	PAVEMENT-A	0	$24,626.00	0032191.000	0 x 0 x 0	(000.00)
0253	LIGHTING	0	$3,200.00	0000004.000	0 x 0 x 0	(000.00)

Land Breakdown

SUWANNEE RIVER WATER MANAGEMENT DISTRICT

May 6, 2011

Mr. John T. Myles
Family Health Center of Columbia County
Post Office Box 249
Lake City, FL 32056

Subject: Requested Environmental Resource Permit (ERP) Exemption for ERP91-0199M, Dental Building, Columbia County

Dear Mr. Myles:

The above mentioned proposed project consisting of the construction of a building and small amount of sidewalks in Columbia County does not require a new ERP or a modification to the existing permit, SWM 4-91-00199, by the Suwannee River Water Management District (District). This decision was based on the exemption request and plans received May 4, 2011 for this project. It has been determined that the proposed project follows subsection 40B-4.1070(1)(c) Florida Administrative Code (F.A.C.), and provides reasonable assurance that:

1. The existing stormwater system was designed for connections.
2. The existing stormwater system is functioning as permitted.
3. The project will not exceed any thresholds established by the existing permit.

If this project does not comply with these terms, a permit will be required.

This exemption, however, does not exempt you from obtaining permits from any other regulatory agency. Any modification to the exempted plans that may be required shall require reconsideration by the District prior to commencement of construction.

If you have any questions, please call me at 386.362.0440, or email at LRM@srwmd.org.

Sincerely,

Leroy Marshall II, P.E., CFM
Professional Engineer

LM/rl
cc: Blake Construction Company
GTC Design Group, LLC

Florida Energy Efficiency Code For Building Construction

Florida Department of Community Affairs

EnergyGauge Summit® Fla/Com-2008, Effective: March 1, 2009 -- Form 400A-2008

Method A: Whole Building Performance Method for Commercial Buildings

PROJECT SUMMARY

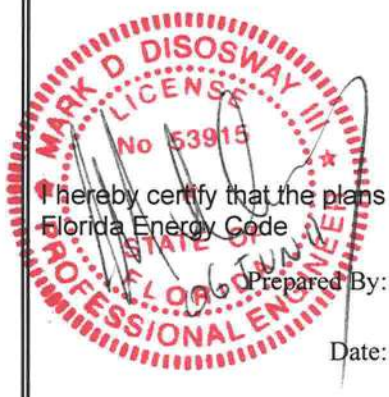
Short Desc:	1104014	**Description:**	Blake Const. Family Health (
Owner:			
Address1:	NW Albritton Ln.	**City:**	Lake City
Address2:		**State:**	Florida
		Zip:	0
Type:	Healthcare-Clinic	**Class:**	New Finished building
Jurisdiction:	COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)		
Conditioned Area:	2178 SF	**Conditioned & UnConditioned Area:**	2178 SF
No of Stories:	1	**Area entered from Plans**	2178 SF
Permit No:	0	**Max Tonnage**	12.5
		If different, write in:	_____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	1,715.0	1,739.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**None Entered**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**None Entered**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT MESSAGE
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

CERTIFICATIONS



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

Prepared By: Mark Disosway P.E. Building Official: _____

Date: 06 JUN 11 Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: _____ Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the FLorida Energy Efficiency Code

Architect: _____ Reg No: _____

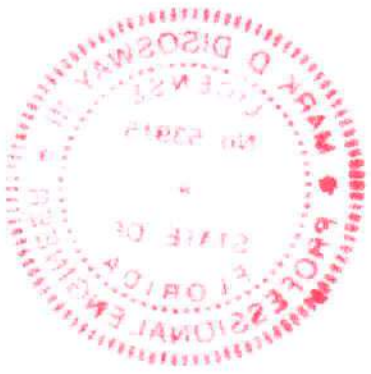
Electrical Designer: _____ Reg No: _____

Lighting Designer: _____ Reg No: _____

Mechanical Designer: _____ Reg No: _____

Plumbing Designer: _____ Reg No: _____

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.



Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	*109.60*	*129.50*
	$1,715	*$2,046*
ELECTRICITY(MBtu/kWh/$)	109.60	129.50
	32113	37962
	$1,715	*$2,046*
AREA LIGHTS	41.30	32.70
	12090	9581
	$646	*$516*
MISC EQUIPMT	24.10	24.10
	7068	7068
	$377	*$381*
PUMPS & MISC	0.10	0.10
	37	38
	$2	*$2*
SPACE COOL	28.10	36.10
	8240	10584
	$440	*$570*
SPACE HEAT	1.60	5.30
	455	1539
	$24	*$83*
VENT FANS	14.40	31.20
	4223	9152
	$226	*$493*

Passing requires Proposed Building cost to be at most 85% of Baseline cost. This Proposed Building is at 83.8%

PASSES

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2	Building facades (by linear foot)	No	5.00	204.0	1,020	800
Ext Light 3	Canopies (freestanding, attached and Overhangs)	Yes	1.25	64.0	80	100

Tradable Surfaces: 100 (W) Allowance for Tradable: 135 (W) **PASSES**
All External Lighting: 900 (W)
Complicance check includes a 5% excess allowance of 55.00(W)

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli-ance
Treatment	10,004	Exam/Treatment (Hospital)	882	1	1	**PASSES**
Reception	12	Lobby (General) - Reception and Waiting	531	2	1	**PASSES**
RR#1	6	Toilet and Washroom	63	1	1	**PASSES**
Consult	15	Conference/meeting (Multiple Functions)	80	1	1	**PASSES**
Ster x-ray	10,007	Operating Room (Hospital)	220	2	1	**PASSES**
Mech	1	Electrical Mechanical Equipment Room - General	66	1	1	**PASSES**
RR #2	6	Toilet and Washroom	64	1	1	**PASSES**
Lounge	9	Food Service - Bar/Lounge	146	1	1	**PASSES**
Office	17	Office - Enclosed	126	1	1	**PASSES**

PASSES

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

Pr0Sy2 **System 2** **Constant Volume Packaged System** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity		13.00	9.30	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity		7.80	3.10			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.50	0.90			PASSES
Air Distribution System	ADS System		6.00	6.00			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp liance

None

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Comp liance
Water Heater 1	Electric water heater	<= 12 [kW]	0.94	0.86			PASSES

PASSES

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
None							

Project: 1104014
Title: Blake Const. Family Health Center Dentist Office
Type: Healthcare-Clinic
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	13-101	Input Report Print-Out from EnergyGauge FlaCom attached	☐
Operations Manual	13-102.1, 13-410, 13-413	Operations manual provided to owner	☐
Windows & Doors	13-406.AB.1.1	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft²; all other products: 0.4 cfm/ft²	☐
Joints/Cracks	13-406.AB.1.2	To be caulked, gasketed, weather-stripped or otherwise sealed	☐
Dropped Ceiling Cavity	13-406.AB.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	☐
System	13-407	HVAC Load sizing has been performed	☐
Reheat	13-407.B	Electric resistance reheat prohibited	☐
HVAC Efficiency	13-407, 13-408	Minimum efficiences: Cooling Tables 13-407.AB.3.2.1A-D; Heating Tables 13-407.AB.3.2.1B, 13-407.AB.3.2.1D, 13-408.AB.3.2.1E, 13-408.AB.3.2F	☐
HVAC Controls	13-407.AB.2	Zone controls prevent reheat (exceptions); simultaneous heating and cooling in each zone; combined HAC deadband of at least 5°F (exceptions)	☐
Ventilation Controls	13-409.AB.3	Motorized dampers reqd, except gravity dampers OK in: 1) exhaust systems and 2) systems with design outside air intake or exhaust capacity ≤300 cfm	☐
ADS	13-410	Duct sizing and Design have been performed	☐
HVAC Ducts	13-410.AB	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Sec. 13-410 Air Distribution Systems	☐
Balancing	13-410.AB.4	HVAC distribution system(s) tested & balanced. Report in construction documents	☐
Piping Insulation	13-411.AB	In accordance with Table 13-411.AB.2	☐
Water Heaters	13-412.AB	Performance requirements in accordance with Table 13-412.AB.3. Heat trap required	☐
Swimming Pools	13-412.AB.2.6	Cover on heated swimming pools: Time switch (exceptions); Readily accessible on/off switch	☐
Hot Water Pipe Insulation	13-411.AB.3	Table 13-411.AB.2 for circulating systems, first 8 feet of outlet pipe from storage tank and between inlet pipe and heat trap	☐
Water Fixtures	13-412.AB.2.5	Shower hot water flow restricted to 2.5 gpm at 80 psi. Public lavatory fixture how water flow 0.5 gpm max; if self-closing valve 0.25 gallon recirculating, 0.5 gallon non recirculating	☐
Motors	13-414	Motor efficiency criteria have been met	☐
Lighting Controls	13-415.AB	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandom wiring with 1 or 3 linear fluuorescent lamps>30W	☐

EnergyGauge Summit® v3.22

INPUT DATA REPORT

Project Information

Project Name: 1104014

Project Title: Blake Const. Family Health Center Dentist Office

Address: NW Albritton Ln.

State: Florida

Zip: 0

Owner:

Orientation: West

Building Type: Healthcare-Clinic

Building Classification: New Finished building

No.of Stories: 1

GrossArea: 2178 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	DentOff	Total Dentist Office	CONDITIONED	2177.8	1	2177.8	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]

In Zone: DentOff										
1	Treatment	All Treatment Rooms and walkway	Exam/Treatment (Hospital)	17.10	51.55	8.00	1	881.5	7052.0	☐
2	Reception	Reception office	Lobby (General) - Reception and Waiting	25.00	21.24	8.00	1	531.0	4248.0	☐
3	RR#1	RESTROOM ON MAIN HALLWAY	Toilet and Washroom	7.00	9.00	8.00	1	63.0	504.0	☐
4	Consult	Consultation Office	Conference/meeting (Multiple Functions)	8.00	10.00	8.00	1	80.0	640.0	☐
5	Ster x-ray	Sterilization, x-ray, closet	Operating Room (Hospital)	15.20	14.50	8.00	1	220.4	1763.2	☐
6	Mech	Mechanical Room	Electrical Mechanical Equipment Room - General	6.30	10.50	8.00	1	66.2	529.2	☐
7	RR #2	RESTROOM ON BACK HALLWAY	Toilet and Washroom	8.50	7.50	8.00	1	63.8	510.0	☐
8	Lounge	Staff Lounge	Food Service - Bar/Lounge	10.00	14.60	8.00	1	146.0	1168.0	☐
9	Office	Private Office	Office - Enclosed	10.00	12.60	8.00	1	126.0	1008.0	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: DentOff								
In Space: Treatment								
1	Recessed Fluorescent - No vent	Lighting for medical procedures/equipment	10	160	1600	Manual On/Off	2	☐
2	Recessed Fluorescent - No vent	General Lighting	4	160	640	Manual On/Off	1	☐
3	Compact Fluorescent	Lighting for medical procedures/equipment	5	23	115	Manual On/Off	1	☐
In Space: Reception								
1	Recessed Fluorescent - No vent	General Lighting	9	160	1440	Manual On/Off	1	☐
2	Recessed Fluorescent - No vent	General Lighting	6	18	108	Manual On/Off	1	☐
In Space: RR#1								
1	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐

In Space:	**Consult**								
	1	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐
In Space:	**Ster x-ray**								
	1	Recessed Fluorescent - No vent	General Lighting	2	160	320	Manual On/Off	1	☐
	2	Recessed Fluorescent - No vent	Lighting for medical procedures/equipment	1	160	160	Manual On/Off	1	☐
	3	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐
In Space:	**Mech**								
	1	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐
In Space:	**RR #2**								
	1	Recessed Fluorescent - No vent	General Lighting	1	160	160	Manual On/Off	1	☐
In Space:	**Lounge**								
	1	Recessed Fluorescent - No vent	General Lighting	2	160	320	Manual On/Off	1	☐
In Space:	**Office**								
	1	Recessed Fluorescent - No vent	General Lighting	2	160	320	Manual On/Off	1	☐

Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	**DentOff**											
1	Front Wall	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	42.17	8.00	1	337.4	West	0.2642	9.696	62.72	3.8	☐
2	Left Wall	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	51.70	8.00	1	413.6	North	0.2642	9.696	62.72	3.8	☐
3	Rear Wall	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	42.20	8.00	1	337.6	East	0.2642	9.696	62.72	3.8	☐
4	Right Wall	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	51.80	8.00	1	414.4	South	0.2642	9.696	62.72	3.8	☐

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
In Zone: DentOff											
In Wall: Front											
1	4010 at left side of elevation	User Defined	Yes	0.6000	0.59	0.64	4.00	1.00	1	4.0	☐
2	4010 at right side of elevation	User Defined	Yes	0.6000	0.59	0.64	4.00	1.00	1	4.0	☐
3	3070 entry door into rec. area	User Defined	Yes	0.6000	0.59	0.64	3.00	7.00	1	21.0	☐
In Wall: Left											
1	5010 typical of 5	User Defined	Yes	0.6000	0.59	0.64	5.00	1.00	5	25.0	☐
In Wall: Right											
1	6010 Tansoms typical of all 4	User Defined	Yes	0.6000	0.59	0.64	6.00	1.00	4	24.0	☐

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]	
In Zone: DentOff												
In Wall: Front												
1	3070 door to hall	Hollow core flush	Yes	3.00	7.00	1	21.0	0.7827	0.00	0.00	1.28	☐
In Wall: Rear												
1	3070 door into ha	Hollow core flush	Yes	3.00	7.00	2	21.0	0.7553	0.00	0.00	1.32	☐

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone: DentOff											

1	Total Building Roof	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	51.61	42.20	1	2177.9	0.00	0.0320	1.50	8.22	31.2

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone:										
In Roof:										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone:	**DentOff**									
1	Total Floor	1 ft. soil, concrete floor, carpet and rubber pad	51.61	42.20	1	2177.9	0.2681	34.00	113.33	3.73

Systems

Pr0Sy2 **System 2** **Constant Volume Packaged System** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV
1	Cooling System	150000.00	13.00	8.00
2	Heating System	150000.00	7.80	
3	Air Handling System -Supply	1500.00	0.50	
4	Air Distribution System		6.00	

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV

Water Heaters

	W-Heater Description	Capacity	Cap.Unit	I/P Rt.	Efficiency		Loss	
1	Electric water heater	50	[Gal]	[kW]	0.9400	[Ef]	[Btu/h]	

Ext-Lighting

	Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]	
1	Ext Light 2	Building facades (by linear foot)	8	100	204.00	Photo Sensor control	800.00	
2	Ext Light 3	Canopies (freestanding, attached and Overhangs)	1	100	64.00	Photo Sensor control	100.00	

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	
ASHULDblClrWd-Vy-Fg frm	User Defined	2	0.6000	0.5900	0.6400	☐

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐
265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	☐
48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	☐
105	Matl105	CONC BLK HW, 8IN, HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	☐
269	Matl269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	☐
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	☐
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500					☐
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1014	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	No	No	0.26	9.70	62.72	3.8	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	105	CONC BLK HW, 8IN, HOLLOW	0.6667	0.000	☐
2	269	.75" ISO BTWN24" oc	0.0625	0.000	☐
3	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1022	Hollow core flush	No	Yes	0.78			1.3	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	273	Hollow core flush (1.375")		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1025	Hollow core flush	No	Yes	0.76			1.3	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	276	Hollow core flush (1.75")		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1038	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	No	No	0.03	1.50	8.22	31.2	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	81	ASPHALT-ROOFING, ROLL		0.000	☐
2	244	PLYWOOD, 1/2IN	0.0417	0.000	☐
3	12	3 in. Insulation	0.2500	0.000	☐
4	23	6 in. Insulation	0.5000	0.000	☐
5	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1057	1 ft. soil, concrete floor, carpet and rubber pad	No	No	0.27	34.00	113.33	3.7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	265	Soil, 1 ft	1.0000	0.000	☐
2	48	6 in. Heavyweight concrete	0.5000	0.000	☐
3	178	CARPET W/RUBBER PAD		0.000	☐

FORM N-1 Commercial Load Calculations

Building/Room	Business
Name	Family Health Center of Columbia County
Address	Lake City, Florida, Columbia County
Contractor	Blake Construction

1. Cooling Design Condiltions

				Correction
Latitude	29			
Time	3:00pm	Daily Range	18	-1
Inside db (F)	75	Inside %RH	60	
Outside db (F)	93	Outside %RH	77	
Outside db @3pm	93	Time Correct.	0	
Grains (50%)	51	T.D. =	18	-2

2. Solar Radiation Heat Gain Through Glass

	Exposure	Sq. Ft.	Solar Factor	Shading Factor	Cooling Load Sensible	Latent
Clear, 2pane	N	0	30	0.81	0	
Light. wt. bldg.	E	25	64	0.81	1296	
	S	29	65	0.81	1527	
	W	24	99	0.81	1925	

3. Transmission Gains

Glass	ETD	Exposure	Sq. Ft.	U Factor	db dT or Equiv.		
Clear, 2pane		All	78	0.65	18	913	
Walls	D	N	338	0.122	15	619	
Stucco, R13	D	E	414	0.122	23	1162	
	D	S	338	0.122	36	1484	
	D	W	414	0.122	17	859	
Doors	use t.d.	All	63	0.56	18	635	
Steel							
Roof/Ceiling	R4	All	2178	0.04	68	5924	
Shingles, 7/16"OSB, R19							

4. Internal Heat Gain

a. Occupants		Number	Sensible	Latent		
		22	315	325	6930	7150
b. Lights & Others			Watts			
	Incandescent Lights		0	3.4	0	
	Fluorescent Lights		5823	4.1	23874	
	Name	Sensible	Latent	Usage Factor		
Appliances	All	17000	1500	1		

5. Infiltration

		ft3/min	db dT	dGrains		
	Doors	640	18	51	12672	22195
Neutral, avg.	Bldg.	175	18	51	3465	6069
6. Subtotal Cooling Load from Space					58536	35414
7. Supply Duct Heat Gain		Gain Factor	Line 6 Sensible Gain			
		0.03	58536		1756	
8. Room, Zone, or Block Design Load				Lines 6+7	60293	35414
Supply dT	19	Line 8 Sens.	60293	Cooling cfm =	2885	
9. Ventilation		cfm/occupant	ft3/min	db dT	dGrains	
Non Smoking		25	550	18	51	10890	19074
10. Return Air Load From Lighting And Roof						
11. Return Duct Heat Gain		Line 6 Sensible Gain		Gain Factor		
		58536		0.00	0	
12. Total Cooling Loads on Equipment (Btuh)				**10.5**	**71183**	**54488**

13. Heating Design Conditions

Inside db =	75	Outside db=	31	dT=	44

14. Transmission Losses

Glass	ETD	Exposure	ft2	U Factor	db dT	Heating Load
Clear, 2pane		All	78	0.62	44	2128
Walls	D	N	338	0.122	44	1814
Stucco, R13	D	E	414	0.122	44	2222
	D	S	338	0.122	44	1814
	D	W	414	0.122	44	2222
Doors	use t.d.	All	63	0.56	44	1552
Steel						
Roof/Ceiling	R4	All	2178	0.04	44	3833
Shingles, 7/16"OSB, R19						

15. Infiltration

		ft3/min	db dT	
door	Doors	1100	44	53240
Neutral, avg.	Bldg.	292	44	14133

16. Sub Total Heating Load for Space — 68827

17. Supply Duct Heat Loss

Loss Factor	Line 16 Sensible	
0.05	68827	3441

18. Ventilation

ft3/min	db dT	
550	44	26620

19. Humidification — 150

20. Return Duct Heat Loss

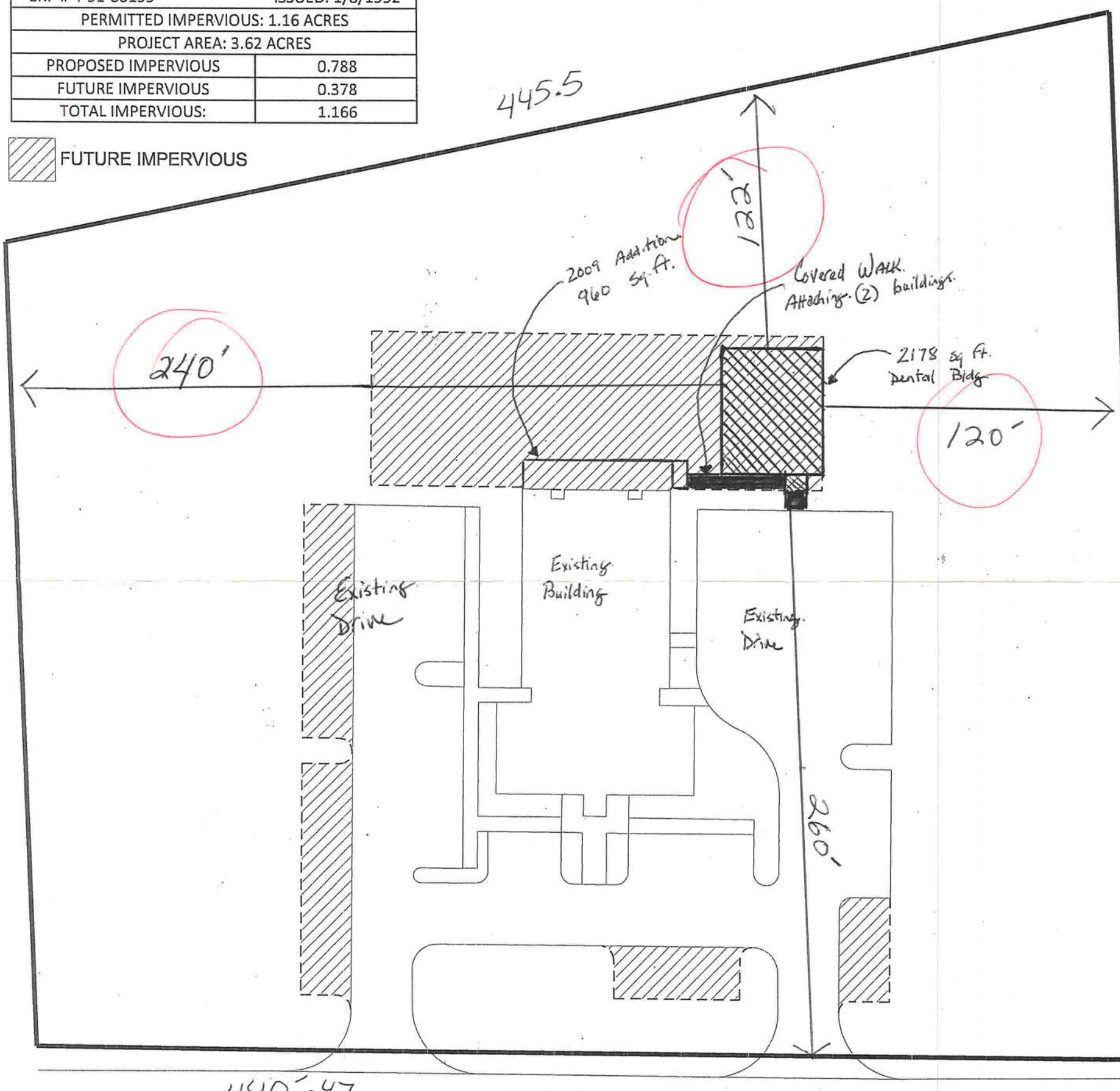
Loss Factor	Line 16 Sensible	
0.00	68827	0

21. Total Heating Load on Equipment (Btuh) — 6.0 — 72418

20-3S-17-05405-001

FAMILY HEALTH CENTER OF COLUMBIA COUNTY	
ERP # 4-91-00199	ISSUED: 1/8/1992
PERMITTED IMPERVIOUS: 1.16 ACRES	
PROJECT AREA: 3.62 ACRES	
PROPOSED IMPERVIOUS	0.788
FUTURE IMPERVIOUS	0.378
TOTAL IMPERVIOUS:	1.166

FUTURE IMPERVIOUS



FAMILY HEALTH CENTER OF COLUMBIA COUNTY **PERMITTED IMPERVIOUS AREAS**	GTC Design Group, LLC. Auth. # 9481 Structural / Civil Engineers www.gtcdesigngroup.com	P.O. BOX 187 130 W HOWARD ST LIVE OAK FL, 32064 PHONE: (386) 362-3678 FAX: (386) 362-6133 176 NW LAKE JEFFREY RD LAKE CITY, FL 32055 Phone: (386) 719-9985 Fax: (386) 719-8828	PROJECT NUMBER PF10-147	SHEET 13

...\CAD\GTC_top02.dgn 12/16/2010 9:45:02 AM

COLUMBIA COUNTY FIRE RESCUE

P.O. BOX 1529 Lake City, Florida 32056
Office (386) 754-7071 Fax (386) 754-7064

Division Chief
David L. Boozer

11 July 2011

TO: Troy Crews
Columbia County Building and Zoning

FROM: David L. Boozer
Division Chief / Fire Marshal

RE: New Dentist Office, Family Health Center of Columbia County
Application # 1106-33, Blake Construction

A plan review was performed of the proposed construction of New Dentist building to be located on NW Albritton Lane, in Lake City, Florida. This building was classified under Chapter 38, New Business, of the Florida Fire Prevention Code, 2007 Edition. I recommend Approval of the building with the following conditions;

- Building Address
  - New and existing buildings shall have approved **address numbers** placed in a position to be plainly legible and visible from the street or road, in contrast with their background. At the minimum, numbers shall be not less than 3 inches in height for residential buildings and at least 6 inches in height for all other buildings. *NFPA 1:10.13.1.1 & NFPA 1:10.13.1.2*

- Fire Alarm
  - Duct Detector Installation
    - Smoke detectors shall be installed, tested, and maintained in accordance with *NFPA 72(90A:6.4.4.1)*
    - In addition to the requirements of 6.4.3 of *NFPA 90A*, Standard for the installation of Air-Conditioning and Ventilating Systems, where an approved fire alarm system is installed in a building, the smoke detectors required by the provisions of Section 6.4 of *NFPA 90A* shall be connected to the fire alarm system in accordance with the requirements of *NFPA 72. (90A:6.4.4.2.1)*
    - Alarm company to install a heat detector in the Dental Mechanical Room

- Electrical Disconnect
  - NFPA 1:11.1.7 states, "Means shall be provided for the fire department to disconnect the electrical service to a building, structure or facility when the electrical is covered under the scope of NFPA 70
  - NFPA 101:7.2.1.5.1 states, "Doors shall be arranged to be opened readily from egress side whenever building is occupied."

- Door Hardware
  - All **exit or exit access doors** shall be arranged to open readily from the egress side whenever the building is occupied. **Locks or latches** if provided shall not require the use of a key, tool, or special knowledge or effort for operation from the egress side. The releasing mechanism for any latch shall be located not less than 34 in and not more than 48 in above the finished floor. The door must not require more than 1 action to open. *NFPA 1:14.5.2.2* **Business travel distance less than 100'=1 exit** *NFPA 1:14.5.2.2*

- Portable Fire Extinguishers
  - **Portable fire extinguishers** requires a license or permit of organizations and individuals who service, recharge, test, mark, inspect, install, or hydro test fire extinguishers. It will be necessary to use a Licensed Fire Extinguisher Contractor for identifying the location and type of extinguisher to use. *FSS 633.061*
  - Minimum 2A rated extinguisher shall be located in **egress path** with not more than 75-foot travel distance. Additional extinguishers of B rating may be required if flammable or combustible liquids are present. Class C rated extinguishers are required whenever fires may involve energized electrical equipment. *NFPA 1:13.6*
  - **Mounted** on brackets or in cabinets, with top not more than 5 feet above floor, and bottom not less than 4" above floor. (less than 40 lbs) *NFPA 1:13.6.3.7 & NFPA 1:13.6.3.10*
  - All portable fire extinguishers must have a current (less than 12 months old) **inspection tag** by a licensed fire extinguisher contractor. *FAC 69A-21.237*

- Light Weight Truss Marking
  - Florida Statute, Section 633.027, (2008) requires the owner of any commercial, industrial or multiunit residential structure of three units or more constructed of light-frame trusses, to install a symbol adopted by rule of the State Fire Marshal's Office. This rule establishes the dimensions, color, and location of the symbol to be applied to every commercial, industrial and multiunit residential structure of three units or more constructed of light-frame trusses.

Should you require any additional information, please feel free to contact my office.

Sincerely,

David L. Boozer

David L. Boozer

COLUMBIA COUNTY FIRE RESCUE

P.O. BOX 1529 Lake City, Florida 32056
Office (386) 754-7071 Fax (386) 754-7064

NOTICE TO COMPLY

Florida Statute, Section 633.027, (2008) requires the owner of any commercial, industrial or multiunit residential structure of three units or more constructed of light-frame trusses, to install a symbol adopted by rule of the State Fire Marshal's Office. This rule establishes the dimensions, color, and location of the symbol to be applied to every commercial, industrial and multiunit residential structure of three units or more constructed of light-frame trusses.

The state has determined that property owners or their representatives are required to comply with this rule. Therefore, State Fire Marshal rule(s) 69A-3.012 for Uniform Code buildings or 69A60.008 for Minimum Code buildings requires you to install the required symbol(s) by March 13, 2010.

Lightweight Truss
Roof

Lightweight Truss
Roof and Floor

Lightweight Truss
Floor

- Symbols must be all weather and contrasting with background
- Maltese Cross shall measure 8 inches horizontally and 8 inches vertically
- Maltese Cross shall be a bright red reflective color
- Maltese Cross shall be within 24 inches to the left of the main entry door(s)
- Maltese Cross shall be not less than 4 feet above grade, walking surface, finished floor
- Maltese Cross shall be not more than 6 feet above grade, walking surface, finished floor
- Additional signs to be installed as determined by the Authority Having Jurisdiction.
- The complete rule is available on the State Fire Marshals web site under Rules of the State Fire Marshal

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536 SE Baya Dr.
City Lake city Phone 386-752-1703

Site Location: Subdivision
Lot # Block# Permit # 0000 29533
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	2184	188	165.6

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 J.G..

7-28-11	8:38	Jamie
Date	Time	Print Technician's Name

Remarks:

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

...t of Plans given to Fire Dept. 12-20-09 LH
/2009 17:48 3867582160 Booze BUILDING AND ZONING PAGE 02/04
Energy calcs - using existing SYSTEM ☑ Commercial ✓ LIST Incompl
Columbia County Building Permit Application ☑ VF SHEET

...ice Use Only Application # 0910-58 Date Received 10/26 By JW Permit # 28278
...g Official BLK Date 30.10.09 Flood Zone X Land Use RES. Low Dev Zoning RSF/MH-2
Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner HO Date 12-16-...
...ents Existing use with vested rights
☑ EH ☑ Deed or PA ☑ Site Plan ☐ State Road Info ☐ Parent Parcel #
...ermit # ☐ In Floodway ☑ Letter of Auth. from Contractor ☐ F W Comp. letter
FEES: EMS

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536 SE Baya Dr.
City Lake City, FL 32055 Phone 752-1203

Site Location: Subdivision
Lot # Block# Permit # 29533
Address 178 NW albright Lane

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
back porch	50	—	5

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 _____.

10-4-11 11:11 FOSTER H-
Date Time Print Technician's Name

Remarks:

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©