X07-0420 - DARN -

Columbia County Building Permit Application

For Office Use Only Application # 0910-62 Date Received 10/30 By JW Permit # 26414

Application Approved by - Zoning Official cds Date 11/7/07 Plans Examiner OK JTH Date 11-7-07

Flood Zone X Development Permit N/A Zoning RSF2 Land Use Plan Map Category RSF2

Comments NO ELECTRICAL POWER SHOWN ON PLANS accessory bldg. for church

☑ NOC ☑ EH ☑ Deed or PA ☐ Site Plan ☐ State Road Info ☑ Parent Parcel # ☐ Development Perm

Name Authorized Person Signing Permit Rick Carson / Larry Sauser Phone 863.206.2215 Fax 863.325.0044

Address 3391 Cypress Gardens Road, Winter Haven, FL 33884

Owners Name Grace Covenant Southern Baptist Church Inc. Phone 752-0967

911 Address 424 S.W. Pinemount Rd. Lake City, Fl. 32024

Contractors Name Grace Covenant Southern Baptist Church, Inc Phone 752-0967

Address 4471 US. Hwy. 90 W., Lake City, FL 32055

Fee Simple Owner Name & Address Grace Covenant Southern Baptist Church, Inc. 4471 US Hwy 90 W Lake City, FL 32055

Bonding Co. Name & Address na

Architect/Engineer Name & Address Brad Baker 3306 Kentshire Dr. Valdosta, Ga 31602

Mortgage Lenders Name & Address na

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energ

Property ID Number 33-3S-16-02439-002 Estimated Cost of Construction $ 20,000

Subdivision Name N/A Lot ____ Block ____ Unit ____ Phase ____

Driving Directions From intersecting roads I-75 & Hwy 90 W proceed West on 90 to Pinemount Road on your left and Turner Rd on Right. Turn left and go approx. ¼ mile. Property on right side of road.

Type of Construction frame BARN Number of Existing Dwellings on Property 1 shed

Total Acreage 15 Lot Size 15 Ac Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Dri

Actual Distance of Structure from Property Lines - Front 500' approx Side 60' approx Side 300' approx Rear 300' approx

Total Building Height 15' Number of Stories 1 Heated Floor Area N/A TOTAL 1,792 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.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Larry Sauser

Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 25th day of October 2007.

Personally known X or Produced Identification ____

CK# 1032

Contractor Signature

Contractors License Number

Competency Card Number

NOTARY STAMP/SEAL

CYNTHIA TERRIO
MY COMMISSION # DD 321672
EXPIRES: May 18, 2008
Bonded Thru Notary Public Underwriters

Cynthia Terrio

Notary Signature Cynthia Terrio

(Revised Sept. 2006

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001472

DATE 11/13/2007 PARCEL ID # 15-4S-16-03023-519

APPLICANT HUGO ESCALANTE PHONE 386.288.8666

ADDRESS POB 280 FT. WHITE FL 32038

OWNER EWPL.INC. PHONE 386.288.8666

ADDRESS 456 SW MORNING GLORY DRIVE LAKE CITY FL 32024

CONTRACTOR HUGO ESCALANTE PHONE 386.288.8666

LOCATION OF PROPERTY SR 247-S TO CALLAHAN,TL TO MORNING GLORY,TR AND IT'S @ THE VERY END.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ROLLING MEADOWS 19

SIGNATURE Hugo Escalante

INSTALLATION REQUIREMENTS

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

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

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

[ ] Department of Transportation Permit installation approved standards.

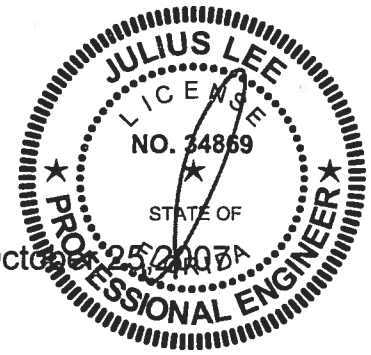
[ ] Other _____

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

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

Amount Paid 25.00

Builders FirstSource



October 25,2007

Project Information for: L258934

Address :	4471 W US HWY 90
	LAKE CITY, FL
County:	COLUMBIA
Truss Count:	2
Design Program:	MiTek 20/20 6.3
Building Code:	FBC2004/TPI2002

Truss Design Load Information:

Gravity:	**Wind:**	
Roof (psf): 42.0	Wind Standard: ASCE 7-02	Wind Exposure: B
Floor (psf): N/A	Wind Speed (mph): 110	

Note: See the individual truss drawings for special loading conditions.

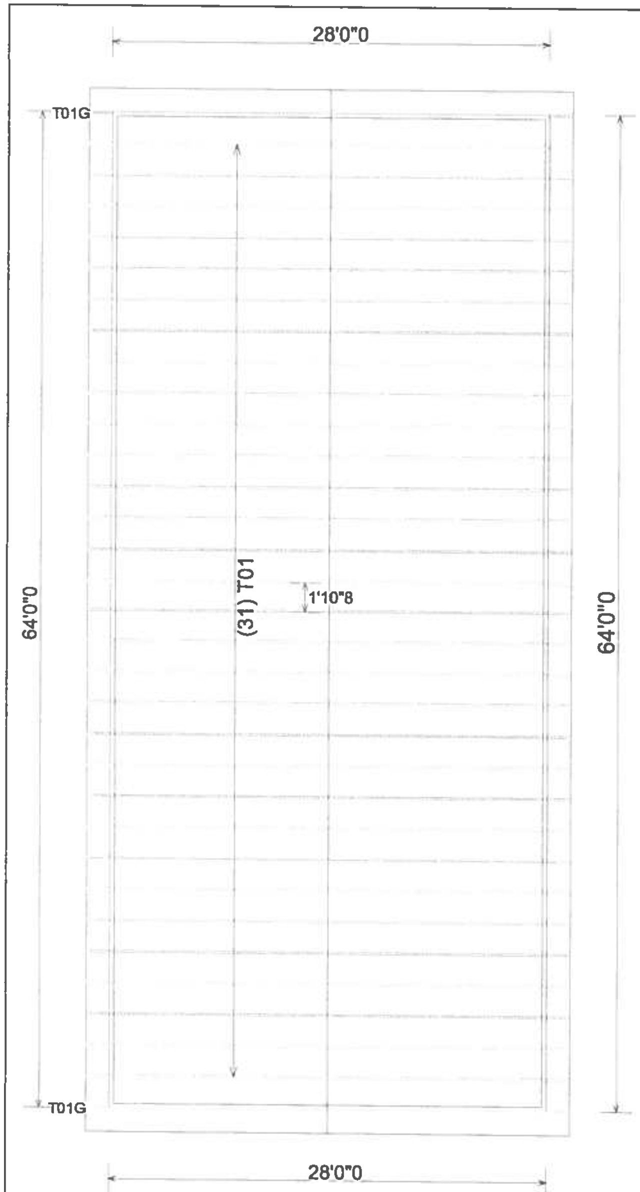
Owner/Builder of Record, responsible for structural engineering:
Unknown at time of seal date
Address: N/A

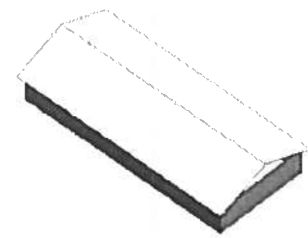
Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869
Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1903907	T01	10/25/07
2	J1903908	T01G	10/25/07





5/12 PITCH
1'4" OH
2' OC

BEARING HEIGHT SCHEDULE

PLATE

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 VIOS FOR ALTERNATE BRACING REQUIREMENTS
3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER
4) ALL TRUSSES ARE DESIGNED FOR 2' oc 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 HUS26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED
8) BEAMS HEADERS 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	GRACE COVENANT CHURCH
LEGAL ADDRESS	COLUMBIA COUNTY
MODEL	28X64
SCALE	N S
DATE	10/23/07
DRAWN BY	JRD
JOB	L258934

Builders FirstSource

Project Information for: L258934

Address : 4471 W US HWY 90
LAKE CITY, FL
County: COLUMBIA
Truss Count: 2
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

October 25,2007

Truss Design Load Information:

Gravity:
Roof (psf): 42.0
Floor (psf): N/A

Wind:
Wind Standard: ASCE 7-02
Wind Speed (mph): 110
Wind Exposure: B

Note: See the individual truss drawings for special loading conditions.

Owner/Builder of Record, responsible for structural engineering:
Unknown at time of seal date
Address: N/A

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

Notes:
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1903907	T01	10/25/07
2	J1903908	T01G	10/25/07

Job	Truss	Truss Type	Qty	Ply	GRACE COVENANT-28X64 J1903907
L258934	T01	COMMON	31	1	Job Reference (optional)

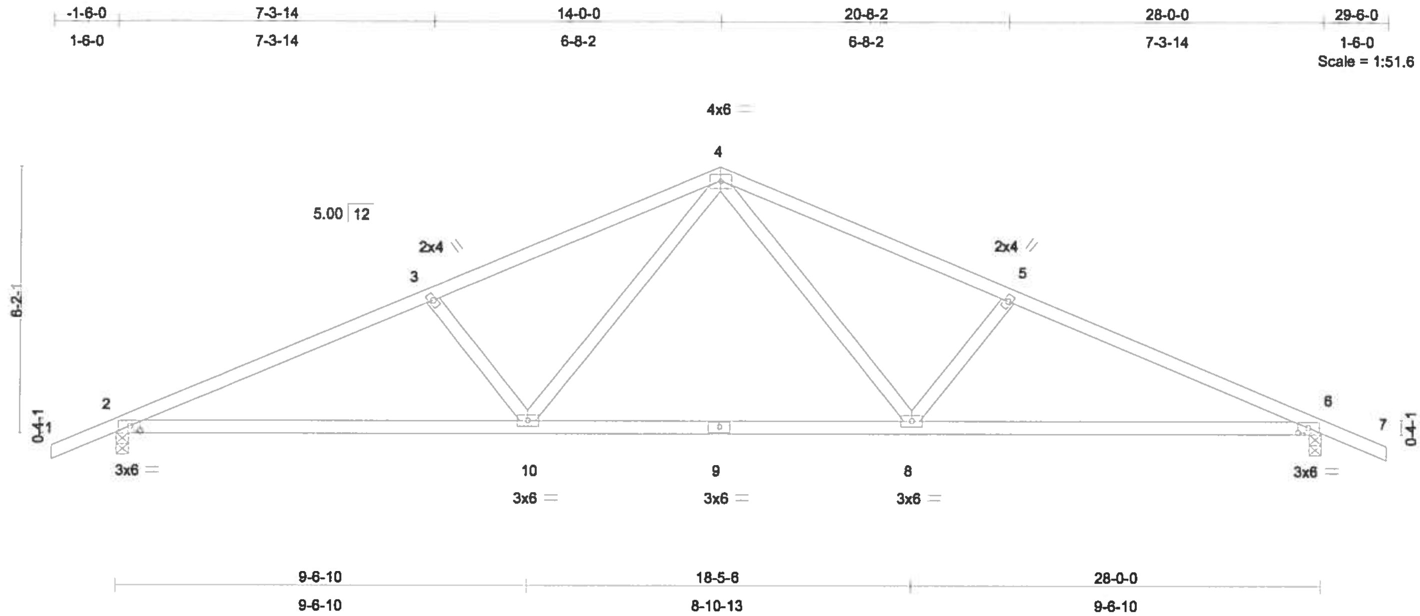


Plate Offsets (X,Y): [2:0-2-12,0-1-8], [6:0-2-12,0-1-8]

LOADING (psf)		SPACING		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.34	Vert(LL)	-0.18	6-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.48	Vert(TL)	-0.36	6-8	>915	240		
BCLL	10.0	* Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.07	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 124 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-3-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-0-8 oc bracing.

REACTIONS (lb/size) 2=976/0-3-8, 6=976/0-3-8
Max Horz 2=-91(load case 7)
Max Uplift 2=-268(load case 6), 6=-268(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-1786/997, 3-4=-1546/936, 4-5=-1546/936, 5-6=-1786/997, 6-7=0/30
BOT CHORD 2-10=-780/1578, 9-10=-417/1064, 8-9=-417/1064, 6-8=-780/1578
WEBS 3-10=-381/333, 4-10=-268/511, 4-8=-268/511, 5-8=-381/333

JOINT STRESS INDEX
2 = 0.74, 3 = 0.33, 4 = 0.82, 5 = 0.33, 6 = 0.74, 8 = 0.39, 9 = 0.39 and 10 = 0.39

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

Continued on page 2

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NOTES

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 2 and 268 lb uplift at joint 6.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. [illegible]
[illegible] Coastal Bay Blvd
Boynton Beach, FL [illegible]

October 25,2007

Job	Truss	Truss Type	Qty	Ply	GRACE COVENANT-28X64 J1903908
L258934	T01G	GABLE	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Oct 25 09:12:15 2007 Page 1

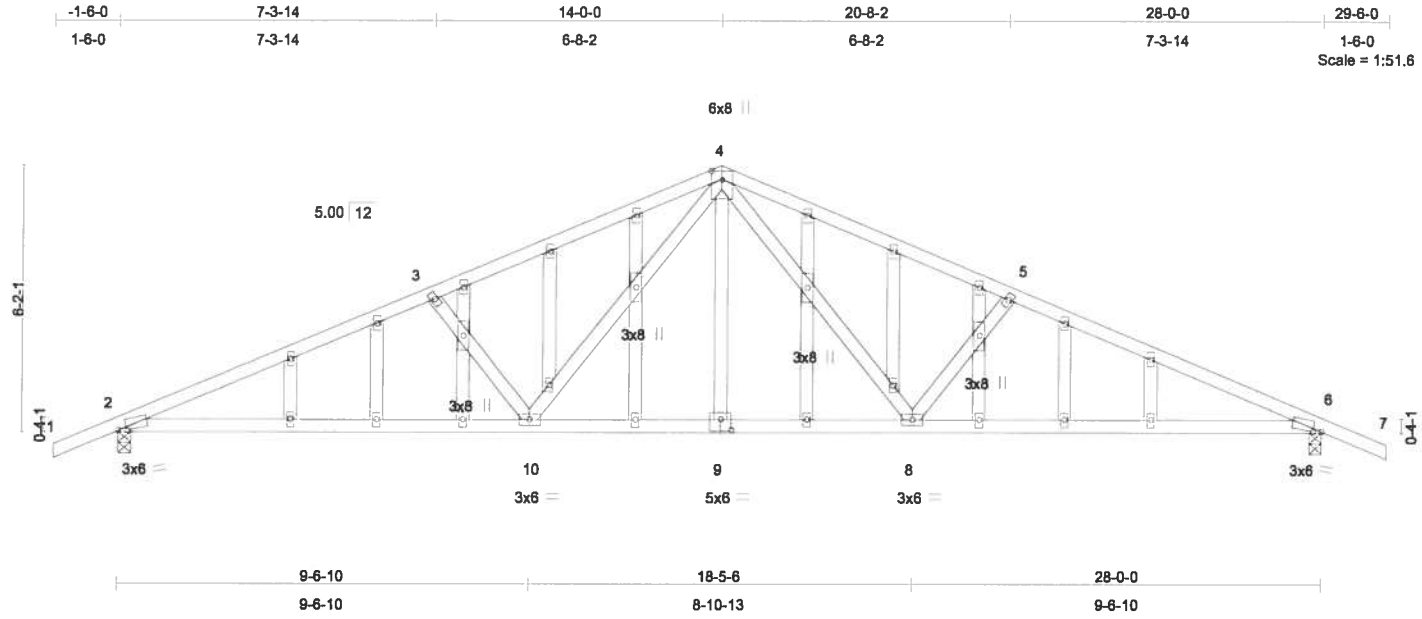


Plate Offsets (X,Y): [2:0-2-6,0-0-7], [6:0-2-6,0-0-7], [9:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.18	6-8	>999	360	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.39	6-8	>862	240		
BCLL	10.0	* Rep Stress Incr	NO	WB	0.30	Horz(TL)	0.08	6	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 176 lb	

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-10-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-5-8 oc bracing.

REACTIONS (lb/size) 2=1131/0-3-8, 6=1131/0-3-8
Max Horz 2=-105(load case 7)
Max Uplift 2=-520(load case 6), 6=-520(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/36, 2-3=-2069/1143, 3-4=-1785/1058, 4-5=-1785/1058, 5-6=-2069/1143, 6-7=0/36
BOT CHORD	2-10=-922/1826, 9-10=-512/1232, 8-9=-512/1232, 6-8=-922/1826
WEBS	3-10=-447/370, 4-10=-307/579, 4-8=-307/579, 5-8=-447/370

JOINT STRESS INDEX

2 = 0.79, 3 = 0.33, 4 = 0.61, 5 = 0.33, 6 = 0.79, 8 = 0.40, 9 = 0.33, 10 = 0.40, 11 = 0.51, 12 = 0.33, 13 = 0.33, 14 = 0.33, 15 = 0.33, 16 = 0.51, 17 = 0.33, 18 = 0.33, 19 = 0.33, 20 = 0.33, 21 = 0.33, 22 = 0.33, 23 = 0.33, 24 = 0.33, 25 = 0.51, 26 = 0.33, 27 = 0.33, 28 = 0.33, 29 = 0.33, 30 = 0.51, 31 = 0.33, 32 = 0.33, 33 = 0.33 and 34 = 0.33

NOTES

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

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1103 Crystal Bay Run
Boynton Beach, FL 33435

October 25,2007

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	GRACE COVENANT-28X64 J1903908
L258934	T01G	GABLE	2	1	Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 520 lb uplift at joint 2 and 520 lb uplift at joint 6.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) Gable truss supports 12" max. rake gable overhang.

LOAD CASE(S) Standard

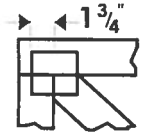
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-64(F=-10), 4-7=-64(F=-10), 2-6=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34863
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

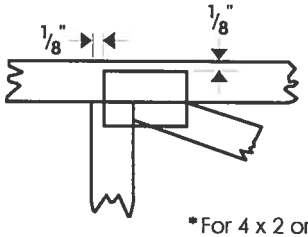
October 25,2007

Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

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

PLATE SIZE

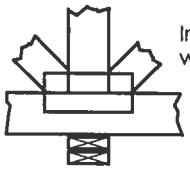
4 x 4

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

LATERAL BRACING

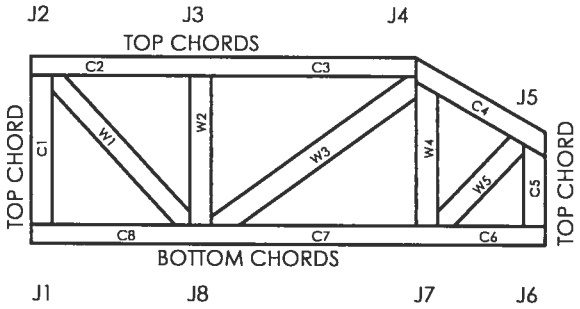
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561

MiTek

TEE-LOK

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

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

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

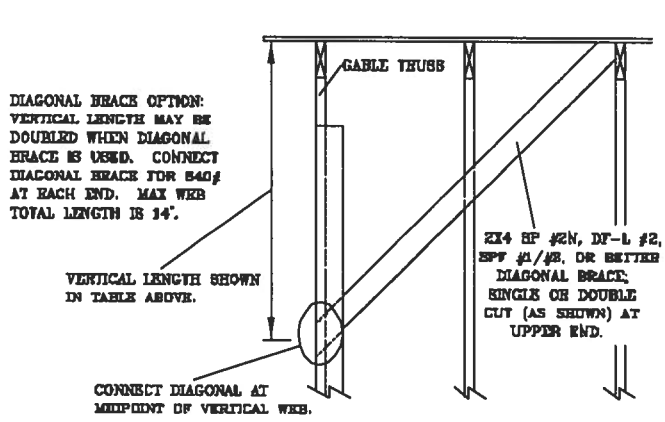
GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

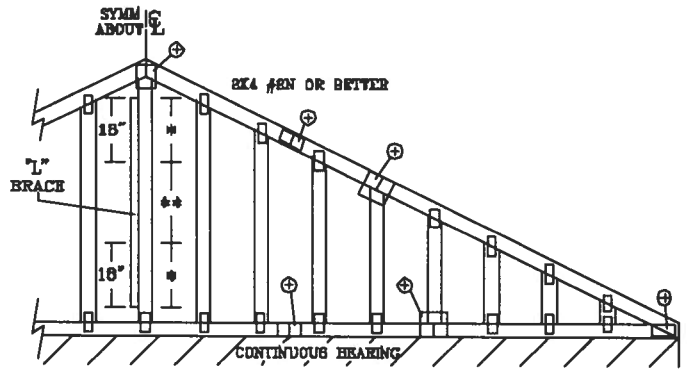
ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 5"	2X4
GREATER THAN 11' 5"	2.5X4

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





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

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

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

No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

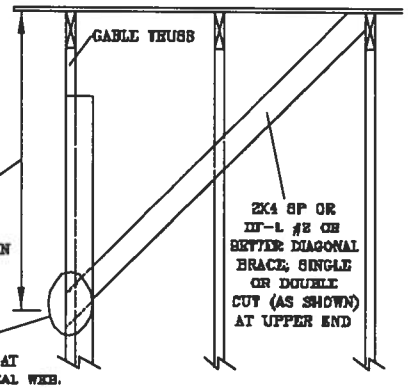
REF ASCE7-02-GAB13015
DATE 11/26/03
DRWG MITEK STD GABLE 15 E HT
-ENG

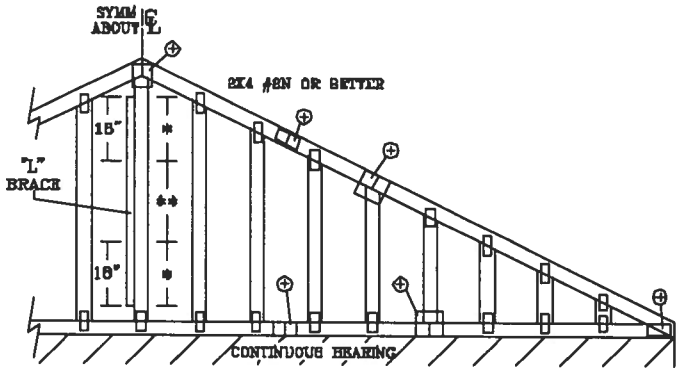
ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

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

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





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

SOUTHERN PINE
#3
STUD
STANDARD

GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

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

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

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

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

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

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.

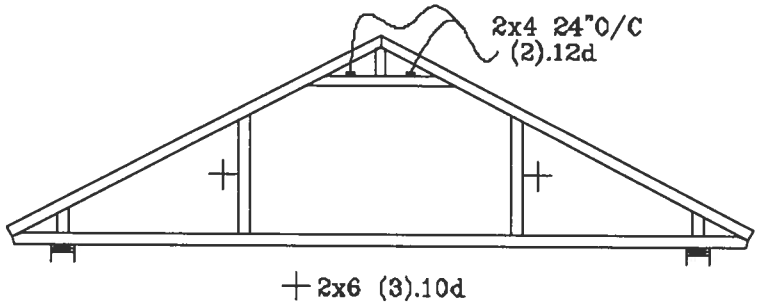
JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

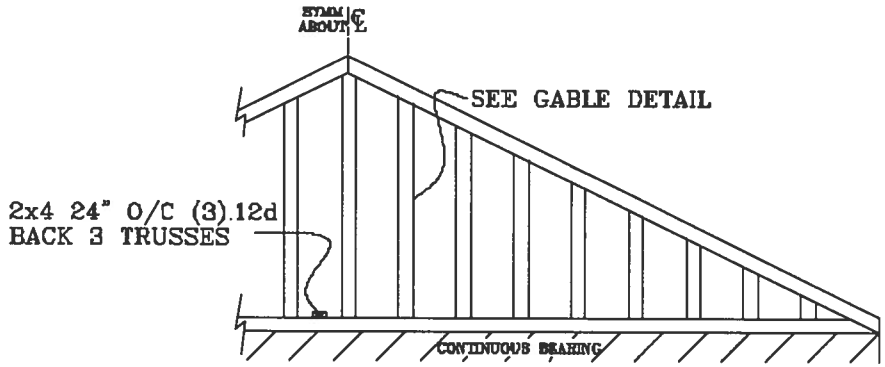
MAX. SPACING 24.0"

REF ASCE7-02-GAB13030
DATE 11/26/03
DWG MITEK STD GABLE 90' E W7
-ENG

TYPICAL ATTIC TRUSS BRACING

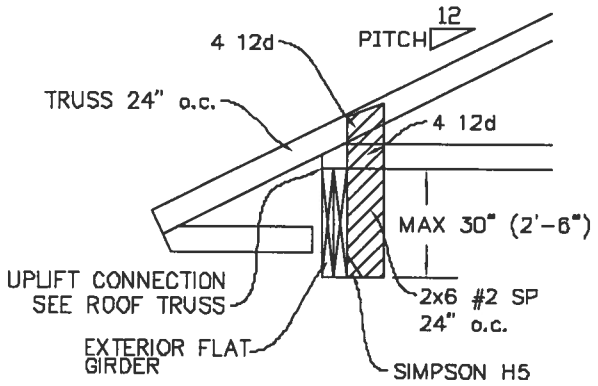


GABLE END TRUSS DETAIL

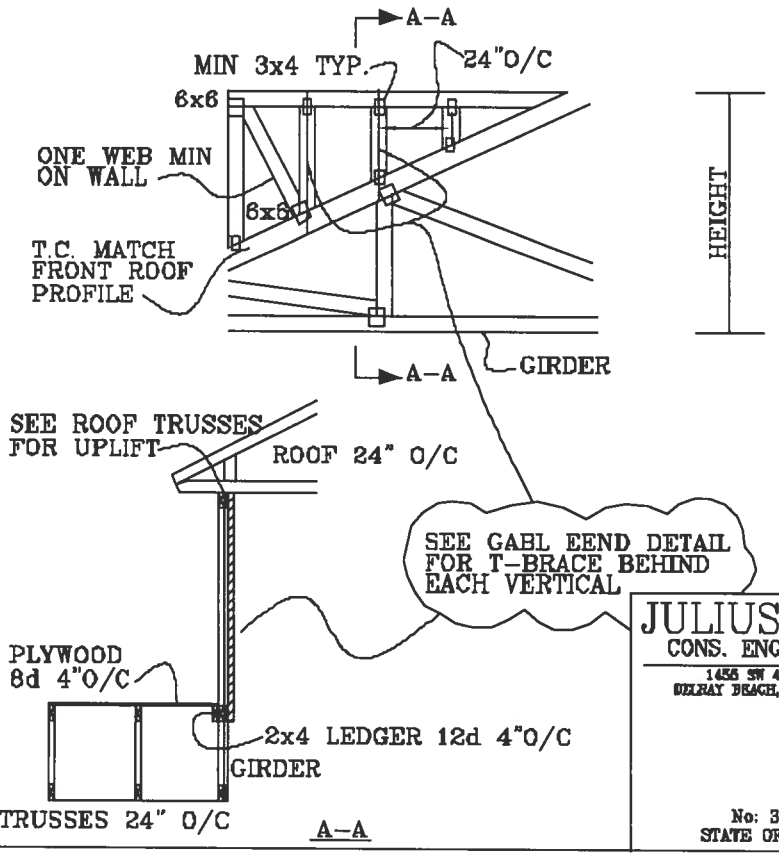


MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



JULIUS LEE'S
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DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

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

PIGGYBACK DETAIL

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

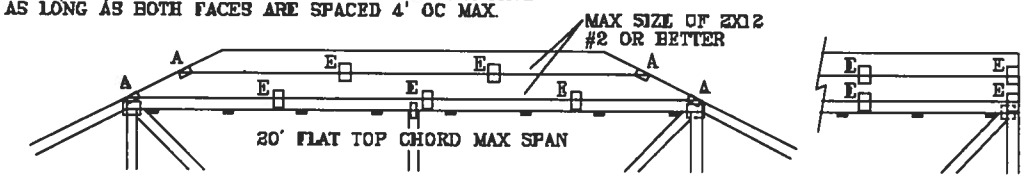
110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

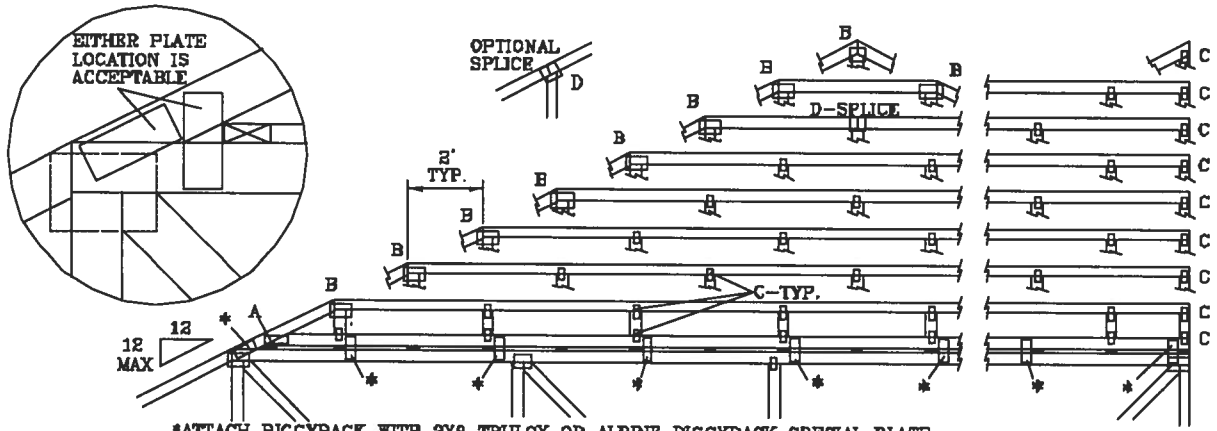
130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF

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'	62'
A	2X4	2.5X4	2.5X4	3X6
B	4X8	6X8	6X8	5X8
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	6X5	6X5	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.



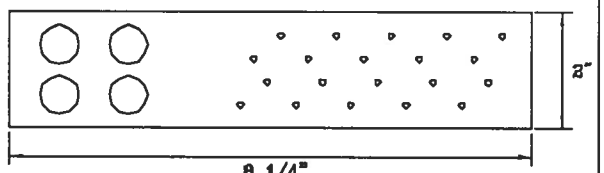


*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

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

*** PIGGYBACK SPECIAL PLATE**

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



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

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".

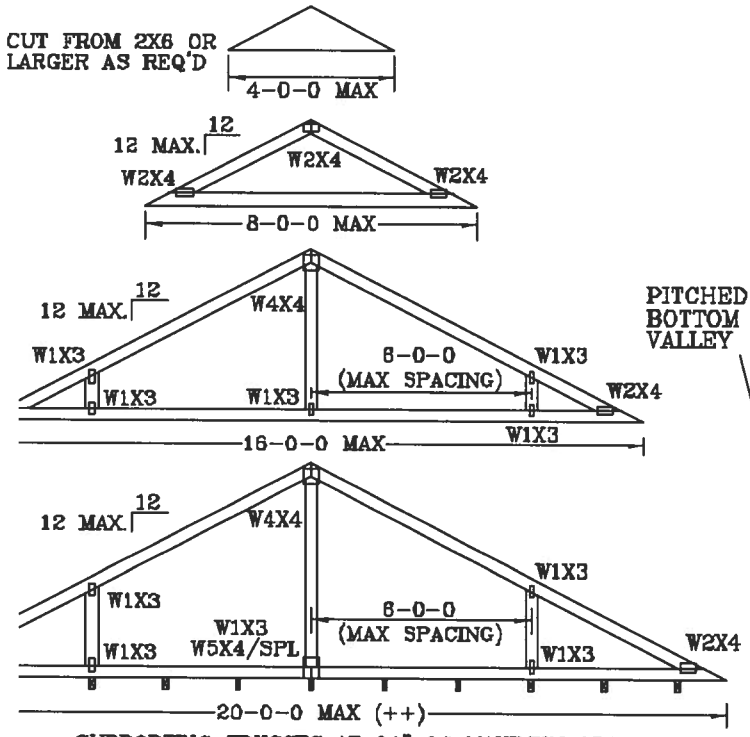
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

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.

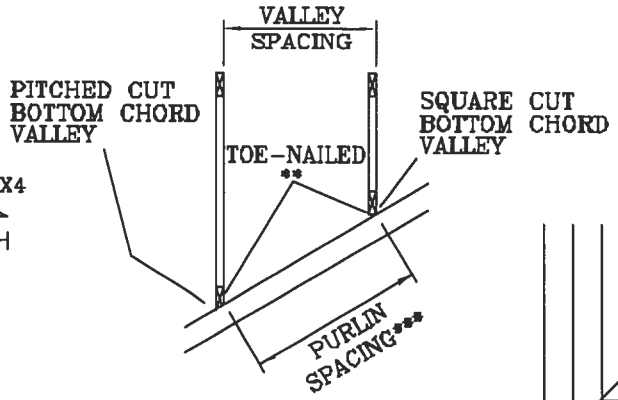
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

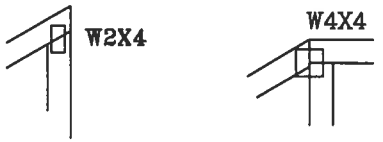
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

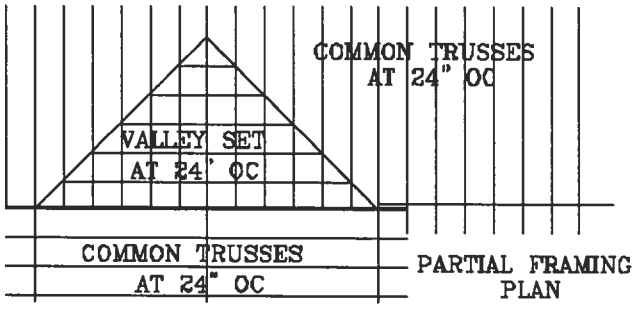
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

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

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

No: 34869
STATE OF FLORIDA

TC LL	20	20	PSF	REF VALLEY DETAIL
TC DL	7	15	PSF	DATE 11/26/09
BC DL	5	5	PSF	DRWG VALTRUSS1103
BC LL	0	0	PSF	-ENG JL
TOT. LD.	32	40	PSF	
DURFAC. 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."

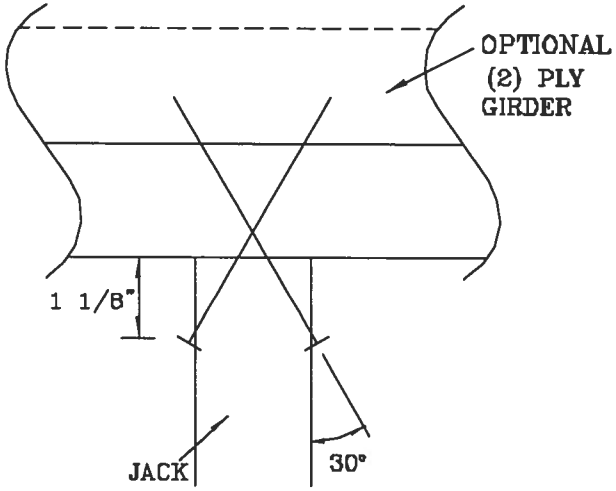
THE NUMBER OF TOE–NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

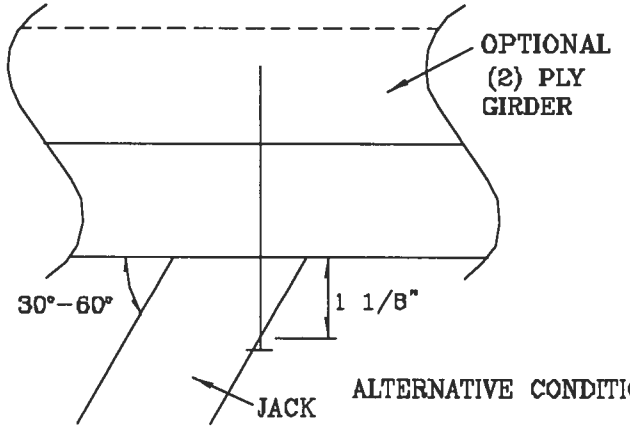
THIS DETAIL DISPLAYS A TOE–NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

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

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.
1450 SW 4th AVENUE
DELRAY BEACH, FL 33444–2181

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			

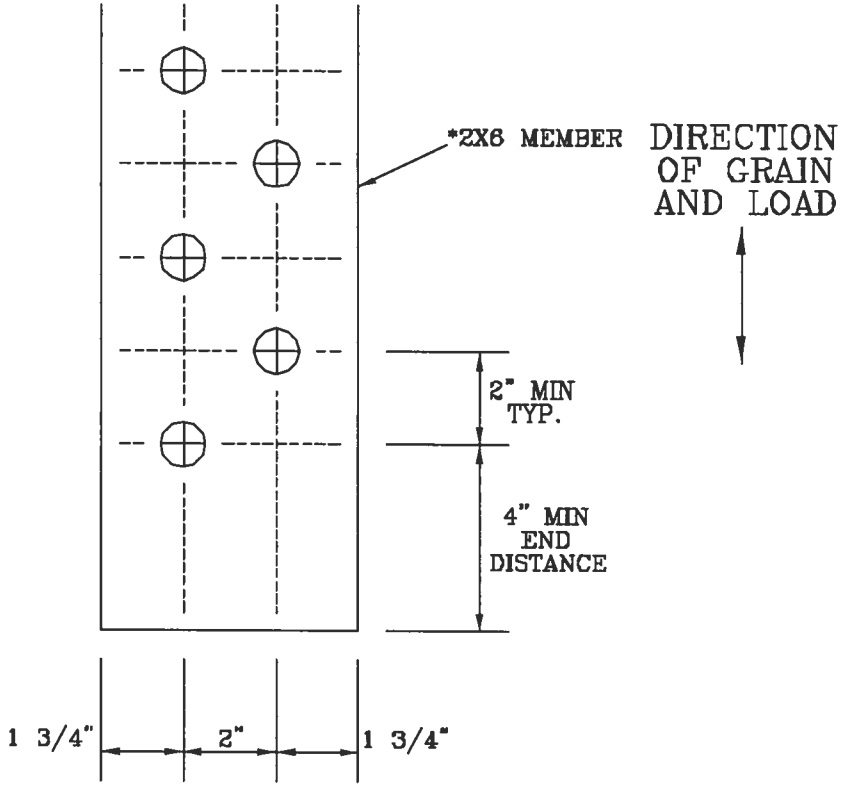
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

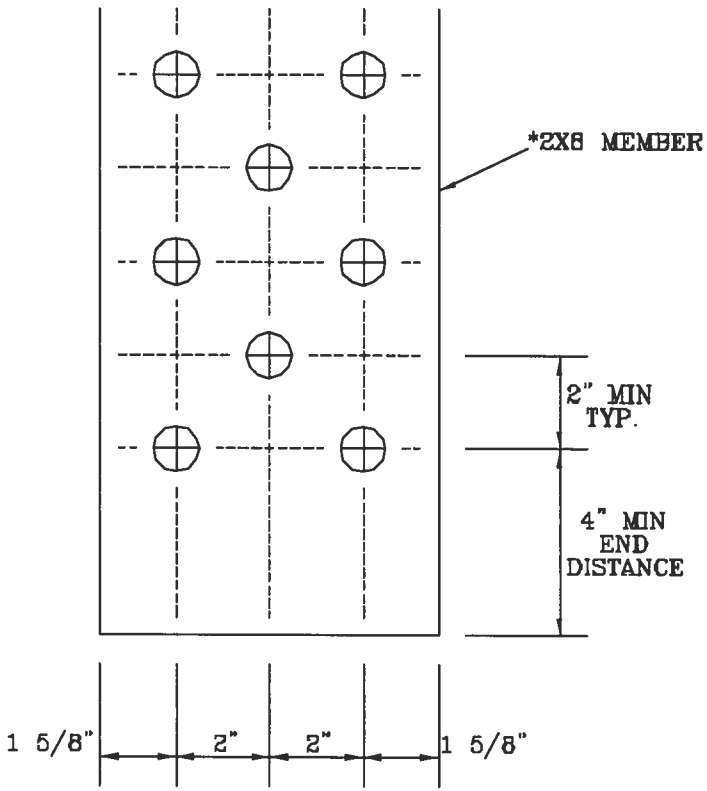
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

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

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

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

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

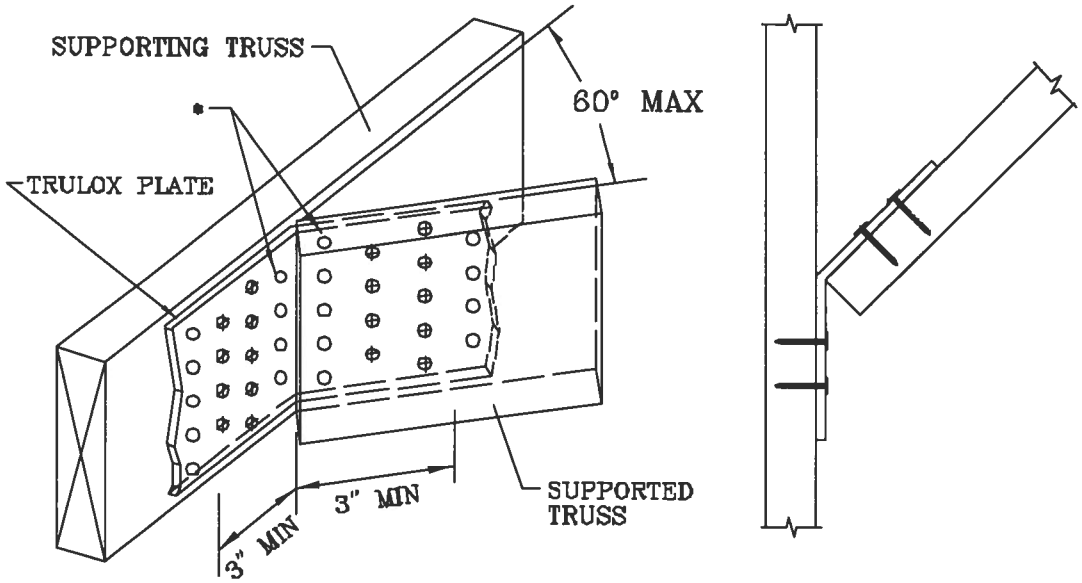
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* 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.

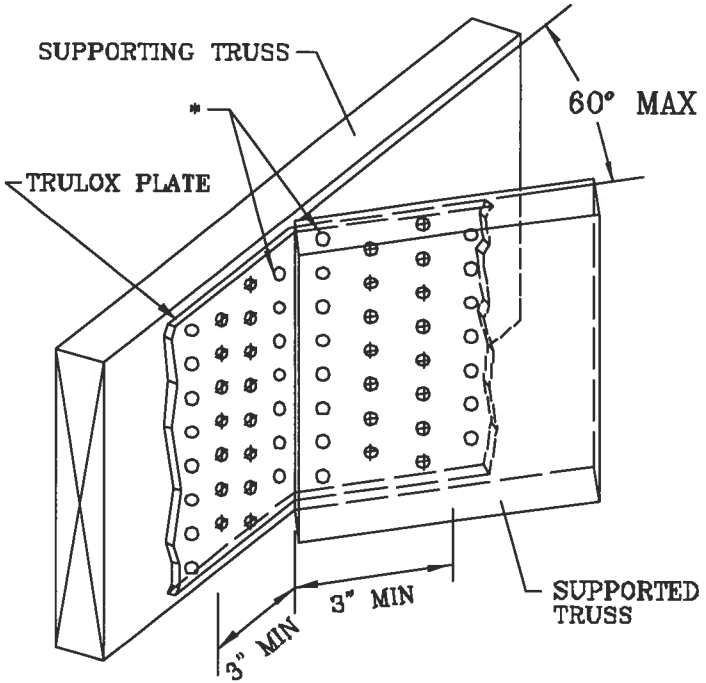
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

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



MINIMUM 3X6 TRULOX PLATE

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



MINIMUM 5X6 TRULOX PLATE

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

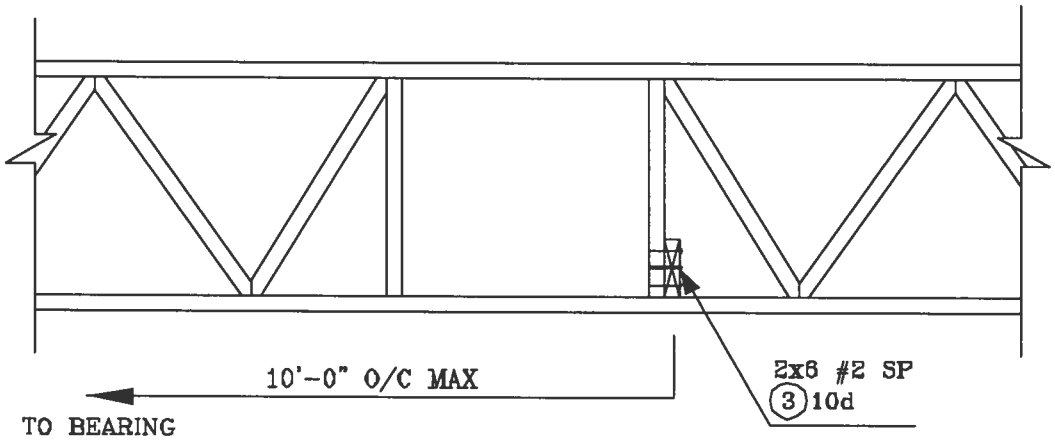
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE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

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-6161

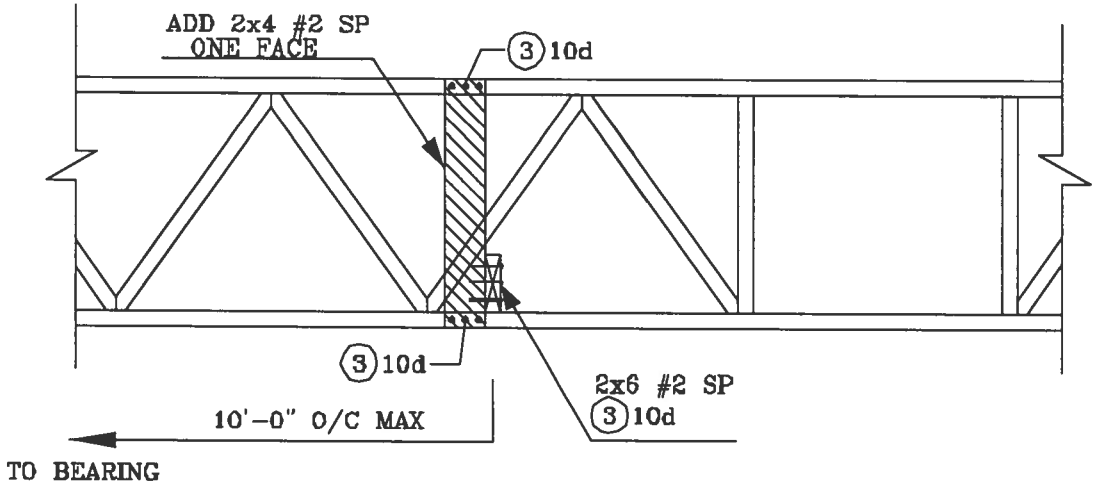
No: 34869
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/09
DRWG	CNTRULOX1103
-ENG	JL

STRONG BACK DETAIL
SYSTEM–42 OR FLAT TRUSS



ALTERNATE DETAIL FOR
STRONG BACK WITH VERTICAL
NOT LINING UP



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

No: 34869
STATE OF FLORIDA

To: Columbia County Building Department
135 NE Hernando Ave
Lake City, Fl 32056

I, hereby authorize, Rick Carson, to act as my agent in all areas of the permitting procedures for the project of Grace Covenant Church, 424 SW Pine Mount Rd, Lake City, Fl with The Columbia County Building Department.

I understand that I remain fully responsible and liable for all acts performed under said permits.

Under penalties of Purjury, I declare that I have read the forgoing authorization letter and that the facts stated in it are true.

10/29/07
Date

Garrard Building Contractors, LLC
CBC1253402

10/29/07
Date

Notary

Notary Seal

NORMA I. GONZALEZ
Notary Public - State of Florida
My Commission Expires Feb 22, 2010
Commission # 521668

DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

( ) Single Family Dwelling
( ) Farm Outbuilding
( ) New Construction
( ) Two-Family Residence
(X) Other Barn
(X) Addition, Alteration, Modification or other Improvement

NEW CONSTRUCTION OR IMPROVEMENT

I Gary Byerley, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number_____

Gary Byerley
Signature

Oct 24, 07
Date

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date 11-8-07 Building Official/Representative L. H

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: 8/29/2007 **DATE ISSUED:** 8/29/2007

ENHANCED 9-1-1 ADDRESS:

424 SW PINEMOUNT RD

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

33-3S-16-02439-002

Remarks:

GRACE COVENANT SOUTHERN BAPTIST CHURCH

Address Issued By: _____
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.

934

Approved Address

AUG 29 2007

911Addressing/GIS Dept

Grace Covenant Church

4471 US Hwy 90 West
Lake City, FL 32055
(386) 752-0967
(386) 752-1985
gcbc@bellsouth.net

October 30, 2007

Columbia County Building Department
Lake City, Florida

Re: Letter of Authorization

To Whom It May Concern:

Rick Carson is authorized by Grace Covenant Southern Baptist Church to pull any and all permits needed for the building project located at 424 SW Pinemount Road, Lake City, FL 32024, parcel ID # 33-3S-16-02439-002. If you have any questions please call me at (386) 752-0967.

Respectfully,

Vicki Bowen
Secretary

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 33-3S-02439-002

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)*: The South 10 Feet of the North 60 Feet of the East 875 Feet Continued on attached
   a) Street *(job)* Address: 424 S.W Pinemount Road, Lake City, FL 32024
2. General description of improvements: rebuild termite damaged shed

3. Owner Information
   a) Name and address: Grace Covenant Southern Baptist Church, Inc.
   b) Name and address of fee simple titleholder (if other than owner) 424 Pinemount Rd SW Lake City 32024
   c) Interest in property a church and BARN

4. Contractor Information
   a) Name and address: same Grace Covenant Southern Baptist Church, Inc. 424 Pinemount Rd Lake City, FL 32024
   b) Telephone No.: 752-0967 Fax No. (Opt.)

5. Surety Information
   a) Name and address: na
   b) Amount of Bond:
   c) Telephone No.:

Inst:200712025310 Date:11/13/2007 Time:9:12 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 2

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: Larry Saucer 307 Black Pine Terrace, Lake City, FL 32024
   b) Telephone No.: (386) 365-1794 Fax No. (Opt.) (386) 754-1168

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(1)(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):** October 2008

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. Larry Saucer
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

LARRY SAUCER
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 25th day of October, 2007, by: Larry Saucer as Treasurer **(type of authority, e.g. officer, trustee, attorney fact)** for Grace Covenant Southern Baptist Church Inc. **(name of party on behalf of whom instrument was executed).**

Personally Known X OR Produced Identification ____ Type ____

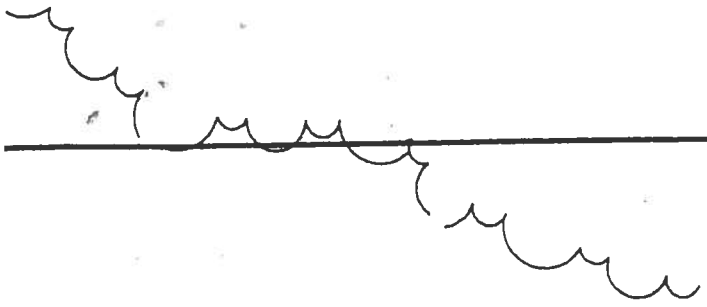
Notary Signature Cynthia Terrio Cynthia Terrio Notary Stamp or Seal:

CYNTHIA TERRIO
MY COMMISSION # DD 321072
EXPIRES: May 18, 2008
Bonded Thru Notary Public Underwriters

—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.

Larry Saucer
Signature of Natural Person Signing (in line #10 above.)



NOT A PART

DESCRIPTION:

COMMENCE at the Southeast corner of Section 33, Township 3 South, Range 16 East, Columbia County, Florida and run North 89°36'03" West along the South line of said Section 33 a distance of 84.95 feet to a point on the Westerly Right-of-Way line of Pinemount Road (County Road 252); thence North 07°15'30" East along said Westerly Right-of-Way line of Pinemount Road (County Road 252) a distance of 611.78 feet to the POINT OF BEGINNING; thence North 89°57'14" West a distance of 892.90 feet; thence North 00°02'46" East a distance of 701.77 feet to a point on the North line of the South 1/2 of the Southeast 1/4 of Section 33; thence South 89°38'39" East along said North line of the South 1/2 of the Southeast 1/4 of Section 33 a distance of 996.28 feet to a point on the Westerly Right-of-Way line of Pinemount Road (County Road 252); thence South 11°44'32" West along said Westerly Right-of-Way line of Pinemount Road (County Road 252) a distance of 313.89 feet; thence South 07°27'43" West still along said Westerly Right-of-Way line of Pinemount Road (County Road 252) a distance of 190.13 feet, thence South 03°36'15" West still along said Westerly Right-of-Way line of Pinemount Road (County Road 252) a distance of 158.31 feet; thence South 07°15'30" West still along said Westerly Right-of-Way line of Pinemount Road (County Road 252) a distance of 42.80 feet to the POINT OF BEGINNING. Containing 15.00 acres, more or less.

18.50
8050.00
8068.50

WARRANTY DEED

THIS INDENTURE, Made this 9th day of August, 2005, between JAMES A. PUESCHEL and JEWEL HUCHINGSON PUESCHEL, both unmarried, whose address is 470 SE Pueschel Drive, Lake City, Florida 32024, Grantors, and GRACE COVENANT SOUTHERN BAPTIST CHURCH, INC., a Florida not-for-profit corporation, whose address is 4471 U. S. Highway 90 West, Lake City, Florida 32055, Grantee,

W I T N E S S E T H:

That said Grantors, for and in consideration of the sum of TEN AND NO/100 ($10.00) DOLLARS, and other good and valuable considerations to said Grantors in hand paid by said Grantee, the receipt whereof is hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's heirs, successors and assigns forever, the following described land, situate, lying and being in COLUMBIA County, Florida, to-wit:

SEE SCHEDULE A ATTACHED HERETO.
[(Tax parcel numbers R02439-000; R02439-001 (cutouts)]

SUBJECT TO: Taxes for 2005 and subsequent years.

And Grantors do hereby fully warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, Grantors have hereunto set their hands and seals the day and year first above written.

Signed, sealed and delivered
in the presence of:

Print Name: Eddie M. Anderson

Print Name: Donna H. Anderson
Witnesses as to Grantors

JAMES A. PUESCHEL

JEWEL HUCHINGSON PUESCHEL

This Instrument Prepared By:
EDDIE M. ANDERSON, P.A.
P. O. Box 1179
Lake City, Florida 32056-1179

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 9th day of August 2005, by JAMES A. PUESCHEL and JEWEL HUCHINGSON PUESCHEL. They are personally known to me or they produced _____ as identification.

(Notarial Seal)

Donna H Anderson
My Commission DD199996
Expires June 13, 2007

Notary Public
My Commission Expires:

Inst:2005019184 Date:08/10/2005 Time:12:15
Doc Stamp-Deed : 8050.00
MK DC,P.DeWitt Cason,Columbia County B:1054 P:1509

SCHEDULE A to WARRANTY DEED

Pueschel to Grace Covenant Southern Baptist Church, Inc.

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Inst:2005019184 Date:08/10/2005 Time:12:15
Doc Stamp-Deed : 8050.00
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GRACE COVENANT STORAGE

Project : STORAGE BLDG
Subject : MWFRS
Location : LAKE CITY

File :
Date : 10/23/2007
Eng. : WBB

Design Wind Pressure, p, Equation 6-18 (ASCE 7-02)

Design wind pressures and forces are determined per equations given in section 6.5.12

System Type	Structure Type	Equation
Main Wind-Force Resisting System	Low-Rise Buildings Gable Roof	*p* : qh·[(GCpf) - (GCpi)] qh : at mean roof height h GCpf : given in Figure 6-10 GCpi : given in Figure 6-5

Velocity Pressure Calculations, qh

Velocity pressure qh is calculated in accordance with section 6.5.10

qh = Velocity pressure @ mean roof height (h) (Eq. 6-15)
qh = Constant · Kh · Kzt · Kd · V^2 ·I
qh = Velocity pressure @ height (h)

Where : Constant = Numerical constant (Section C6.5.10)
= ½ · [(Air density lb/ cu ft) / (32.2 ft/s²)] · [(mi/h)(5280 ft/mi) · (1 hr/3600 s)] ²
= 0.00256

Mean Sea Level = 0.00 ft
Air Density @ MSL = 0.0765 lb/cu ft (Table C6-1)

Category = II (Table 1-1)
Importance Factor = 1 (Table 6-1)

Exposure Category = B (Urban areas)
Alpha = 7.00 (Table 6-2)
Zg = 1,200.00 ft (Table 6-2)

Basic Wind Speed = 110.00 mph (Figure 6-1)
Mean Roof Height = 12.33 ft

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Velocity Pressure Calculations, qz (Cont.)

Where :	Kh	= Velocity pressure coefficient @ height z	(Eq. C6-3a)
		= 2.01 (Z/Zg) ^ (2/Alpha) for 15 ft <= Z <= Zg	(Eq. C6-3b)
		= 2.01 · (15/Zg) ^ (2/Alpha) for Z < 15 ft	
		= 0.70	
	Kzt	= Topographic factor obtained from Fig. 6-4	
		= (1 + K1 · K2 · K3) ²	
	Kzt @ h	= 1.00	
	Topography	= None	
	Kd	= Wind directionality factor obtained from Table 6-4	
		= 0.85	
	qh	= **18.45** (psf)	

Internal Pressure Coefficient, GCpi, Figure 6-5

The internal pressure coefficients are given in Figure 6-5

Enclosure Classification	GCpi+	GCPi-	Ri	GCpi+	GCPi-
Enclosed Buildings	0.18	-0.18	1.00	0.18	-0.18

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External Pressure Coefficient, Cp, Figure 6-10

The pressure force coefficient are given in Figure 6-10

Roof Angle	Building Surface									
	1	2	3	4	5	6	1E	2E	3E	4E
18.43 deg.	0.52	-0.69	-0.47	-0.42	-0.45	-0.45	0.78	-1.07	-0.67	-0.62

Design Wind Pressure, p, (psf) Equation 6-18

Design wind pressures and forces are determined per equations given in section 6.5.12

Building Surface	Cp	qh (psf)	GCpi+	GCpi-	p+ (psf)	p- (psf)
1	0.52	18.45	0.18	-0.18	10.00	12.85
2	-0.69	18.45	0.18	-0.18	-16.05	-10.00
3	-0.47	18.45	0.18	-0.18	-11.96	-10.00
4	-0.42	18.45	0.18	-0.18	-10.98	-10.00
5	-0.45	18.45	0.18	-0.18	-11.62	-10.00
6	-0.45	18.45	0.18	-0.18	-11.62	-10.00
1E	0.78	18.45	0.18	-0.18	11.07	17.71
2E	-1.07	18.45	0.18	-0.18	-23.06	-16.42
3E	-0.67	18.45	0.18	-0.18	-15.74	-10.00
4E	-0.62	18.45	0.18	-0.18	-14.72	-10.00

p+ uses GCpi+ *p- uses GCpi-*

Design Wind Pressure for Overhang, p, Equation 6-18

The design equation has been modified to qh·[(GCpf) - G·(Underside Cp)] for overhang pressures
0.80 is used for Underside Cp instead of GCpi (G = .85)

	Roof Zone	
	2	2E
For roof only	-25.27	-32.28

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GRACE COVENANT STORAGE

Project : STORAGE BLDG
Subject : C&C
Location : LAKE CITY

File :
Date : 10/23/2007
Eng. : WBB

Design Wind Pressure, p, Equation 6-22 (ASCE 7-02)

Design wind pressures and forces are determined per equations given in section 6.5.12

System Type	Structure Type	Equation
Components and Cladding	Low-Rise Buildings and Buildings with h <= 60 ft Gabled, Hipped and Stepped Roofs	*p* : qh·[(GCp) - (GCpi)] qh : at mean roof height GCp : given in Figure 6-11, 6-12 GCpi : given in Figure 6-5

Velocity Pressure Calculations, qh

Velocity pressure qh is calculated in accordance with section 6.5.10

qh = Velocity pressure @ mean roof height (h) (Eq. 6-15)
qh = Constant · Kh · Kzt · Kd · V^2 ·I
qh = Velocity pressure @ mean roof height (h)

Where : Constant = Numerical constant (Section C6.5.10)
= ½ · [(Air density lb/ cu ft) / (32.2 ft/s²)] · [(mi/h)(5280 ft/mi) · (1 hr/3600 s)] ²
= 0.00256

Mean Sea Level = 0.00 ft
Air Density @ MSL = 0.0765 lb/cu ft (Table C6-1)

Category = II (Table 1-1)
Importance Factor = 1.00 (Table 6-1)

Exposure Category = B (Urban areas)
Alpha = 7.00 (Table 6-2)
Zg = 1,200.00 ft (Table 6-2)

Basic Wind Speed = 110.00 mph (Figure 6-1)
Mean Roof Height = 12.33 ft

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GRACE COVENANT STORAGE

Project : STORAGE BLDG
Subject : C&C
Location : LAKE CITY

File :
Date : 10/23/2007
Eng. : WBB

Velocity Pressure Calculations, qz (Cont.)

Where : Kh = Velocity pressure coefficient @ height z (Eq. C6-3a)
= 2.01·(Z/Zg) ^ (2/Alpha) for 15 ft <= Z <= Zg (Eq. C6-3b)
= 2.01 · (15/Zg) ^ (2/Alpha) for Z < 15 ft
= 0.70

Kzt = Topographic factor obtained from Fig. 6-4
= $(1 + K1 \cdot K2 \cdot K3)^2$

Kzt @ h = 1.00

Topography = None

Kd = Wind directionality factor obtained from Table 6-4
= 0.85

qh = **18.45** (psf)

Internal Pressure Coefficient, GCpi, Figure 6-5

The internal pressure coefficients are given in Figure 6-5

Enclosure Classification	GCpi+	GCPi-	Ri	GCpi+	GCPi-
Enclosed Buildings	0.18	-0.18	1.00	0.18	-0.18

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GRACE COVENANT STORAGE

Project : STORAGE BLDG
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External Pressure Coefficient, GCp, Figure 6-11 and Figure 6-12

The pressure force coefficient are given in Figure 6-11 and Figure 6-12

Zone	Area (sq. ft.)	Angle (deg)	GCp+	GCp-	GCp R.O.
1	10.00	18.43	0.30	-0.80	-
2	10.00	18.43	0.50	-1.70	-2.20
3	10.00	18.43	0.50	-2.60	-3.70
4	10.00	All	1.00	-1.10	-
5	10.00	All	1.00	-1.40	-

Design Wind Pressure, p, Equation 6-22

Design wind pressures and forces are determined per equations given in section 6.5.12
Values of external and internal pressures shall be combined algebraically

Zone	qh (psf)	GCp+	GCp-	GCpi+	GCpi-	p1+ (psf)	p2+ (psf)	p1- (psf)	p2- (psf)
1	18.45	0.30	-0.80	0.18	-0.18	10.00	10.00	-18.08	-11.44
2	18.45	0.50	-1.70	0.18	-0.18	10.00	12.54	-34.68	-28.04
3	18.45	0.50	-2.60	0.18	-0.18	10.00	12.54	-51.28	-44.64
4	18.45	1.00	-1.10	0.18	-0.18	15.13	21.77	-23.61	-16.97
5	18.45	1.00	-1.40	0.18	-0.18	15.13	21.77	-29.15	-22.50

p1+ uses GCp+ and GCpi+ *p1- uses GCp- and GCpi+*
p2+ uses GCp+ and GCpi- *p2- uses GCp- and GCpi-*

Roof overhang wind pressures

Zone	qh (psf)	GCp- (R.O.)	p (R.O.) (psf)
1	-	-	-
2	18.45	-2.20	-40.58
3	18.45	-3.70	-68.25

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