

DATE 12/04/2006

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025273

APPLICANT KARYL HOWELL PHONE 752-9573

ADDRESS 241 SE KARYL COURT LAKE CITY FL 32025

OWNER KARYL HOWELL PHONE 752-9573

ADDRESS 241 SE KARYL COURT LAKE CITY FL 32025

CONTRACTOR KARYL HOWELL PHONE 752-9573

LOCATION OF PROPERTY 441S, EAST ON SR 238, SOUTH ON OCTOBER RD, EAST ON ROLLING HILLS DR, NORTH ON KARYL COURT, RIGHT SIDE

TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 20000.00

HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 4/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

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

PARCEL ID 02-6S-17-09553-019 SUBDIVISION ROLLING HILLS

LOT 38A BLOCK PHASE UNIT TOTAL ACRES

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

EXISTING 06-0991-E BK JH Y

Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 2707

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

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

Framing date/app. by Rough-in plumbing above slab and below wood floor date/app. by

Electrical rough-in date/app. by Heat & Air Duct date/app. by Peri. beam (Lintel) date/app. by

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

M/H tie downs, blocking, electricity and plumbing date/app. by Pool date/app. by

Reconnection date/app. by Pump pole date/app. by Utility Pole date/app. by

M/H Pole date/app. by Travel Trailer date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 100.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00

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

FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ TOTAL FEE 150.00

INSPECTORS OFFICE J. H. CLERKS OFFICE CH

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

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

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

Columbia County Building Permit Application

1st message
11/6/06
Revised 9-23-04

For Office Use Only Application # 0610-96 Date Received 10/31/06 By G Permit # 25273
 Application Approved by - Zoning Official BLK Date 02.11.06 Plans Examiner OK JTH Date 11-02-06
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments
#1/105 - first disclosure, done

Applicants Name Karyl Howell Phone 386-752-9573
 Address 241 SE Karyl Ct., Lake City, FL. 32025
 Owners Name Karyl Howell Phone 386-752-9573
 911 Address 241 SE Karyl Ct., Lake City, FL. 32025
 Contractors Name Karyl Howell Phone 386-752-9573
 Address 241 SE Karyl Ct., Lake City, FL. 32025
 Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address William Myers Design, Inc. 426 SW Commerce Dr., Lake City
 Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 02-6S-17-09553-019 HX Estimated Cost of Construction 20,000.00
 Subdivision Name Rolling Hills Lot 38A Block _____ Unit _____ Phase _____
 Driving Directions US 441 South; East on SR 238; South on October Rd; East on Rolling Hills Dr;
North on Karyl Court

Type of Construction Addition to SFD Number of Existing Dwellings on Property One (1)
 Total Acreage 8.430 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 230' Side ±600' Side 200' Rear 116'
 Total Building Height 23' Number of Stories 1 Heated Floor Area 1248/sf Roof Pitch 4/12
TOTAL 695 695

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.

Karyl Howell
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 31st day of October 2006.
 Personally known ✓ or Produced Identification _____

Karyl Howell
 Contractor Signature
 Contractors License Number _____
 Competency Card Number _____
 NOTARY STAMP/SEAL

Katherine R. Polbos
 Notary Signature
 KATHERINE R. POLBOS
 Notary Public, State of Florida
 My Comm. expires Sept. 25, 2009
 Comm. No. DD 458151



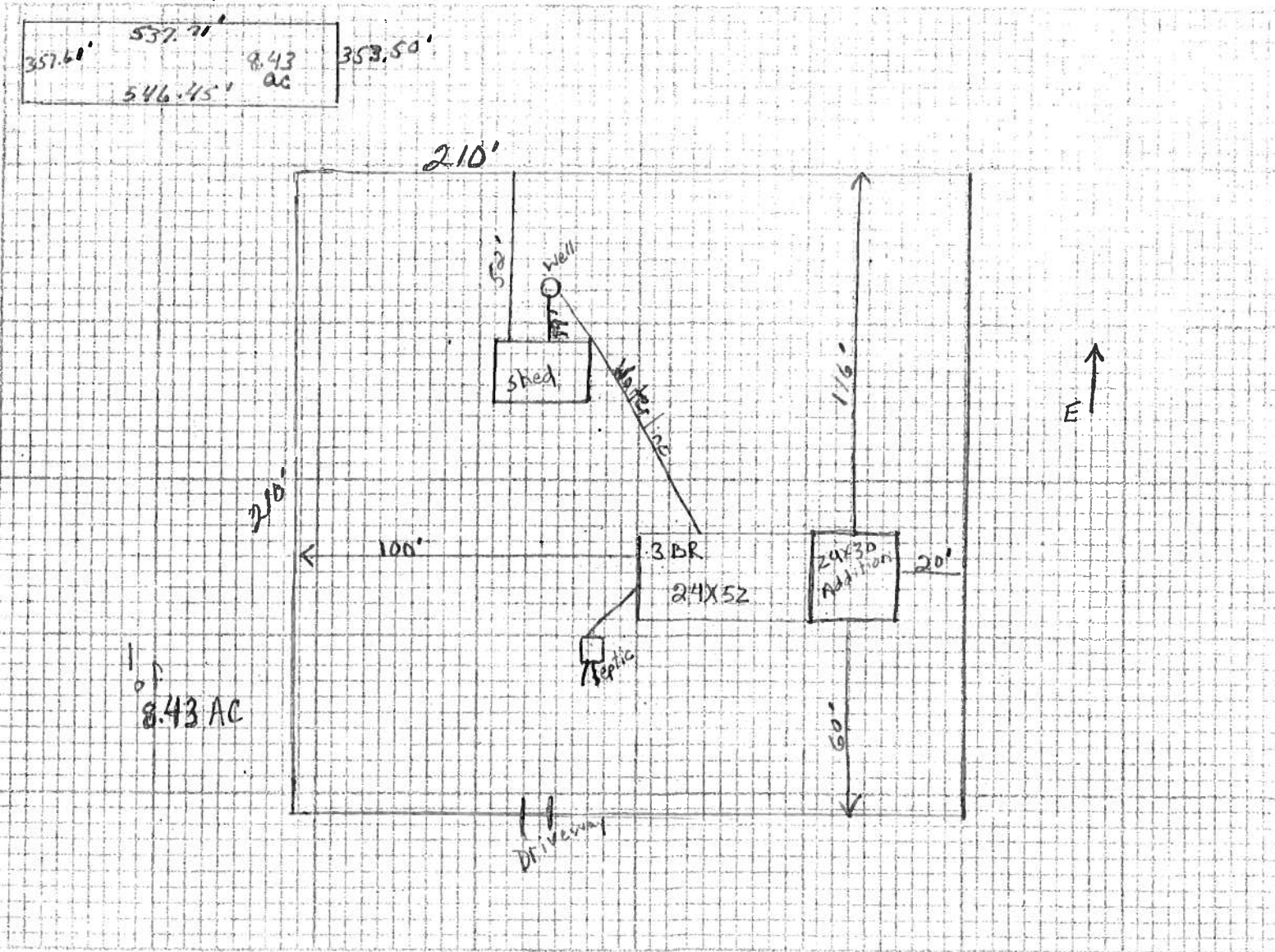
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0991E

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: _____

Site Plan submitted by: Kurt L. Howell

Signature

Plan Approved By

By

APPROVED

Not Approved _____

Columbia CHD

Owner

Title

Date 11/13/6

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

0610-96

**NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA**

*****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 in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number 02-65-17-09553-019HX

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

Comm NE Cor of SE 1/4 of NW 1/4, Run S 500ft to POB, cont. S
357.61 ft to POB. (AKA Lot 38-A Rolling Hills S/D UNREC). ORB
455-495, 692-690, 749-2431, 777-786
911 address: 241 SE Karyl Ct. Lake City, FL 32025

2. General description of Improvement: 24 X 30 great room addition

3. Owner Name & Address Tim & Karyl Howell

241 SE Karyl Ct Lake City, FL 32025 Interest in Property _____

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

5. Contractor Name Karyl Howell Phone Number 386 752-9573

Address 241 SE Karyl Ct. Lake City FL 32025

6. Surety Holders Name N/A Phone Number N/A

Address N/A

Amount of Bond N/A

7. Lender Name N/A Phone Number N/A

Address N/A

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 J.F. DC, P. Dewitt Cason, Columbia County B:1101 P:1710
_____ to receive a c

(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) _____**

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Karyl Howell
Signature of Owner

Sworn to (or affirmed) and subscribed before
day of Nov. 6, 2006

NOTARY STAMP/SEAL
KATHERINE R. POLBOS
Notary Public, State of Florida
My Comm. expires Sept. 25, 2009
Comm. No. DD 458151

Katherine R. Polbos
Signature of Notary

NOTORIZED DISCLOSURE STATEMENT

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

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed \$75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

- ☐ Single Family Dwelling
☐ Farm Outbuilding

- ☐ Two-Family Residence
☐ Other _____

NEW CONSTRUCTION OR IMPROVEMENT

- ☐ New Construction
☒ Addition, Alteration, Modification or other Improvement

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

Tim Howell
Owner Builder Signature

11/6/06
Date

Karyl Howell

11/6/06

The above signer is personally known to me or produced identification _____

Notary Signature

Katherine R. Polbos

Date 11-6-06



KATHERINE R. POLBOS
Notary Public, State of Florida
My Comm. expires Sept. 25, 2009
Comm. No. DD 458151
(Stamp / Seal)

FOR BUILDING USE ONLY

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

Date _____ Building Official/Representative _____

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☒	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☐	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
☒	☐	<u>Site Plan including:</u> a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☒	☐	<u>Wind-load Engineering Summary, calculations and any details required</u> Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, I_w, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7. c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m^2) to be used for the design of exterior component and cladding materials not specially designed by the registered design professional.
☐	☐	<u>Elevations including:</u> a) All sides b) Roof pitch c) Overhang dimensions and detail with attic ventilation
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d) Location, size and height above roof of chimneys.

e) Location and size of skylights

f) Building height

e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned.

b) Shear walls identified.

c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 (see attach forms).

d) Show safety glazing of glass, where required by code.

e) Identify egress windows in bedrooms, and size.

f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, (Please circle applicable type).

g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.

h) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing.

b) All posts and/or column footing including size and reinforcing

c) Any special support required by soil analysis such as piling

d) Location of any vertical steel.

Roof System:

a) Truss package including:

1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 106.1.1.2)Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

b) Conventional Framing Layout including:

1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

a) Masonry wall

1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss plans.
6. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiteicide or alternative method)
10. Slab on grade
 - a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:

- a. Attic space
- b. Exterior wall cavity
- c. Crawl space (if applicable)

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b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
 - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

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c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment
- g) Arc Fault Circuits (AFCI) in bedrooms
- h) Exhaust fans in bathroom

HVAC Information

- a) Energy Calculations (dimensions shall match plans)
- b) Manual J sizing equipment or equivalent computation
- c) Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

*****Notice Of Commencement Required Before Any Inspections Will Be Done Private Potable Water**

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- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

1. **Building Permit Application:** A current Building Permit Application form is to be completed and submitted for all residential projects.
2. **Parcel Number:** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
3. **Environmental Health Permit or Sewer Tap Approval:** A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)
4. **City Approval:** If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
5. **Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.**
A development permit will also be required. Development permit cost is \$50.00
6. **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. **If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.**
7. **911 Address:** If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS – PLEASE DO NOT ASK

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			

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

Karl L. Insell
APPLICANT SIGNATURE

11/12/02
DATE



Columbia County 9-1-1 Addressing / GIS Department

P.O. Box 1787, Lake City, FL 32056

Telephone: (386) 758-1125 * Fax: (386) 758-1365 * E-mail: ron_croft@columbiacountyfla.com



9-1-1 Address Request Form

NOTE: ADDRESS ASSIGNMENT MAY REQUIRE UP TO 10 WORKING DAYS. IF THE ADDRESSING DEPARTMENT NEEDS TO CONDUCT ON SITE GPS LOCATION IDENTIFICATION, ADDITIONAL TIME MAY BE REQUIRED.

Date of Request: _____

Requester Last Name: _____

First Name: _____

Contact Telephone Number: _____

(Cell Phone Number if Provided): _____

Requested for Self: _____ or Requested for Company: _____
(check one)

If Address is Requested by a Company, Provide Name of Requesting Company:

Parcel Identification Number: _____ - _____ - _____ - _____

If in Subdivision, Provide Name Of Subdivision:

Phase or Unit Number (if any): _____ Block Number (if any): _____

Lot Number: _____

Attach Site Plan or you may use back of Request Form for Site Plan:

Requirements for Site Plan Are Listed on Back of Request From:
(NOTE: Site Plan Does NOT have to be a survey or to scale; FURTHER a Environmental Health Dept. Site Plan showing only a 210 by 210 cutout of a property will NOT suffice for Addressing Requirements.)

Addressing / GIS Department Use Only:

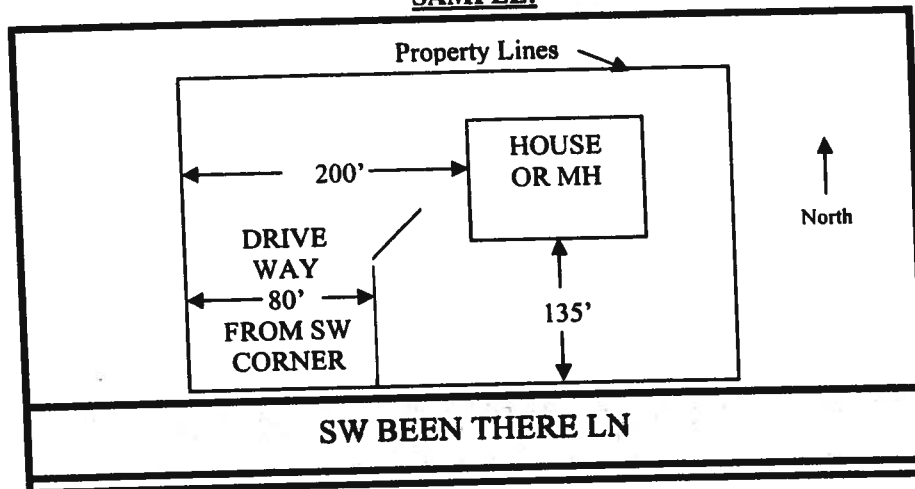
Date Received: _____

Date Assigned: _____

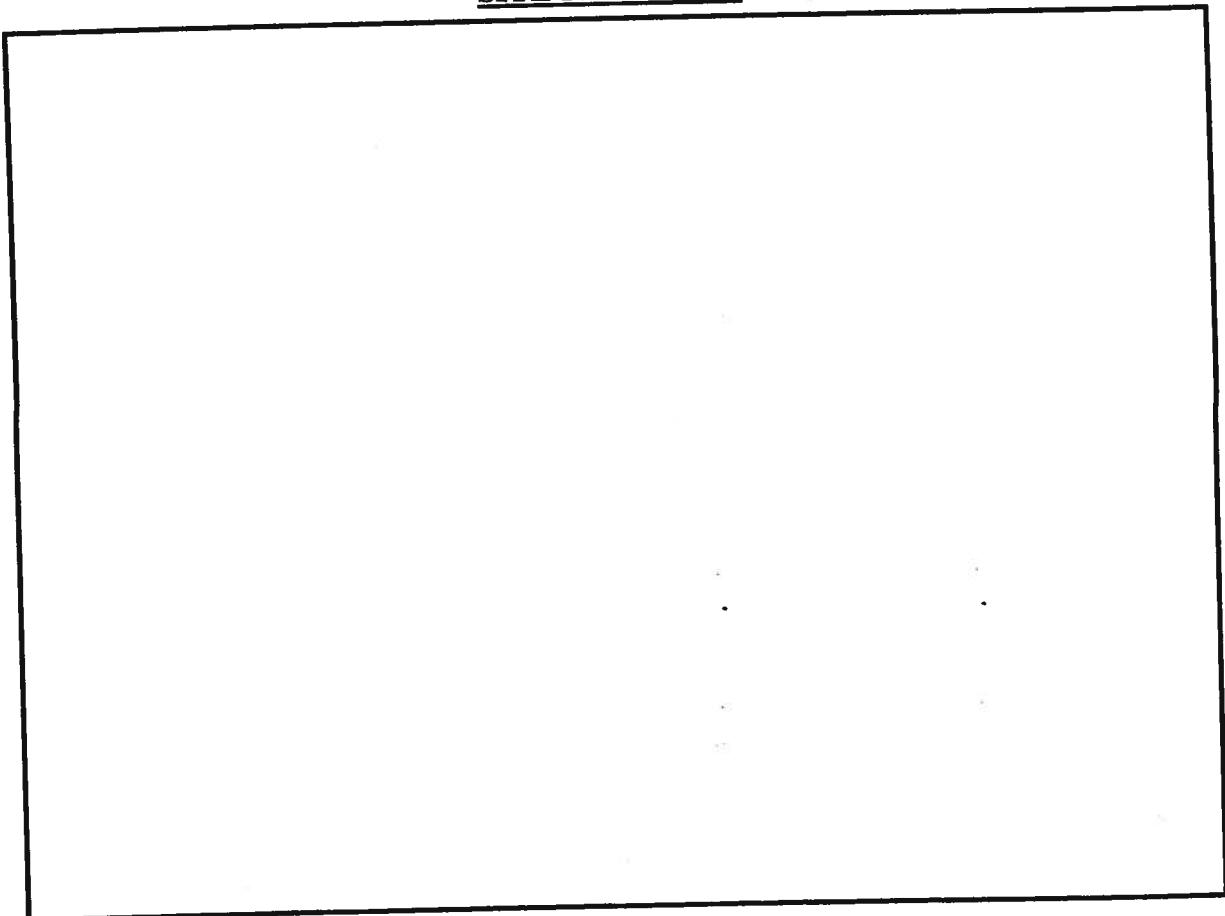
ID Number: _____

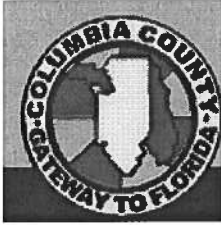
1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



SITE PLAN BOX:





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: **0610-96**
Applicant Karyl Howell, Owner/Builder, Karyl Howell Property ID 06-7s-09925-114

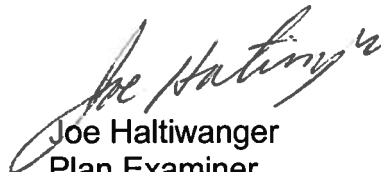
On the date of November 2, 2006 application 0610-96 and plans for construction of an addition on to single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0610-96 and when making reference to this application.

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

1. Please submit a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.
2. Please review and submit the attached notarized disclosure statement as the owner/builder of this addition onto your dwelling.
- OK
JTH 3. As per a phone conversation this date Mr. Nick Geisler was requested to review the foundation plan and determine if the soils bearing capacity for the foundation as design would be sufficient for 1,000 pound per square foot (assumed by the Columbia County Building Department) rather than the 1,500 pound per square foot as shown on the submitted plans. Mr. Geisler advised this office that plans would be corrected to state that the soils bearing capacity for the foundation as design would be 1,000 pound per square foot.

Thank You:


Joe Haltiwanger
Plan Examiner
Columbia County Building
Department

Columbia County Property Appraiser

DB Last Updated: 8/1/2006

Parcel: 02-6S-17-09553-019 HX

2006 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Print

Owner & Property Info

<< Prev Search Result: 2 of 2

Owner's Name	HOWELL FRED TIMOTHY &
Site Address	KARYL
Mailing Address	KARYL LYNN 241 SE KARYL CT LAKE CITY, FL 32025
Description	COMM NE COR OF SE1/4 OF NW1/4, RUN S 500 FT FOR POB, CONT S 537.71 FT, W 353.50 FT, N 546.45 FT, E 357.61 FT TO POB. (AKA LOT 38-A ROLLING HILLS S/D UNREC). ORB 455-495, 692-690, 749-2431, 777-786.

Use Desc. (code)	SINGLE FAM (000100)
Neighborhood	2617.02
Tax District	3
UD Codes	MKTA02
Market Area	02
Total Land Area	8.430 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (2)	\$53,952.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$50,335.00
XFOB Value	cnt: (5)	\$5,542.00
Total Appraised Value		\$109,829.00

Just Value	\$109,829.00
Class Value	\$0.00
Assessed Value	\$36,589.00
Exempt Value	(code: HX) \$25,000.00
Total Taxable Value	\$11,589.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
7/15/1993	777/786	WD	I	Q		\$32,000.00
12/1/1986	608/236	WD	I	Q		\$37,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1976	Common BRK (19)	1272	2268	\$50,335.00
Note: All S.F. calculations are based on exterior building dimensions.						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0294	SHED WOOD/	0	\$300.00	1.000	13 x 19 x 0	(.00)
0070	CARPORT UF	0	\$150.00	1.000	12 x 19 x 0	(.00)
0166	CONC,PAVMT	1993	\$240.00	120.000	10 x 12 x 0	(.00)
0040	BARN,POLE	1993	\$4,320.00	1728.000	36 x 48 x 0	(.00)
0252	LEAN-TO W/	1993	\$532.00	266.000	14 x 19 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	4.430 AC	1.00/1.00/1.00/1.00	\$6,400.00	\$28,352.00
000100	SFR (MKT)	4.000 AC	1.00/1.00/1.00/1.00	\$6,400.00	\$25,600.00

Columbia County Property Appraiser

DB Last Updated: 8/1/2006

<< Prev

2 of 2

Karyl Howell
241 SE Karyl Court
Lake City, FL. 32025
386-752-7585

Property Plan

116'

200'

proposed
addition

existing
structure

230'

+600'

[Date]

Notice of Treatment

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

Address: 9414 Ave
City Lake City Phone 752 1703

Site Location: Subdivision

Lot # 38 Block# A Permit # 25273
Address 841 SE Karyl Ct

Product used

Active Ingredient

% Concentration

☒ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Addition

720

106

70

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 _____.

1/24/07
Date

1445
Time

Gunny F254
Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name: **Karyl Howell**
 Address: **241 SW Karyl CT**
 City, State: **, FL 32024-**
 Owner: **Howell Residence**
 Climate Zone: **North**

Builder:
 Permitting Office:
 Permit Number:
 Jurisdiction Number:

1. New construction or existing Addition ☐
2. Single family or multi-family Single family ☐
3. Number of units, if multi-family 1 ☐
4. Number of Bedrooms ☐
5. Is this a worst case? No ☐
6. Conditioned floor area (ft²) 695 ft² ☐
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)
 - a. U-factor: Description Area
 (or Single or Double DEFAULT) 7a(Sngle Default) 120.0 ft² ☐
 - b. SHGC:
 (or Clear or Tint DEFAULT) 7b. (Clear) 120.0 ft² ☐
8. Floor types
 - a. Slab-On-Grade Edge Insulation R=0.0, 110.0(p) ft ☐
 - b. N/A ☐
 - c. N/A ☐
9. Wall types
 - a. Concrete, Ext Insul, Exterior R=5.0, 760.0 ft² ☐
 - b. N/A ☐
 - c. N/A ☐
 - d. N/A ☐
 - e. N/A ☐
10. Ceiling types
 - a. Under Attic R=30.0, 695.0 ft² ☐
 - b. N/A ☐
 - c. N/A ☐
11. Ducts(Leak Free)
 - a. Sup: Unc. Ret: Unc. AH: Garage Sup. R=6.0, 15.0 ft ☐
 - b. N/A ☐

12. Cooling systems
 - a. Central Unit Cap: 21.0 kBtu/hr
SEER: 12.00 ☐
 - b. N/A ☐
 - c. N/A ☐
13. Heating systems
 - a. Electric Heat Pump Cap: 21.0 kBtu/hr
HSPF: 7.00 ☐
 - b. N/A ☐
 - c. N/A ☐
14. Hot water systems
 - a. N/A ☐
 - b. N/A ☐
 - c. Conservation credits
 (HR-Heat recovery, Solar
 DHP-Dedicated heat pump) ☐
15. HVAC credits PT, ☐

(CF-Ceiling fan, CV-Cross ventilation,
 HF-Whole house fan,
 PT-Programmable Thermostat,
 MZ-C-Multizone cooling,
 MZ-H-Multizone heating)

Glass/Floor Area: 0.17

Total as-built points: 7422

Total base points: 7439

PASS

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

PREPARED BY: *Justin Smith*DATE: 9-28-06

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

OWNER/AGENT: _____

DATE: _____

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

BUILDING OFFICIAL: _____

DATE: _____



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: 241 SW Karyl CT, , FL, 32024-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	695.0	20.04	2507.0	Single, Clear	W	1.5	8.0	45.0	43.84	0.96	1890.1
				Single, Clear	E	1.5	8.0	45.0	47.92	0.96	2064.8
				Single, Clear	S	1.5	8.0	30.0	40.81	0.92	1130.4
				As-Built Total:				120.0		5085.2	
WALL TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM		= Points		
Adjacent	0.0	0.00	0.0	Concrete, Ext Insul, Exterior		5.0	760.0	0.50		380.0	
Exterior	760.0	1.70	1292.0								
Base Total:		760.0	1292.0	As-Built Total:				760.0		380.0	
DOOR TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM		= Points		
Adjacent	0.0	0.00	0.0								
Exterior	0.0	0.00	0.0								
Base Total:		0.0	0.0	As-Built Total:				0.0		0.0	
CEILING TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM X SCM		= Points		
Under Attic	695.0	1.73	1202.3	Under Attic		30.0	695.0	1.73 X 1.00		1202.3	
Base Total:		695.0	1202.3	As-Built Total:				695.0		1202.3	
FLOOR TYPES		Area X BSPM = Points		Type	R-Value		Area X SPM		= Points		
Slab	110.0(p)	-37.0	-4070.0	Slab-On-Grade Edge Insulation		0.0	110.0(p)	-41.20		-4532.0	
Raised	0.0	0.00	0.0								
Base Total:			-4070.0	As-Built Total:				110.0		-4532.0	
INFILTRATION		Area X BSPM = Points				Area X SPM		= Points			
	695.0	10.21	7096.0			695.0		10.21		7096.0	

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**ADDRESS: **241 SW Karyl CT, , FL, 32024-**

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 8027.3				Summer As-Built Points: 9231.5						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
8027.3	0.4266		3424.4	(sys 1: Central Unit 21000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 9232	1.00	(1.09 x 1.000 x 1.00)	0.284	0.950		2718.8
				9231.5	1.00	1.090	0.284	0.950		2718.8

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 241 SW Karyl CT, , FL, 32024-

PERMIT #:

BASE				AS-BUILT								
GLASS TYPES												
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points				
.18	695.0	12.74	1593.8	Single, Clear	W	1.5	8.0	45.0	28.84	1.01	1312.2	
				Single, Clear	E	1.5	8.0	45.0	26.41	1.02	1212.0	
				Single, Clear	S	1.5	8.0	30.0	20.24	1.04	632.1	
				As-Built Total:			120.0			3156.4		
WALL TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Concrete, Ext Insul, Exterior			5.0	760.0	4.30	3268.0		
Exterior	760.0	3.70	2812.0									
Base Total:				760.0			2812.0		As-Built Total:			760.0 3268.0
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points				
Adjacent	0.0	0.00	0.0									
Exterior	0.0	0.00	0.0									
Base Total:				0.0			0.0		As-Built Total:			0.0
CEILING TYPES Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points				
Under Attic	695.0	2.05	1424.8	Under Attic			30.0	695.0	2.05 X 1.00	1424.8		
Base Total:				695.0			1424.8		As-Built Total:			695.0 1424.8
FLOOR TYPES Area X BWPM = Points				Type	R-Value			Area X WPM = Points				
Slab	110.0(p)	8.9	979.0	Slab-On-Grade Edge Insulation			0.0	110.0(p)	18.80	2068.0		
Raised	0.0	0.00	0.0									
Base Total:				979.0			2068.0		As-Built Total:			110.0 2068.0
INFILTRATION Area X BWPM = Points							Area X WPM = Points					
695.0 -0.59 -410.0							695.0 -0.59 -410.0					

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**ADDRESS: **241 SW Karyl CT, , FL, 32024-**

PERMIT #:

BASE				AS-BUILT						
Winter Base Points: 6399.5				Winter As-Built Points: 9507.1						
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
6399.5	0.6274	4015.0		(sys 1: Electric Heat Pump 21000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 9507.1 1.000 (1.069 x 1.000 x 1.00) 0.487 0.950 4703.3 9507.1	1.00	1.069	0.487	0.950	4703.3	

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: 241 SW Karyl CT, , FL, 32024-

PERMIT #:

BASE				AS-BUILT						
WATER HEATING				Tank	EF	Number of	X	Tank	X	Credit = Total
Number of	X	Multiplier	=	Volume		Bedrooms		Ratio	Multiplier	Multiplier
Bedrooms			Total							
0		2635.00	0.0			0		1.00	2635.00	1.00 7905.0
				As-Built Total:						0.0

CODE COMPLIANCE STATUS										
BASE						AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
3424		4015		0	7439	2719		4703		0 7422

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 241 SW Karyl CT, , FL, 32024-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.8

The higher the score, the more efficient the home.

Howell Residence, 241 SW Karyl CT, , FL, 32024-

1. New construction or existing	Addition	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 21.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 12.00
4. Number of Bedrooms		___	b. N/A	___
5. Is this a worst case?	No	___	c. N/A	___
6. Conditioned floor area (ft²)	695 ft²	___		___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___	13. Heating systems	
a. U-factor:	Description Area		a. Electric Heat Pump	Cap: 21.0 kBtu/hr
(or Single or Double DEFAULT) 7a(Sngle Default)	120.0 ft²	___		HSPF: 7.00
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT) 7b. (Clear)	120.0 ft²	___	c. N/A	___
8. Floor types		___		___
a. Slab-On-Grade Edge Insulation	R=0.0, 110.0(p) ft	___	14. Hot water systems	
b. N/A		___	a. N/A	___
c. N/A		___	b. N/A	___
9. Wall types		___	c. Conservation credits	___
a. Concrete, Ext Insul, Exterior	R=5.0, 760.0 ft²	___	(HR-Heat recovery, Solar	___
b. N/A		___	DHP-Dedicated heat pump)	___
c. N/A		___	15. HVAC credits	PT, ___
d. N/A		___	(CF-Ceiling fan, CV-Cross ventilation,	___
e. N/A		___	HF-Whole house fan,	___
10. Ceiling types		___	PT-Programmable Thermostat,	___
a. Under Attic	R=30.0, 695.0 ft²	___	MZ-C-Multizone cooling,	___
b. N/A		___	MZ-H-Multizone heating)	___
c. N/A		___		___
11. Ducts(Leak Free)		___		___
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 15.0 ft	___		___
b. N/A		___		___

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCPB v4.1)

Energy Code Compliance

Duct System Performance Report

Project Name: Karyl Howell
Address: 241 SW Karyl CT
City, State: , FL 32024-
Owner: Howell Residence
Climate Zone: North

Builder:
Permitting Office:
Permit Number:
Jurisdiction Number:

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_{n,tot}) ☐ Receive credit if Q_{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_{n,out}) ☐ Receive credit if Q_{n,out} ≤ 0.03 AND Q_{n,tot} ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



BUILDING OFFICIAL: _____

DATE: _____

COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 02-6S-17-09553-019

Building permit No. 000025273

Use Classification ADDITION TO SFD

Fire: 0.00

Permit Holder KARYL HOWELL

Waste:

Owner of Building KARYL HOWELL

Total: 0.00

Location: 241 SE KARYL COURT, LAKE CITY, FL

Date: 07/27/2007



Harry Bieker

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

R
W
B.
C**R W Building Consultants, Inc.**

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33595 Phone 813.659.9197 Facsimile 813.754.9989

Florida Board of Professional Engineers Certificate of Authorization No. 9813

Product Evaluation Report

Report No.: FL 5611.2 R2
Date: June 23, 2006
Product Category: Windows
Product sub-category: Single Hung
Product Name: 700 Series Models 750 / 770
Single Hung Aluminum Window - Nailing Fin
Manufacturer: Silverline Building Products Corporation
1 Silverline Drive
North Brunswick, NJ 08902
Phone - 732.435.1000 Facsimile - 732.247.6820

Scope: This is a Product Evaluation report issued by R W Building Consultants, Inc. and Wendell W. Haney, P.E. (System ID # 1993) for Silverline Building Products based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

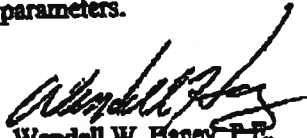
RW Building Consultants and Wendell W. Haney, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the Florida Building Code (2004 Edition) and where pressure requirements, as determined by Chapter 16 of The Florida Building Code, do not exceed the following design pressures:

Design Pressure Rating:

Maximum Design Pressure Rating Positive 50.0 PSF Negative 50.0 PSF
(See Limitations for size restrictions)

See Drawing No.: FL 657 prepared by R W Building Consultants, Inc. and signed and sealed by Wendell W. Haney, P.E. (FL # 54158) for specific use parameters.

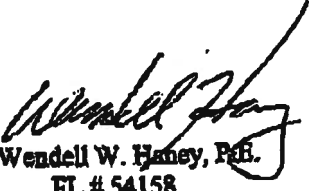

Wendell W. Haney, P.E.FL # 54158
June 23, 2006

Limitations

1. The 700 Series Models 750 / 770 Single Hung Aluminum Window with Flange has been evaluated and meets the requirements for use within the State of Florida excluding the "High Velocity Hurricane Zone".
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering protection device that complies with Section 1609.1.4 of the Florida Building Code.
3. Size Limitations:

<u>Configurations</u>		<u>MAX. Width</u>	<u>MAX. Height</u>
Single	Ω X	55.0'	74.0"

4. See Drawing # FL-657 for Design Pressure Ratings.


Wendell W. Haney, P.E.
FL # 54158
June 23, 2006

Supporting Documents

A Drawing

1. Drawing No. FL-657 titled 700 Series Models 750 / 770 Single Hung Aluminum Windows prepared by R W Building Consultants, Inc. (Florida Board of Professional Engineers Certificate of Authorization No. 9813), signed and sealed by Wendell W. Haney, P.E.

B Test

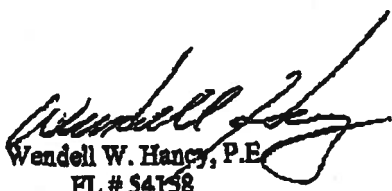
1. Testing per 101/L.S. 2-97 as performed by Architectural Testing and reported in test report number 60395.02-122-47, dated October 20, 2005 signed and sealed by Joseph A. Reed, P.E., Director- Engineering and Product Testing.
2. Testing per 101/L.S. 2-97 as performed by Architectural Testing and reported in test report number ATI 63607.01-109-47, dated April 27, 2006, signed and sealed by Steven M. Ulrich, P.E.
3. Testing per 101/L.S.2/A440-05 as performed by Architectural Testing and reported in test report number ATI 63608.01-109-47, dated May 22, 2006, signed and sealed by Michael D. Stremmel, P.E.
4. Extruder must be a certified PVC Extrusion Licensee Listed on the current AAMA PVC Extrusion Certification Program Listing.

C Calculations

1. Product anchoring is in accordance with manufacturer's published recommendations as substantiated in test report numbers ATI 63607.01-109-47, ATI 63608.01-109-47 and ATI 60395.02-122-47.
2. Buck anchor analysis for loading conditions, prepared, signed and sealed by Wendell W. Haney, P.E.
3. Glass Load Resistance Report ASTM E1300-02 prepared by Wendell W. Haney, P.E.

D Other

Certificate of Participation issued by National Accreditation & Management Institute, Inc., certifying that Silverline Building Products, North Brunswick, NJ is manufacturing products within a quality assurance program.


Wendell W. Haney, P.E.
FL # 54158
June 23, 2006

Silverline

BLINDING PRODUCTS CORP.

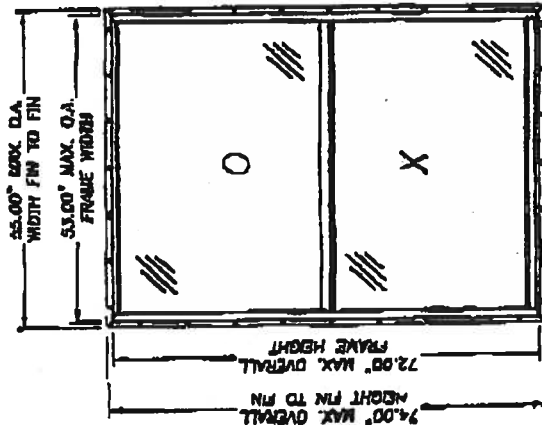
1 SA VERLINE DRIVE, NORTH BRUNSWICK, NJ 08902 PH: 732.435.1000

700 SERIES MODELS 750 / 770 SINGLE HUNG ALUMINUM WINDOW WITH NAILING FIN

GENERAL NOTES

1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE 2004 FLORIDA BUILDING CODE EXCLUDING THE "HIGH VELOCITY HURRICANE ZONE".
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. WHEN USED IN AREAS REQUIRING WIND-BORNE DEBRIS PROTECTION THIS PRODUCT IS REQUIRED TO BE PROTECTED WITH AN IMPACT RESISTANT COVERING THAT COMPLETES WITH SECTION 1009.1.4 OF THE FLORIDA BUILDING CODE.
4. FOR 2X STUD FRAMING CONSTRUCTION, ANCHORING OF THESE UNITS SHALL BE THE SAME AS THAT SHOWN FOR 2X BUCK HUSKY CONSTRUCTION.
5. CONDITIONS NOT COVERED BY THIS DRAWING ARE SUBJECT TO FURTHER ENGINEERING ANALYSIS.

SHEET #	DESCRIPTION
1	REFER ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES
2	DESIGN PRESSURES, WALLS, OPTIONS & GLAZING DETAILS
3	HORIZONTAL & VERTICAL CROSS SECTIONS INSULATED GLASS
4	HORIZONTAL & VERTICAL CROSS SECTIONS SINGLE RIR GLASS
5	BUCK & FABRIC ANCHORS
6	DETAIL OF MATERIALS, COMPONENTS & GLAZING DETAILS



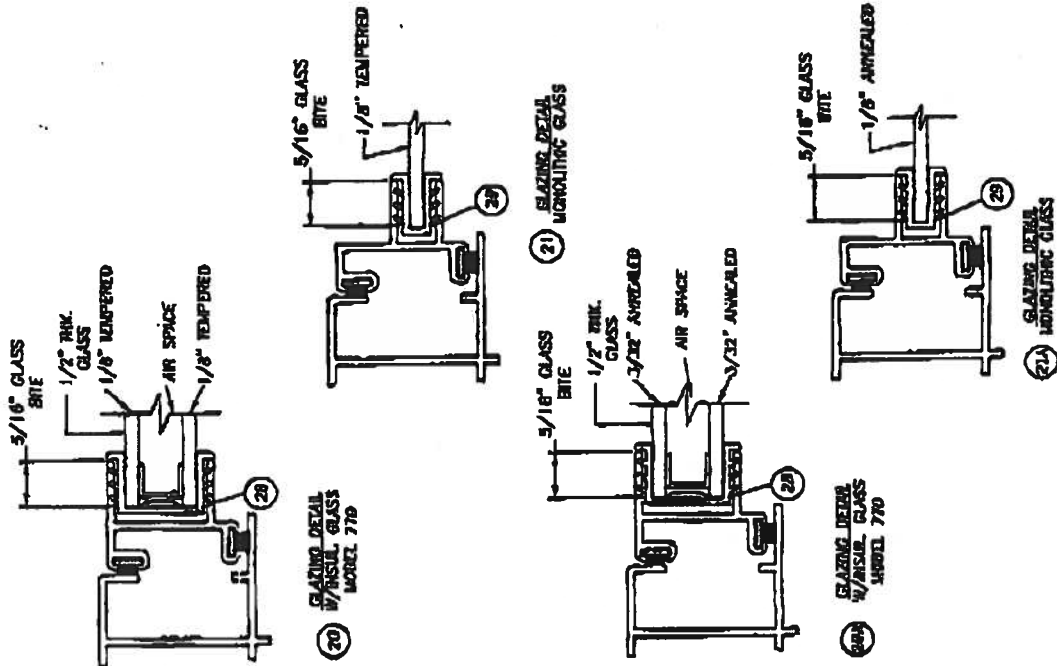
SEE SHEET 2 FOR DESIGN PRESSURES

&

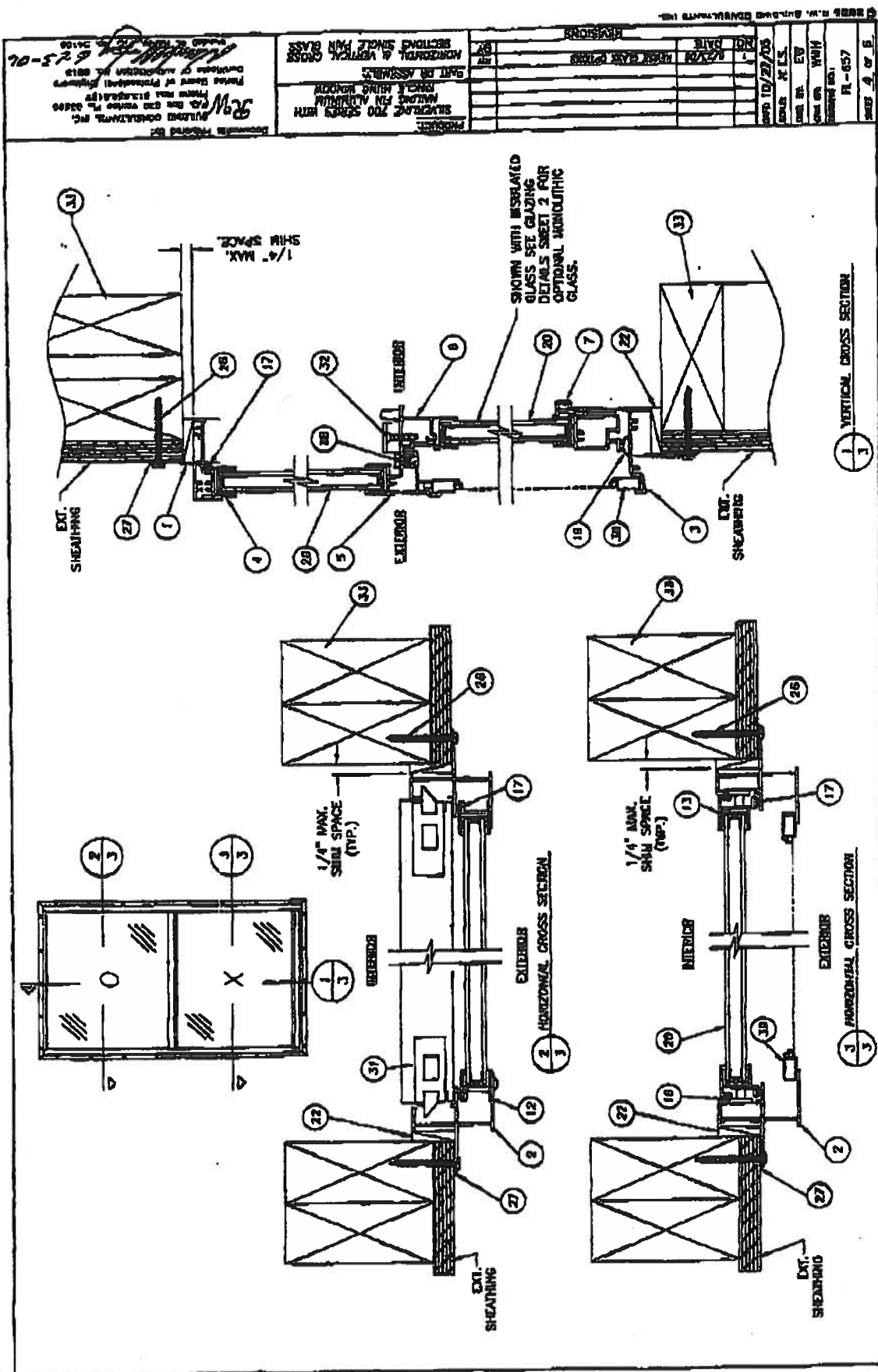
GLAZING OPTIONS DETAILS

PROJECT: 200 SERIES WITH SINGLE HUNG WINDOW DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 10/23/05		TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES BY: [Signature] DATE: 10/23/05	
89W P.O. BOX 228 NORTH BRUNSWICK, NJ 08902 PHONE: 732.435.1000 FAX: 732.435.1001 E-MAIL: SALES@SILVERLINE.COM		1 OF 6	

OVERALL DIMENSION		OVERALL FRAME DIMENSION	OVERALL DAY LIGHT DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
38.00" X 65.00"	MODEL 770	37.00" X 63.00"	(UPPER) 34.00" X 28.00"	MONOLITHIC 1/8" TEMPERED	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
			(UPPER) 34.00" X 28.00"	MONOLITHIC 1/8" ANNEALED	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
55.00" X 74.00"	MODEL 770	53.00" X 72.00"	(UPPER) 50.00" X 33.31"	MONOLITHIC 1/8" TEMPERED	+30.0 PSF	-30.0 PSF
			(LOWER) 50.00" X 33.31"			
			(UPPER) 50.00" X 33.31"	MONOLITHIC 1/8" ANNEALED	+30.0 PSF	-30.0 PSF
			(LOWER) 50.00" X 33.31"			
38.00" X 65.00"	MODEL 770	37.00" X 63.00"	(UPPER) 34.00" X 28.00"	1/8" TEMP. - AIR - 1/8" TEMP.	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
			(UPPER) 34.00" X 28.00"	1/8" 3/32" ANNL - AIR - 3/32" ANNL	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
55.00" X 74.00"	MODEL 770	53.00" X 72.00"	(UPPER) 50.00" X 33.31"	1/8" 1/8" TEMP. - AIR - 1/8" TEMP.	+50.0 PSF	-50.0 PSF
			(LOWER) 50.00" X 33.31"			
			(UPPER) 50.00" X 33.31"	1/8" 3/32" ANNL - AIR - 3/32" ANNL	+50.0 PSF	-50.0 PSF
			(LOWER) 50.00" X 33.31"			
38.00" X 65.00"	MODEL 770	37.00" X 63.00"	(UPPER) 34.00" X 28.00"	1/8" 1/8" TEMP. - AIR - 1/8" TEMP.	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
			(UPPER) 34.00" X 28.00"	1/8" 3/32" ANNL - AIR - 3/32" ANNL	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
55.00" X 74.00"	MODEL 770	53.00" X 72.00"	(UPPER) 50.00" X 33.31"	1/8" 1/8" TEMP. - AIR - 1/8" TEMP.	+50.0 PSF	-50.0 PSF
			(LOWER) 50.00" X 33.31"			
			(UPPER) 50.00" X 33.31"	1/8" 3/32" ANNL - AIR - 3/32" ANNL	+50.0 PSF	-50.0 PSF
			(LOWER) 50.00" X 33.31"			



OVERALL DIMENSION		OVERALL FRAME DIMENSION	OVERALL DAY LIGHT DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
38.00" X 65.00"	MODEL 770	37.00" X 63.00"	(UPPER) 34.00" X 28.00"	MONOLITHIC 1/8" TEMPERED	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
			(UPPER) 34.00" X 28.00"	MONOLITHIC 1/8" ANNEALED	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
55.00" X 74.00"	MODEL 770	53.00" X 72.00"	(UPPER) 50.00" X 33.31"	MONOLITHIC 1/8" TEMPERED	+30.0 PSF	-30.0 PSF
			(LOWER) 50.00" X 33.31"			
			(UPPER) 50.00" X 33.31"	MONOLITHIC 1/8" ANNEALED	+30.0 PSF	-30.0 PSF
			(LOWER) 50.00" X 33.31"			
38.00" X 65.00"	MODEL 770	37.00" X 63.00"	(UPPER) 34.00" X 28.00"	1/8" TEMP. - AIR - 1/8" TEMP.	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
			(UPPER) 34.00" X 28.00"	1/8" 3/32" ANNL - AIR - 3/32" ANNL	+50.0 PSF	-50.0 PSF
			(LOWER) 34.00" X 28.00"			
55.00" X 74.00"	MODEL 770	53.00" X 72.00"	(UPPER) 50.00" X 33.31"	1/8" 1/8" TEMP. - AIR - 1/8" TEMP.	+50.0 PSF	-50.0 PSF
			(LOWER) 50.00" X 33.31"			
			(UPPER) 50.00" X 33.31"	1/8" 3/32" ANNL - AIR - 3/32" ANNL	+50.0 PSF	-50.0 PSF
			(LOWER) 50.00" X 33.31"			



Residential System Sizing Calculation

Summary

Howell Residence
241 SW Karyl CT
, FL 32024-

Project Title:
Karyl Howell

Code Only
Professional Version
Climate: North

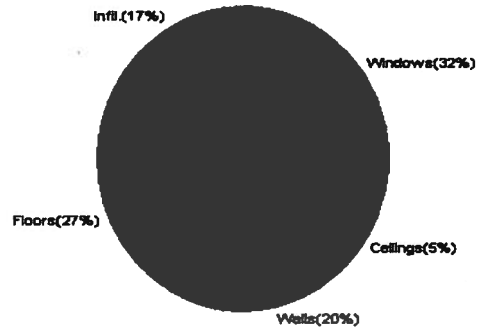
9/28/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	17882 Btuh	Total cooling load calculation	20166 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.4 21000	Sensible (SHR = 0.75)	92.7 15750
Heat Pump + Auxiliary(0.0kW)	117.4 21000	Latent	165.6 5250
		Total (Electric Heat Pump)	104.1 21000

WINTER CALCULATIONS

Winter Heating Load (for 695 sqft)

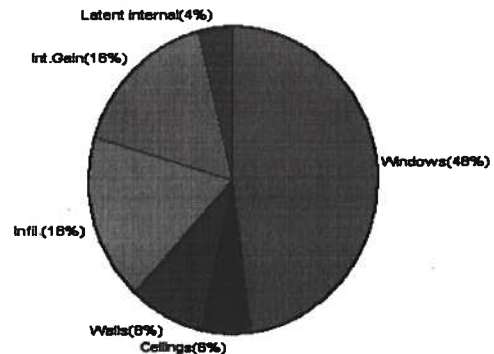
Load component		Load	
Window total	120 sqft	5639	Btuh
Wall total	760 sqft	3619	Btuh
Door total	0 sqft	0	Btuh
Ceiling total	695 sqft	819	Btuh
Floor total	110 sqft	4803	Btuh
Infiltration	74 cfm	3003	Btuh
Duct loss		0	Btuh
Subtotal		17882	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		17882	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 695 sqft)

Load component		Load	
Window total	120 sqft	9625	Btuh
Wall total	760 sqft	1692	Btuh
Door total	0 sqft	0	Btuh
Ceiling total	695 sqft	1151	Btuh
Floor total		0	Btuh
Infiltration	65 cfm	1207	Btuh
Internal gain		3320	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		16996	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		2371	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		800	Btuh
Total latent gain		3171	Btuh
TOTAL HEAT GAIN		20166	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE: 9-28-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Howell Residence
241 SW Karyl CT
, FL 32024-

Project Title:
Karyl Howell

Code Only
Professional Version
Climate: North

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

9/28/2006

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	45.0	47.0	2115 Btuh
2	1, Clear, Metal, 1.27	E	45.0	47.0	2115 Btuh
3	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
	Window Total		120(sqft)		5639 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Concrete Blk, - Ext(0.13)	5.0	760	4.8	3619 Btuh
	Wall Total		760		3619 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	695	1.2	819 Btuh
	Ceiling Total		695		819Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	110.0 ft(p)	43.7	4803 Btuh
	Floor Total		110		4803 Btuh
	Zone Envelope Subtotal:				14879 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	5560	74.1	3003 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				17882 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	17882 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17882 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Howell Residence
241 SW Karyl CT
FL 32024-

Project Title:
Karyl Howell

Code Only
Professional Version
Climate: North

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

9/28/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	1, Clear, Metal, 1.27	W	45.0		47.0	2115 Btuh
2	1, Clear, Metal, 1.27	E	45.0		47.0	2115 Btuh
3	1, Clear, Metal, 1.27	S	30.0		47.0	1410 Btuh
Window Total			120(sqft)			5639 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Concrete Blk, - Ext(0.13)	5.0	760		4.8	3619 Btuh
Wall Total			760			3619 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	695		1.2	819 Btuh
Ceiling Total			695			819 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	110.0 ft(p)		43.7	4803 Btuh
Floor Total			110			4803 Btuh
Zone Envelope Subtotal:						14879 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.80	5560	74.1		3003 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					17882 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	17882 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17882 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Howell Residence
241 SW Karyl CT
, FL 32024-

Project Title:
Karyl Howell

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

9/28/2006

Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	45.0	0.0	45.0	37	94	4232	Btuh
2	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	45.0	0.0	45.0	37	94	4232	Btuh
3	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	30.0	30.0	0.0	37	43	1124	Btuh
	Excursion									38	Btuh
	Window Total				120 (sqft)					9625	Btuh
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load	
1	Concrete Blk, - Ext		5.0/0.13		760.0			2.2		1692 Btuh	
	Wall Total				760 (sqft)					1692 Btuh	
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle		30.0		695.0			1.7		1151 Btuh	
	Ceiling Total				695 (sqft)					1151 Btuh	
Floors	Type		R-Value		Size			HTM		Load	
1	Slab On Grade		0.0		110 (ft(p))			0.0		0 Btuh	
	Floor Total				110.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:									12469 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load	
	SensibleNatural		0.70		5560			64.9		1207 Btuh	
Internal gain			Occupants		Btuh/occupant			Appliance		Load	
			4		X 230 +			2400		3320 Btuh	
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									16996 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Howell Residence
241 SW Karyl CT
, FL 32024-

Project Title:
Karyl Howell

Code Only
Professional Version
Climate: North

9/28/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	16996 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	16996 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	16996 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2371 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3171 Btuh
	TOTAL GAIN	20166 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Omt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Howell Residence
241 SW Karyl CT
, FL 32024-

Project Title:
Karyl Howell

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

9/28/2006

Component Loads for Zone #1: Main

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	1, Clear, 1.27, None,N,N	W	1.5ft	8ft.	45.0	0.0	45.0	37	94	4232 Btuh
2	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	45.0	0.0	45.0	37	94	4232 Btuh
3	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	30.0	30.0	0.0	37	43	1124 Btuh
	Excursion									38 Btuh
	Window Total				120 (sqft)					9625 Btuh
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load
1	Concrete Blk, - Ext		5.0/0.13		760.0			2.2		1692 Btuh
	Wall Total				760 (sqft)					1692 Btuh
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Vented Attic/DarkShingle		30.0		695.0			1.7		1151 Btuh
	Ceiling Total				695 (sqft)					1151 Btuh
Floors	Type		R-Value		Size			HTM		Load
1	Slab On Grade		0.0		110 (ft(p))			0.0		0 Btuh
	Floor Total				110.0 (sqft)					0 Btuh
	Zone Envelope Subtotal:									12469 Btuh
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load
	SensibleNatural		0.70		5560			64.9		1207 Btuh
Internal gain			Occupants		Btuh/occupant			Appliance		Load
			4		X 230 +			2400		3320 Btuh
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh
	Sensible Zone Load									16996 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Howell Residence
241 SW Karyl CT
, FL 32024-

Project Title:
Karyl Howell

Code Only
Professional Version
Climate: North

9/28/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	16996 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	16996 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	16996 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2371 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3171 Btuh
	TOTAL GAIN	20166 Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Omt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Howell Residence
241 SW Karyl CT
, FL 32024-

Project Title:
Karyl Howell

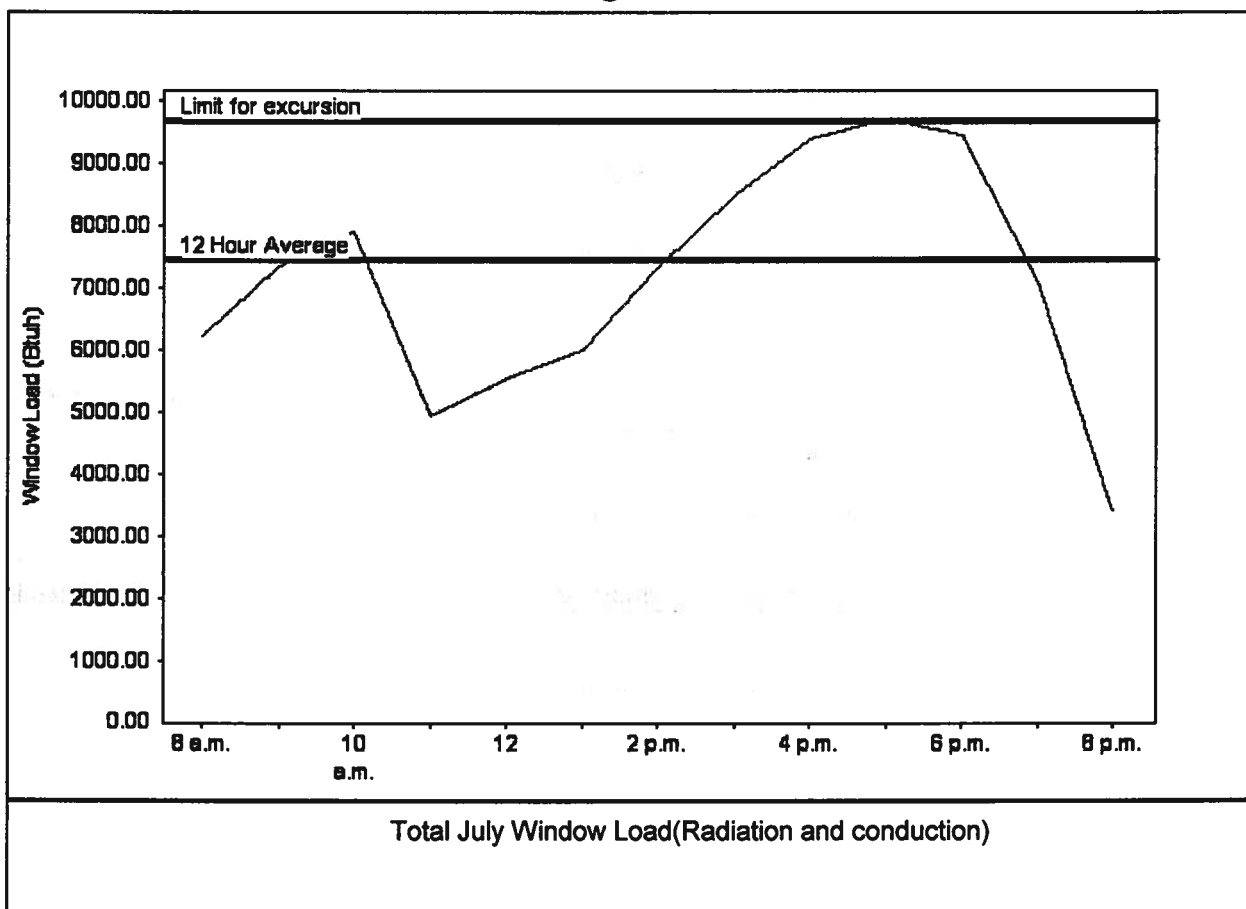
Code Only
Professional Version
Climate: North

9/28/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	7454 Btuh
Summer setpoint	75 F	Peak window load for July	9728 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	9690 Btuh
Latitude	29 North	Window excursion (July)	38 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

EnergyGauge® FLRCPB v4.1



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: 1T1F487-Z0213163727

Truss Fabricator: Anderson Truss Company
Job Identification: 6-356--Owner_Builder Karyl Howell -- , **
Truss Count: 2
Model Code: Florida Building Code 2004
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.24.
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

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: HCUSR487

Details: MAX DEAD LOAD-A11015EE-GBLLETIN-

#	Ref	Description	Drawing#	Date
1	38901-A1	23'2" Gable G	06286031	10/13/06
2	38902--A	23'2" Common	06286032	10/13/06

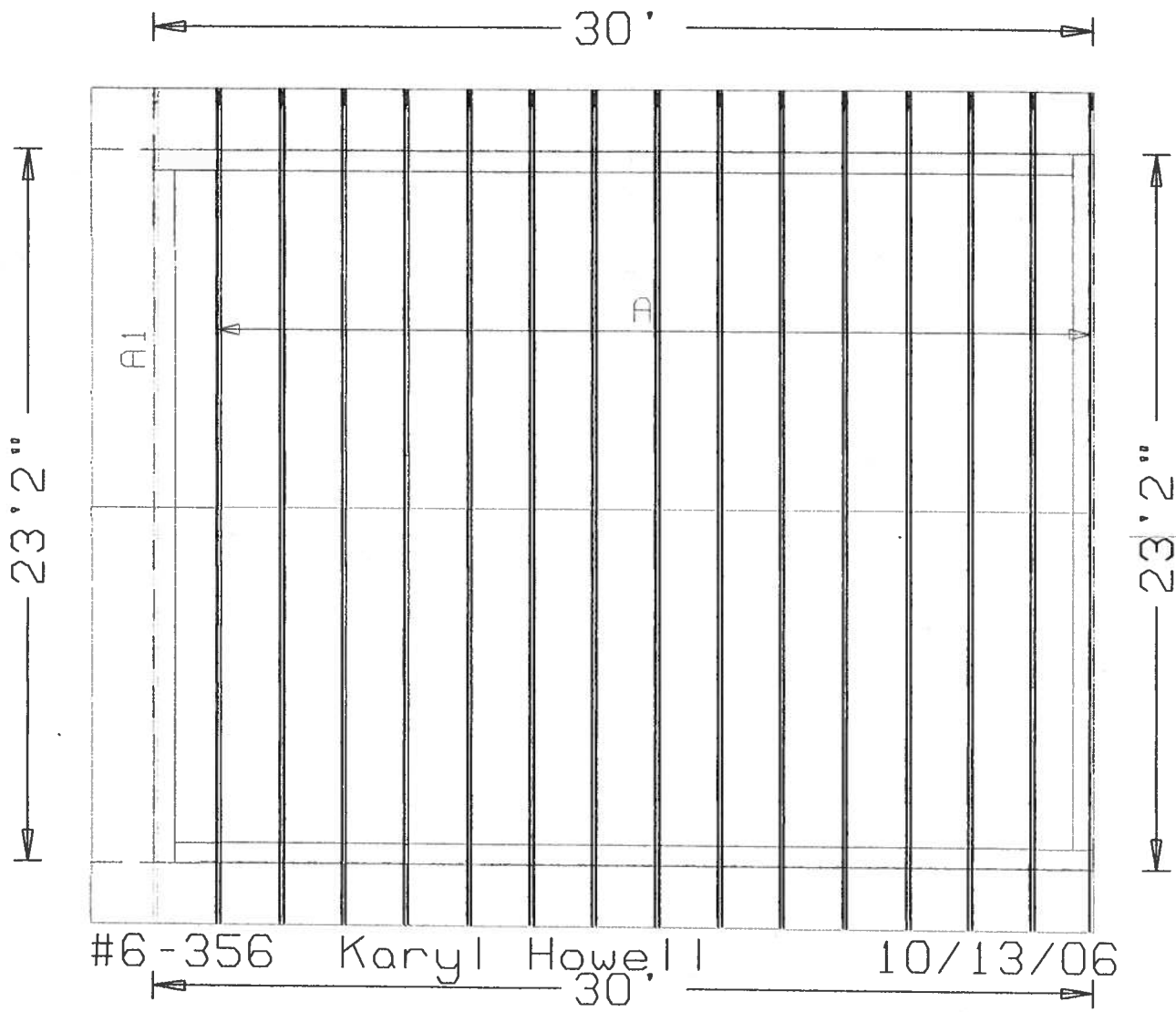


Seal Date: 10/13/2006

-Truss Design Engineer-
Arthur R. Fisher

Florida License Number: 59687
1950 Marley Drive
Haines City, FL 33844





JOB DESCRIPTION: Owner: Builder
/: Karyl Howell

JOB NO:
6-356

PAGE NO:
1 OF 1

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.

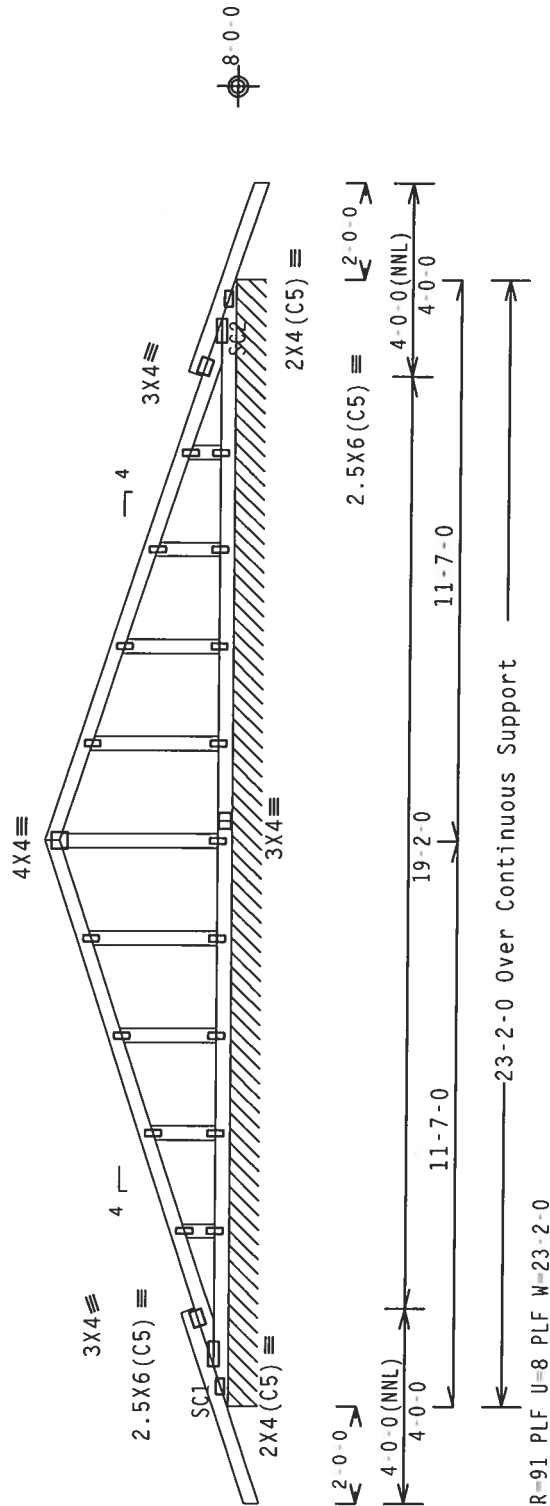
Roof overhang supports 2.00 psf soffit load.

Dead loads are stated on projected horizontal area basis.

See DWGS A11015EE0405 & GBLETTIN0405 for more requirements.

Deflection meets L/240 live and L/180 total load.

Stacked top chord must NOT be notched or cut in area (NNL).
Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface. plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

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

-24.1

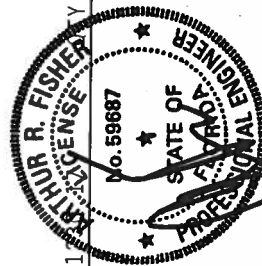
PROPERTY OF THE U.S. DEPARTMENT OF THE ARMY

Scale = .25"/Ft.

TC LL	20.0 PSF	REF R487--	38901
TC DL	10.0 PSF	DATE	10/13/06
BC DL	10.0 PSF	DRW	HCSR487 06286031
BC LL	0.0 PSF	HC-ENG	JB/AF
TOT.LD.	40.0 PSF	SEQN	1489
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T1F487 Z02

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BECS 1-3 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE CROSS PAPER INSTITUTE, 583 O'DONOFIO DR., SUITE 200, MADISON, WI 53719, AND NCA WOOD TRUSS COUNCIL OF AMERICA, 6000 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 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 2010 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR ANY FAILURE TO FOLLOW THE DESIGN SPEC. (BY AFAPA) AND THE DESIGN SPEC. (BY ALPINE). ALL TRUSS CONNECTOR PLATES ARE MADE OF 6061-T6 ALUMINUM DESIGN SPEC. (BY AFAPA) AND THE DESIGN SPEC. (BY ALPINE). PLATES TO EACH FACE OF TRUSS AND (UNLESS OTHERWISE LOCATED ON THIS DESIGN: POSITION PER DRAWINGS 160A-2, 160B-2, 160C-2, 160D-2, 160E-2, 160F-2, 160G-2, 160H-2, 160I-2, 160J-2, 160K-2, 160L-2, 160M-2, 160N-2, 160O-2, 160P-2, 160Q-2, 160R-2, 160S-2, 160T-2, 160U-2, 160V-2, 160W-2, 160X-2, 160Y-2, 160Z-2, 160AA-2, 160AB-2, 160AC-2, 160AD-2, 160AE-2, 160AF-2, 160AG-2, 160AH-2, 160AI-2, 160AJ-2, 160AK-2, 160AL-2, 160AM-2, 160AN-2, 160AO-2, 160AP-2, 160AQ-2, 160AR-2, 160AS-2, 160AT-2, 160AU-2, 160AV-2, 160AW-2, 160AX-2, 160AY-2, 160AZ-2, 160BA-2, 160BB-2, 160BC-2, 160BD-2, 160BE-2, 160BF-2, 160BG-2, 160BH-2, 160BI-2, 160BJ-2, 160BK-2, 160BL-2, 160BM-2, 160BN-2, 160BO-2, 160BP-2, 160BQ-2, 160BR-2, 160BS-2, 160BT-2, 160BU-2, 160BV-2, 160BW-2, 160BX-2, 160BY-2, 160BZ-2, 160CA-2, 160CB-2, 160CC-2, 160CD-2, 160CE-2, 160CF-2, 160CG-2, 160CH-2, 160CI-2, 160CJ-2, 160CK-2, 160CL-2, 160CM-2, 160CN-2, 160CO-2, 160CP-2, 160CQ-2, 160CR-2, 160CS-2, 160CT-2, 160CU-2, 160CV-2, 160CW-2, 160CX-2, 160CY-2, 160CZ-2, 160DA-2, 160DB-2, 160DC-2, 160DD-2, 160DE-2, 160DF-2, 160DG-2, 160DH-2, 160DI-2, 160DJ-2, 160DK-2, 160DL-2, 160DM-2, 160DN-2, 160DO-2, 160DP-2, 160DQ-2, 160DR-2, 160DS-2, 160DT-2, 160DU-2, 160DV-2, 160DW-2, 160DX-2, 160DY-2, 160DZ-2, 160EA-2, 160EB-2, 160EC-2, 160ED-2, 160EE-2, 160EF-2, 160EG-2, 160EH-2, 160EI-2, 160EJ-2, 160EK-2, 160EL-2, 160EM-2, 160EN-2, 160EO-2, 160EP-2, 160EQ-2, 160ER-2, 160ES-2, 160ET-2, 160EU-2, 160EV-2, 160EW-2, 160EX-2, 160EY-2, 160EZ-2, 160FA-2, 160FB-2, 160FC-2, 160FD-2, 160FE-2, 160FF-2, 160FG-2, 160FH-2, 160FI-2, 160FJ-2, 160FK-2, 160FL-2, 160FM-2, 160FN-2, 160FO-2, 160FP-2, 160FQ-2, 160FR-2, 160FS-2, 160FT-2, 160FU-2, 160FV-2, 160FW-2, 160FX-2, 160FY-2, 160FZ-2, 160GA-2, 160GB-2, 160GC-2, 160GD-2, 160GE-2, 160GF-2, 160GG-2, 160GH-2, 160GI-2, 160GJ-2, 160GK-2, 160GL-2, 160GM-2, 160GN-2, 160GO-2, 160GP-2, 160GQ-2, 160GR-2, 160GS-2, 160GT-2, 160GU-2, 160GV-2, 160GW-2, 160GX-2, 160GY-2, 160GZ-2, 160HA-2, 160HB-2, 160HC-2, 160HD-2, 160HE-2, 160HF-2, 160HG-2, 160HH-2, 160HI-2, 160HJ-2, 160HK-2, 160HL-2, 160HM-2, 160HN-2, 160HO-2, 160HP-2, 160HQ-2, 160HR-2, 160HS-2, 160HT-2, 160HU-2, 160HV-2, 160HW-2, 160HX-2, 160HY-2, 160HZ-2, 160IA-2, 160IB-2, 160IC-2, 160ID-2, 160IE-2, 160IF-2, 160IG-2, 160IH-2, 160II-2, 160IJ-2, 160IK-2, 160IL-2, 160IM-2, 160IN-2, 160IO-2, 160IP-2, 160IQ-2, 160IR-2, 160IS-2, 160IT-2, 160IU-2, 160IV-2, 160IW-2, 160IX-2, 160IY-2, 160IZ-2, 160JA-2, 160JB-2, 160JC-2, 160JD-2, 160JE-2, 160JF-2, 160JG-2, 160JH-2, 160JI-2, 160JJ-2, 160JK-2, 160JL-2, 160JM-2, 160JN-2, 160JO-2, 160JP-2, 160JQ-2, 160JR-2, 160JS-2, 160JT-2, 160JU-2, 160JV-2, 160JW-2, 160JX-2, 160JY-2, 160JZ-2, 160KA-2, 160KB-2, 160KC-2, 160KD-2, 160KE-2, 160KF-2, 160KG-2, 160KH-2, 160KI-2, 160KJ-2, 160KK-2, 160KL-2, 160KM-2, 160KN-2, 160KO-2, 160KP-2, 160KQ-2, 160KR-2, 160KS-2, 160KT-2, 160KU-2, 160KV-2, 160KW-2, 160KX-2, 160KY-2, 160KZ-2, 160LA-2, 160LB-2, 160LC-2, 160LD-2, 160LE-2, 160LF-2, 160LG-2, 160LH-2, 160LI-2, 160LJ-2, 160LK-2, 160LL-2, 160LM-2, 160LN-2, 160LO-2, 160LP-2, 160LQ-2, 160LR-2, 160LS-2, 160LT-2, 160LU-2, 160LV-2, 160LW-2, 160LX-2, 160LY-2, 160LZ-2, 160MA-2, 160MB-2, 160MC-2, 160MD-2, 160ME-2, 160MF-2, 160MG-2, 160MH-2, 160MI-2, 160MJ-2, 160MK-2, 160ML-2, 160MM-2, 160MN-2, 160MO-2, 160MP-2, 160MQ-2, 160MR-2, 160MS-2, 160MT-2, 160MU-2, 160MV-2, 160MW-2, 160MX-2, 160MY-2, 160MZ-2, 160NA-2, 160NB-2, 160NC-2, 160ND-2, 160NE-2, 160NF-2, 160NG-2, 160NH-2, 160NI-2, 160NJ-2, 160NK-2, 160NL-2, 160NM-2, 160NN-2, 160NO-2, 160NP-2, 160NQ-2, 160NR-2, 160NS-2, 160NT-2, 160NU-2, 160NV-2, 160NW-2, 160NX-2, 160NY-2, 160NZ-2, 160OA-2, 160OB-2, 160OC-2, 160OD-2, 160OE-2, 160OF-2, 160OG-2, 160OH-2, 160OI-2, 160OJ-2, 160OK-2, 160OL-2, 160OM-2, 160ON-2, 160OO-2, 160OP-2, 160OQ-2, 160OR-2, 160OS-2, 160OT-2, 160OU-2, 160OV-2, 160OW-2, 160OX-2, 160OY-2, 160OZ-2, 160PA-2, 160PB-2, 160PC-2, 160PD-2, 160PE-2, 160PF-2, 160PG-2, 160PH-2, 160PI-2, 160PJ-2, 160PK-2, 160PL-2, 160PM-2, 160PN-2, 160PO-2, 160PP-2, 160PQ-2, 160PR-2, 160PS-2, 160PT-2, 160PU-2, 160PV-2, 160PW-2, 160PX-2, 160PY-2, 160PZ-2, 160QA-2, 160QB-2, 160QC-2, 160QD-2, 160QE-2, 160QF-2, 160QG-2, 160QH-2, 160QI-2, 160QJ-2, 160QK-2, 160QL-2, 160QM-2, 160QN-2, 160QO-2, 160QP-2, 160QQ-2, 160QR-2, 160QS-2, 160QT-2, 160QU-2, 160QV-2, 160QW-2, 160QX-2, 160QY-2, 160QZ-2, 160RA-2, 160RB-2, 160RC-2, 160RD-2, 160RE-2, 160RF-2, 160RG-2, 160RH-2, 160RI-2, 160RJ-2, 160RK-2, 160RL-2, 160RM-2, 160RN-2, 160RO-2,



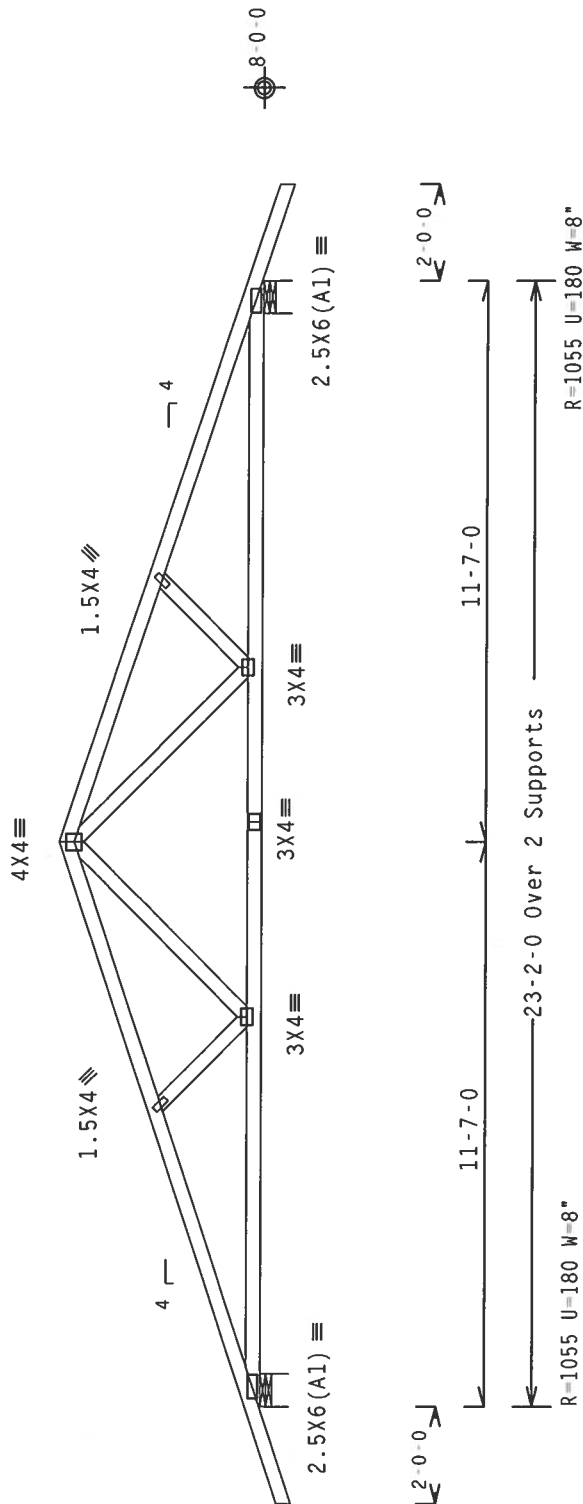
Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844
FL Certificate of Authorization # 567

FFL Certificate of Authorization # 567

1110 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.

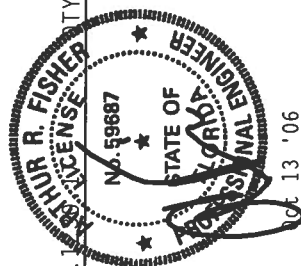
Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load.

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

Scale = .25"/Ft.

TC LL	20.0	PSF	REF R487-- 38902
TC DL	10.0	PSF	DATE 10/13/06
BC DL	10.0	PSF	DRW HCUSR487 06286032
BC LL	0.0	PSF	HC-ENG JB/AF *
TOT.LD.	40.0	PSF	SEQN- 1486
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1T1F487 Z02



WARNING THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS1 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI, 1801 N. 363RD, D'ONOFRIO DR., SUITE 200, MADISON, WI 53719, AND WCA WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE DR., 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.

IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERS & ARCHITECTS, 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 AIAA) AND TPI: ALPINE TRUSS COMPANY. THE TRUSS SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS: UNIFORM DEAD LOAD, UNIFORM LIVE LOAD, PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 80

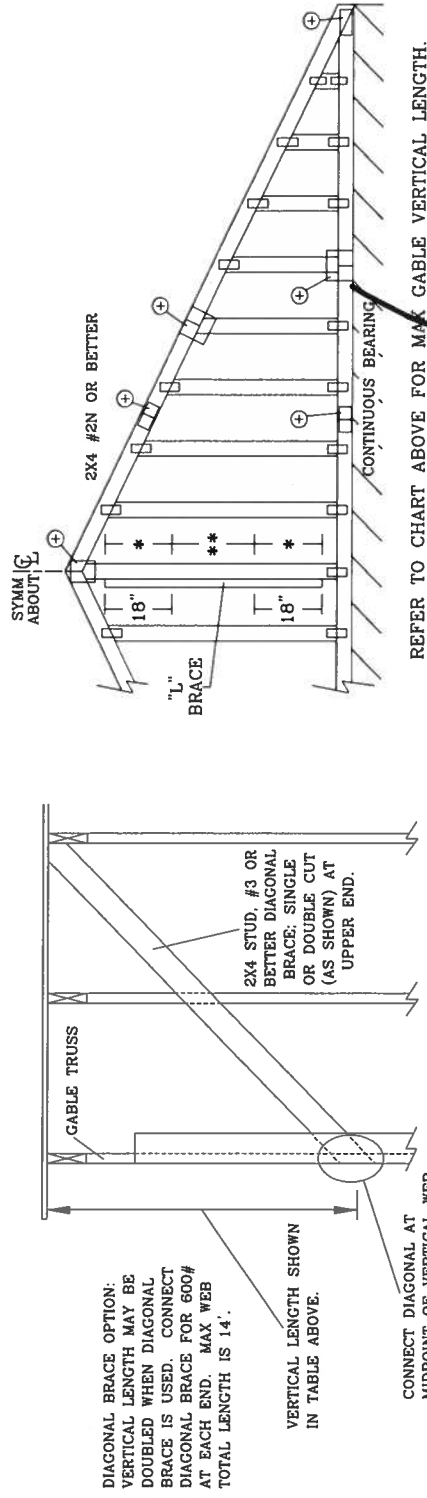


Alpine Engineered Products, Inc.
1950 Marley Drive
Haines City, FL 33844

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		BRACE		(1) 1X4 "L" BRACE *		(2) 2X4 "L" BRACE *		(1) 2X6 "L" BRACE **		(2) 2X6 "L" BRACE *		(1) 2X8 "L" BRACE **	
		GABLE VERTICAL SPACING	SPECIES	GRADE	NO BRACES	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
12" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 5"	12' 5"	12' 5"	12' 9"	12' 9"	14' 0"	14' 0"
	HF	STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	12' 3"	12' 3"	14' 0"	14' 0"
	STANDARD	STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	12' 3"	12' 3"	14' 0"	14' 0"
	SP	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	9' 5"	10' 2"	10' 2"	13' 5"	13' 5"	14' 0"	14' 0"
24" O.C.	DFL	#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	9' 5"	10' 2"	10' 2"	13' 5"	13' 5"	14' 0"	14' 0"
	STUD	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 5"	9' 11"	9' 11"	12' 8"	12' 8"	14' 0"	14' 0"
	STANDARD	STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 5"	9' 11"	9' 11"	12' 8"	12' 8"	14' 0"	14' 0"
	SPF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	10' 10"	11' 1"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	HF	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	STANDARD	STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	10' 10"	11' 8"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	10' 10"	11' 8"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	STUD	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	10' 10"	11' 4"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	STUD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	10' 10"	11' 1"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
	STANDARD	#1 / #2	4' 11"	8' 5"	8' 5"	10' 0"	10' 3"	11' 11"	11' 11"	12' 3"	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"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
24" O.C.	DFL	STANDARD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	STUD	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	11' 11"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	STANDARD	#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	11' 11"	12' 10"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	11' 11"	12' 6"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
MAX GABLE VERTICAL LENGTH	DFL	STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	11' 11"	12' 6"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
	STANDARD	STUD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	11' 11"	12' 3"	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	#2	STUD
#3	STANDARD	#3	STANDARD

DOUGLAS FIR-LARCH

#3	STUD
STANDARD	STANDARD

SOUTHERN PINE

#3	STUD
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).

CABLE 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.

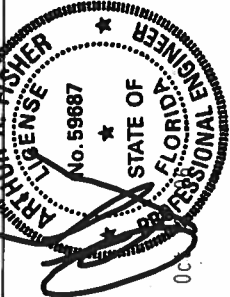
"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

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.

REF	ASCE7-02-GAB11015
DATE	04/15/05
DRWG	A11015EE0405
- ENG	
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0"	



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP L-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 593 D'ONOFRIO DR., SUITE 200, MADISON, VT 53719, AND VTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, VT 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. IT IS THE BUILDING 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. ALPINE CONNECTOR PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED 40/60 (W/H/H3) 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 (D) SHALL BE THE RESPONSIBILITY OF THE INSPECTOR. A SEAL FOR THE PROFESSIONAL ENGINEER DESIGN SHOWS THE 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

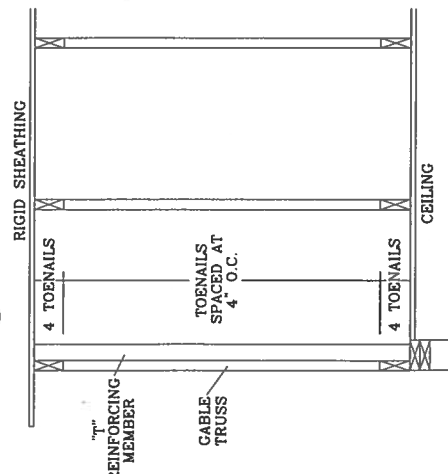
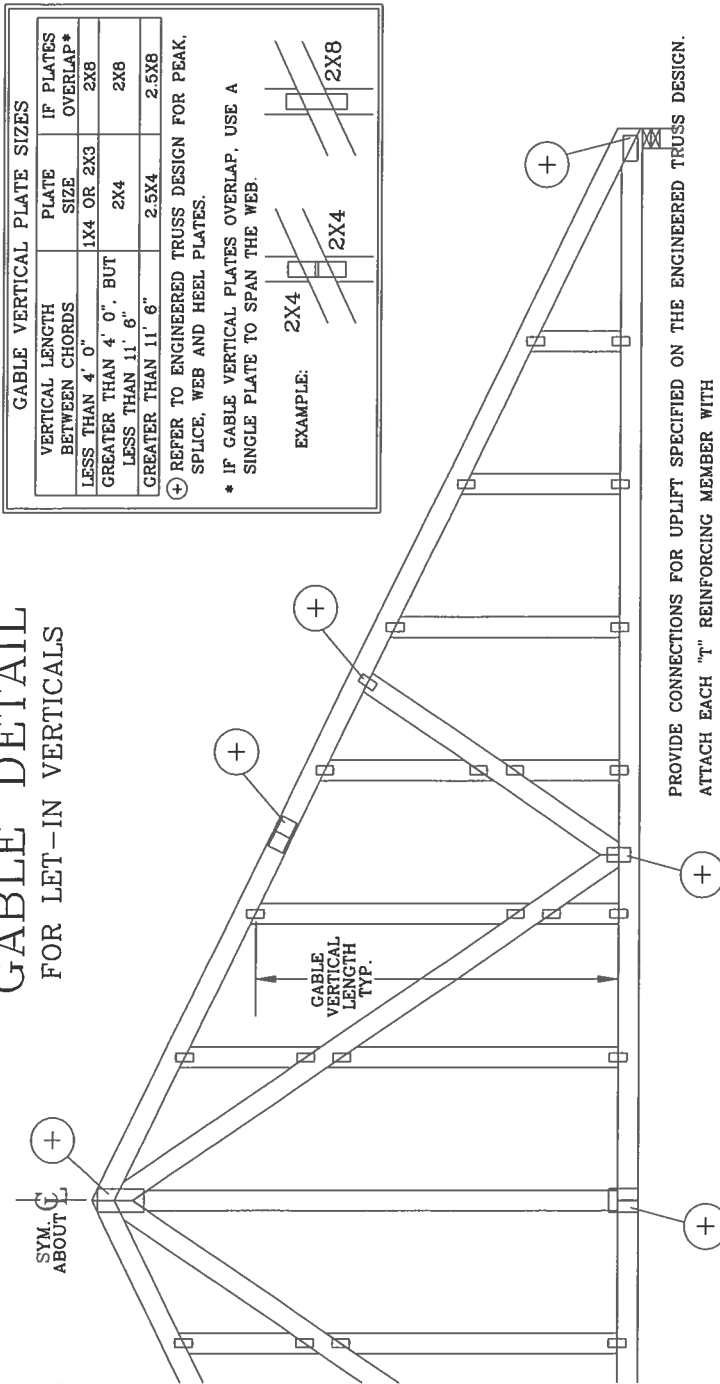
GABLE DETAIL FOR LET-IN VERTICALS

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: 2X4 2X8



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, A09015EN1103, A08015EN1103, A07015EN1103

A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 GABLE DETAIL DRAWINGS

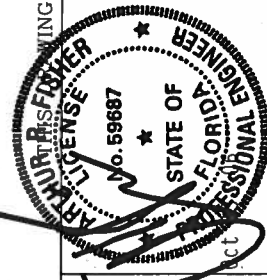
A13015EC1103, A12015EC1103, A11015EC1103, A08515EC1103

A13030EC1103, A12030EC1103, A11030EC1103, A08530EC1103

ASCE 7-02 GABLE DETAIL DRAWINGS

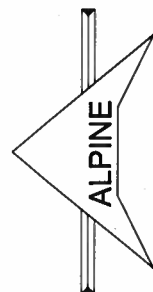
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SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

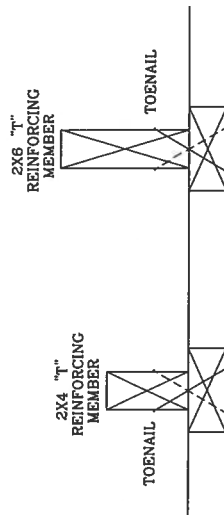


WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 983 DONDRIFF DR., SUITE 200, MADISON, VT. 55719) AND VITCA (WOOD TRUSS COUNCIL, 1000 E. 10TH AVE., SUITE 100, DENVER, CO 80202) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS ARE IN INCHES. ALL STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 2018/7664 (W/H/S/K) ASTM A653 GRADE 50 ZN. DESIGN GRANTING OF THESE DIMENSIONS IS BASED ON THE ASSUMPTION THAT THE TRUSS SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. SEAL IN THIS DRAWING INDICATES ACCEPTED BY TPI. THE 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.



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 %	10 %
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"

WIND 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"