

Columbia County Building Permit Application

For Office Use Only Application # 062068 Date Received 10/23 By JTH/TW Permit # 25486
 Application Approved by - Zoning Official BLK Date 27.10.06 Plans Examiner OKJTH Date 12-12-06
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments Per Engineer 1st Floor to be 24" above existing grade - NOC

FAX 754-8819

Applicants Name Frezeil Rowe Phone 386-752-8757
 Address 140 NW Oosterhout Rd, Lake City, FL 32055
 Owners Name Winfield Church of Christ Inc Phone 386-755-3304
 911 Address 267 NW Queen Rd Lake City, FL 32055
 Contractors Name Frezeil Rowe Phone _____
 Address 140 N.W. Oosterhout L.N., L.C. FL 32055
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Nicholas Paul Geister, Rt 17, Box 1038 Lake City 32055
 Mortgage Lenders Name & Address CASH

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 33-25-16-01831-009 Estimated Cost of Construction 150,000
 Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____
 Driving Directions 41 North to Winfield Rd turn right on Queen Rd first Church on right

Type of Construction Church Number of Existing Dwellings on Property 0
 Total Acreage 3 acres Lot Size 3 acres Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 75 Side 51 Side 249 Rear 173
 Total Building Height 27' 1/2 Number of Stories 1 Heated Floor Area 6720 Roof Pitch 12/6

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.

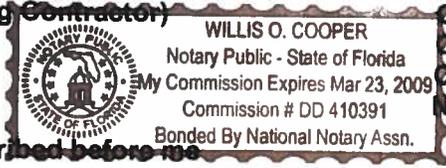
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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.

Nathan & Mary Alyce Carter
 Owner Builder or Agent (Including Contractor)

Frezeil Rowe
 Contractor Signature
 Contractors License Number 820019755
 Competency Card Number _____

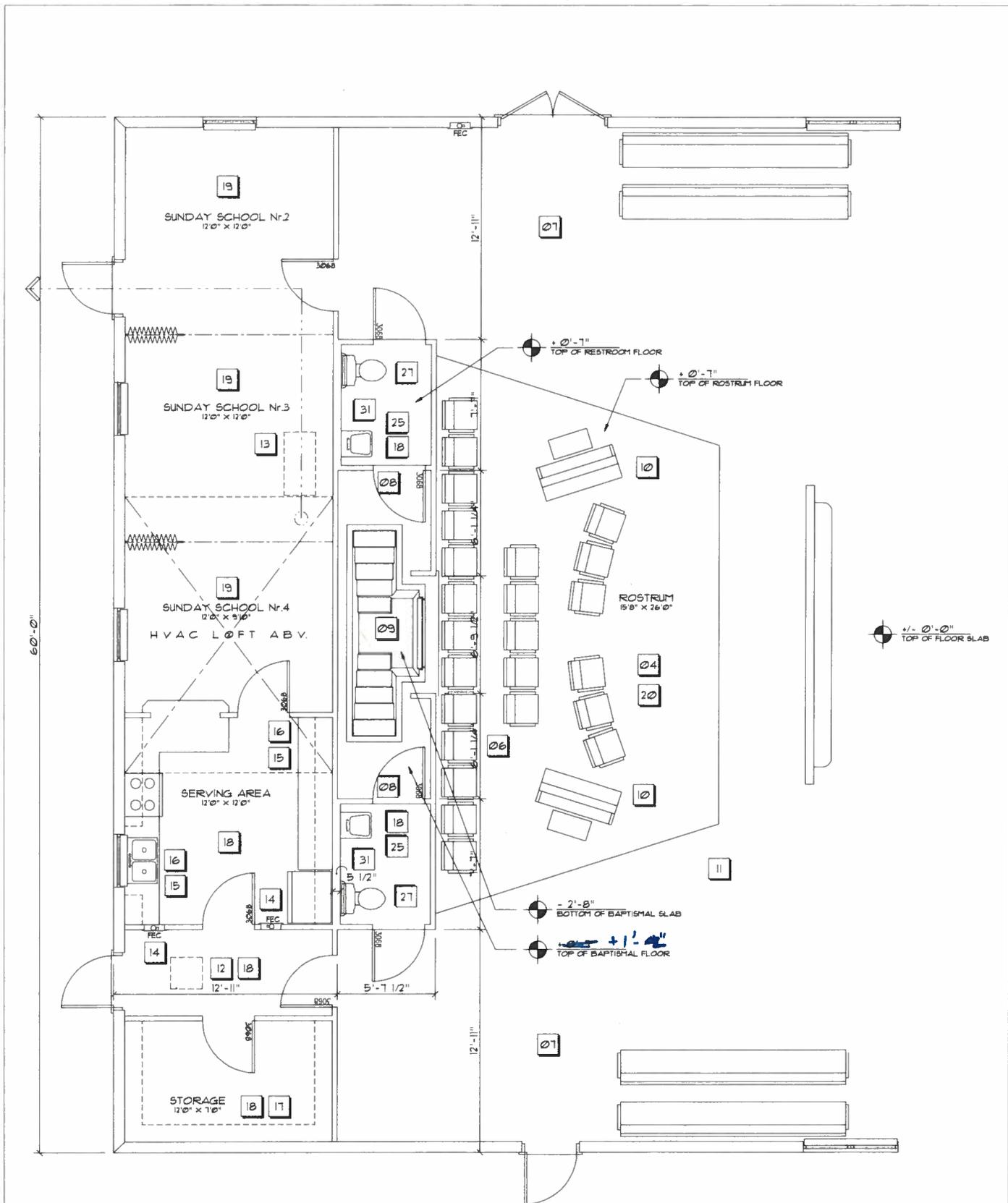
STATE OF FLORIDA
 COUNTY OF COLUMBIA



Sworn to (or affirmed) and subscribed before me
 this 30th day of Sept. 2006.
 Personally known or Produced Identification _____

Willis O. Cooper
 Notary Signature

25486



Floor PLAN

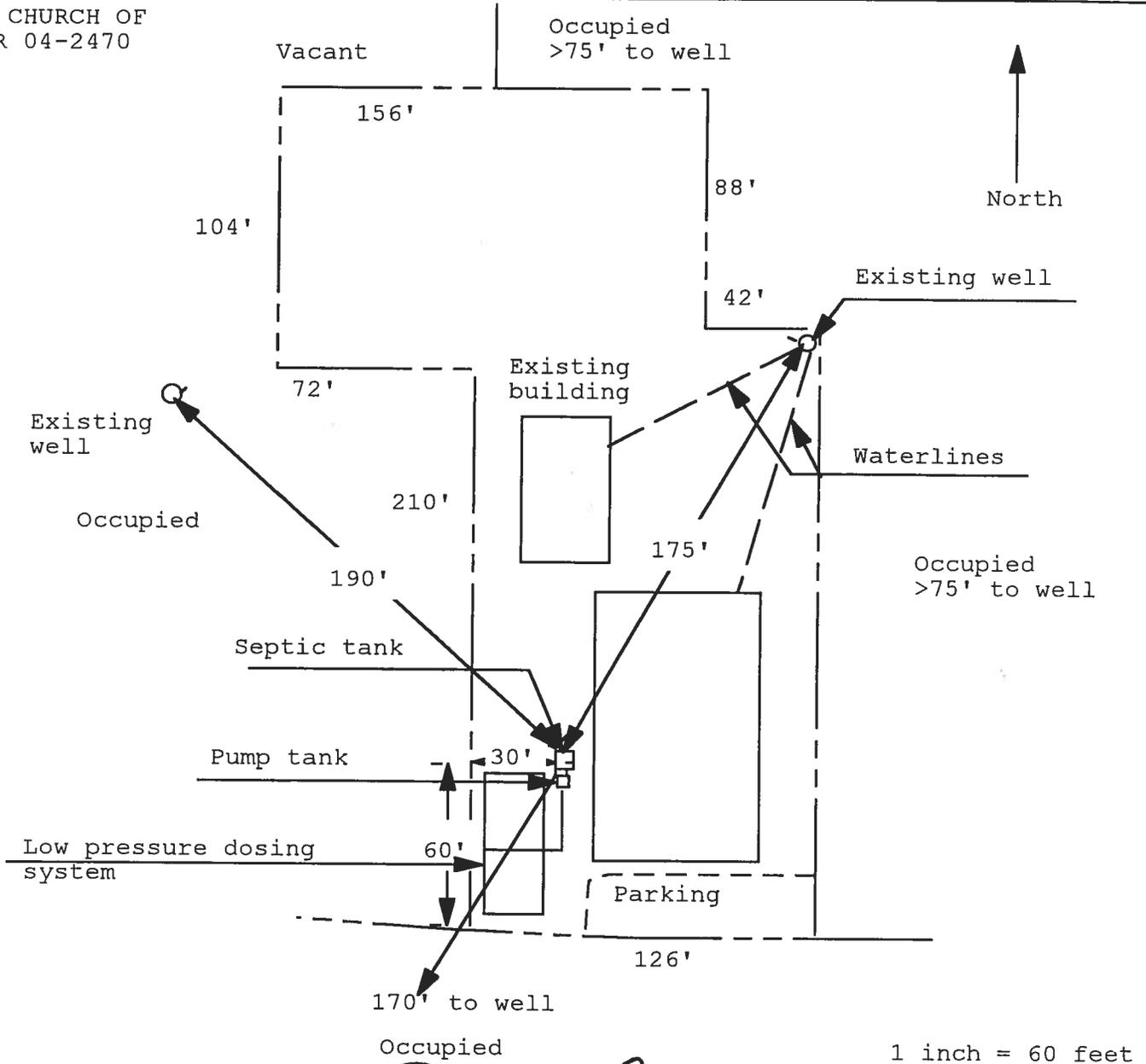
SCALE: 1/8" = 1'-0"

Handwritten signature and date:
APR 7 2005 24 APR 2005
North

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan
Permit Application Number: 05-0164N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

WINFIELD CHURCH OF CHRIST/CR 04-2470



Site Plan Submitted By Paul L. Paul Date 12/9/04
 Plan Approved (Signature) Not Approved (Signature) Date 12/9/04

By (Signature) Salbe Gaddy CPHU

Notes: ES11

Columbia CHD
1-16-07



SUWANNEE RIVER WATER MANAGEMENT DISTRICT

December 13, 2004

Nathan and Mary Alyce Carter
769 Northeast Gurley Avenue
Lake City, Florida 32055

Subject: Receipt of Environmental Resource Permit Application for
Winfield Church of Christ, ERP04-0590, Columbia County

Dear Mr. and Mrs. Carter:

The Suwannee River Water Management District (SRWMD) received your application package on December 13, 2004, for Winfield Church of Christ. Your proposed project has been assigned permit number ERP04-0590, and is currently under review by Resource Management staff. You will receive a response from staff within 30 days after receipt of the application package. This is pursuant to Chapter 120.60(1), Florida Statutes.

Please be advised that it is a violation of SRWMD rules to begin any work on the project before this permit is issued. Your submitted application package does not alleviate you from having to obtain all other clearances, permits, or authorization required by any other unit of local, state, or federal government.

Florida Statutes 373.419 states, "Within 30 days after the completion of construction or alteration of any stormwater management system, dam, impoundment, reservoir, appurtenant work, or works, the permittee shall file a written statement of completion with the governing board..." We will enclose the appropriate forms upon issuance of the permit to satisfy the requirement.

If you have any further questions, please contact Leroy Marshall at 386/362-1001, or toll free at 800/226-1066. In order to better serve you, please include the permit number in all correspondence.

Sincerely,

A handwritten signature in cursive script that reads "Jon Dinges".

Jon Dinges
Director, Resource Management

cc: Winfield Church of Christ

DAVID POPE
Chairman
Alachua, Florida

DON R. EVERETT, JR.
Vice Chairman
Perry, Florida

SYLVIA J. TATUM
Secretary/Treasurer
Lawley, Florida

KELBY ANDREWS
Chiefland, Florida

C. LINDEN DAVIDSON
Lamont, Florida

DON R. EVERETT, JR.
Perry, Florida

GEORGIA C. JONES
Lake City, Florida

OLIVER J. LAKE
Lake City, Florida

JOHN P. MAULTSBY
Madison, Florida

LOUIS C. SHIVER
Mayo, Florida

JERRY A. SCARBOROUGH
Executive Director
Live Oak, Florida



**SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT**

9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

NOTICED GENERAL PERMIT

PERMITTEE:

NATHAN AND MARY ALYCE CARTER
769 NORTHEAST GURLEY AVENUE
LAKE CITY, FL 32055

PERMIT NUMBER: ERP04-0590

DATE ISSUED: 12/15/2004

DATE EXPIRES: 12/15/2007

COUNTY: COLUMBIA

TRS: S33/T2S/R16E

PROJECT: WINFIELD CHURCH OF CHRIST

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

WINFIELD CHURCH OF CHRIST
267 NORTHWEST QUEEN ROAD
LAKE CITY, FL 32055

~~Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource noticed general permit is in effect for the permitted activity description below:~~

Construction and operation of a surfacewater management system serving 0.16 acres of impervious surface on a total project area of 1.00 acres in a manner consistent with the application package submitted by Nathan Carter on December 13, 2004.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing pursuant to ss.120.57(1), Florida Statutes (F.S.), and s.40B-1.511, F.A.C., if they object to the District's actions. Failure to request a hearing within 14 days will constitute a waiver of your right to request such a hearing. In addition, the District will presume that permittee waives Chapter 120, F.S., rights to object or appeal the action upon commencement of construction authorized by the permit.

Project: WINFIELD CHURCH OF CHRIST

Page 2 of 4

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A noticed general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

General Conditions for All Noticed General Permits:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this section are general permit conditions and are binding upon the permittee for all noticed general permits in Part II of this chapter. These conditions are enforceable under Part IV of chapter 373, F.S.
2. The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit. A violation of the permit is a violation of Part IV of chapter 373, F.S., and may result in suspension or revocation of the permittee's right to conduct such activity under the general permit. The District may also begin legal proceedings seeking penalties or other remedies as provided by law for any violation of these conditions.
3. ~~This general permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit.~~
4. This general permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the general permit and Part II of this chapter.
5. This general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to human health or welfare, animal, plant or aquatic life, or property. It does not allow the permittee to cause pollution in contravention of Florida Statutes and District rules.
6. The permittee is hereby advised that s.253.77, F.S., states that a person may not commence any excavation, construction or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the

Project: WINFIELD CHURCH OF CHRIST

Page 3 of 4

Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

7. The authorization to conduct activities pursuant to general permit may be modified, suspended or revoked in accordance with chapter 120, and s.373.429, F.S.

8. This permit shall not be transferred to a third party except pursuant to s.40B-4.1130, F.A.C. The permittee transferring the general permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located.

9. Upon reasonable notice to the permittee, District staff with proper identification shall have permission to enter, inspect, sample and test the permitted system to insure conformity with the plans and specifications approved by the permit.

10. The permittee shall maintain any permitted system in accordance with the plans submitted to the District and authorized by this general permit.

11. A permittee's right to conduct a specific noticed activity under this noticed general permit is authorized for a duration of two years.

12. Construction, alteration, operation, maintenance, removal and abandonment approved by this general permit shall be conducted in a manner which does not cause violations of state water quality standards, including any antidegradation provisions of s.62-4.242(1)(a) and (b), 62-4.242(2) and (3), and 62-302.300, F.A.C., and any special standards for Outstanding Florida Waters and Outstanding National Resource Waters. The permittee shall implement best management practices for erosion, turbidity and other pollution control to prevent violation of state water quality standards.

Temporary erosion control measures such as sodding, mulching, and seeding shall be implemented and shall be maintained on all erodible ground areas prior to and during construction. Permanent erosion control measures such as sodding and planting of wetland species shall be completed within seven days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into wetlands or other surface waters exists due to the permitted activity. Turbidity barriers shall remain in place and shall be maintained in a functional condition at all locations until construction is completed and soils are stabilized and vegetation has been established. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

13. The permittee shall hold and save the District harmless from any and all damages, claims or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the general permit.

Project: WINFIELD CHURCH OF CHRIST

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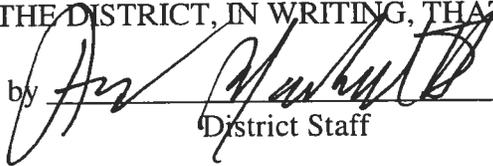
14. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

15. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

~~16. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.~~

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by



District Staff

Date Approved

12/15/04

Home
Property Search
Agriculture Classification
Amendment 10
Exemptions
Tangible Property Tax
Tax Rates
Report & Map Pricing
Important Dates
Office Directory
E-mail us Comments

Parcel ID: 33-2S-16-01831-009 02

Columbia County Property Appraiser

Owner & Property Info

Owner's Name	WINFIELD CHURCH OF CHRIST INC
Site Address	QUEEN
Mailing Address	267 NW QUEEN RD LAKE CITY, FL 32055
Brief Legal	COMM SW COR OF N1/2 OF SE1/4 OF SE1/4, RUN E 420 FT FOR POB, RUN N 210 FT, W 72.21 FT,

Show: [Tax Info](#) | [GIS Map](#) | **Property Card**

Use Desc. (code)	CHURCHES (007100)
Neighborhood	33216.00
Tax District	3
UD Codes	
Market Area	03
Total Land Area	1.000 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (1)	\$6,500.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$33,905.00
XFOB Value	cnt: (1)	\$400.00
Total Appraised Value		\$40,805.00

Just Value	\$40,805.00
Class Value	\$0.00
Assessed Value	\$40,805.00
Exempt Value	(code: 02) \$40,805.00
Total Taxable Value	\$0.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
11/19/2001	940/633	WD	I	U	01	\$100.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1973	Vinyl Side (31)	1920	1984	\$33,905.00
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	2000	\$400.00	1.000	0 x 0 x 0	(.00)

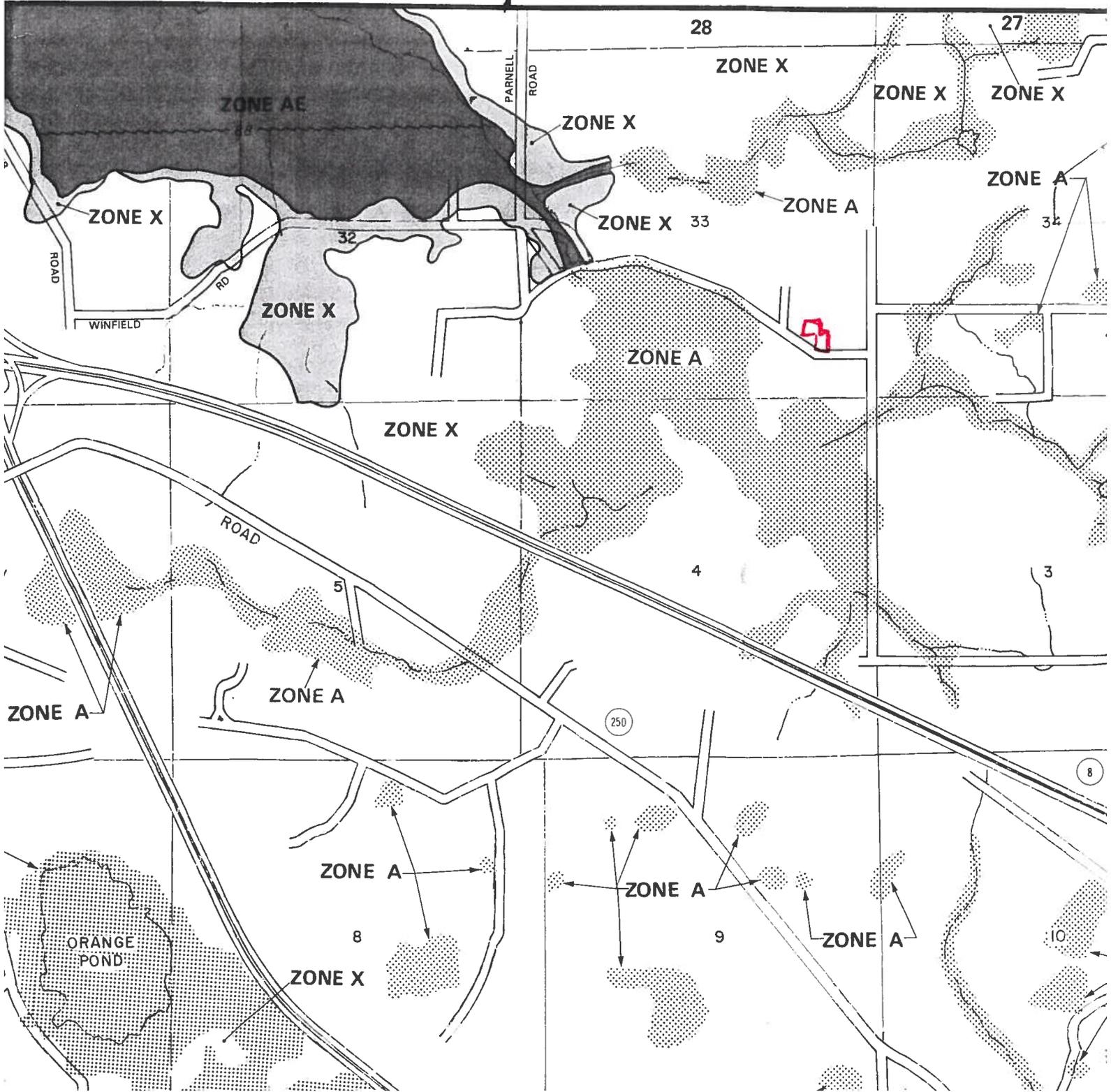
Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
007100	CHURCH (MKT)	1.000 AC	1.00/1.00/1.00/1.00	\$6,500.00	\$6,500.00

Columbia County Property Appraiser

DB Last Updated: 10/8/2004

0610-68



NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

#25486

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION

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

IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE
RECORDING YOUR NOTICE OF COMMENCEMENT.

Tax Parcel ID Number 33-25-16-01831-009 Permit Number _____

1. Description of property: (legal description of the property and street address or 911 address)

Winfield Church of Christ Inc., 267 N. 30 Queen Rd. Lake City,
Florida 32055

2. General description of improvement: New Building

3. Owner Name & Address Winfield Church OF Christ INC. 267 N. 30
Queen Rd Lake City Florida 32055 Interest in Property _____

4. Name & Address of Fee Simple Owner (if other than owner): _____

5. Contractor Name Frezell Rowe Phone Number 752-8941
Address 140 N.W. oosterhoudt Rd. Lake City, Florida 32055

6. Surety Holders Name _____ Phone Number _____
Address _____

Amount of Bond _____ Inst:2007002871 Date:02/06/2007 Time:12:56
D. F DC, P. DeWitt Cason, Columbia County B:1109 P:2639

7. Lender Name _____
Address _____

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be
served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name _____ Phone Number _____
Address _____

9. In addition to himself/herself the owner designates _____ of
_____ to receive a copy of the Lien Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee _____

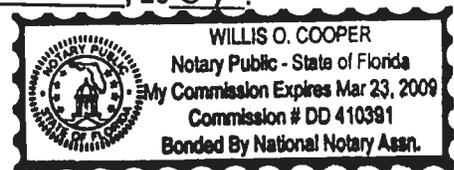
10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of
recording, (Unless a different date is specified) _____

THE OWNER MUST SIGN THE NOTICE OF COMMENCEMENT AND NO ONE ELSE MAY BE PERMITTED TO SIGN
IN HIS/HER STEAD.

Ernest Carter
Signature of Owner

Sworn to (or affirmed) and subscribed before day of Feb. 6, 2007.

Willis O. Cooper NOTARY STAMP/SEAL
Signature of Notary



Florida Energy Efficiency Code For Building Construction
Florida Department of Community Affairs
EnergyGauge FlaCom v 2.11 FORM 400A-2004
Whole Building Performance Method for Commercial Buildings

Jurisdiction: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

Short Desc: New Prj

Project: WINFIELD CHURCH OF CHRIST

Owner: -

Address: -

City: LAKE CITY

State: FL

Zip: 32055

PermitNo: 0

Storeys: 1

Type: Religious Building

***Conditioned Area:** 6720

* denotes lighted area.

Class: New Finished building

***Cond + UnCond Area:** 6720

Does not include wall
crosection areas

Max Tonnage: 4.5 (if different, write in)

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	7,989.56	9,631.91	PASSES
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			PASSES
PLANT			None Entered
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			PASSES
Met all required compliance from Check List?			Yes/No/NA

IMPORTANT NOTE: An input report Print-Out from EnergyGauge Com of this design building must be submitted along with this Compliance Report.

COMPLIANCE CERTIFICATION:

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

PREPARED BY: NICHOLAS GEISLER

DATE: AR 7005
15 NOV 2006

I hereby certify that this building is in compliance with the Florida Energy Efficiency Code.

OWNER AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____

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

ARCHITECT : _____

ELECTRICAL SYSTEM DESIGNER _____

LIGHTING SYSTEM DESIGNER: _____

MECHANICAL SYSTEM DESIGNER: _____

PLUMBING SYSTEM DESIGNER: _____

REGISTRATION No.
NICHOLAS GEISLER AR 000 7005
15 NOV 2006

(*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: New Prj
 Title: WINFIELD CHURCH OF CHRIST
 Type: Religious Building
 (WEA File: JACKSONVILLE.TMY)

Whole Building Compliance

	Design	Reference
Total	<i>83.44</i>	<i>100.00</i>
	<i>\$7,989.56</i>	<i>\$9,631.91</i>
ELECTRICITY(MBtu/kWh/\$)	<i>83.44</i>	<i>100.00</i>
	<i>157,585.00</i>	<i>188,861.00</i>
	<i>\$7,989.56</i>	<i>\$9,631.91</i>
AREA LIGHTS	<i>21.60</i>	<i>24.89</i>
	<i>40,791.00</i>	<i>47,002.00</i>
	<i>\$2,068.10</i>	<i>\$2,397.10</i>
MISC EQUIPMT	<i>5.21</i>	<i>5.21</i>
	<i>9,845.00</i>	<i>9,845.00</i>
	<i>\$499.14</i>	<i>\$502.10</i>
PUMPS & MISC	<i>0.03</i>	<i>0.03</i>
	<i>59.00</i>	<i>59.00</i>
	<i>\$2.99</i>	<i>\$3.01</i>
SPACE COOL	<i>26.92</i>	<i>36.48</i>
	<i>50,830.00</i>	<i>68,888.00</i>
	<i>\$2,577.08</i>	<i>\$3,513.29</i>
VENT FANS	<i>29.68</i>	<i>33.39</i>
	<i>56,060.00</i>	<i>63,067.00</i>
	<i>\$2,842.24</i>	<i>\$3,216.42</i>

Credits & Penalties (if any): Modified Points: = 83.45

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

External Lighting Compliance

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Building Entrance with (or free standing) Canopy	3.00	176.0	528	100
Ext Light 2	Building exit	20.00	15.0	300	60

Design: 340 (W)
Allowance: 828 (W)

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compliance
Pr0Zo1Sp1	.001	Worship-Pulpit, Choir	5,940	1	22	3	PASSES
Pr0Zo1Sp2	14	Classroom/Lecture Hall	780	1	9	1	PASSES

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0.89	0.86			PASSES

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILL

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
Domestic and Service Hot Water Systems	0.75	False	125.00	0.28	0.60	0.50	PASSES

PASSES

Project: New Prj
Title: WINFIELD CHURCH OF CHRIST
Type: Religious Building
(WEA File: JACKSONVILL

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	<input type="checkbox"/>
System	407.1	HVAC Load sizing has been performed	<input type="checkbox"/>
Ventilation	409.1	Ventilation criteria have been met	<input type="checkbox"/>
ADS	410.1	Duct sizing and Design have been performed	<input type="checkbox"/>
T & B	410.1	Testing and Balancing will be performed	<input type="checkbox"/>
Motors	414.1	Motor efficiency criteria have been met	<input type="checkbox"/>
Lighting	415.1	Lighting criteria have been met	<input type="checkbox"/>
O & M	102.1	Operation/maintenance manual will be provided to owner	<input type="checkbox"/>
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	<input type="checkbox"/>
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	<input type="checkbox"/>

EnergyGauge FlaCom v 2.11
INPUT DATA REPORT

Project Information

Project Name: New Prj	Orientation: South
Project Title: WINFIELD CHURCH OF CHRIST	Building Type: Religious Building
Address: - -	Building Classification: New Finished building
State: FL	No.of Storeys: 1
Zip: 32055	GrossArea: 6720
Owner: -	

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]
1	Pr0Zo1	Zone 1	CONDITIONED	6720.0	1	6720.0

Spaces

No	Acronym	Description	Type	Depth [ft]	Height [ft]	Width [ft]	Multi plier	Total Area [sf]	Total Volume [cf]
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In Zone: Pr0Zo1											
1	Pr0Zo1Sp1	Zo0Sp1	Worship-Pulpit, Choir	99.00	60.00	10.67	1	5940.0	63379.8	<input type="checkbox"/>	
2	Pr0Zo1Sp2	Zo0Sp2	Classroom/Lecture Hall	13.00	60.00	10.67	1	780.0	8322.6	<input type="checkbox"/>	

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts
In Zone: Pr0Zo1							
In Space: Pr0Zo1Sp1							
1	Compact Fluorescent	General Lighting	39	80	3120	Manual On/Off	9 <input type="checkbox"/>
2	Incandescent	General Lighting	35	60	2100	Manual On/Off	11 <input type="checkbox"/>
3	Incandescent	General Lighting	10	720	7200	Manual On/Off	2 <input type="checkbox"/>
4	Incandescent	Display/Accent Lighting	1	300	300	Manual On/Off	1 <input type="checkbox"/>
In Space: Pr0Zo1Sp2							
1	Compact Fluorescent	General Lighting	9	80	720	Manual On/Off	6 <input type="checkbox"/>
2	Incandescent	General Lighting	3	60	180	Manual On/Off	3 <input type="checkbox"/>

Walls

No	Description	Type	Width H (Effec) [ft]	Multi plier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]	
In Zone: Pr0Zo1											
1	Pr0Zo1Wa1	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	60.00	10.67	1	640.2	South	0.2067	5.7314	34.65	4.84 <input type="checkbox"/>
2	Pr0Zo1Wa2	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	112.00	10.67	1	1195.0	West	0.2067	5.7314	34.65	4.84 <input type="checkbox"/>

3	Pr0Zo1Wa3	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	60.00	10.67	1	640.2	North	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>
4	Pr0Zo1Wa4	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	112.00	10.67	1	1195.0	East	0.2067	5.7314	34.65	4.84	<input type="checkbox"/>

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHG	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]
In Zone: Pr0Zo1										
In Wall: Pr0Zo1Wa1										
1	Pr0Zo1Wa1Wi1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	2	30.0
2	Pr0Zo1Wa1Wi2	User Defined	Yes	1.2500	0.70	0.58	3.00	5.00	2	30.0
In Wall: Pr0Zo1Wa2										
1	Pr0Zo1Wa2Wi1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	3	45.0
2	Pr0Zo1Wa2Wi2	User Defined	No	1.2500	0.70	0.58	5.67	6.83	3	116.2
In Wall: Pr0Zo1Wa3										
1	Pr0Zo1Wa3Wi1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	2	30.0
2	Pr0Zo1Wa3Wi2	User Defined	No	1.2500	0.70	0.58	3.00	3.00	1	9.0
In Wall: Pr0Zo1Wa4										
1	Pr0Zo1Wa4Wi1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	2	30.0
2	Pr0Zo1Wa4Wi2	User Defined	No	1.2500	0.70	0.58	5.67	6.83	3	116.2

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. Heat Cap. [lb/cf]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1										
In Wall: Pr0Zo1Wa1										
1	Pr0Zo1Wa1Dr1	Panel with 1-1/8" panels	No	3.00	6.67	2	20.0	0.5834	0.00	1.71
In Wall: Pr0Zo1Wa2										

1	Pr0Zo1Wa2Dr1	Panel with 1-1/8" panels	No	3.00	6.67	1	20.0	0.5834	0.00	0.00	1.71	<input type="checkbox"/>
In Wall: Pr0Zo1Wa3												
1	Pr0Zo1Wa3Dr1	Panel with 1-1/8" panels	No	3.00	6.67	2	20.0	0.5834	0.00	0.00	1.71	<input type="checkbox"/>
In Wall: Pr0Zo1Wa4												
1	Pr0Zo1Wa4Dr1	Panel with 1-1/8" panels	No	3.00	6.67	1	20.0	0.5834	0.00	0.00	1.71	<input type="checkbox"/>

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap Dens. [Btu/sf. F]	R-Value [h.s.f.F/Btu]		
In Zone: Pr0Zo1												
1	Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	33.50	112.00	1	3752.0	27.00	0.0320	1.50	8.22	31.24	<input type="checkbox"/>
2	Pr0Zo1Rf2	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	33.50	112.00	1	3752.0	27.00	0.0320	1.50	8.22	31.24	<input type="checkbox"/>

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier [ft]	Area [Sf]	Total Area [Sf]	
In Zone: Pr0Zo1											
In Roof:											
										<input type="checkbox"/>	

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. Dens. [Btu/sf. F]	R-Value [h.s.f.F/Btu]
In Zone: Pr0Zo1									

1	Pr0Zo1F11	Concrete floor, carpet and rubber pad	60.00	112.00	1	6720.0	0.5987	9.33	140.00	1.67	<input type="checkbox"/>
---	-----------	---	-------	--------	---	--------	--------	------	--------	------	--------------------------

Systems

Pr0Sy1		System 1	Constant Volume Air Cooled Split System < 65000 Btu/hr				No. Of Units	4
Component	Category		Capacity	Efficiency	IPLV			
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)		53500.00	13.50	8.00		<input type="checkbox"/>	
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)		2000.00	0.80			<input type="checkbox"/>	
Pr0Sy2		System 2	Constant Volume Air Cooled Split System < 65000 Btu/hr				No. Of Units	1
Component	Category		Capacity	Efficiency	IPLV			
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)		35000.00	14.00	8.00		<input type="checkbox"/>	
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)		1200.00	0.80			<input type="checkbox"/>	
Pr0Sy3		System 3	Constant Volume Air Cooled Split System < 65000 Btu/hr				No. Of Units	1
Component	Category		Capacity	Efficiency	IPLV			
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)		41000.00	14.00	8.00		<input type="checkbox"/>	
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)		1400.00	0.80			<input type="checkbox"/>	

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV
					<input type="checkbox"/>

Water Heaters

W-Heater Description	Capacit Cap. Unit	I/P Rt.	Efficienc	Loss
1 Electric water heater	50 [Gal]	5 [kW]	0.8900 [Ef]	[Btu/h] <input type="checkbox"/>

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 1	Building Entrance with (or free standing) Canopy	1	100	176.00	Photo Sensor control	100.00 <input type="checkbox"/>
2 Ext Light 2	Building exit	4	60	15.00	Photo Sensor control	240.00 <input type="checkbox"/>

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
1	Domestic and Service Hot Water Systems	125.00	0.28	0.75	0.60	No <input type="checkbox"/>

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
ASHULTrnAllFr m	User Defined	1	1.2500	0.7000	0.5800 <input type="checkbox"/>

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	Mat1187	GYP OR PLAS BOARD, 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000
151	Mat1151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000
178	Mat1178	CARPET W/RUBBER PAD	Yes	1.2300				
268	Mat1268	0.625" stucco	No	0.1302	0.0521	0.4000	16.00	0.2000
42	Mat142	8 in. Lightweight concrete block	No	2.0212	0.6670	0.3300	38.00	0.2000
269	Mat1269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000
12	Mat112	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000
23	Mat123	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000
81	Mat181	ASPHALT-ROOFING, ROLL	Yes	0.1500				
244	Mat1244	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]
1004	Concrete floor, carpet and rubber pad	No	No	0.60	9.33	140.00	1.6703

Layer	Material No.	Material	Thickness [ft]	Framing Factor
1	151	CONC HW, DRD, 140LB, 4IN	0.3333	0.00
2	178	CARPET W/RUBBER PAD		0.00

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1011	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	No	No	0.21	5.73	34.65	4.8368	
	Layer	Material No.	Material	Thickness [ft]	Framing Factor			
	1	268	0.625" stucco	0.0521	0.00		<input type="checkbox"/>	
	2	42	8 in. Lightweight concrete block	0.6670	0.00		<input type="checkbox"/>	
	3	269	.75" ISO BTWN24" oc	0.0625	0.00		<input type="checkbox"/>	
	4	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.00		<input type="checkbox"/>	
	No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]
1026	Panel with 1-1/8" panels	No	Yes	0.58			1.7141	
	Layer	Material No.	Material	Thickness [ft]	Framing Factor			
	1	277	Panel with 1-1/8" panels (1.75")		0.00		<input type="checkbox"/>	
	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	Shng/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	No	No	0.03	1.50	8.22	31.2351	
	Layer	Material No.	Material	Thickness [ft]	Framing Factor			
	1	81	ASPHALT-ROOFING, ROLL		0.00		<input type="checkbox"/>	
	2	244	PLYWOOD, 1/2IN	0.0417	0.00		<input type="checkbox"/>	
	3	12	3 in. Insulation	0.2500	0.00		<input type="checkbox"/>	
	4	23	6 in. Insulation	0.5000	0.00		<input type="checkbox"/>	
	5	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.00		<input type="checkbox"/>	

Notice of Treatment

12463

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 536 SE BAYA AVE

City LAKE CITY

Phone 752 1703

Site Location: Subdivision

Winfield Church

Lot #

Block#

Permit # 25486

Address 267 NW Queen Rd.

L.C.

Product used	Active Ingredient	% Concentration
<input type="checkbox"/> Dursban TC	Chlorpyrifos	0.5%
<input type="checkbox"/> Termidor	Fipronil	0.06%
<input type="checkbox"/> Bora-Care	Disodium Octaborate Tetrahydrate	23.0%
<input checked="" type="checkbox"/> Premise		12

Type treatment:

Soil

Wood

Area Treated

Church

Square feet

6900

Linear feet

374

Gallons Applied

500gals

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 _____

5-14-07

Date

12:50

Time

F299

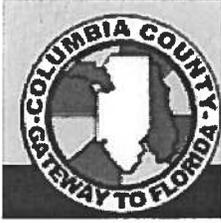
Print Technician's Name

Remarks:

Applicator - White

Permit File - Canary

Permit Holder - Pink



From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: **0610-68**

Frezell Rowe as the contractor for owners Windfield Church of Christ Inc.
Property ID 33-2s-16-01831-009

On the date of October 26, 2006 application 0610-68 and plans for construction of a group A-3 assembly structure (church) were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0610-68 and when making reference to this application.

This is a plan review for compliance with the Florida Building Codes 2004 only and doesn't make any consideration toward the land use and zoning requirements.

1. Sections 106.3.5 of the building code minimum plan review criteria for buildings requires that a soil conditions/analysis be preformed to the following standards:

Section 1802.6 soil reports

The soil classification and design load-bearing capacity shall be shown on the construction document. Where required by the building official, a written report of the investigation shall be submitted that includes, but need not be limited to, the following information:

1. A plot showing the location of test borings and/or excavations.
2. A complete record of the soil samples.
3. A record of the soil profile.
4. Elevation of the water table, if encountered.
5. Recommendations for foundation type and design criteria, including but not limited to: bearing capacity of natural or compacted soil; provisions to mitigate the effects of expansive soils; mitigation of the effects of liquefaction, differential settlement and varying soil strength; and the effects of adjacent loads.
6. Expected total and differential settlement.
7. Pile and pier foundation information in accordance with Section 1808.2.2.
8. Special design and construction provisions for footings or foundations founded on expansive soils, as necessary.
9. Compacted fill material properties and testing in accordance with Section 1803.5

2. Provide a detail of the protection method of type V A (protected) structure for the following building elements (one hours) structural frame including columns, girders, trusses, bearing walls, exterior, interior, roof construction, including supporting beams and joists.

3. Provide the Florida Energy Efficiency Code for Building Construction, information of section 13-101.1 commercial building compliance methods. Commercial buildings of any size and multiple-family residential buildings greater than three stories shall comply with Subchapter 13-4 of the code. This chapter contains three compliance methods:

Method A: Whole Building Performance Method

Method B: Building Envelope Trade-off Method

Method C: Buildings Prescriptive Envelope Method

4. Provide one additional emergency light in the men's and women's bathrooms. One additional emergency light in nursery room and one additional emergency light in Sunday school room nr.5

5. Show the egress path from the second story mechanical room (Mechanical equipment rooms with no fuel-fired equipment shall be permitted to have a common path of travel not exceeding 100 feet).

6. Show the method of guards for the doors which provides access to the equipment in the second floor mechanical room.

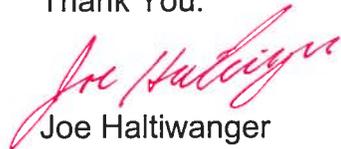
1012.5 Mechanical equipment.

Guards shall be provided where appliances, equipment, fans or other components that require service are located within 10 feet (3048 mm) of a roof edge or open side of a walking surface and such edge or open side is located more than 30 inches (762 mm) above the floor, roof or grade below. The guard shall be constructed so as to prevent the passage of a 21-inch-diameter (533 mm) sphere.

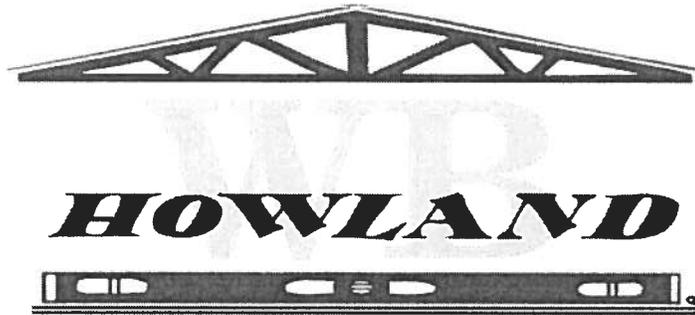
- 7.** Show the method of providing a one hour fire barrier which will separate the mechanical room from the A-3 assembly area.
- 8.** Have the truss designer certify that the truss design and floor system will have sufficient live load bearing capacity to support the concentrated load applied by the HVAC equipment.

The revised plans will be forwarded to the Columbia County Fire Department for review of life safety code requirements once the above requirements are met.

Thank You:



Joe Haltiwanger
Plan Examiner
Columbia County Building
Department



Hardware & Building Materials
Roof & Floor Trusses
Equipment Rental
P.O. Box 700
Live Oak, Fl. 32064
(386) 362-1235
Fax (386) 362-7124
www.WBHowland.com

9/29/06

Job Number: 1821 **Date: 9/29/06**
Floor Trusses
Job Name: Carter / Winfield Church
Approved by: _____

Please find enclosed two sets of sealed drawings and a layout for permitting. Also enclosed is another set of sealed drawings, a layout, notes, etc. for *your* review. You may wish to review this package with one or all of the following professionals: plan designer, engineer of record, building contractor, professional framer.

Careful review is important as trusses will be built in strict accordance with the enclosed layout and drawings.

A delivery pack will come with your trusses on the day of delivery. This pack contains BCSI-B1 summary sheet, truss layout, sealed drawings, etc. The BCSI-B1 sheet is a “guide for handling, installing and bracing of metal plate connected wood trusses”. You should review this guide carefully as the installation and bracing of trusses requires extreme care. We will gladly furnish you with a copy of this guide in advance of delivery upon request.

We are four weeks out on deliveries.

We appreciate your business!

PLEASE REVIEW LAYOUT
AND DRAWINGS CAREFULLY
AS TRUSSES WILL BE BUILT
IN STRICT ACCORDANCE WITH
THIS LAYOUT.

DATE: 9/29/06
ROOF PITCH: 6/12
CLG. PITCH: FLAT
OVERHANG: 2'
LOADING: 40#s PSF
WIND LOAD: 110 MPH
EXT. WALLS: 8" CMU
AT 10' HT.

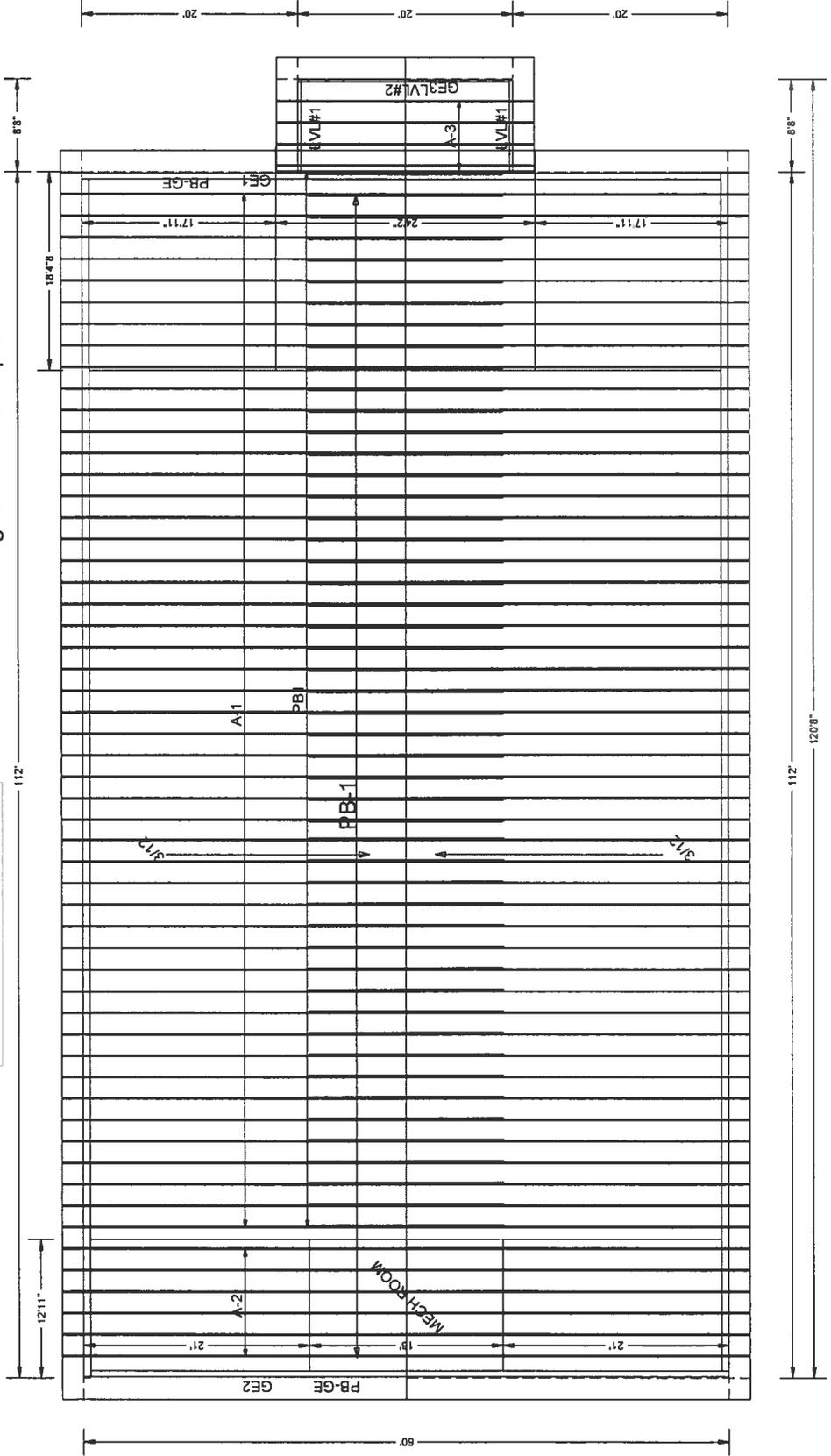
MECH ROOM SIZE:
18' 1 5/8" X 8'

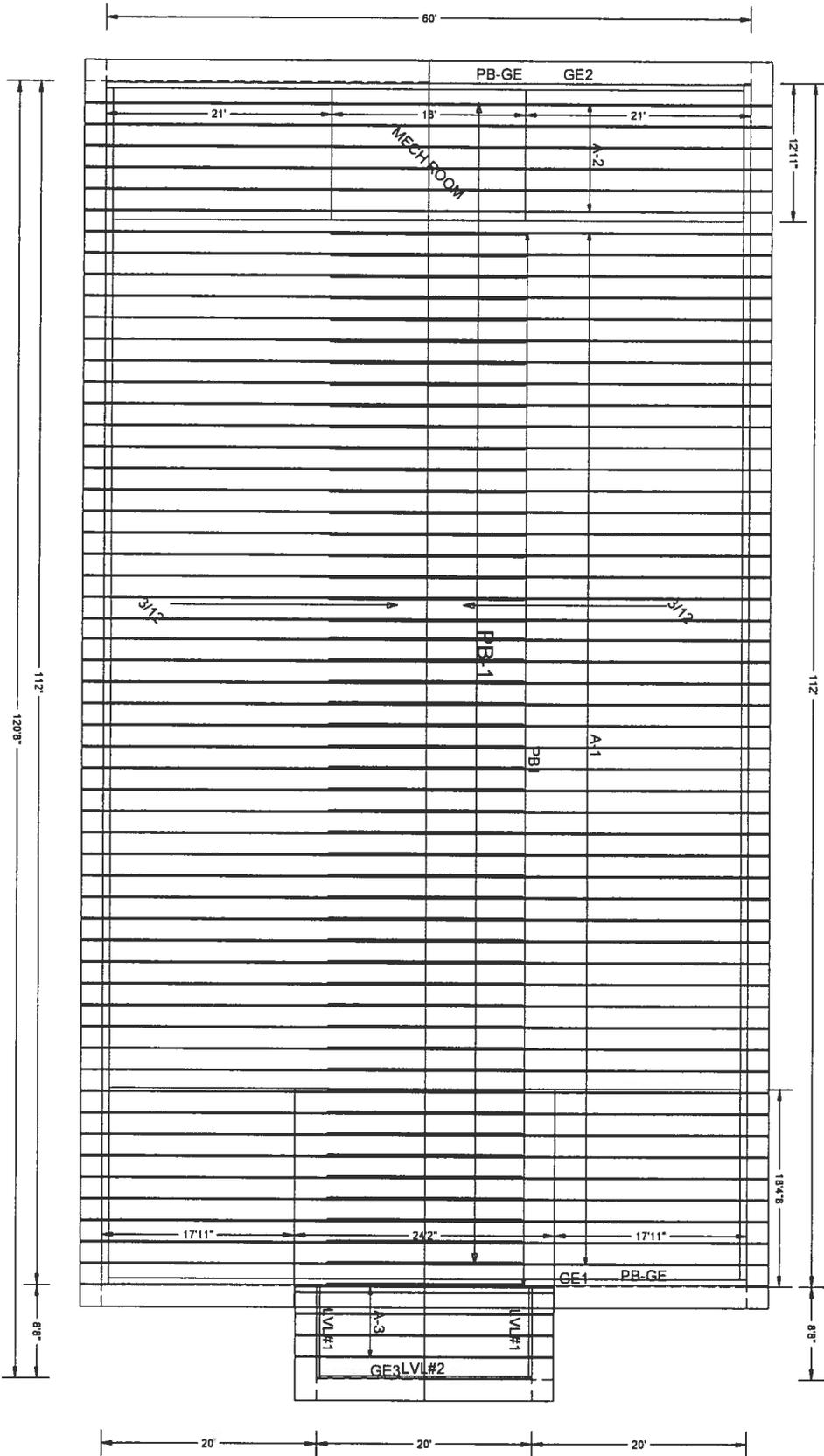
Roof Plane Sheathing Area = 8587 sq. ft
Gable Sheathing Area = 957 sq. ft
Total Sheathing Area = 9544 sq. ft
Fascia Material = 423 linear ft
Ridge Cap Material = 127 linear ft

TOP CHORD LENGTH
35' 9 5/16"

Roof Plane Sheathing Area = 8587 sq. ft

QUOTE UPDATE,
9/22/06





PLEASE REVIEW LAYOUT AND DRAWINGS CAREFULLY AS TRUSSES WILL BE BUILT IN STRICT ACCORDANCE WITH THIS LAYOUT.

DATE 9/29/06
 ROOF PITCH 6/12
 CLG. PITCH FLAT
 OVERHANG 2'
 LOADING: 40#5 PSF
 WIND LOAD: 110 MPH
 EXT. WALLS: 8" CMU
 AT 10' HT.

Roof Plane Sheathing Area = 8587 sq. ft
 Gable Sheathing Area = 957 sq. ft
 Total Sheathing Area = 9544 sq. ft
 Fascia Material = 423 linear ft
 Ridge Cap Material = 127 linear ft

TOP CHORD LENGTH
 35' 9 5/16"
 Roof Plane Sheathing Area = 8587 sq. ft

QUOTE UPDATE:
 9/22/06

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1T0Z215-Z0428080933

Truss Fabricator: W.B. Howland
Job Identification: 1821-/CARTER//WINFIELD CHURCH /HOUSE ACCOUNT -- , **
Truss Count: 9
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.25.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed



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
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Seal Date: 09/28/2006

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-A11030EE-GBLLETIN-MAX DEAD LOAD-A11015EE-

#	Ref	Description	Drawing#	Date
1	10834--A-1		06270059	09/27/06
2	10835--A-2		06270060	09/27/06
3	10836--A-3		06270058	09/27/06
4	10837--GE1		06270061	09/27/06
5	10838--GE2		06270062	09/27/06
6	10839--GE3		06270063	09/27/06
7	10840--PB1		06270065	09/27/06
8	10841--PB-1		06270066	09/27/06
9	10842--PB-GE		06270067	09/27/06



Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Page 1 of 1 Document ID:1T0Z215-Z0428080933

Truss Fabricator: W.B. Howland
Job Identification: 1821-/CARTER//WINFIELD CHURCH /HOUSE ACCOUNT -- , **
Truss Count: 1
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software,Version 7.25.
Structural Engineer of Record:
Address:
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

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
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Seal Date: 09/28/2006

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Revised Trusses

#	Ref	Description	Drawing#	Date
1	10839--	GE3	06270063	09/27/06



110 mph wind, 15.27 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

(A) 1x4 "T" brace. 80% length of web member. Same species & grade or better. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

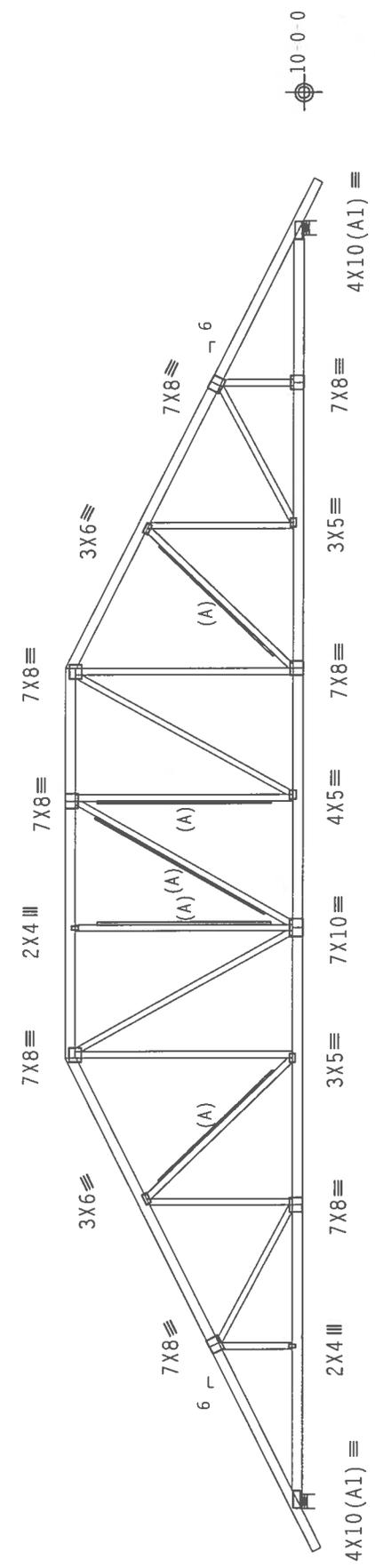
The overall height of this truss excluding overhang is 11'-0".

Top chord 2x6 SP #2 N
Bot chord 2x6 SP #2 N
Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



2'-0" 2'-0" 20-11-3 18-1-10 60-0-0 Over 2 Supports R=2598 U=260 W=8"

PLT TYP. Wave\R

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/-/R/- Scale = .125"/Ft.

TC LL	20.0 PSF	REF	R215-- 10834
TC DL	10.0 PSF	DATE	09/27/06
BC DL	10.0 PSF	DRW	HCUJR215 06270059
BC LL	0.0 PSF	HC-ENG	EC/MHK
TOT.LD.	40.0 PSF	SEQN-	27526
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	REF-	1T0Z215_Z04

ALPINE ENGINEERED PRODUCTS, INC.
1950 MARY DRIVE
HAINES CITY, FL 33844
FL Certificate of Authorization # 567

Professional Engineer
STATE OF FLORIDA
No. 8222
Sep 28 06

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 DUNDAS DR., SUITE 200, MADISON, WI 53719) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LN., FOND DU LAC, WI 53731) FOR BEST PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAIL FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLATION AND BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (4.11/5/5) ASTM A653 GRADE 40/60 (4. K/H-S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-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.

Top chord 2x4 SP #2 N
 Bot chord 2x4 SP #2 N
 Webs 2x4 SP #2 N

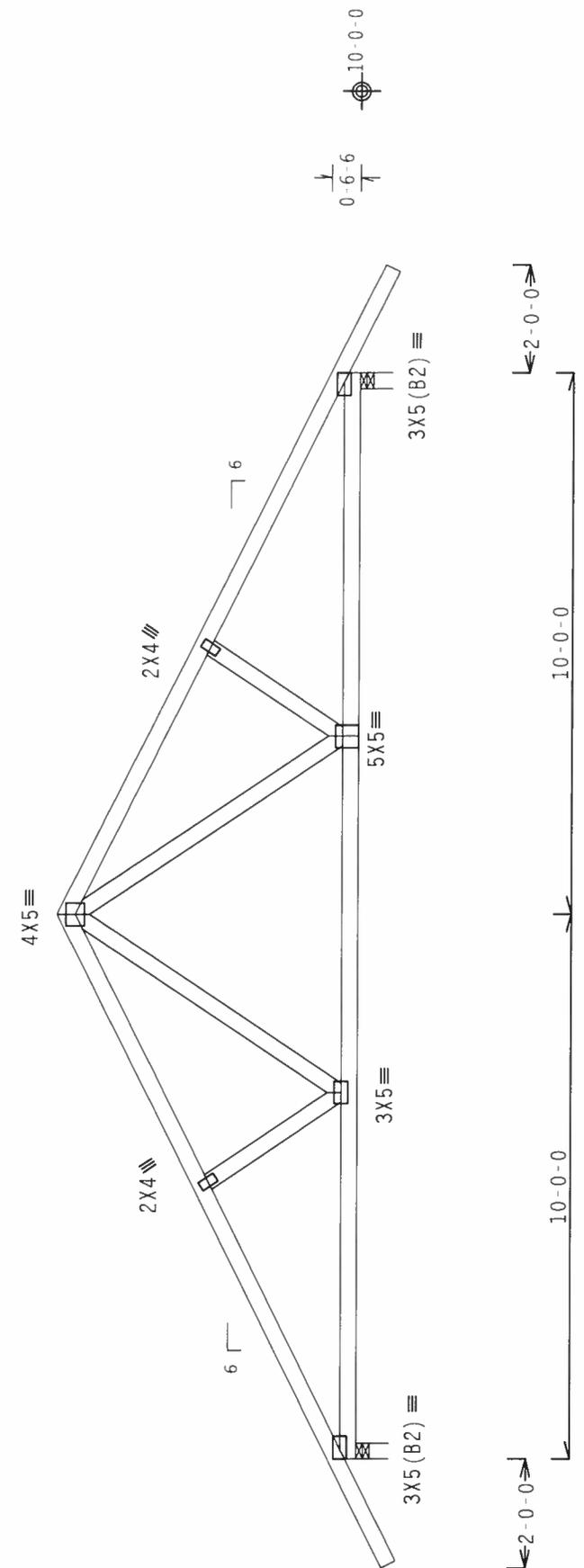
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 total load.

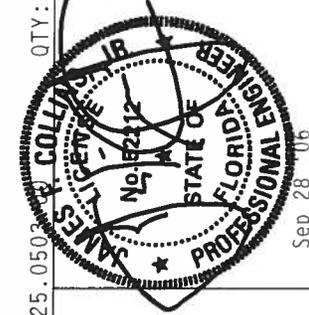
Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 5-6-6.



10-0-0
 10-0-0
 20-0-0 Over 2 Supports
 R=953 U=180 W=3.5"
 R=953 U=180 W=3.5"

PLT TYP. Wave\ R	Design Crit: TPI-2002(STD)/FBC	QTY: 1	FL / - / 5 / - / - / R / -	Scale = .3125" / Ft.
ALPINE Alpine Engineered Products, Inc. 1950 Marley Drive Haines City, FL 33844 FL Certificate of Authorization # 567	Design Crit: TPI-2002(STD)/FBC	TC LL	20.0 PSF	REF R215-- 10836
		TC DL	10.0 PSF	DATE 09/27/06
		BC DL	10.0 PSF	DRW HCUSR215 06270058
		BC LL	0.0 PSF	HC-ENG EC/WHK *
		TOT.LD.	40.0 PSF	SEQN- 27086
		DUR.FAC.	1.25	FROM LRB
		SPACING	24.0"	JREF- 1T0Z215_Z04



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 563 HANCOCK RD., SUITE 200, MADISON, WI 53719), AND NECA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, HAYESVILLE, NC 28742) FOR THE LATEST REVISIONS TO THESE PRACTICES. ALL TRUSSES SHALL BE PROPERLY ATTACHED TO THE STRUCTURE. TOP CHORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN. ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. APPLY CONNECTOR PLATES MADE OF 20/18/16GA (N./I./S./K) ASTM A653 GRADE 40/60 (H. K/H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16DA 2- ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 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.

Top chord 2x6 SP #2 N
 Bot chord 2x6 SP #2 N
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.
 See DWGS A11030EE0405 & G8LLETINO405 for more requirements.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

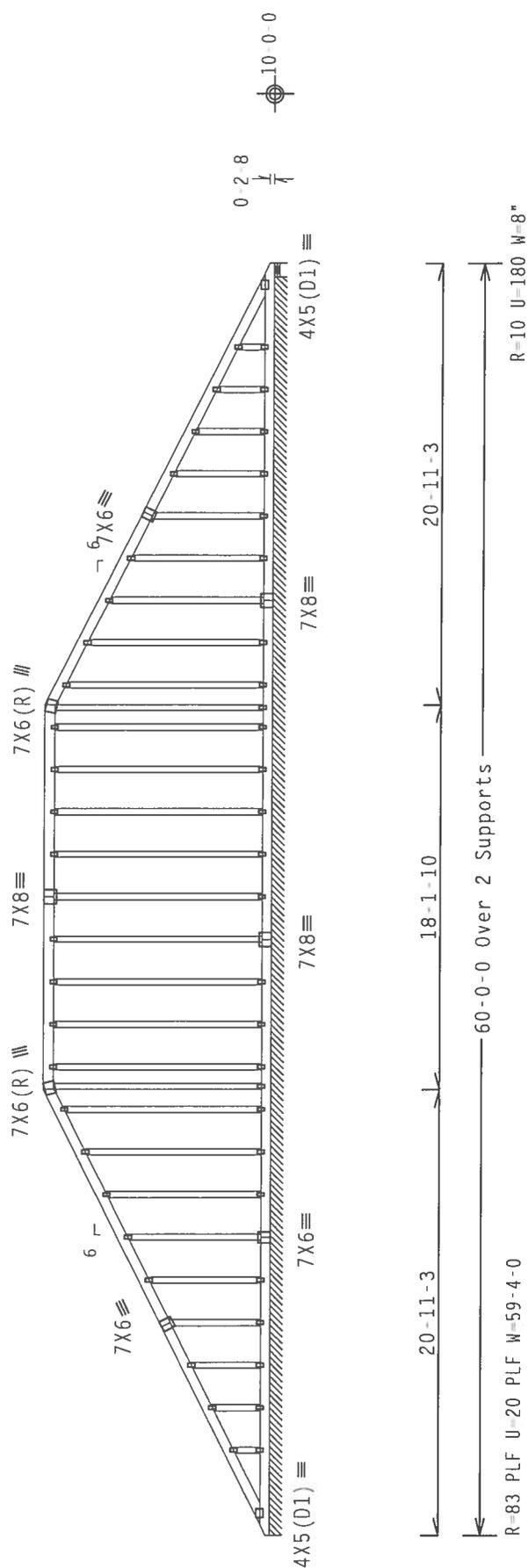
110 mph wind, 15.57 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Gable end supports 8" max rake overhang.

Deflection meets L/360 live and L/240 total load.

Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 10 8 1.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002 (STD) / FBC

Cq/RT=1.00(1.25)/10(0) 7.25.0503

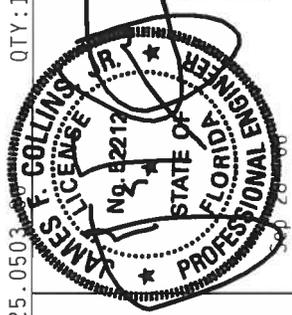
QTY:1

FL / - / 5 / - / - / R / -

Scale = .125" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 BUILDING COMPONENT SAFETY AND HEALTH REGULATIONS, 29 CFR 1910.103, 1910.104, 1910.105, 1910.106, 1910.107, 1910.108, 1910.109, 1910.110, 1910.111, 1910.112, 1910.113, 1910.114, 1910.115, 1910.116, 1910.117, 1910.118, 1910.119, 1910.120, 1910.121, 1910.122, 1910.123, 1910.124, 1910.125, 1910.126, 1910.127, 1910.128, 1910.129, 1910.130, 1910.131, 1910.132, 1910.133, 1910.134, 1910.135, 1910.136, 1910.137, 1910.138, 1910.139, 1910.140, 1910.141, 1910.142, 1910.143, 1910.144, 1910.145, 1910.146, 1910.147, 1910.148, 1910.149, 1910.150, 1910.151, 1910.152, 1910.153, 1910.154, 1910.155, 1910.156, 1910.157, 1910.158, 1910.159, 1910.160, 1910.161, 1910.162, 1910.163, 1910.164, 1910.165, 1910.166, 1910.167, 1910.168, 1910.169, 1910.170, 1910.171, 1910.172, 1910.173, 1910.174, 1910.175, 1910.176, 1910.177, 1910.178, 1910.179, 1910.180, 1910.181, 1910.182, 1910.183, 1910.184, 1910.185, 1910.186, 1910.187, 1910.188, 1910.189, 1910.190, 1910.191, 1910.192, 1910.193, 1910.194, 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1910.895, 1910.896, 1910.897, 1910.898, 1910.899, 1910.900, 1910.901, 1910.902, 1910.903, 1910.904, 1910.905, 1910.906, 1910.907, 1910.908, 1910.909, 1910.910, 1910.911, 1910.912, 1910.913, 1910.914, 1910.915, 1910.916, 1910.917, 1910.918, 1910.919, 1910.920, 1910.921, 1910.922, 1910.923, 1910.924, 1910.925, 1910.926, 1910.927, 1910.928, 1910.929, 1910.930, 1910.931, 1910.932, 1910.933, 1910.934, 1910.935, 1910.936, 1910.937, 1910.938, 1910.939, 1910.940, 1910.941, 1910.942, 1910.943, 1910.944, 1910.945, 1910.946, 1910.947, 1910.948, 1910.949, 1910.950, 1910.951, 1910.952, 1910.953, 1910.954, 1910.955, 1910.956, 1910.957, 1910.958, 1910.959, 1910.960, 1910.961, 1910.962, 1910.963, 1910.964, 1910.965, 1910.966, 1910.967, 1910.968, 1910.969, 1910.970, 1910.971, 1910.972, 1910.973, 1910.974, 1910.975, 1910.976, 1910.977, 1910.978, 1910.979, 1910.980, 1910.981, 1910.982, 1910.983, 1910.984, 1910.985, 1910.986, 1910.987, 1910.988, 1910.989, 1910.990, 1910.991, 1910.992, 1910.993, 1910.994, 1910.995, 1910.996, 1910.997, 1910.998, 1910.999, 1910.1000.

ALPINE
 Alpine Engineered Products, Inc.
 950 Marley Drive
 Haines City, FL 33844
 FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R215 - 10837
TC DL	10.0 PSF	DATE	09/27/06
BC DL	10.0 PSF	DRW	HCUSR215 06270061
BC LL	0.0 PSF	HC-ENG	EC / WHK
TOT.LD.	40.0 PSF	SEQN	49200
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF	1T0Z215_Z04

(1821 - CARTER/WINFIELD CHURCH / HOUSE ACCOUNT - ** - GE2)

Top chord 2x6 SP #2 N
 Bot chord 2x6 SP #2 N
 Webs 2x4 SP #2 N

SPECIAL LOADS

- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
- TC From 172 PLF at 0.50 to 172 PLF at 59.50
- BC From 80 PLF at 0.00 to 80 PLF at 0.50
- BC From 20 PLF at 0.50 to 20 PLF at 14.00
- BC From 20 PLF at 14.00 to 20 PLF at 59.50
- BC From 80 PLF at 59.50 to 80 PLF at 60.00

See DWGS A11030EE0405 & GBLLETIN0405 for more requirements.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

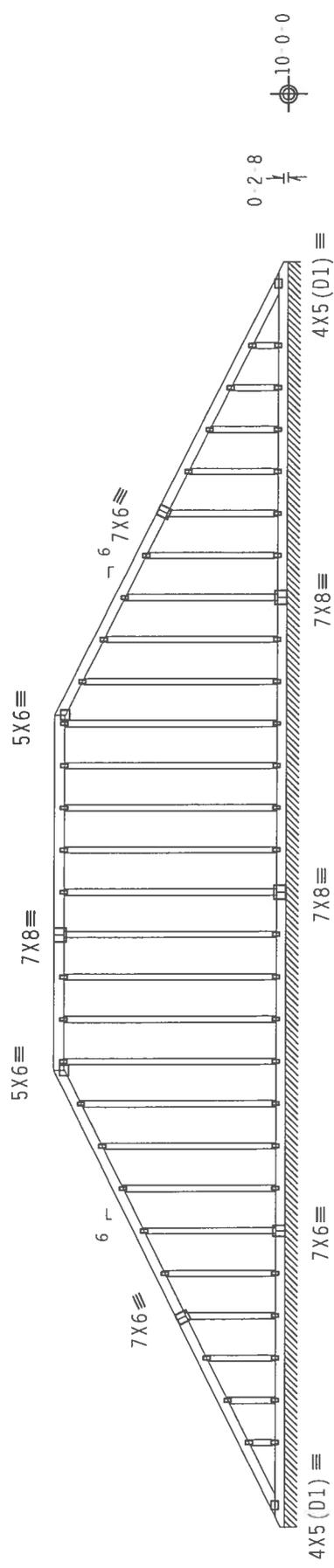
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

110 mph wind, 15.73 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

- Wind reactions based on MMFRS pressures.
- Dead loads are stated on projected horizontal area basis.
- Deflection meets L/360 live and L/240 total load.
- Plates sized for a minimum of 3.00 sq.in./piece.

The overall height of this truss excluding overhang is 11-0-0.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

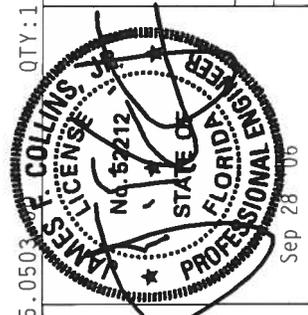


21-7-0 16-9-15 21-7-0
 60-0-0 Over Continuous Support
 R=190 PLF U=22 PLF W=60-0-0

Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC
 Cq/RT=1.00(1.25)/10(0) 7.25.0503

TC LL	20.0 PSF	REF	R215 - 10838
TC DL	10.0 PSF	DATE	09/27/06
BC DL	10.0 PSF	DRW	HCUSR215 06270062
BC LL	0.0 PSF	HC-ENG	EC/WHK
TOT.LD.	40.0 PSF	SEQN	27078
DUR.FAC.	1.25	FROM	LRB
SPACING	24.0"	JREF	1T0Z215_Z04



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 10100 1/2 ST, WILSONVILLE, OR 97148) FOR SAFETY BRACKETS PRIOR TO PERFORMING THE TRUSS ASSEMBLY. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE 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. CONNECTOR PLATES ARE MADE OF 20/18/16GGA (W,H/S/K) ASTM A653 GRADE 40/60 (H, 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 (1) SHALL BE PER AMERICAN A3 OF TPI 1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE
 Alpine Engineered Products, Inc.
 Haines City, FL 33844
 FL Certificate of Authorization # 567

Top chord 2x4 SP #2 N
 Bot chord 2x4 SP #2 N
 Webs 2x4 SP #2 N

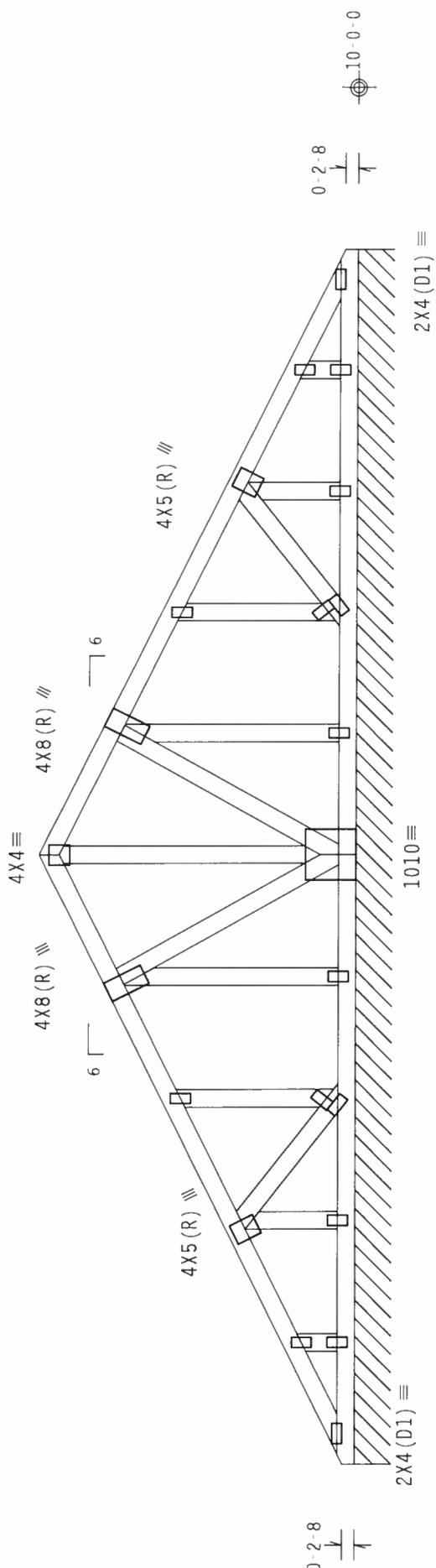
SPECIAL LOADS
 (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
 TC - From 172 PLF at 0.17 to 172 PLF at 19.83
 BC - From 20 PLF at 10.00 to 20 PLF at 19.83
 BC - From 80 PLF at 19.83 to

See DWGS A11015EE0405 & GBULETTIN0405 for more requirements.
 Deflection meets L/360 live and L/240 total load.
 The overall height of this truss excluding overhang is 5-2-8.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.
 Dead loads are stated on projected horizontal area basis.
 Plates sized for a minimum of 3.00 sq.in./piece.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



10-0-0
 20-0-0 Over Continuous Support
 R-190 PLF U=22 PLF W=20-0-0

Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC
 Cq/RT=1.00(1.25)/10(0) 7.25.0503.0A

QTY:1	FL/-/5/-/ /R/-	Scale = .375" / Ft.
REF	R215 -	10839
DATE	09/27/06	
DRW	HCUSR215	06270063
HC-ENG	EC/MHK	
SEQN	27088	REV
FROM	LRB	
JREF	1T0Z215_Z04	

WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 883 HIGHWAY 101, WILSONVILLE, OR 97148, USA. OR AMERICAN WOOD PRESERVE, INC., 1000 ENTERPRISE DR., MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS 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 RDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (R-H/S/K) ASTM A653 GRADE 40/60 (H, 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 (1) SHALL BE PER AMHX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNER SHOWING THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

JAMES F. COLLINS, JR.
 No. 52212
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 Self

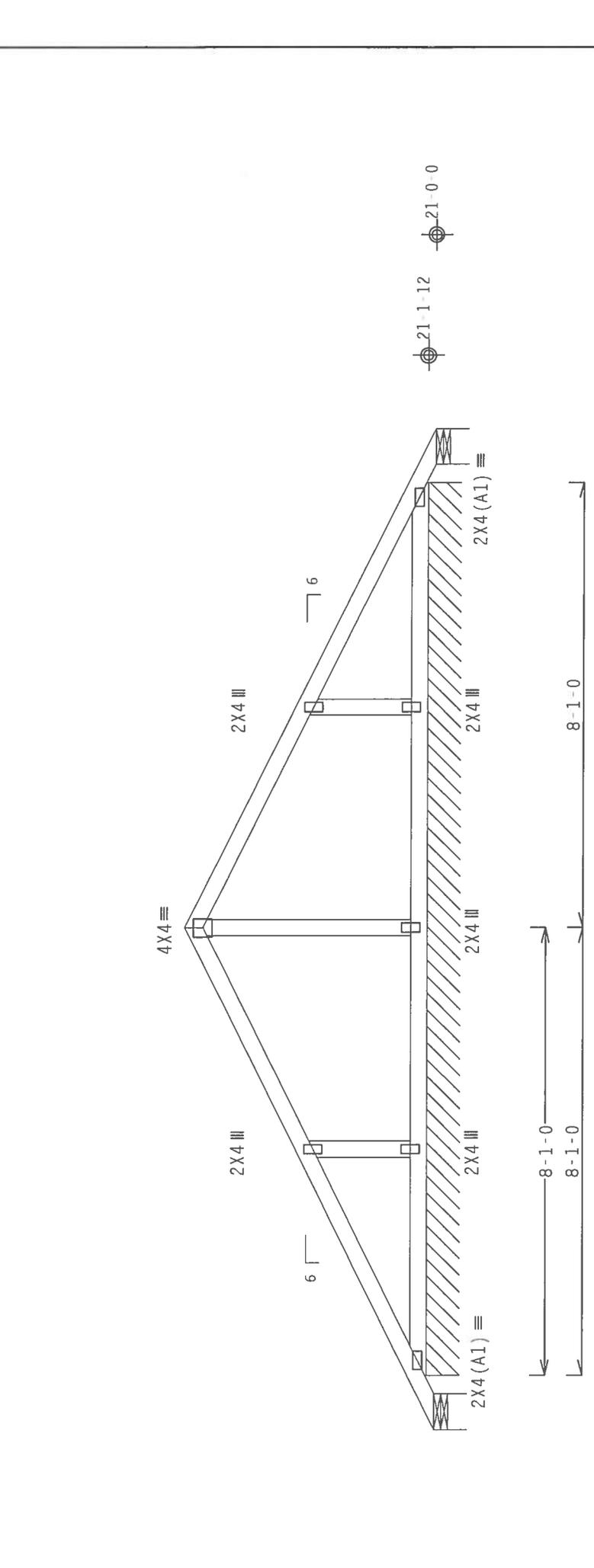
ALPINE
 Alpine Engineered Products, Inc.
 Haines City, FL 33844
 FL Certificate of Authorization # 567

Top chord 2x4 SP #2 N
 Bot chord 2x4 SP #2 N
 Webs 2x4 SP #2 N

Plates sized for a minimum of 3.00 sq.in./piece.

REFER TO DRAWING PIGBACK0204 FOR PIGGYBACK DETAILS.
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED @ 24" O.C.

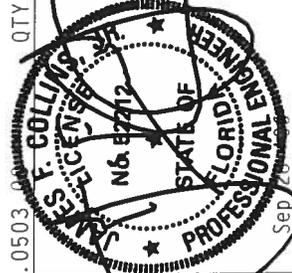
In lieu of rigid ceiling use purlins to brace BC @ 24" OC.
 Deflection meets L/360 live and L/240 total load.
 The overall height of this truss excluding overhang is 4-6-6.



18-1-10 Over 3 Supports
 R=25 W=7.827*
 R=75 PLF W=16-1-15

Design Crit: TPI-2002 (STD)/FBC
 Cg/RT=1.00(1.25)/10(0) 7.25.0503.00 QTY:1 FL/-/5/-/R/- Scale = .375" / Ft.

REF	R215 --	10840
DATE	09/27/06	
DRW	HCUSR215	06270065
HC-ENG	EC/WHK	
SEQN-	27519	
FROM	LRB	
JREF-	1T0Z215_Z04	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE TRUST FUND), 583 MADISON AVE, SUITE 100, FORT WORTH, TEXAS 76102-3717 AND TPI'S WEBSITE: WWW.TPI-TRUSS.COM FOR THE LATEST REVISIONS TO THE TPI DESIGN SPECIFICATIONS. THE TRUSS MANUFACTURER SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERING 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. CONNECTOR PLATES ARE MADE OF 2018/166A (4.11/57K) ASTM A653 GRADE 40/60 (4. K/H.S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE LIABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING CUSTOMER PER ANSI/TPI 1 SEC. 2.

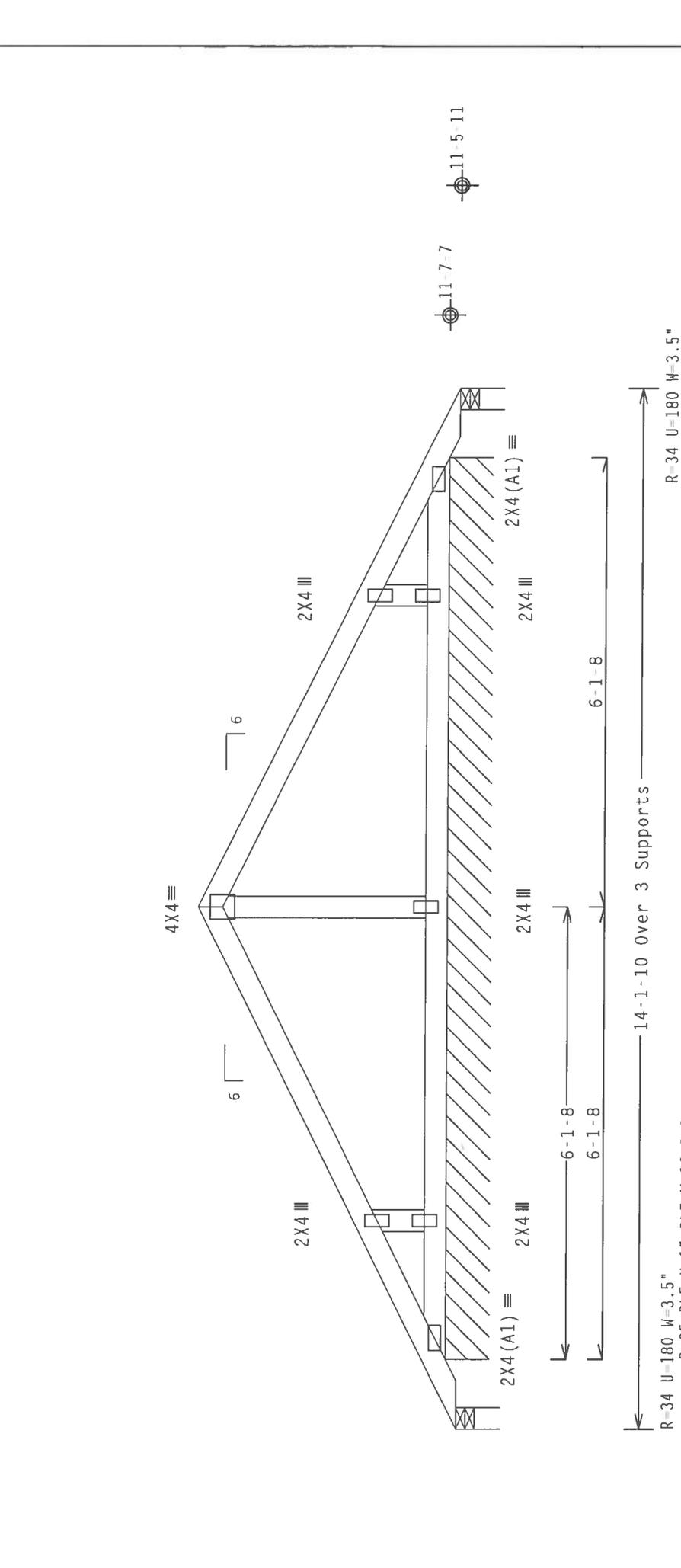
ALPINE
 Alpine Engineered Products, Inc.
 1950 Marley Drive
 James City, FL 33844
 FL Certificate of Authorization # 567

Top chord 2x4 SP #2 N
 Bot chord 2x4 SP #2 N
 Webs 2x4 SP #2 N

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Wind reactions based on MWFRS pressures.
 Plates sized for a minimum of 3.00 sq.in./piece.
 Deflection meets L/360 live and L/240 total load.
 The overall height of this truss excluding overhang is 5-0-1.

REFER TO DRAWING PIGBACK0204 FOR PIGGYBACK DETAILS.
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED @ 24" O.C.

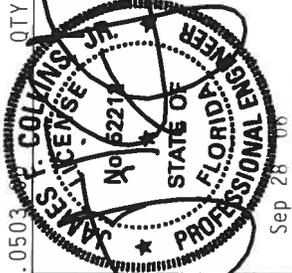


R-34 U=180 W=3.5"
 R-85 PLF U=15 PLF W=12-3.0

14-1-10 Over 3 Supports

R-34 U=180 W=3.5"

PLT TYP. Wave/R	Design Crit: TPI-2002(STD)/FBC		Cq/RT=1.00(1.25)/10(0)		7.25.0503		QTY:1		Scale = .5" / Ft.		
	TC LL	20.0 PSF	REF	R215 --	10841	TC DL	10.0 PSF	DATE	09/27/06	DRW	HCUSR215 06270066
	BC LL	0.0 PSF				TOT.LD.	40.0 PSF			HC-ENG EC/WHK	
						DUR.FAC.	1.25			SEQN-	27263
						SPACING	24.0"			FROM	LRB
										JREF-	1T0Z215_Z04



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1.03 (BUILDING COMPONENT SAFETY) AND AISC 1600 TRUSS FUNCTIONS OF MEMBERS AND JOINTS. 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.

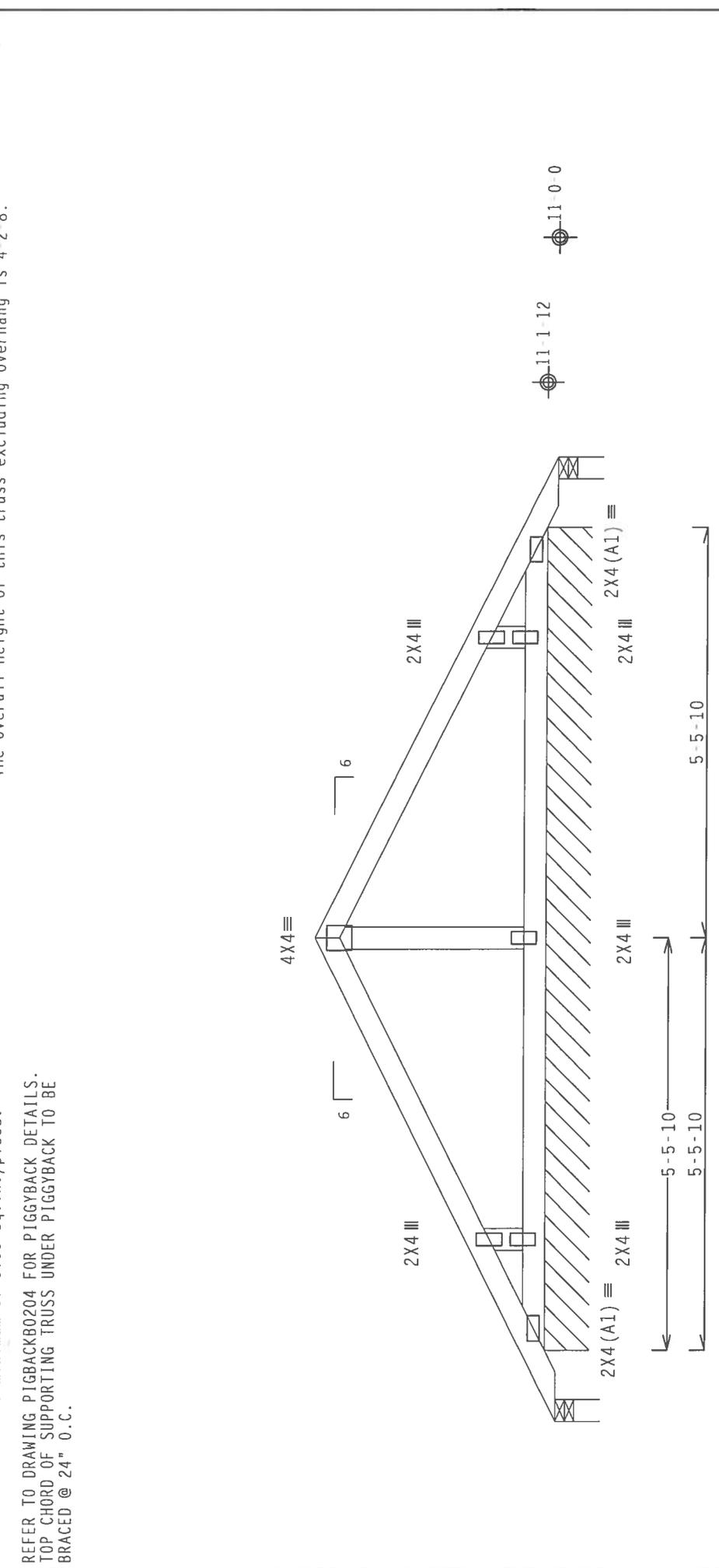
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AFPA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (4-H/5/7K) ASTM A653 GRADE 40/60 (40, 60, 5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING NOTES PLACES FOLLOWED BY (1) SHALL BE PER ANKER A3 OF TPI 2002 SEC.3. A SEAL ON THIS DESIGN SHOWN. THE LIABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE

Alpine Engineered Products, Inc.
 1950 Marley Drive
 Haines City, FL 33844
 FL Certificate of Authorization # 567

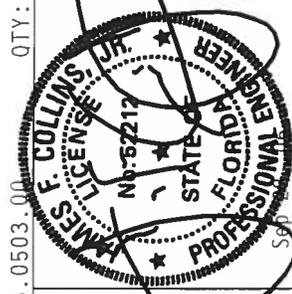
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
 Deflection meets L/360 live and L/240 total load.
 The overall height of this truss excluding overhang is 4-2-8.

Wind reactions based on MMFRS pressures.
 Plates sized for a minimum of 3.00 sq.in./piece.
 REFER TO DRAWING PIGBACK0204 FOR PIGGYBACK DETAILS.
 TOP CHORD OF SUPPORTING TRUSS UNDER PIGGYBACK TO BE BRACED @ 24" O.C.



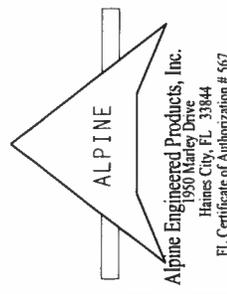
R=33 U=180 W=3.5
 R-86 PLF U=16 PLF W=10 11-5
 R=33 U=180 W=3.5
 12-9-15 Over 3 Supports
 R=33 U=180 W=3.5

PLT TYP. Wave\R	Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0)	7.25.0503.00	QTY:1	FL/-/5/-/-/R/-	Scale = .5"/Ft.
			TC LL	20.0 PSF	REF R215-- 10842
			TC DL	10.0 PSF	DATE 09/27/06
			BC DL	10.0 PSF	DRW HCUSR215 06270067
			BC LL	0.0 PSF	HC-ENG EC/WHK
			TOT.LD.	40.0 PSF	SEQN- 27270
			DUR.FAC.	1.25	FROM LRB
			SPACING	24.0"	JREF- 1T0Z215_Z04



WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. BE SURE TO FOLLOW ALL INSTRUCTIONS AND SPECIFICATIONS. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 567 O'DONOHUE DR., SUITE 200, MADISON, WI 53719 AND TPI (TRUSS PLATE INSTITUTE), 1000 W. 10TH ST., SUITE 100, MADISON, WI 53719. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE 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 2018/176GA (M-H/5/K) ASTM A653 GRADE 40/60 (H, K/H-S) GALV. STEEL. APPLIES PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A AND 160B. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 13.1 AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER. THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL ON THIS DESIGN SHOWS THE DESIGNER'S ACCEPTANCE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMST/TPI 1 SEC. 7.



ASCE 7-02: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH

STUD	#3
STANDARD	STANDARD

SOUTHERN PINE

STUD	#3
STANDARD	STANDARD

GROUP B:

HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

SOUTHERN PINE

STUD	#1
STANDARD	#2

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" BRACE WITH 10d NAILS.

* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

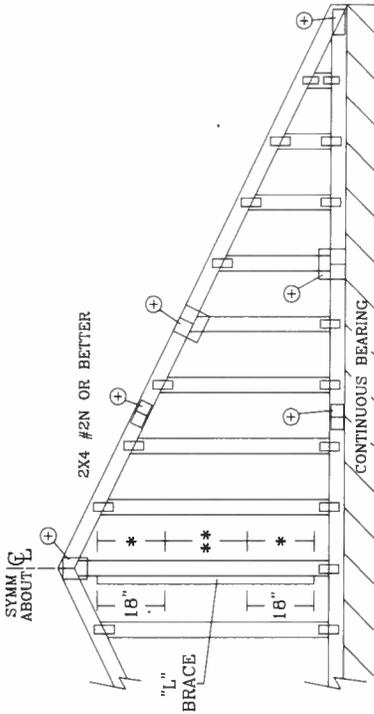
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

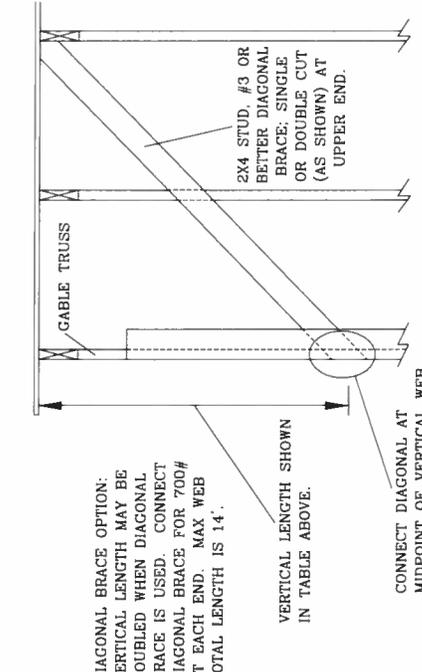
GABLE VERTICAL PLATE SIZES

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

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



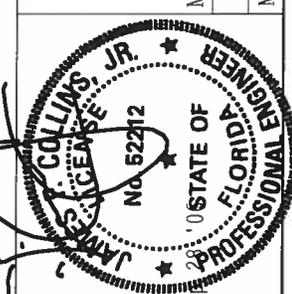
REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.



DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 700# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN IN TABLE ABOVE.

CONNECT DIAGONAL AT MIDPOINT OF VERTICAL WEB.



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSSES, INC. FOR THE LATEST REVISIONS TO THE TPI TRUSS DESIGN AND CONSTRUCTION MANUAL. THE TPI TRUSS DESIGN AND CONSTRUCTION MANUAL IS THE AUTHORITY FOR ALL TRUSS DESIGN AND CONSTRUCTION. 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 ENGINEER PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATING FROM THIS DESIGN; ANY FAILURE TO BUILD THIS TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING THE TRUSS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE LOCAL, STATE AND FEDERAL AGENCIES.

ALPINE ENGINEER PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATING FROM THIS DESIGN; ANY FAILURE TO BUILD THIS TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING THE TRUSS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE LOCAL, STATE AND FEDERAL AGENCIES.

ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24' 0"

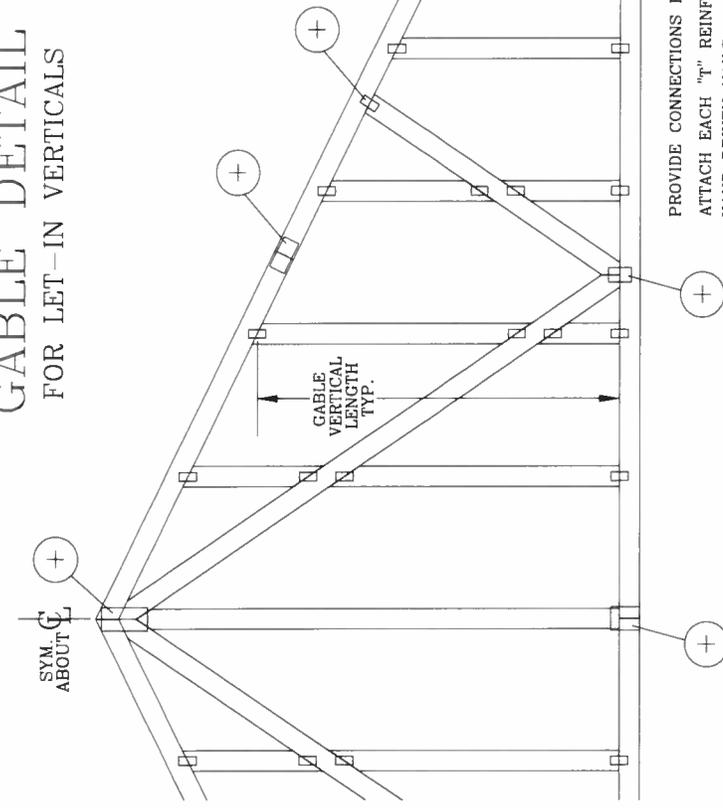
REF	ASCE7-02-CAB11030
DATE	04/14/05
DRWG	A11030E0405
	-ENG

GABLE DETAIL FOR LET-IN VERTICALS

GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

(+) REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.
 * IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:

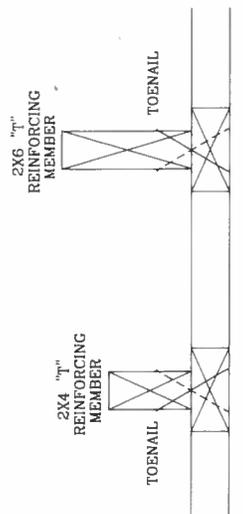
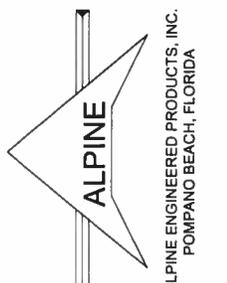


PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.
 ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:
 10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS
 (4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.
 GUN DRIVEN NAILS:
 8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS
 (4) TOENAILS IN TOP AND BOTTOM CHORD.
 THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

- ASCE 7-93 GABLE DETAIL DRAWINGS
 A1015ENI103, A10015ENI103, A09015ENI103, A08015ENI103, A07015ENI103
 A11030ENI103, A10030ENI103, A09030ENI103, A08030ENI103, A07030ENI103
 ASCE 7-98 GABLE DETAIL DRAWINGS
 A13015ECI103, A12015ECI103, A11015ECI103, A10015ECI103, A08515ECI103
 A13030ECI103, A12030ECI103, A11030ECI103, A10030ECI103, A08530ECI103
 ASCE 7-02 GABLE DETAIL DRAWINGS
 A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,
 A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405
- SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 583 DUNDRIFF DR., SUITE 200, MADISON, WI, 53719) AND WTC (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 DESIGN OR CONSTRUCTION ERRORS THAT OCCUR WHILE BUILDING THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING OF TRUSSES. DESIGN CONTRACTORS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&P) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (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. E.



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
 MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

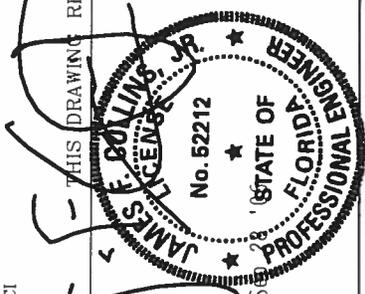
WIND SPEED AND MRH	"T" REINFORCING MEMBER SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	0 %	20 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:
 ASCE WIND SPEED = 100 MPH
 MEAN ROOF HEIGHT = 30 FT
 GABLE VERTICAL = 24" O.C. SP #3
 "T" REINFORCING MEMBER SIZE = 2X4
 (1) 2X4 "L" BRACE LENGTH = 6' 7"
 MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH 1.10 x 6' 7" = 7' 3"

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLETTIN0405
	-ENG DLJ/KAR

MAX TOT. LD. 60 PSF
 DUR. FAC. ANY
 MAX SPACING 24.0"



ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH

#3
STUD
STANDARD

GROUP B:

HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

SOUTHERN PINE

#1
#2

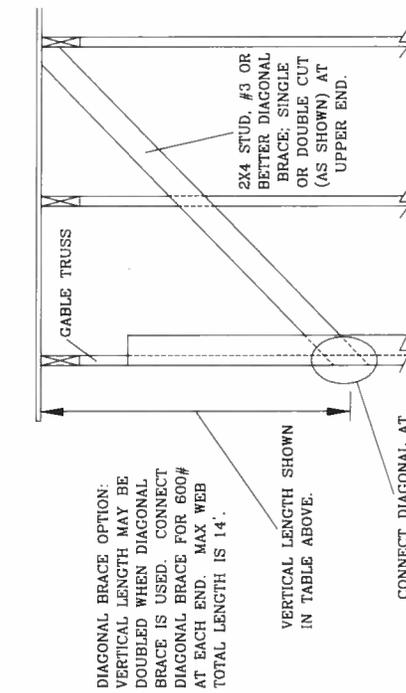
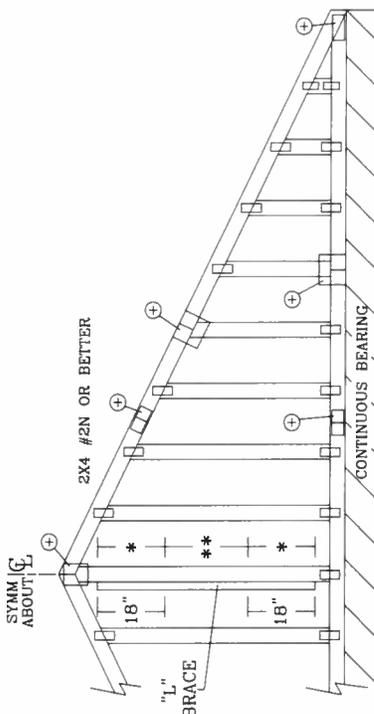
GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.
 PROVIDE UPLIFT CONNECTIONS FOR 80 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" BRACE WITH 10d NAILS
 * FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
 ** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.
 "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0" BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2-5X4

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

REF	ASCE7-02-GABI1015
DATE	04/15/05
DRWG	A11015EE0405
	-ENG

MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

ALPINE ENGINEERED PRODUCTS, INC.
 POMPANO BEACH, FLORIDA

ALPINE

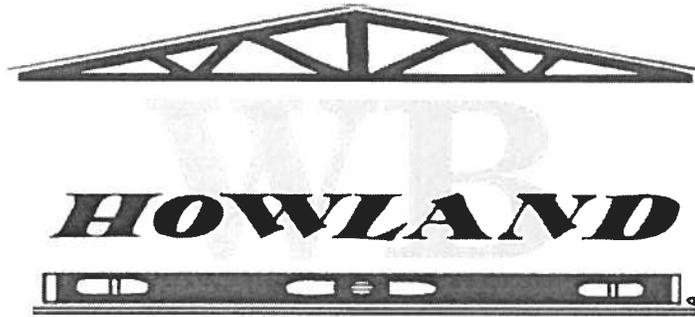
DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 600# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.

DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 600# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TRUSS COMPANY (ALPINE TRUSS COMPANY, 200 MADISON AVE, SUITE 200, MADISON, WI 53719) AND AISC (WOOD TRUSS COMPANY, 10000 W. WASHINGTON, SUITE 100, WEST PLAINFIELD, NJ 07085) FOR THE MOST CURRENT INFORMATION ON 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 TRUSSES WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. FOR STEEL ECTIONAL MEMBERS, AISC 360) AND AISC (WOOD TRUSS COMPANY, 200 MADISON AVE, SUITE 200, MADISON, WI 53719) AND AISC (WOOD TRUSS COMPANY, 10000 W. WASHINGTON, SUITE 100, WEST PLAINFIELD, NJ 07085) SHALL BE PER ANNEK 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.

JAMES E. COLLINS, JR.
 No. 52212
 06/28/06
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER



**Hardware & Building Materials
Roof & Floor Trusses
Equipment Rental
P.O. Box 700
Live Oak, Fl. 32064
(386) 362-1235
Fax (386) 362-7124
www.WBHowland.com**

9/29/06

Job Number: 1891 Date: 9/29/06
Floor Trusses
Job Name: Carter / Winfield Church
Approved by: _____

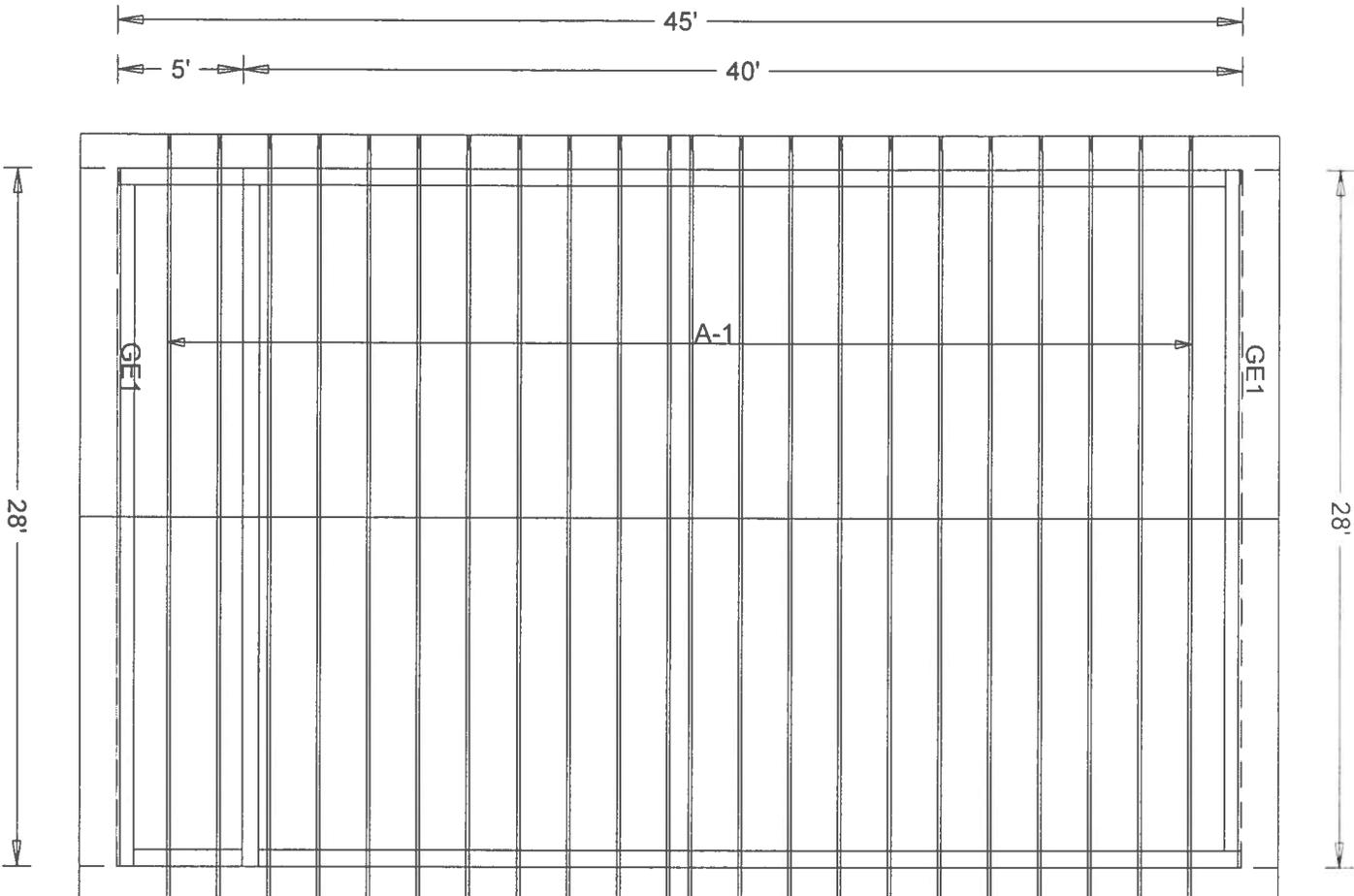
Please find enclosed two sets of sealed drawings and a layout for permitting. Also enclosed is another set of sealed drawings, a layout, notes, etc. for *your* review. You may wish to review this package with one or all of the following professionals: plan designer, engineer of record, building contractor, professional framer.

Careful review is important as trusses will be built in strict accordance with the enclosed layout and drawings.

A delivery pack will come with your trusses on the day of delivery. This pack contains BCSI-B1 summary sheet, truss layout, sealed drawings, etc. The BCSI-B1 sheet is a “guide for handling, installing and bracing of metal plate connected wood trusses”. You should review this guide carefully as the installation and bracing of trusses requires extreme care. We will gladly furnish you with a copy of this guide in advance of delivery upon request.

We are four weeks out on deliveries.

We appreciate your business!



Roof Plane Sheathing Area = 1556 sq. ft
 Gable Sheathing Area = 132 sq. ft
 Total Sheathing Area = 1688 sq. ft
 Fascia Material = 161 linear ft
 Ridge Cap Material = 48 linear ft

QUOTE UPDATE,
9/20/06

PRELIMINARY LAYOUT
ROOF 4/12 FLAT CLG.
WALL 8"CMU
SEAT PLATES REQUIRED
1 OF 14 UNITS
W.B. HOWLANDS
386-362-1235

W.B. HOWLAND
 Office: (386)362-1235
 Fax: (386)362-7124

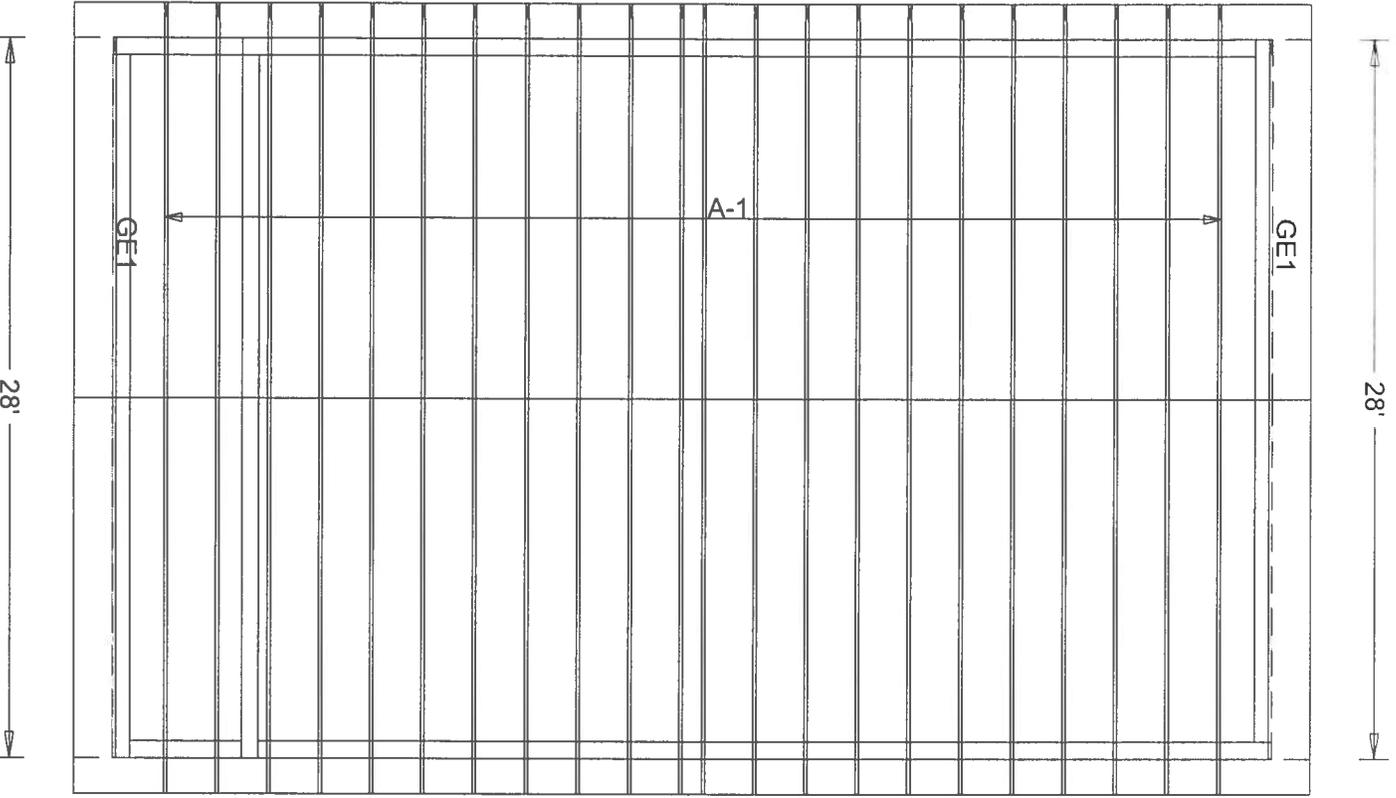
DATE: 9/20/06
 ROOF PITCH: 4/12
 CLG. PITCH: N/A
 OVERHANG: 1' 4 1/2" S
 LOADING: 40#s PSF
 WIND LOAD: 110 MPH
 EXT. WALLS: 8" CMU

Job Name: WINFIELD CHURCH /UNITS 1-
 Customer: HOUSE ACCOUNT
 Designer: Lynn Bell

JOB NO:
 1891

PAGE NO:
 1 OF 1

45' ————
 5' ————
 40' ————



Roof Plane Sheathing Area = 1556 sq. ft
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 Total Sheathing Area = 1688 sq. ft
 Fascia Material = 161 linear ft
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**QUOTE UPDATE,
 9/20/06**

**PRELIMINARY LAYOUT
 ROOF 4/12 FLAT CLG.
 WALL 8"CMU
 SEAT PLATES REQUIRED
 1 OF 14 UNITS**

**W.B. HOWLANDS
 386-362-1235**

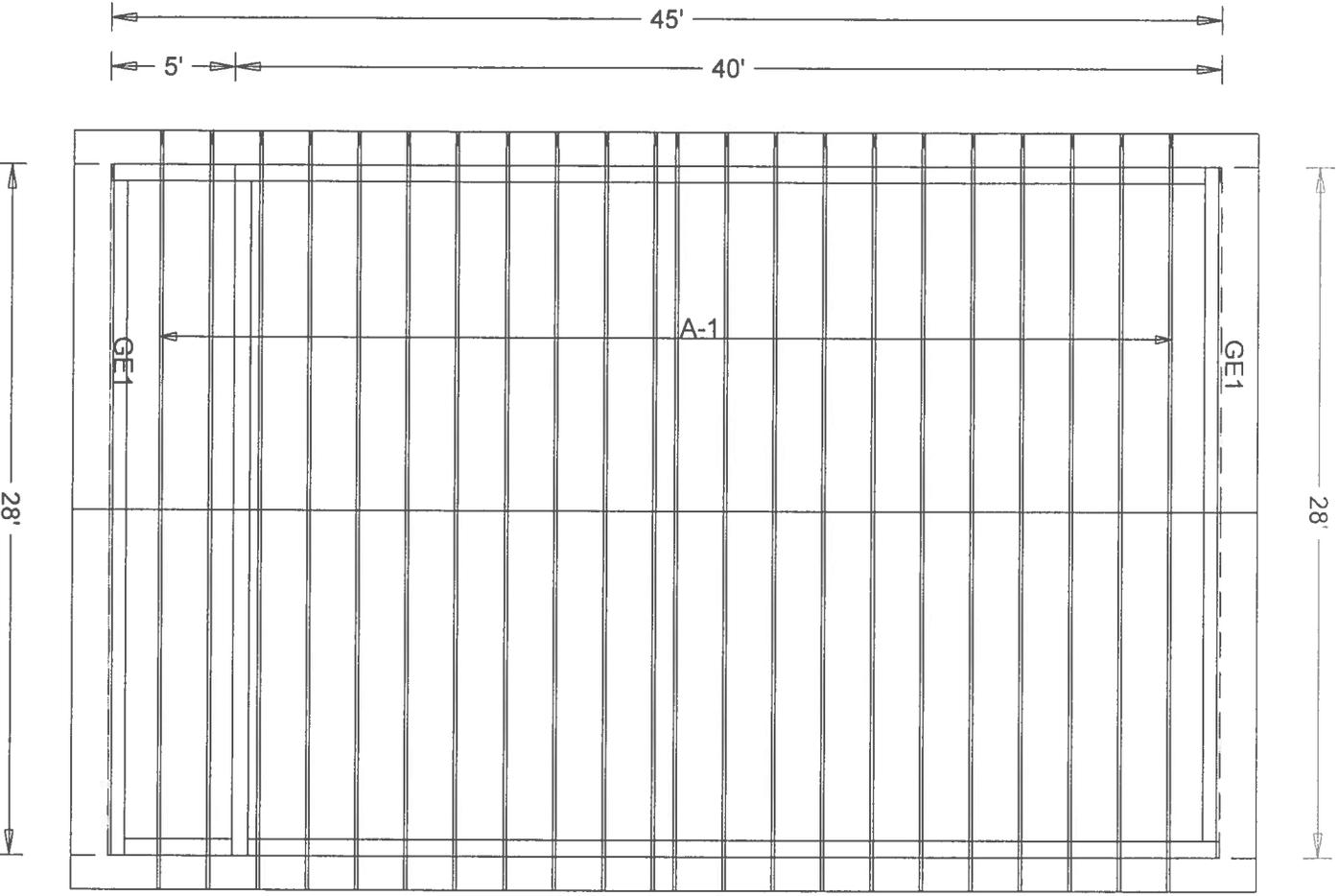
W.B. HOWLAND
 Office: (386)362-1235
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 ROOF PITCH: 4/12
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Job Name: WINFIELD CHURCH /UNITS 1-
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JOB NO:
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PAGE NO:
 1 OF 1



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QUOTE UPDATE,
9/20/06

PRELIMINARY LAYOUT
ROOF 4/12 FLAT CLG.
WALL 8"CMU
SEAT PLATES REQUIRED
1 OF 14 UNITS
W.B. HOWLANDS
386-362-1235

W.B. HOWLAND
 Office: (386)362-1235
 Fax: (386)362-7124

DATE: 9/20/06
 ROOF PITCH: 4/12
 CLG. PITCH: N/A
 OVERHANG: 1' 4 1/2"
 LOADING: 40#s PSF
 WIND LOAD: 110 MPH
 EXT. WALLS: 8" CMU

Job Name: WINFIELD CHURCH /UNITS 1-
 Customer: HOUSE ACCOUNT
 Designer: Lynn Bell

JOB NO:
 1891

PAGE NO:
 1 OF 1

Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1T0S215-Z0120093126

Truss Fabricator: W.B. Howland
Job Identification: 1891-/WINFIELD CHURCH /UNITS 1- /HOUSE ACCOUNT -- , **
Truss Count: 2
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.25.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
the seal date per section 61G15-31.003(5a) of the FAC
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed



Seal Date: 09/20/2006

-Truss Design Engineer-
James F. Collins Jr.

Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

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
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Details: A11015EE-GBLLETIN-

#	Ref	Description	Drawing#	Date
1	45399--A-1		06263001	09/20/06
2	45400--GE1		06263002	09/20/06

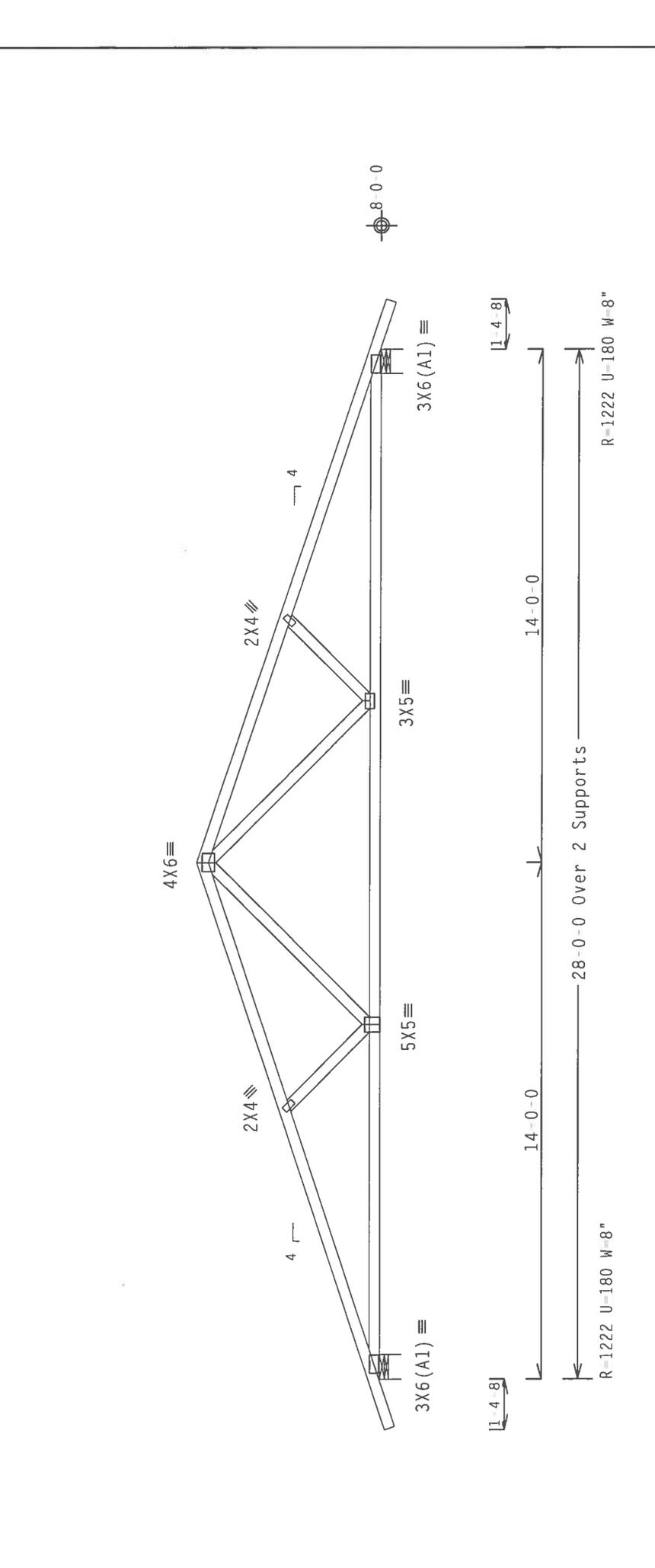


Top chord 2x4 SP #2 N
 Bot chord 2x4 SP #2 N
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.
 Plates sized for a minimum of 3.00 sq.in./piece.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

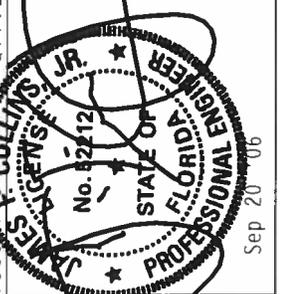
Deflection meets L/360 live and L/240 total load.
 The overall height of this truss excluding overhang is 4 11 15.



PLT TYP. Wave/R

Design Crit: TPI-2002 (STD)/FBC
 Cq/RT=1.00(L.25)/10(0) 7.25.050

QTY:	1	FL	-	5	-	-	R	-	Scale = .25" / Ft.
TC LL	20.0	PSF							REF R215-- 45399
TC DL	10.0	PSF							DATE 09/20/06
BC DL	10.0	PSF							DRW HCUSR215 06263001
BC LL	0.0	PSF							HC-ENG EC/AP *
TOT.LD.	40.0	PSF							SEQN- 27006
DUR.FAC.	1.25								FROM CAW
SPACING	24.0"								JREF- 1T0S215_201



ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD OR FABRICATE, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, TRUSS IN CONFORMANCE WITH TPI OR APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/1766A (4.4/57K) ASTM A653 GRADE 40/60 (4. K/P.H.S) GALV. STEEL. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCKED ON THIS DESIGN, POSITION PER DRAWINGS 100A.2. DRAMING TOOLCUTS ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS AND THIS DESIGN SHOWN. THE STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE
 Alpine Engineered Products, Inc.
 1950 Marley Drive
 Gaines City, FL 33844
 FL Certificate of Authorization # 567

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL-5.0 psf, wind BC DL-5.0 psf.

Plates sized for a minimum of 3.00 sq.in./piece.

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

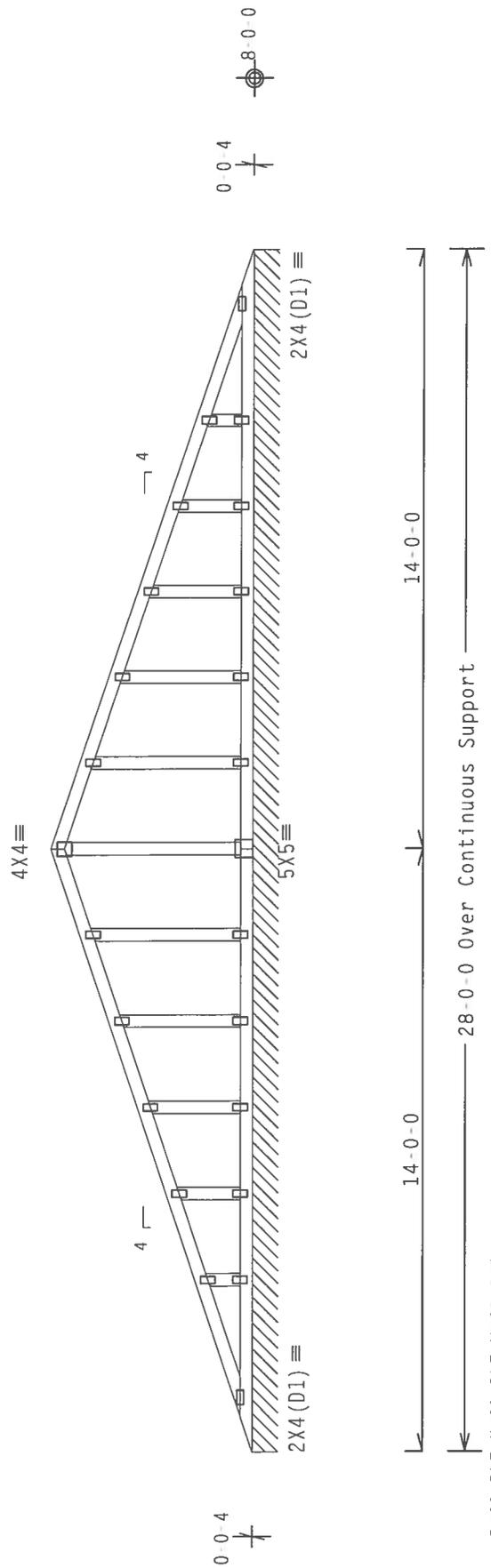
Wind reactions based on MWFRS pressures.

See DWGS A11015EE0405 & GBLLE11N0405 for more requirements.

Deflection meets L/360 live and L/240 total load.

The overall height of this truss excluding overhang is 4-8-4.

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N



Note: All Plates Are 2X4 Except As Shown.

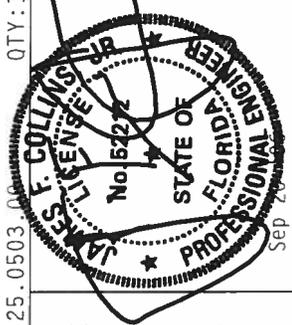
Design Crit: TPI-2002 (STD)/FBC

Cq/RT=1.00(1.25)/10(0)

7.25.0503

Scale = .25"/Ft.

REF	R215 -	45400
DATE	09/20/06	
DRW	HCUSR215	06263002
HC-ENG	EC/AP	
SEQN	27008	
FROM	CAW	
JREF	IT0S215	Z01



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 1.033 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION (TMA), 1000 W. WASHINGTON, SUITE 200, MADISON, WI 53719, AND NCA (WOOD TRUSS COUNCIL OF AMERICA, GOOD ENTERPRISE, 1400 W. WASHINGTON, SUITE 200, 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 A COPY OF THIS DESIGN TO THE 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-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AFAPA) AND TPI-2002. CONNECTOR PLATES ARE MADE OF 2018/1666A (W, H/5/8) ASTM A653 GRADE 40/60 (W, H/5/8) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-Z. DRAWING 100A-Z PLATES FOLLOWED FOR PROTECTIVE COATING. (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 13.5 FOR THE TRUSS COMPONENTS. DRAWING 100A-Z PLATES FOLLOWED FOR PROTECTIVE COATING. (2) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 13.5 FOR THE TRUSS COMPONENTS. BUILDING DESIGNER SHALL BE RESPONSIBLE FOR THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ALPINE
Alpine Engineered Products, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

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

BRACING GROUP SPECIES AND GRADES:

GROUP A:	
SPRUCE-PINE-FIR	HEM-FIR
#1 / #2	STUD
STANDARD	#3
STUD	STANDARD
DOUGLAS FIR-LARCH	
#3	STUD
STANDARD	STANDARD

GROUP B:	
HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 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" BRACE WITH 10d NAILS.

* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C. IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.

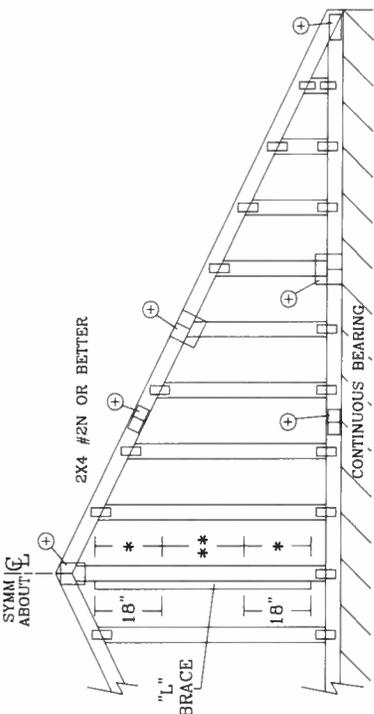
** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.

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

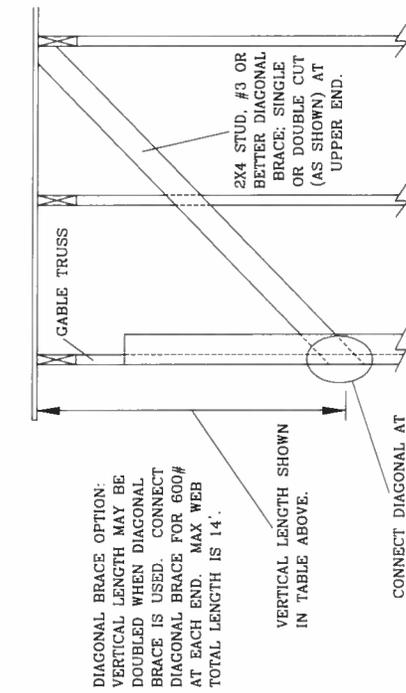
GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2-5X4

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



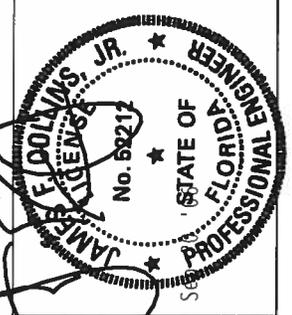
REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.



DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 600# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.

REF	ASCE7-02-GAB11015
DATE	04/15/05
DRWG	A11015EE0405
	-ENG

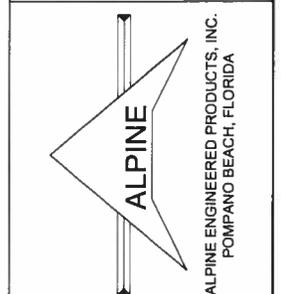
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"



TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST-OF-BUILDING COMPONENT SPECIFICATIONS FOR ALL TRUSS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE FABRICATING AND BRACING REQUIREMENTS OF THE BUILDING CODES OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719) AND VTC (WOOD TRUSS CONSTRUCTION) SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER. 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 BE RESPONSIBLE FOR THIS DESIGN AND THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSIT/PI 1 SEC. 2.

BRACING OF TRUSSES: DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/S/K) ASTM A653 GRADE, 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED BE PER ANSIT/PI 1 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE BY (1) SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND PERFORMANCE OF THE TRUSS COMPONENT DESIGN IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSIT/PI 1 SEC. 2.



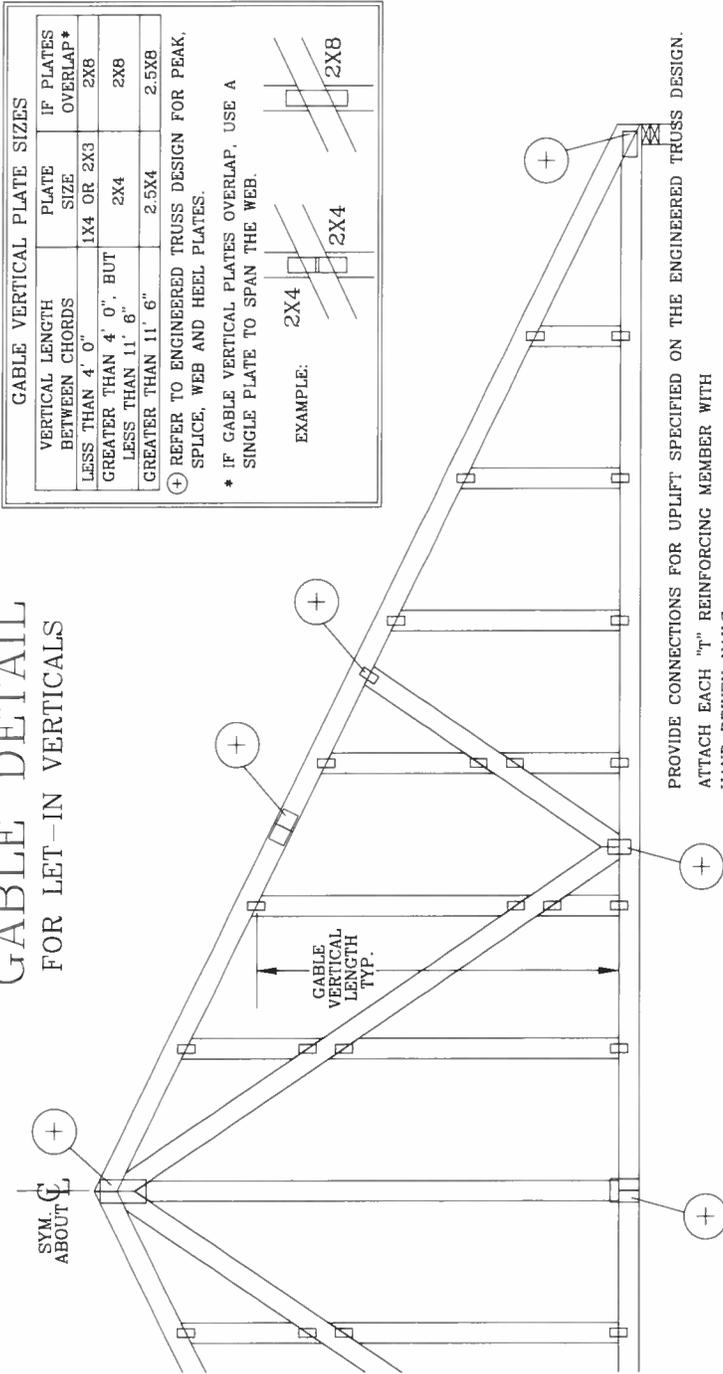
GABLE DETAIL FOR LET-IN VERTICALS

GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE: 



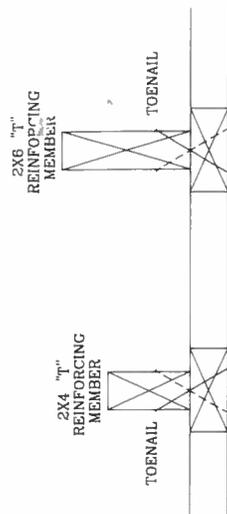
PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN. ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:

- 10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS
- (4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.
- GUN DRIVEN NAILS:
- 8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS
- (4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

- ASCE 7-93 GABLE DETAIL DRAWINGS
- A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
 - A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
- ASCE 7-98 GABLE DETAIL DRAWINGS
- A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
 - A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
- ASCE 7-02 GABLE DETAIL DRAWINGS
- A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405, A07015EE0405
 - A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

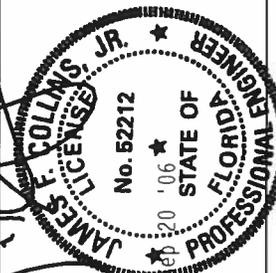
WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINFP. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:
 ASCE WIND SPEED = 100 MPH
 MEAN ROOF HEIGHT = 30 FT
 GABLE VERTICAL = 24" O.C. SP #3
 "T" REINFORCING MEMBER SIZE = 2X4
 "T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
 (1) 2X4 "L" BRACE LENGTH = 6' 7"
 MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH 1.10 x 6' 7" = 7' 3"

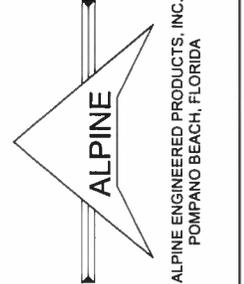
REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
	-ENG DLJ/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035



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 DUNDREID DR., SUITE 200, MADISON, WI 53719) AND WICA (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. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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Alpine Engineered Products, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1T0S215-Z0120093126

Truss Fabricator: W.B. Howland
Job Identification: 1891-/WINFIELD CHURCH /UNITS 1- /HOUSE ACCOUNT -- , **
Truss Count: 2
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.25.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed



Seal Date: 09/20/2006

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

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
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Details: A11015EE-GBLLETIN-

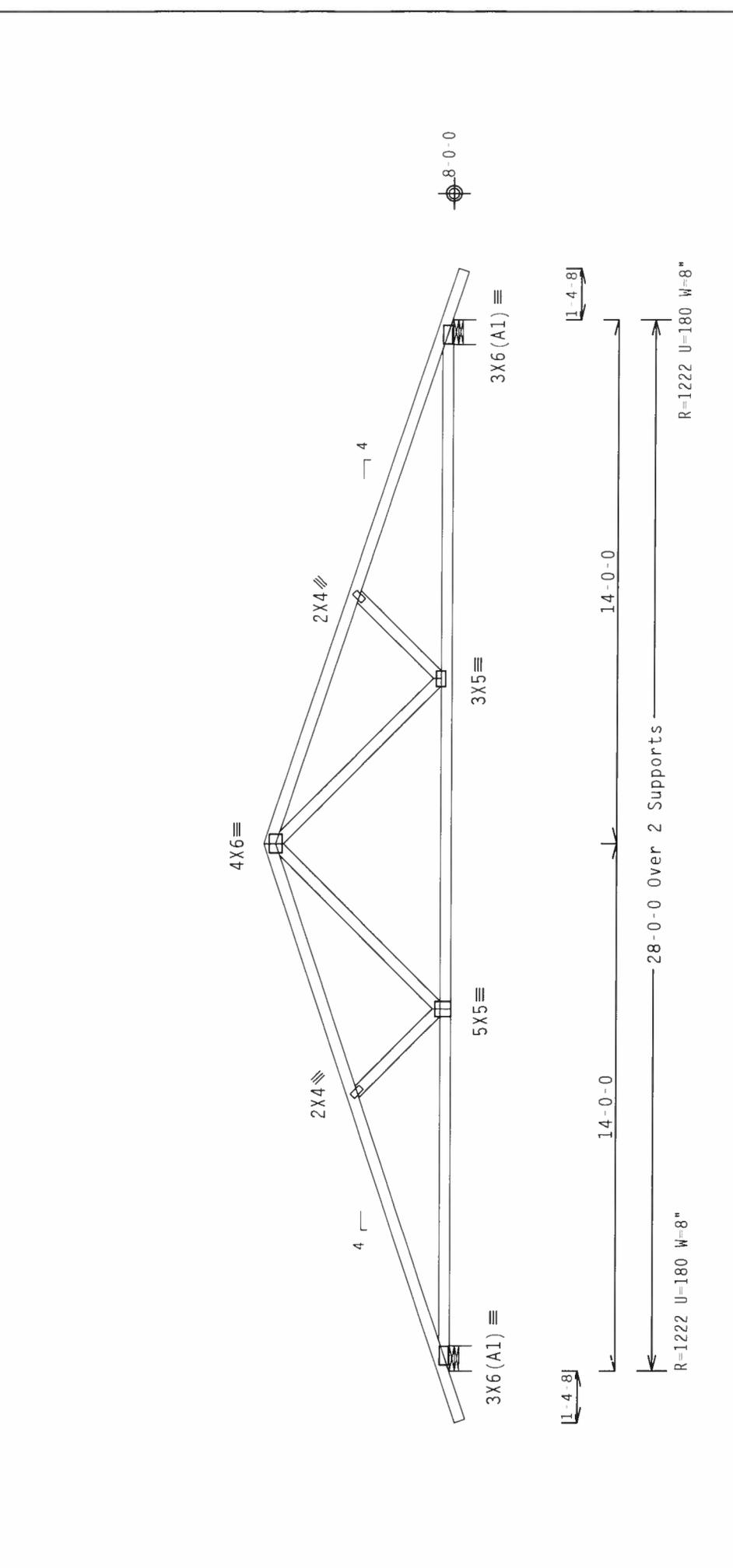
#	Ref	Description	Drawing#	Date
1	45399--A-1		06263001	09/20/06
2	45400--GE1		06263002	09/20/06



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. The overall height of this truss excluding overhang is 4-11-15.

Wind reactions based on MWFRS pressures. Plates sized for a minimum of 3.00 sq.in./piece.



PLT TYP. Wave\R

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.25.0503 QTY:1 FL/-/5/-/-/R/- Scale = .25"/Ft.

REF	R215 -	45399
DATE	09/20/06	
DRW	HCUSR215	06263001
HC-ENG	EC/AP	*
SEQN-	27006	
FROM	CAW	
JREF-	ITOS215_Z01	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Deflection meets L/360 live and L/240 total load. The overall height of this truss excluding overhang is 4-11-15.

Wind reactions based on MWFRS pressures. Plates sized for a minimum of 3.00 sq.in./piece.

14-0-0

28-0-0 Over 2 Supports

R=1222 U=180 W=8"

14-4-8

14-4-8

3X6 (A1)

5X5

3X5

2X4

4X6

2X4

3X6 (A1)

R=1222 U=180 W=8"

ALPINE

Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

JAMES P. COLLINS JR.
No. 82412
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Sep 20 '06

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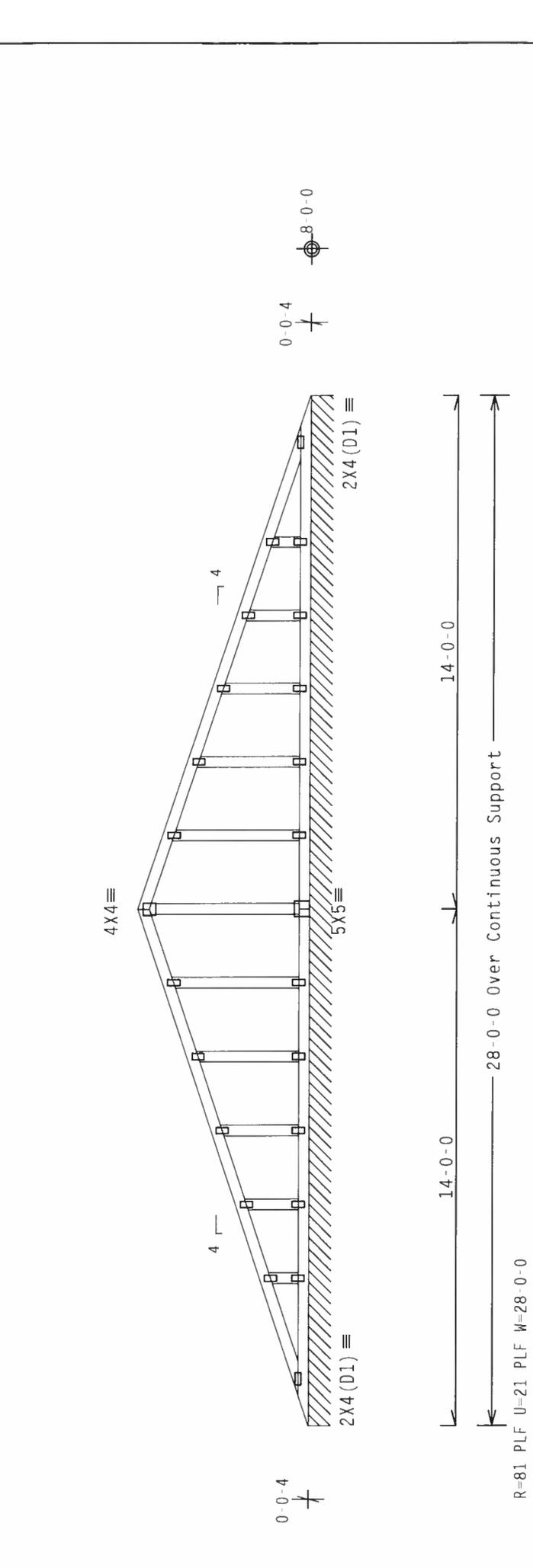
Top chord 2x4 SP #2 N
 Bot chord 2x4 SP #2 N
 Webs 2x4 SP #2 N

Wind reactions based on MWFRS pressures.
 See DWGS A11015EE0405 & GBLLEIIN0405 for more requirements.
 Deflection meets L/360 live and L/240 total load.
 The overall height of this truss excluding overhang is 4-8-4.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Plates sized for a minimum of 3.00 sq.in./piece.

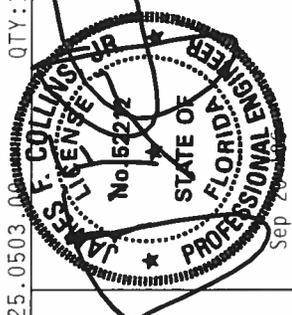
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Note: All Plates Are 2X4 Except As Shown.

PLT TYP. Wave\R
 Design Crit: TPI-2002(STD)/FBC
 Cq/RT=1.00(1.25)/10(0) 7.25.0503.00 QTY:1 FL/-/5/-/-/R/- Scale = .25"/Ft.

REF	R215	-	45400
DATE	09/20/06		
DRW	HCUSR215	06263002	
HC-ENG	EC/AP		
SEQN	27008		
FROM	CAW		
JREF	1TOS215_Z01		



ALPINE
 Alpine Engineered Products, Inc.
 Haines City, FL 33844
 FL Certificate of Authorization # 567

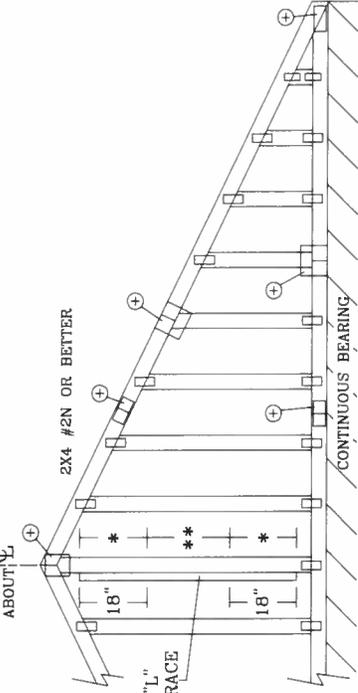
MAX GABLE VERTICAL LENGTH

GABLE VERTICAL SPACING	2X4 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 **		
		#1 / #2	#3	STUD	STANDARD	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A
24"	SPF	#1 / #2	#3	STUD	STANDARD	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
24"	HF	#1	#2	#3	STUD	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
24"	SP	#1	#2	#3	STUD	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 3"	4' 3"	7' 2"	7' 2"	9' 5"	10' 2"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 0"	4' 0"	6' 2"	6' 2"	9' 5"	9' 11"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 0"	4' 0"	6' 1"	6' 1"	9' 5"	9' 11"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	3' 10"	3' 10"	5' 3"	5' 3"	9' 4"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 5"	4' 5"	7' 10"	7' 10"	11' 1"	11' 1"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 4"	4' 4"	7' 4"	7' 4"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 4"	4' 4"	7' 4"	7' 4"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 4"	4' 4"	6' 4"	6' 4"	10' 10"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 10"	4' 10"	7' 8"	7' 8"	10' 10"	11' 8"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 9"	4' 9"	7' 8"	7' 8"	10' 10"	11' 8"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 6"	4' 6"	7' 7"	7' 7"	9' 1"	9' 1"	9' 1"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 6"	4' 6"	7' 7"	7' 7"	9' 1"	9' 1"	9' 1"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 5"	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	8' 6"	13' 3"	13' 3"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 11"	4' 11"	8' 5"	8' 5"	10' 3"	11' 1"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 9"	4' 9"	8' 5"	8' 5"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 9"	4' 9"	8' 5"	8' 5"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 9"	4' 9"	7' 3"	7' 3"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	5' 4"	5' 4"	9' 1"	9' 1"	10' 9"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	5' 3"	5' 3"	9' 1"	9' 1"	10' 9"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	5' 0"	5' 0"	8' 5"	8' 5"	10' 0"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	5' 0"	5' 0"	8' 7"	8' 7"	10' 0"	12' 6"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
24"	DFL	#1	#2	#3	STUD	4' 11"	4' 11"	7' 5"	7' 5"	9' 10"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"

DIAGONAL BRACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL BRACE IS USED. CONNECT DIAGONAL BRACE FOR 600# AT EACH END. MAX WEB TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN IN TABLE ABOVE.

CONNECT DIAGONAL AT MIDPOINT OF VERTICAL WEB.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH

#3	SOUTHERN PINE
STUD	#3
STANDARD	STANDARD

GROUP B:

HEM-FIR	DOUGLAS FIR-LARCH
#1 & BTR	#1
#1	#2

SOUTHERN PINE

#1	#2
----	----

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 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" BRACE WITH 10d NAILS.

* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

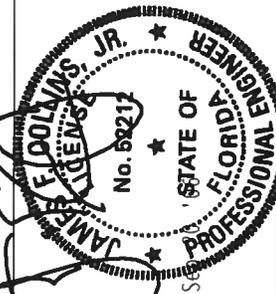
** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

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

GABLE VERTICAL PLATE SIZES

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

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



TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTING. BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO FOLLOW THESE INSTRUCTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO FOLLOW THESE INSTRUCTIONS. BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. 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 BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO FOLLOW THESE INSTRUCTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO FOLLOW THESE INSTRUCTIONS. BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. 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.

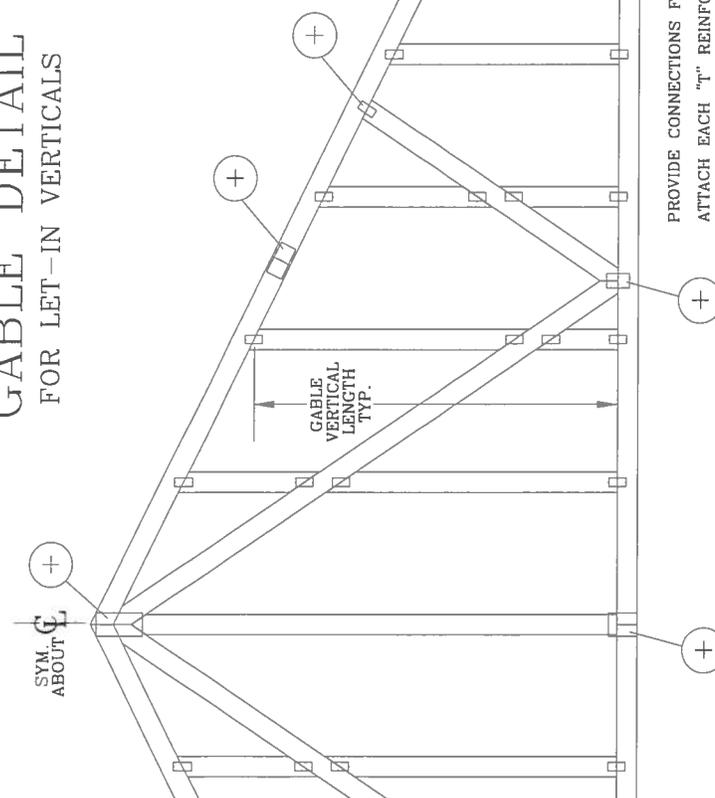
ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA

REF	ASCE7-02-CABI1015
DATE	04/15/05
DRWG	A11015EE0405
ENG	

MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"

GABLE DETAIL FOR LET-IN VERTICALS

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH BETWEEN CHORDS LESS THAN 4' 0"	IF PLATES OVERLAP* 1X4 OR 2X3
GREATER THAN 4' 0" BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4
* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.	
* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.	
EXAMPLE: 	



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH HAND DRIVEN NAILS:

10d COMMON (0.148" X 3.3" MIN) TOENAILS AT 4" O.C. PLUS

(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:

8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS

(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

- OR SBCCI WIND LOAD.
- ASCE 7-93 GABLE DETAIL DRAWINGS
- A11015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
 - A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103
- ASCE 7-98 GABLE DETAIL DRAWINGS
- A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
 - A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103
- ASCE 7-02 GABLE DETAIL DRAWINGS
- A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405
 - A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

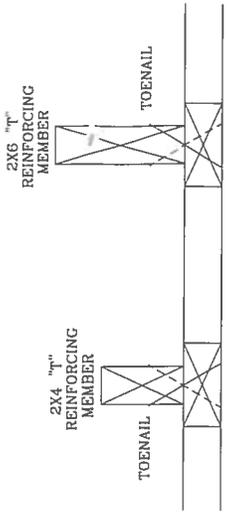
SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI GROUPS, PLATE INSTITUTE, 583 DONDRIFF 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&P) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/S/K) ASTM A653 GRADE 40/60 (W/K/H/S). GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED IN THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PERFORMED BY A QUALIFIED INSPECTOR. THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SEE TPI WEBSITE FOR THE COMPLETE TERMS OF SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2.



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

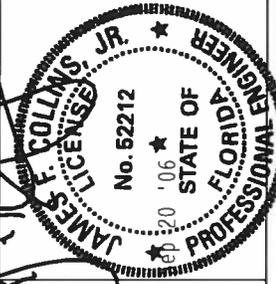
EXAMPLE:

ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH = 1.10 x 6' 7" = 7' 3"

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	04/14/05
DRWG	GBLLETIN0405
	-ENG DLJ/KAR

MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"



ALPINE ENGINEERED PRODUCTS, INC.
POMPAHO BEACH, FLORIDA



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456
Tel. (904) 262-4046 • Fax (904) 262-4047

*copy has been file
JOE
06/2-06*

December 7, 2006

Freedom Mobile Homes
466 SW Deputy J. Davis Lane
Lake City, Florida 32024

Attention: Mr. Bill Harper

Reference: Modular Home
Deercreek Subdivision, Lot 77
Lake City, Florida
Cal-Tech Project No. 06-681

Dear Mr. Harper,

Cal-Tech Testing, Inc. has completed the subsurface investigation and engineering evaluation for the proposed structure at the above referenced location. Our work was performed in conjunction with and authorized by you.

Introduction

We understand you will place a modular home at the above referenced lot. The structure will measure approximately 1,500 square feet in plan area, and it will be supported by conventional, shallow spread footings. We understand that the design bearing pressure for the foundations is 2,000 pounds per square foot (psf). Detailed foundation loads have not been provided; however, we assume column or pier loads will not exceed 15 kips.

The purposes of our investigation were to evaluate the existing subgrade soils for an allowable bearing pressure of 2,000 psf and to present recommendations for foundation design and construction.

Site Investigation

The subsurface conditions were investigated by performing two (2) dynamic cone penetration tests with a hand-auger boring advanced to a depth of six feet. The borings were performed at the approximate locations indicated on the attached Report of Soil Borings.

The dynamic cone penetration test is performed by driving a standard 60 degree cone into the soil by blows from a 15-pound slide-hammer falling 20 inches. The number of blows required to advance the cone 1.75 inches is designated the dynamic cone penetration resistance. This value can be correlated to N-values of the Standard Penetration Test and is an index of soil density or consistency.

Findings

Boring A-1 initially encountered approximately one foot of sandy clay (CL). We believe that this material is probably fill in origin. Below this and from the ground surface in Boring A-2, very loose to loose fine sands (SP) were encountered to a depth of about four feet. This was underlain by medium dense clayey fine sands (SC) to the termination depth of six feet.

Ground water was not encountered in either of the borings.

For a more detailed description of the subsurface conditions encountered, please refer to the attached Report of Soil Borings. Note that the transition between soil layers may be gradual and not abrupt as indicated by the logs; therefore, the thickness of soil layers should be considered approximate.

Discussion and Recommendations

The site soils appear to be very loose to loose to a depth of about three to four feet and then medium dense below. Also, there may be some surface fill soils within the home site. Based upon these findings, moderate site improvement should be performed; however, it is our opinion the site soils are suitable to provide support for the structure using conventional, shallow spread footings. We concur that the foundations may be sized using a maximum soil bearing pressure of 2,000 psf; however, we recommend foundations have minimum width of 24 inches for isolated column or pier footings, even though the allowable soil bearing pressure may not be developed. The bottoms of foundations should penetrate any near surface fill soils and/or be embedded a minimum of 18 inches below the lowest adjacent grade (finished surface grade, for example).

Due to the generally loose condition of the immediate bearing soils, we believe it would be beneficial to proof-roll and then proof-compact the bearing soils in all foundation and floor slab areas. These bearing soils should be proof-compacted to a minimum of 95% of the Modified Proctor maximum dry density to a depth of at least two feet. Compaction of the bearing soils will reduce settling of the foundations and thereby reduce the likelihood of distress in the structure.

Our evaluation is based upon subsurface conditions encountered at this site and as presented within this report. However, subsurface conditions may exist that differ from our findings. We request that we be notified if substantially different subsurface conditions are encountered.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

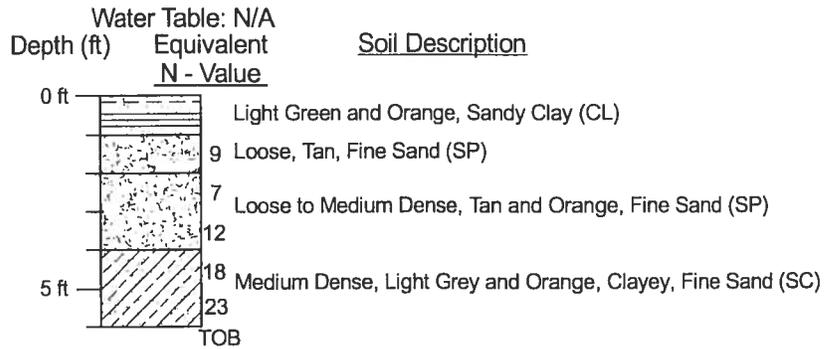


Linda Creamer
President / CEO

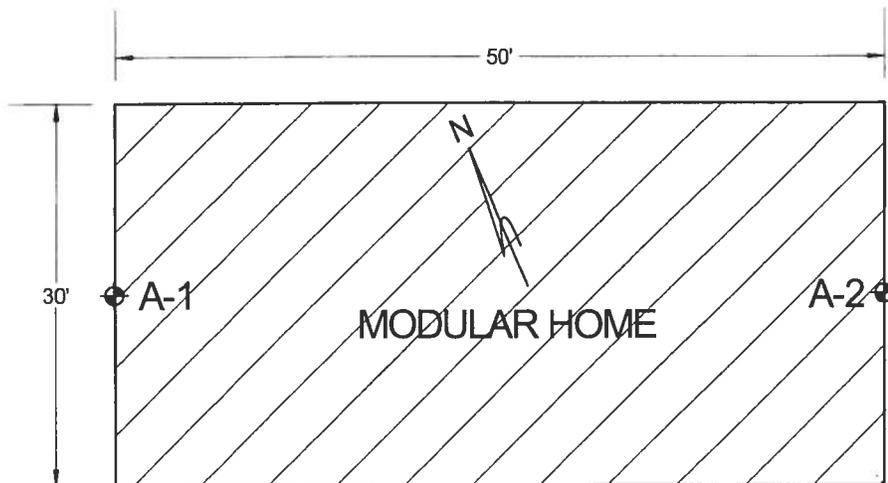


Robert W. Clark, P.E.
Geotechnical Engineer
Registered Florida No. 52210

A-1



A-2



MODULAR HOME
DEERCREEK SUBDIVISION
LOT # 77

REPORT OF SOIL BORINGS

DRAWN BY:	CHECKED BY:	DATE	JOB NO.
S.C. YOUNG	R.W. CLARK	12/6/06	06-681

SHEET NO.

1 of 1