

DATE 08/25/2009

Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000028034

APPLICANT GLENWOOD KING PHONE 386.397.4708
ADDRESS 139 SW DUNN WAY LAKE CITY FL 32024
OWNER TIMOTHY CASSIDY PHONE _____
ADDRESS 5979 SW SR 247 LAKE CITY FL 32024
CONTRACTOR GLENWOOD KING PHONE 386.397.4708
LOCATION OF PROPERTY 90-W TO SR. 247-S, TL TO 1/4 MILE PAST C-242, TL AND YOU'RE
@ ADDRESS SITE.
TYPE DEVELOPMENT DETACHED ACC. BLDG ESTIMATED COST OF CONSTRUCTION 70000.00
HEATED FLOOR AREA 700.00 TOTAL AREA 1400.00 HEIGHT 26.00 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC
LAND USE & ZONING A-3 MAX. HEIGHT 35
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 29-4S-16-03236-117 SUBDIVISION _____
LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES _____

CBC059726
Culvert Permit No. _____ Culvert Waiver _____ Contractor's License Number RTJ Applicant/Owner/Contractor N
EXISTING 09-0413 BLK RTJ N
Driveway Connection _____ Septic Tank Number _____ LU & Zoning checked by _____ Approved for Issuance _____ New Resident _____

COMMENTS: TO BE ON SAME POWER AS EXISTING DWELLING. 1 FOOT ABOVE ROAD.

Check # or Cash 8354

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ Foundation _____ Monolithic _____
date/app. by _____ date/app. by _____ date/app. by _____
Under slab rough-in plumbing _____ Slab _____ Sheathing/Nailing _____
date/app. by _____ date/app. by _____ date/app. by _____
Framing _____ Insulation _____
date/app. by _____ date/app. by _____
Rough-in plumbing above slab and below wood floor _____ Electrical rough-in _____
date/app. by _____ date/app. by _____
Heat & Air Duct _____ Peri. beam (Lintel) _____ Pool _____
date/app. by _____ date/app. by _____ date/app. by _____
Permanent power _____ C.O. Final _____ Culvert _____
date/app. by _____ date/app. by _____ date/app. by _____
Pump pole _____ Utility Pole _____ M/H tie downs, blocking, electricity and plumbing _____
date/app. by _____ date/app. by _____ date/app. by _____
Reconnection _____ RV _____ Re-roof _____
date/app. by _____ date/app. by _____ date/app. by _____

BUILDING PERMIT FEE \$ 350.00 CERTIFICATION FEE \$ 7.00 SURCHARGE FEE \$ 7.00
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ _____
FLOOD DEVELOPMENT FEE \$ _____ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ _____ TOTAL FEE 439.00
INSPECTORS OFFICE _____ CLERKS OFFICE _____

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

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

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

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

Columbia County Building Permit Application

For Office Use Only Application # 0908-29 Date Received 8/20 By JW Permit # 28034
 Zoning Official BLK Date 25.08.09 Flood Zone X Land Use A-3 Zoning A-3
 FEMA Map # N/A Elevation N/A MFE 1st above R/L River N/A Plans Examiner RP Date 8/25/09
 Comments to be on same power as existing dwelling
☐ NOC ☒ EH ☒ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # _____
☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
 IMPACT FEES: EMS _____ Fire _____ Corr _____ Road/Code _____
 School _____ = TOTAL N/A ACCESSORY USE ☒ EXISTING WELL

Septic Permit No. 09-0413-

Fax (386) 755-0680

Name Authorized Person Signing Permit Glenwood King Phone (386) 397-4708

Address 139 SW Dunn Way Lake City FL 32024

Owners Name Timothy P. Cassidy Jr Phone _____

911 Address 5979 SW SR 247 Lake City FL 32024

Contractors Name Glenwood King Phone (386) 397-4708

Address 139 SW Dunn Way Lake City FL 32024

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address MARK DISOSWAY PO Box 868 Lake City FL 32056

Mortgage Lenders Name & Address CASH

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

Property ID Number 29-45-16-03236-117 Estimated Cost of Construction \$60,000.00

Subdivision Name Kellicie Estate Lot 17 Block _____ Unit _____ Phase _____

Driving Directions US 90 west to turn left @ Hwy 247 go about 1/4 of mile past Hwy 242 Turn Left @ 5979 SW SR 247.

Number of Existing Dwellings on Property 1

Construction of 200 SF Detached Building Total Acreage _____ Lot Size 600' x 156'

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 26'

Actual Distance of Structure from Property Lines - Front 392' Side 27' Side 86' Rear 48'

Number of Stories 2 Heated Floor Area 700 SF Total Floor Area 1400 SF Roof Pitch 6/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

CASH 8354
 [Signature]

Columbia County Building Permit Application

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

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

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

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

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

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

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

(Owners Must Sign All Applications Before Permit Issuance.)

Owners Signature

****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

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

Contractor's Signature (Permitee)

Contractor's License Number CBC 059726
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 20th day of Aug 2009

Personally known ☒ or Produced Identification ☐

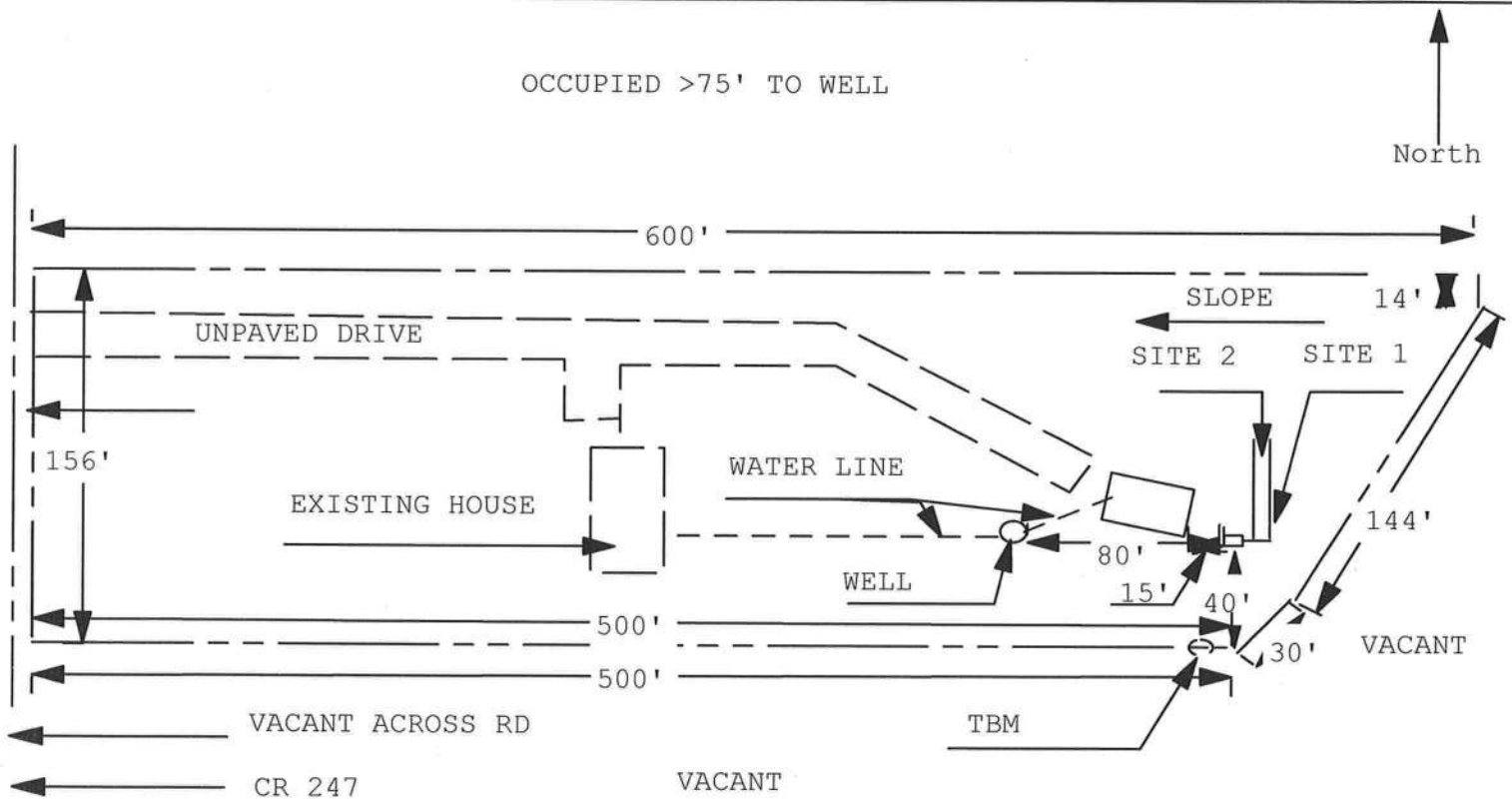
State of Florida Notary Signature (For the Contractor)

SEAL:



Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan
Permit Application Number: 09-0413

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



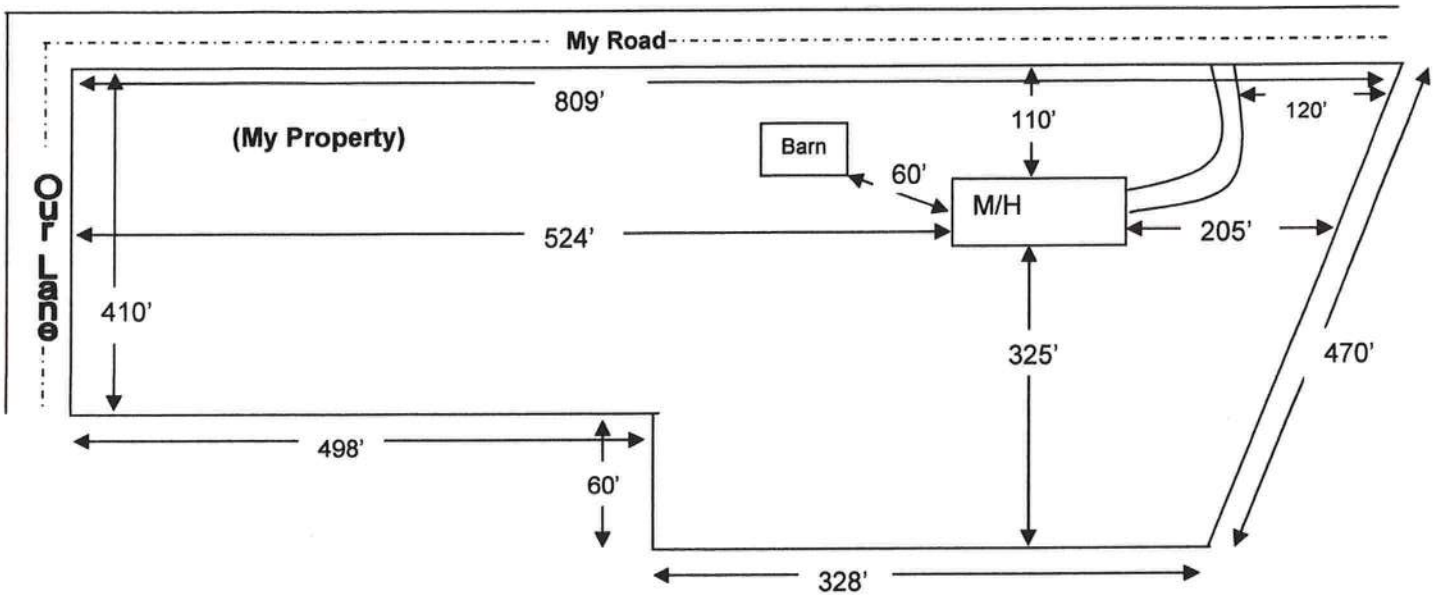
CR# 09-4674 CASSIDY

1 inch = 80 feet

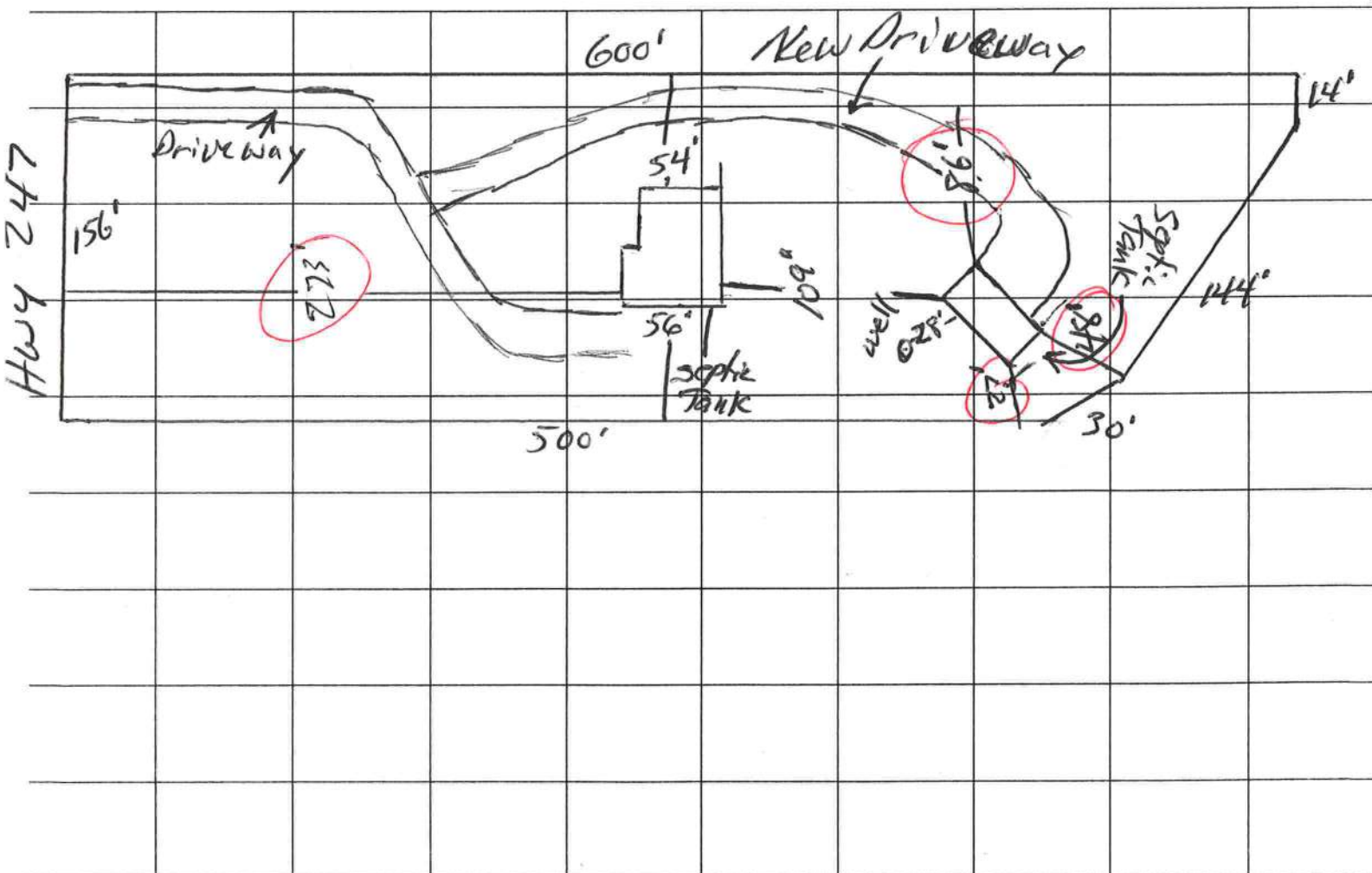
Site Plan Submitted By Paul Riley Date 7/29/09
Plan Approved X Not Approved Date 8.13.09
By Salhi Ford, EM Director, Columbia CPHU

Notes: _____

SITE PLAN EXAMPLE / WORKSHEET



Use this example to draw your own site plan. Show all existing buildings and any other homes on this property and show the distances between them. Also show where the roads or roads are around the property. This site plan can also be used for the 911 Addressing department if you include the distance from the driveway to the nearest property line.





Columbia County Property Appraiser - Interactive Record Search & GIS Mapping System -

[New Search](#)
[Search Results](#)
[Parcel Details](#)
[GIS Map](#)
[Home](#)
[Property Search](#)
[GIS Map](#)
[Sales Report](#)
[HB 909](#)
[Amendment 1 Informa](#)
[Tax Estimator](#)
[Homestead Fraud](#)
[Agriculture Classificat](#)
[Amendment 10](#)
[Exemptions](#)
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Columbia County Property Appraiser

DB Last Updated: 7/22/2009

2009 Preliminary Values

[Tax Record](#)
[Property Card](#)
[Interactive GIS Map](#)
[Print](#)

Parcel: 29-4S-16-03236-117 HX

Search Result: 1 of 1

Owner & Property Info

Owner's Name	CASSIDY TIMOTHY P SR &		
Site Address	STATE ROAD 247		
Mailing Address	SHERRI W CASSIDY 5979 SW SR 247 LAKE CITY, FL 32024		
Use Desc. (code)	SINGLE FAM (000100)		
Neighborhood	029416.01	Tax District	3
UD Codes	MKTA01	Market Area	01
Total Land Area	0.000 ACRES		
Description	LOT 17 KELLICHE ESTATES S/D. ORB 758-1245, 774-891, 860-234, 865-1443, 921-1288, CORR WD 1103-1199, SWD 1103- 1200.		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (1)	\$27,000.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (1)	\$51,099.00
XFOB Value	cnt: (1)	\$900.00
Total Appraised Value		\$78,999.00

Just Value	\$78,999.00
Class Value	\$0.00
Assessed Value	\$78,999.00
Exemptions	(code: HX) \$50,000.00
Total Taxable Value	County: \$28,999.00 City: \$28,999.00 Other: \$28,999.00 School: \$53,999.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
11/28/2006	1103/1200	WD	I	U	01	\$100.00
12/25/2000	921/1288	QC	I	U	01	\$69,000.00
9/9/1998	865/1443	WD	V	Q		\$12,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1999	Common BRK (19)	1564	2400	\$51,099.00

Note: All S F calculations are based on exterior building dimensions

SUBCONTRACTOR VERIFICATION FORM

 APPLICATION NUMBER 0908-29 CONTRACTOR Glenwood King PHONE (386) 397-4701

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

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

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

ELECTRICAL	Print Name <u>STEVE THOMAS</u> License #: <u>EC0001121</u>	Signature <u>[Signature]</u> Phone #: <u>386-752-5125</u>
MECHANICAL/ A/C	Print Name <u>Chris A Williams</u> License #: <u>CAC057795</u>	Signature <u>[Signature]</u> Phone #: <u>386-782-5849</u>
PLUMBING/ GAS	Print Name <u>FRED APPEL</u> License #: <u>CFC1426088</u>	Signature <u>[Signature]</u> Phone #: <u>386-208-5193</u>
ROOFING	Print Name <u>MICHAEL W. PARNELL</u> License #: <u>CCC1325866</u>	Signature <u>[Signature]</u> Phone #: <u>755-7878</u>
SHEET METAL	Print Name _____ License #: _____	Signature _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER	Print Name _____ License #: _____	Signature _____ Phone #: _____
SOLAR	Print Name _____ License #: _____	Signature _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER	<u>5861</u>	<u>Butch C. Vaughn</u>	<u>[Signature]</u>
FRAMING	<u>CBC05972</u>	<u>Glenwood King</u>	<u>[Signature]</u>
INSULATION			
STUCCO			
DRYWALL	<u>000109</u>	<u>VERNON PHILMAN</u>	<u>[Signature]</u>
PLASTER			
CABINET INSTALLER			
PAINTING	<u>CBC05972</u>	<u>Glenwood King</u>	<u>[Signature]</u>
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING <u>BA7</u>			
ALUM/VINYL SIDING	<u>CC000166</u>	<u>Nike's Aluminum of L.C.</u>	<u>[Signature]</u>
GARAGE DOOR			
METAL BLDG ERECTOR			

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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: 907141GlenwoodKing
 Street:
 City, State, Zip: Lake City, FL,
 Owner:
 Design Location: FL, Gainesville

Builder Name: Glenwood King Construction
 Permit Office: *Colima*
 Permit Number: *28034*
 Jurisdiction: *221000*

1. New construction or existing	New (From Plans)	
2. Single family or multiple family	Single-family	
3. Number of units, if multiple family	1	
4. Number of Bedrooms	1	
5. Is this a worst case?	Yes	
6. Conditioned floor area (ft ²)	700	
7. Windows	Description	Area
a. U-Factor:	Dbl, default	45.00 ft ²
SHGC:	Clear, default	
b. U-Factor:	N/A	ft ²
SHGC:		
c. U-Factor:	N/A	ft ²
SHGC:		
d. U-Factor:	N/A	ft ²
SHGC:		
e. U-Factor:	N/A	ft ²
SHGC:		
8. Floor Types	Insulation	Area
a. Raised Floor	R=19.0	700.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	990.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²
d. N/A	R=	ft ²
10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	700.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²
11. Ducts		
a. Sup: Attic Ret: Interior AH: Interior Sup. R= 6, 110 ft ²		
12. Cooling systems		
a. Central Unit	Cap: 18.0 kBtu/hr	
	SEER: 13	
13. Heating systems		
a. Electric Heat Pump	Cap: 18.0 kBtu/hr	
	HSPF: 7.7	
14. Hot water systems		
a. Electric	Cap: 40 gallons	
	EF: 0.93	
b. Conservation features		
None		
15. Credits		None

Glass/Floor Area: 0.064

Total As-Built Modified Loads: 21.67

Total Baseline Loads: 26.05

PASS

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

PREPARED BY:

DATE: *8/12/09 EVAN BERANSCER*

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:

PROJECT

Title:	907141GlenwoodKing	Bedrooms:	1	Adress Type:	Lot Information
Building Type:	FLAsBuilt	Bathrooms:	0	Lot #	
Owner:		Conditioned Area:	700	SubDivision:	
# of Units:	1	Total Stories:	1	PlatBook:	
Builder Name:	Glenwood King Construction	Worst Case:	Yes	Street:	
Permit Office:		Rotate Angle:	135	County:	Columbia
Jurisdiction:		Cross Ventilation:	No	City, State, Zip:	Lake City , FL ,
Family Type:	Single-family	Whole House Fan:	No		
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

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

FLOORS

✓	#	Floor Type	R-Value	Area		Tile	Wood	Carpet
_____	1	Raised Floor		700 ft²	19	0.7	0	0.3

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	783 ft²	0 ft²	Dark	0.96	No	0	26.6 deg

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	303	700 ft²	N	N

CEILING

✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	700 ft²	0.11	Wood

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	N	Exterior	Frame - Wood	13	315 ft²	0	0.23	0.75
_____	2	S	Exterior	Frame - Wood	13	315 ft²	0	0.23	0.75
_____	3	E	Exterior	Frame - Wood	13	180 ft²	0	0.23	0.75
_____	4	W	Exterior	Frame - Wood	13	180 ft²	0	0.23	0.75

DOORS

✓	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	E	Wood	None	0.46	20 ft²
_____	2	W	Wood	None	0.4	10 ft²

WINDOWS

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

✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang		Int Shade	Screening
										Depth	Separation		
_____	1	N	Metal	Double (Clear)	No	0.87	0.66	N	6 ft²	0 ft 18 in	0 ft 20 in	HERS 2006	None
_____	2	N	Metal	Double (Clear)	No	0.87	0.66	N	9 ft²	0 ft 18 in	0 ft 20 in	HERS 2006	None
_____	3	E	Metal	Double (Clear)	No	0.87	0.66	N	20 ft²	0 ft 0 in	0 ft 0 in	HERS 2006	None
_____	4	W	Metal	Double (Clear)	No	0.87	0.66	N	10 ft²	0 ft 18 in	0 ft 20 in	HERS 2006	None

INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ----		Run Time	Fan
							Supply CFM	Exhaust CFM	Fraction	Watts
_____	Default	0.00036	661	6.30	36.3	68.2	0 cfm	0 cfm	0	0

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
_____	1	Central Unit	None	SEER: 13	18 kBtu/hr	cfm	0.75	

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ductless
_____	1	Electric Heat Pump	None	HSPF: 7.7	18 kBtu/hr	

HOT WATER SYSTEM

✓	#	System Type	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	0.93	40 gal	40 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

✓	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
		Location	R-Value	Area	Location	Area						
_____	1	Attic	6	110 ft²	Interior	1 ft²	Default Leakage	Interior				

TEMPERATURES

Programable Thermostat: N

Ceiling Fans:

Cooling	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec
Heating	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec
Venting	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec

Thermostat Schedule: HERS 2006 Reference

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

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS:

Lake City, FL,

PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 83

The lower the EnergyPerformance Index, the more efficient the home.

, Lake City, FL,

1. New construction or existing	New (From Plans)		9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family		a. Frame - Wood, Exterior	R=13.0	990.00 ft ²
3. Number of units, if multiple family	1		b. N/A	R=	ft ²
4. Number of Bedrooms	1		c. N/A	R=	ft ²
5. Is this a worst case?	Yes		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	700		10. Ceiling Types	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	700.00 ft ²
a. U-Factor:	Dbl, default	45.00 ft ²	b. N/A	R=	ft ²
SHGC:	Clear, default		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	11. Ducts		
SHGC:			a. Sup: Attic Ret: Interior AH: Interior Sup. R= 6, 110 ft ²		
c. U-Factor:	N/A	ft ²	12. Cooling systems		
SHGC:			a. Central Unit	Cap: 18.0 kBtu/hr	
d. U-Factor:	N/A	ft ²		SEER: 13	
SHGC:			13. Heating systems		
e. U-Factor:	N/A	ft ²	a. Electric Heat Pump	Cap: 18.0 kBtu/hr	
SHGC:				HSPF: 7.7	
8. Floor Types	Insulation	Area	14. Hot water systems		
a. Raised Floor	R=19.0	700.00 ft ²	a. Electric	Cap: 40 gallons	
b. N/A	R=	ft ²		EF: 0.93	
c. N/A	R=	ft ²	b. Conservation features		
			None		
			15. Credits		None

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 Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for 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 energygauge.com 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.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844

Florida Engineering Certificate of Authorization Number: 0 278

Florida Certificate of Product Approval # FL1999

Page 1 of 1 Document ID: ITTM8228Z0327084230

Truss Fabricator: Anderson Truss Company

Job Identification: 9-164--Glenwood King -- , **

Truss Count: 9

Model Code: Florida Building Code 2007 and 2009 Supplement

Truss Criteria: FBC2007Res/TPI-2002(STD)

Engineering Software: Alpine Software, Version 9.02.

Structural Engineer of Record: The identity of the structural EOR did not exist as of

Address: the seal date per section 61G15-31.003(5a) of the FAC

Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration

Floor - N/A

Wind - 110 MPH ASCE 7-05 -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: HCUSR8228

Details: A1103005-GBLLETIN-

Seal Date: 07/27/2009

-Truss Design Engineer-

Walter P. Finn

Florida License Number: 22839

1950 Marley Drive

Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	52175--H7A		09205051	07/24/09
2	52176--H9A		09205052	07/24/09
3	52177--A1		09205053	07/24/09
4	52178--A-GE		09205054	07/24/09
5	52179--J1		09205055	07/24/09
6	52180--HJ7		09205056	07/24/09
7	52181--J3		09205057	07/24/09
8	52182--J5		09205058	07/24/09
9	52183--EJ7		09205059	07/24/09

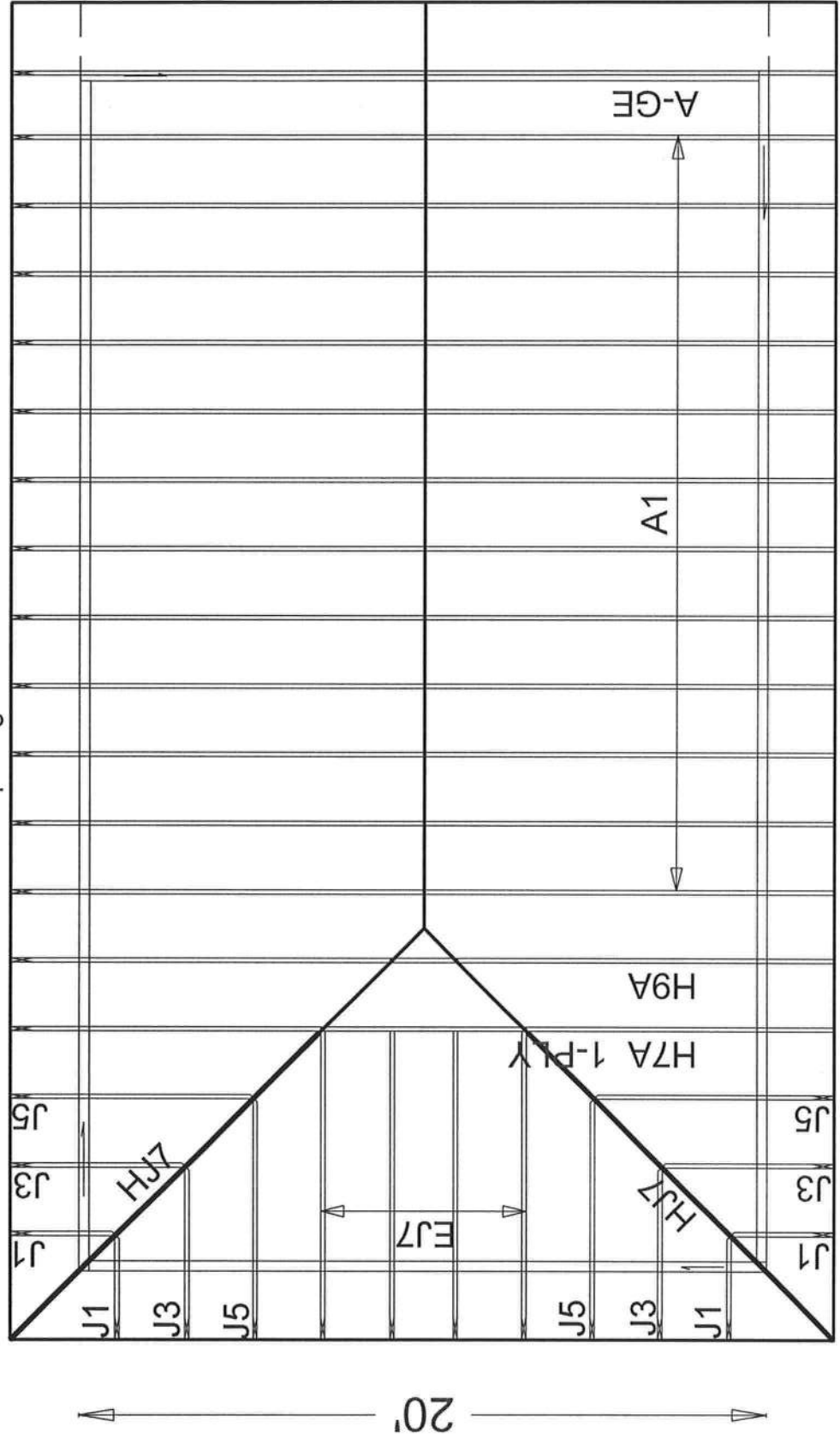


#9-164

GLENWOOD KING

7' →

Roof Plane Sheathing Area = 1046 sq. ft
Gable Sheathing Area = 57 sq. ft
Total Sheathing Area = 1103 sq. ft
Fascia Material = 129 linear ft
Ridge Cap Material = 27 linear ft
Hip Ridge Material = 36 linear ft



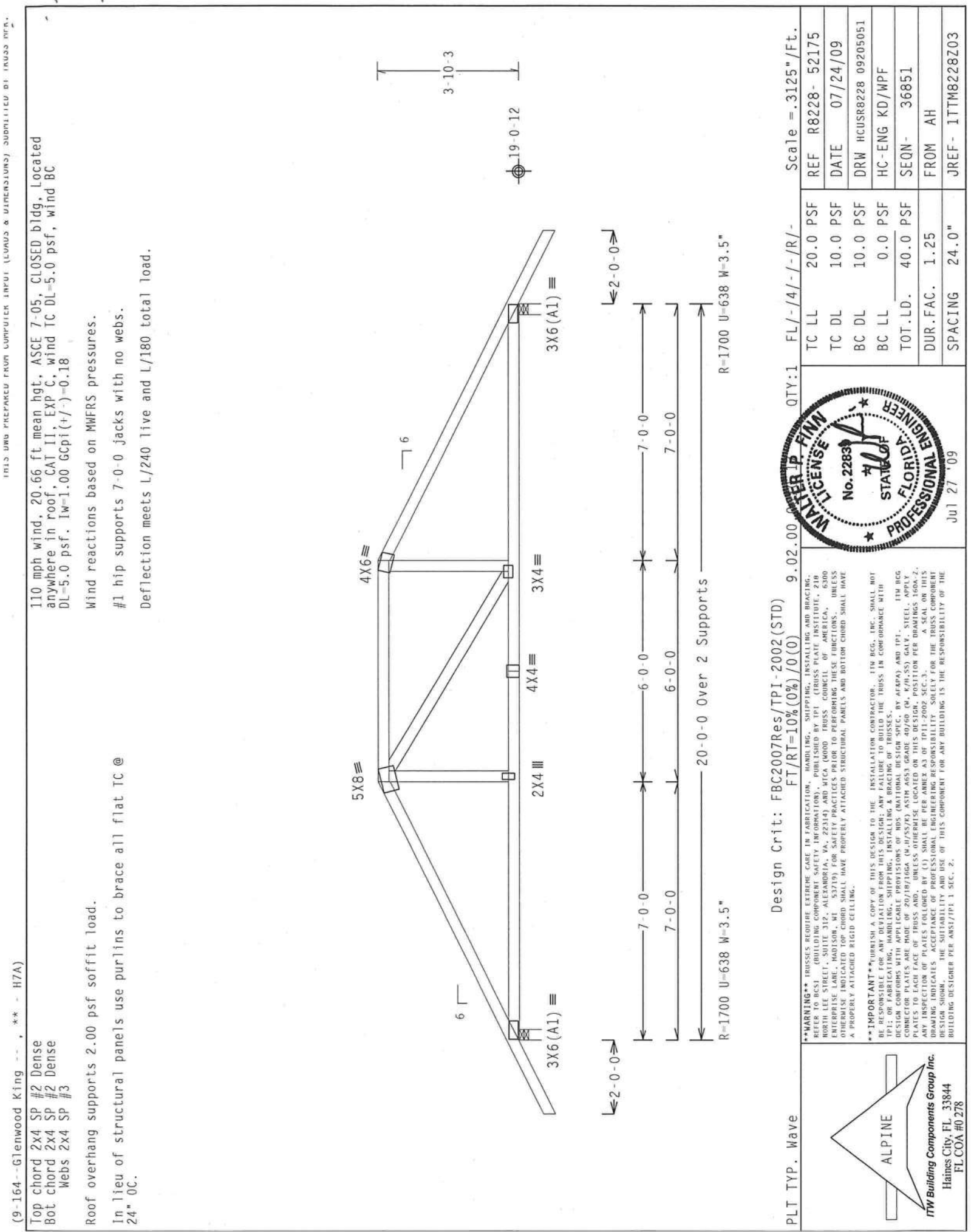
20' →

→ 35' →

JOB DESCRIPTION: Glenwood King

JOB NO:
9-164

PAGE NO:
1 OF 1



(9-164--Glenwood King --, ** - H7A)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

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

110 mph wind, 20.66 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

#1 hip supports 7'-0-0 jacks with no webs.

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

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave	QTY:1	FL/-/4/-/4/-/R/-	Scale = 3/16" = 1'-0"
REF	R8228-	52175	
DATE	07/24/09		
DRW	HCUSR8228	09205051	
HC-ENG	KD/WPF		
SEON-	36851		
FROM	AH		
JREF-	1TTM8228Z03		



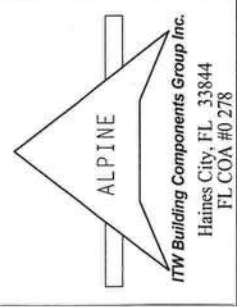
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS SHALL BE INSTALLED AND BRACED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS. THE TRUSS SHALL BE INSTALLED AND BRACED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS. THE TRUSS SHALL BE INSTALLED AND BRACED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, ETC. 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. THE BCG, ETC. 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 AIA/P&S) AND TPI. THE BCG, ETC. 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.

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-2. A SEAL ON THIS DRAWING INDICATES THE SIGNATURE OF THE DESIGNER. THE SEAL OF THE DESIGNER SHALL BE PLACED ON THE DRAWING. THE SEAL OF THE DESIGNER SHALL BE PLACED ON THE DRAWING.

BUILDING DESIGNED PER ANSI/TPI 1 SEC. 2.



(9-164--Glenwood King --, ** - A1)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

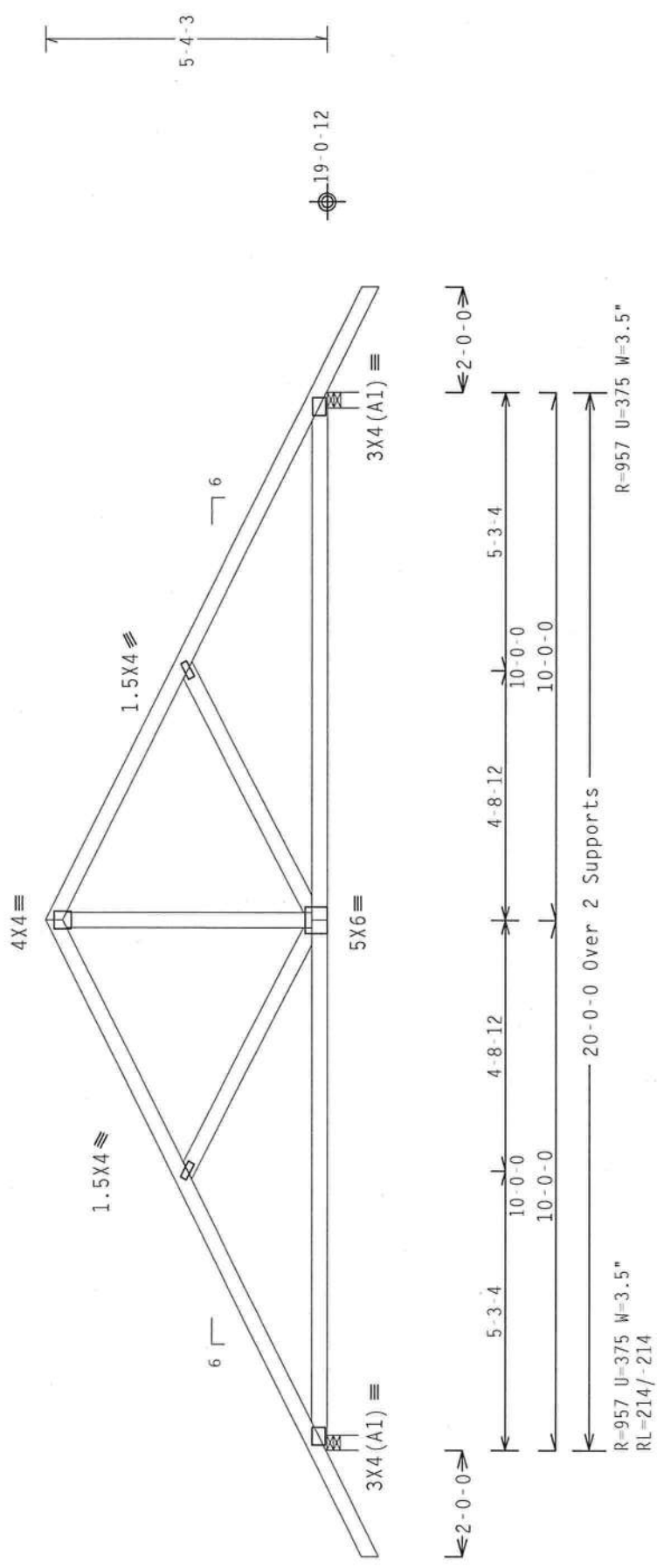
110 mph wind, 21.41 ft mean hgt, ASCE 7-05, CLOSED bldg, located
anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC
DL=5.0 psf. LW=1.00 GCpi(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



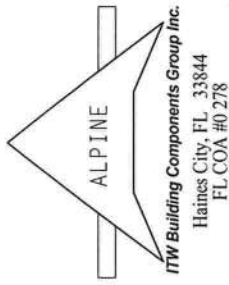
Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%) / 0(0)

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RESISTING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2100 ALPINE STREET, SUITE 312, ALPINE, TEXAS 76821) AND TPI (TRUSS PLATE INSTITUTE, 6200 ENTERPRISE WAY, HANES CITY, FL 33844) FOR SAFETY PRACTICES TO PREVENT INJURY OR DEATH. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI REG. 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 AIA/AS) AND TPI. TPI REG. INC. CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/K) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



PLT TYP. Wave

(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

```

:Stack Chord SC1 2x4 SP #2 Dense::Stack Chord SC2 2x4 SP #2 Dense:

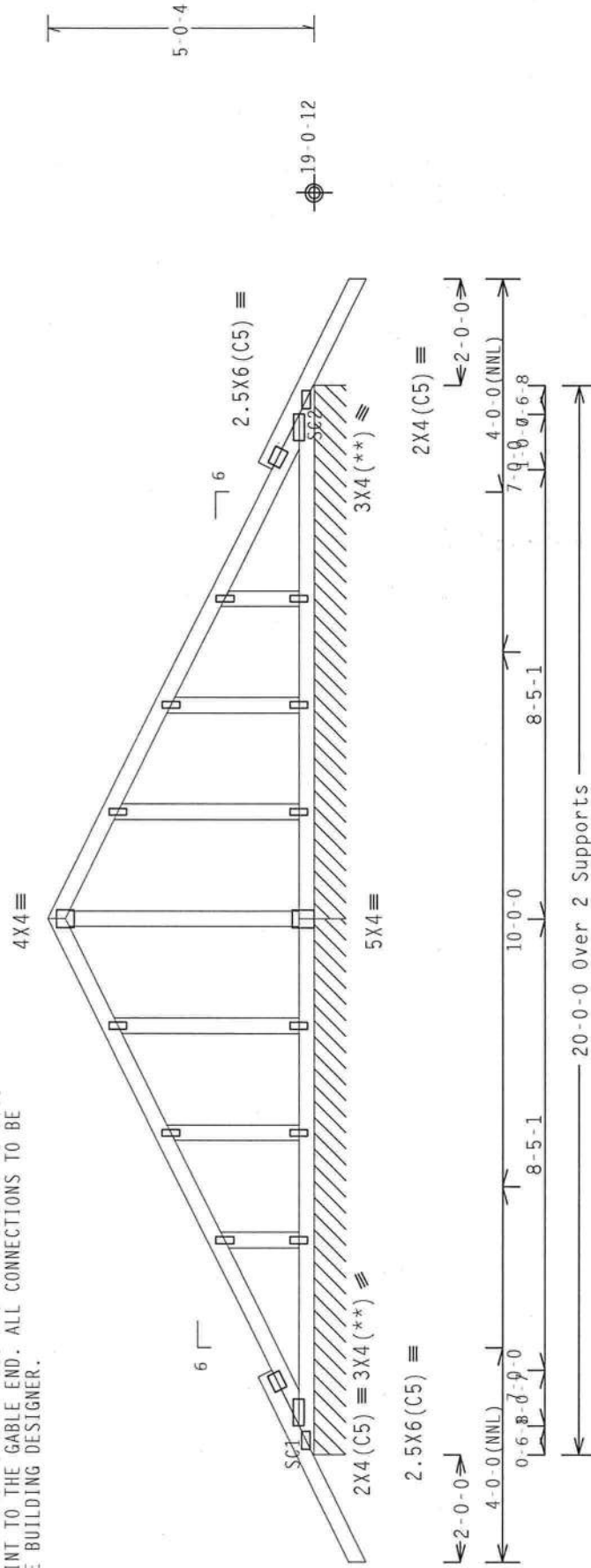
```

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 2.0-0 top chord
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord
must not be cut or notched.

Stacked top chord must NOT be notched or cut in area (NWL). 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.

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



R=206 PLF U=70 PLF W=10-0-0

RL=43/-43 PLF

-20-0-0 Over 2 Supports

R-169 PLF U=81 PLF W=10-0-0

Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: FBC2007Res/TPI -2002(STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/-

Scale = .3125"/Ft.



ITW Building Components Group
Haines City, FL 33844
FL COA #0 278



Jul 27 09

TC LL	20.0	PSF	REF	R8228- 52178
TC DL	10.0	PSF	DATE	07/24/09
BC DL	10.0	PSF	DRW	HCUSR8228 09205054
BC LL	0.0	PSF	HC-ENG	KD/MPF
TOT.LD.	40.0	PSF	SEQN-	36867
DUR.FAC.	1.25		FROM	AH
SPACING	24.0"		JREF-	1TTM8228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

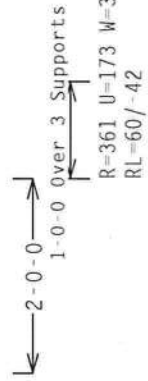
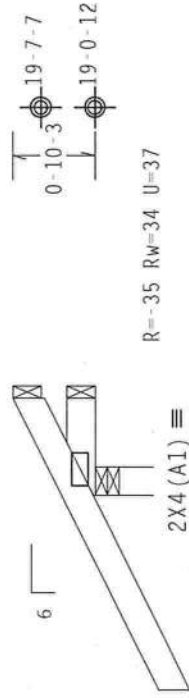
Bottom chord checked for 10.00 psf non-concurrent live load.

110 mph wind, 19.16 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi (+/-)=0.18

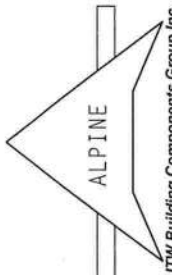
Wind reactions based on MWFRS pressures.

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

R=-110 Rw=80 U=104



Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10% (0%) / 0 (0)

PLT TYP. Wave	 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	QTY: 4	FL / - / 4 / - / - / R / -	Scale = .5" / Ft.	REF	R8228- 52179
					DATE	07/24/09
					DRW	HCUSR8228 09205055
					HC-ENG	KD/WPF
					SEON-	36833
					FROM	AH
					SPACING	24.0"
					DUR. FAC.	1.25



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RESIDENTIAL BUILDING CODES, ASCE 7-05, AND TPI-2002 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

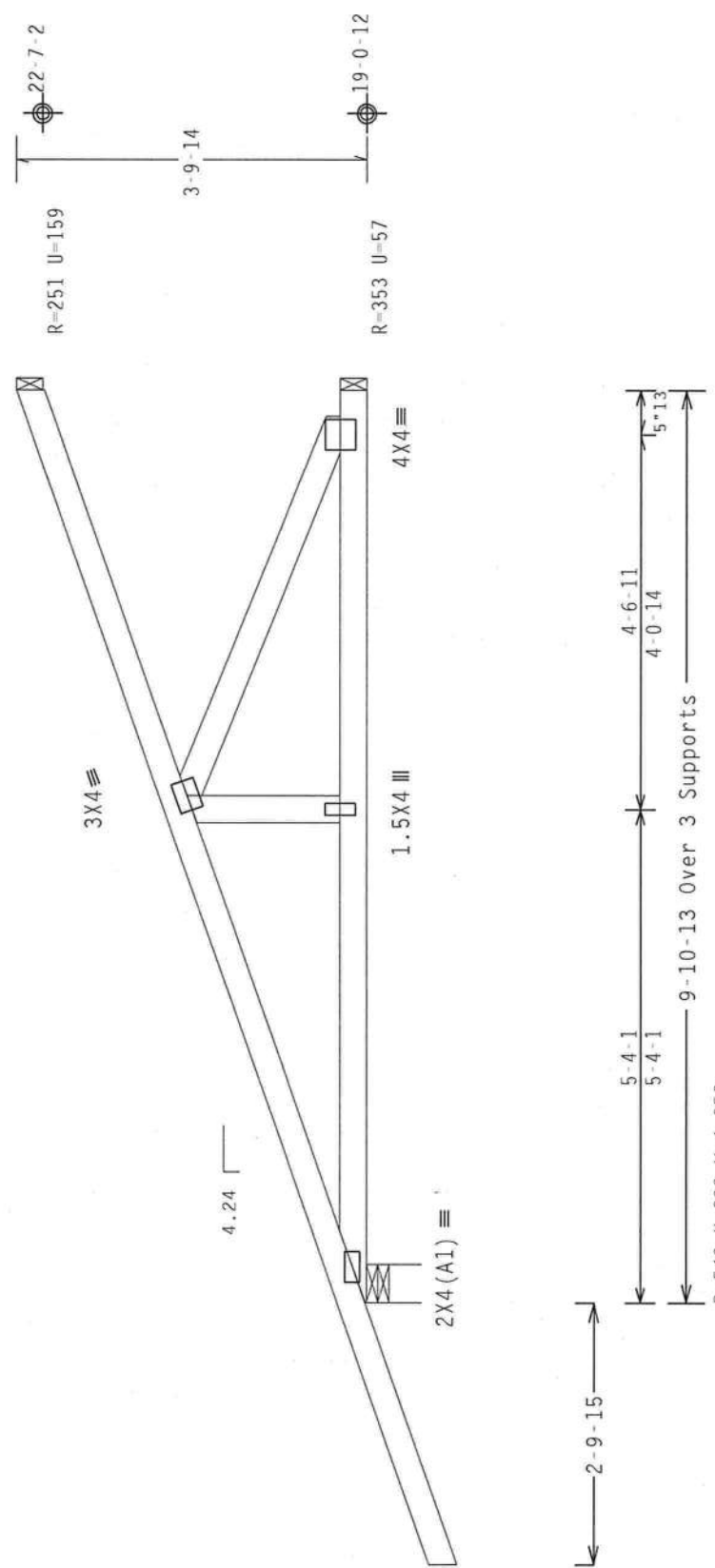
(9-164--Glenwood King --, ** - HJ7)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 20.64 ft mean hgt, ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi (+/-)=0.18

Hipjack supports 7-0-0 setback jacks with no webs.
Deflection meets L/240 live and L/180 total load.

Wind reactions based on MWFRS pressures.



Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=10%(0%)/0(0)

PLT TYP. Wave	QTY: 2		FL/-/4/-/-/R/-		Scale = .5"/Ft.	
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	TC DL	10.0 PSF	DATE	07/24/09		
	BC DL	10.0 PSF	DRW	HCUSR8228 09205056		
	BC LL	0.0 PSF	HC-ENG	KD/WPF		
	TOT.LD.	40.0 PSF	SEQN-	36843		
	DUR.FAC.	1.25	FROM	AH		
	SPACING	24.0"	JREF-	1TTM8228Z03		

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NETA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BEG, 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. ITM BEG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF BOB (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. ITM BEG CONNECTOR PLATES ARE MADE OF 2018/18/18GA (44/55/57) ASH 6053 GRADE 40/60 (44, 47/55/57) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (3) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

WALTER P. FINN
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 22968
Jul 27, 09

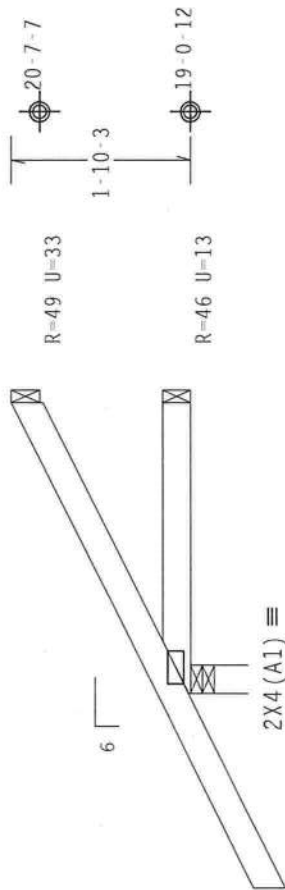
ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

1110 mph wind, 19.66 ft mean hgt., ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

QTY: 4 FL / - / 4 / - / - / R / - Scale = .5" / Ft.

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TC DL	10.0	PSF	DATE 07/24/09
BC DL	10.0	PSF	DRW HCUR8228 09205057
BC LL	0.0	PSF	HC-ENG KD/WPF *
TOT.LD.	40.0	PSF	SEQN- 36836
DUR.FAC.	1.25		FROM AH
SPACING	24.0"		JREF- 1TTM8228Z03

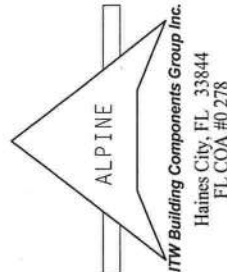


Jul 27 '09

*****WARNING***** THUSSES REQUIRE EXTREME CARE IN FABRICATION, AND THE SHIPPING, INSTALLING AND BEACING OF THESE THUSSES MUST BE DONE CAREFULLY. THE FOLLOWING INFORMATION IS FOR THE USER'S INFORMATION ONLY. NORTH LEBANESE, SUITE 312, ALEXANDRIA, VA 22210, AND VICA HOOD TRUSS, COUNCIL OF AMERICANS, 6300 ENTERPRISE LANE, WILMINGTON, MA 02719, 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 CHORDS.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS, OR FOR ANY DEFECTS IN FABRICATING, INSTALLING, SHIPPING, OR BRACING OF TRUSSES.

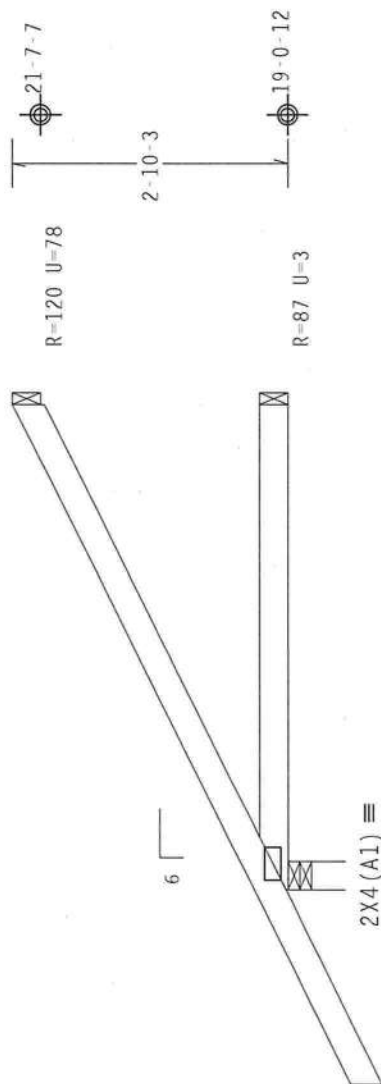
DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
TYPE OR COMBINATIONS WITH APPLICABLE PROVISIONS OF AISC NATIONAL DESIGN SPEC., BY AIA/PD AND TPI.
CONNECTOR PLATES ARE MADE OF 70/18/16GA (W/S57K) ALSTE A653 GRADE 40/60 (A / K/H-S5) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DRAWING, POSITION PER DIMENSIONS 160A-2
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA X OF TPI-2902 SEC.3-3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
BEING SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER AREA X OF TPI-2902 SEC. 2.



1110 mph wind, 20.16 ft mean hgt., ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, 1w=1.00 GCpi(+/-)-0.18

Wind reactions based on MWFRS pressures.

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



$\longleftrightarrow 2-0-0 \longrightarrow$
 $\longleftrightarrow 5-0-0 \text{ Over } 3 \text{ Supports} \longrightarrow$
 R=377 U=124 W=3.5"
 RL=146/-54

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=10%(0%)/0(0)

Scale = .5"/Ft.

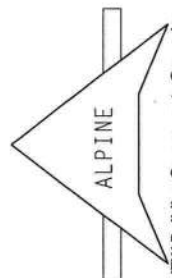
TC LL	20.0 PSF	REF	R8228 - 52182
TC DL	10.0 PSF	DATE	07/24/09
BC DL	10.0 PSF	DRW	HCUSR8228 09205058
BC LL	0.0 PSF	HC - ENG	KD/WPF
TOT.LD.	40.0 PSF	SEQN -	36839
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TTM8228Z03



Jul 27 '09

*****WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALWAYS USE PROPER LIFTING AND RIGGING TECHNIQUES. NORTH LESTER LANE, MOBILE, AL 36688. TRUSSES COURTESY OF AMERICAN TRUSS MANUFACTURING CO., 53719, FOR SPECIFIC INFORMATION, 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. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS, OR ANY FAILURE TO FOLLOW THE INSTRUCTIONS FOR ERECTION, INSTALLATION, OR MAINTENANCE, SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY FAILURE TO FOLLOW THE INSTRUCTIONS FOR ERECTION, INSTALLATION, OR MAINTENANCE, SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

[illegible]

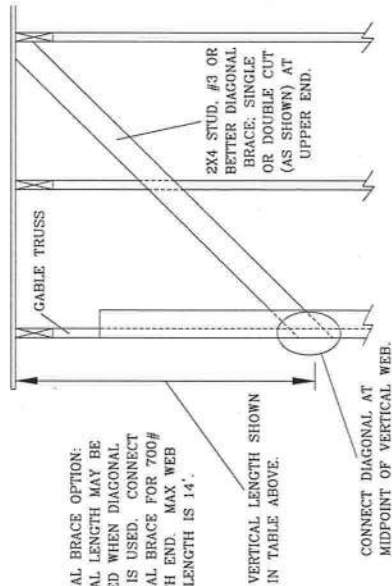
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

PLT TYP. Wave

ASCE 7-05: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

GABLE STUD REINFORCEMENT DETAIL

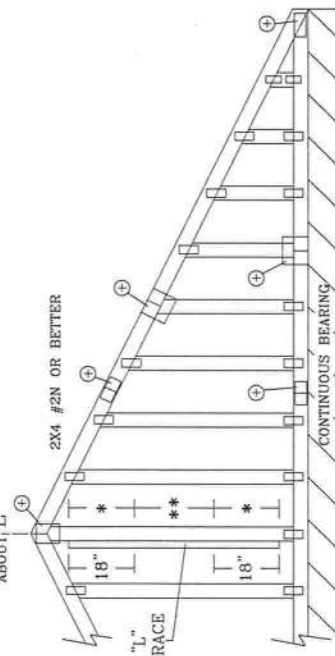
2X4 GABLE VERTICAL		BRACE		NO BRACES		(1) 1X4 "L" BRACE		(2) 2X4 "L" BRACE		(1) 2X6 "L" BRACE		(2) 2X6 "L" BRACE	
SPACING	SPECIES	GRADE	#1 / #2	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
MAX GABLE VERTICAL LENGTH	SPF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	8'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



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

VERTICAL LENGTH SHOWN
IN TABLE ABOVE.

CONNECT DIAGONAL AT
MIDPOINT OF VERTICAL WEB.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH

#3 STUD	STANDARD
STANDARD	STANDARD

SOUTHERN PINE

#3 STUD	STANDARD
STANDARD	STANDARD

GROUP B:

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

SOUTHERN PINE

#1	#2

GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
- GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
- ATTACH EACH "L" BRACE WITH 10d NAILS.
- * FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C. IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.
- ** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2.5X4
GREATER THAN 11' 6"	3X4

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

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow RCSI (Building Component Safety Information, by TPI and WTC) for safety practices prior to performing their functions. Installers shall provide temporary bracing per RCSI unless noted otherwise; top chord bracing shall be provided for all trusses. Trusses shall be braced in accordance with the RCSI sections B3 & B7. See this job's general notes page for more information.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Trusses and bracing shall be installed in accordance with the design. Trusses and bracing shall be made of 20/18/16GA (W/H/S/K) ASTM A653 grade 57/40/60 (K/W/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and 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. ITW - BCG: www.itwbcg.com; TPI: www.tpinet.com; WTC: www.sbcindustry.com; ICC: www.iccsafe.org

REF ASCE7-05-CABI1030
DATE 1/1/09
DRWG A11030050109

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



Earth City, MO 63045

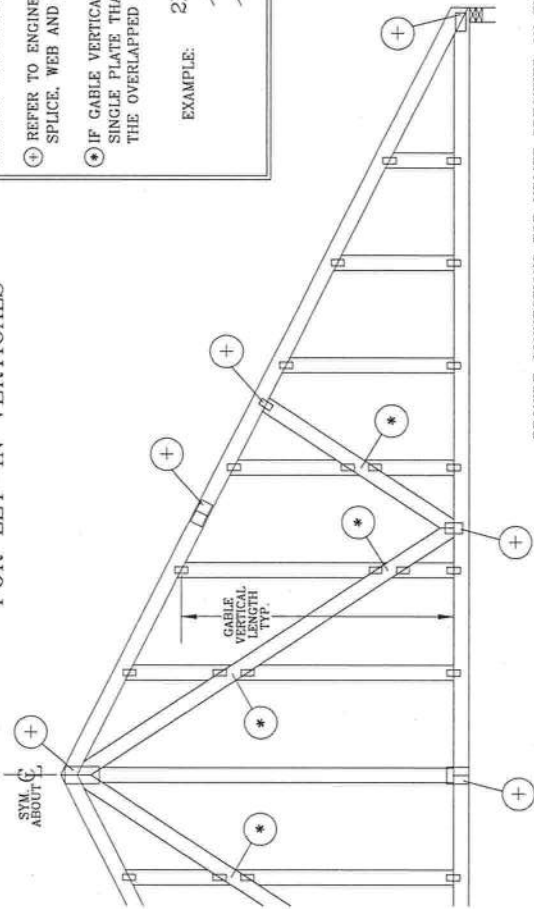
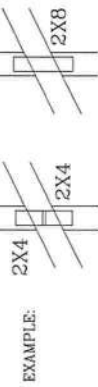
GABLE DETAIL FOR LET-IN VERTICALS

GABLE TRUSS PLATE SIZES

REFER TO APPROPRIATE ITW GABLE DETAIL FOR
MINIMUM PLATE SIZES FOR VERTICAL STUDS.

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

⊙ IF GABLE VERTICAL PLATES OVERLAP, USE A
SINGLE PLATE THAT COVERS THE TOTAL AREA OF
THE OVERLAPPED PLATES TO SPAN THE WEB.



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

END DRIVEN NAILS:

10d COMMON (0.148" X 3" MIN) NAILS AT 4" O.C. PLUS

(4) NAILS IN TOP AND BOTTOM CHORD.

TOENAILED NAILS:

10d COMMON (0.148" X 3" MIN) TOENAILS AT 4" O.C. PLUS

(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ITW GABLE DETAIL FOR ASCE

WIND LOAD.

ASCE 7-98 GABLE DETAIL DRAWINGS

AI3015980109, AI2015980109, AI1015980109, AI0015980109,

AI3030980109, AI2030980109, AI1030980109, AI0030980109

ASCE 7-02 GABLE DETAIL DRAWINGS

AI3015020109, AI2015020109, AI1015020109, AI0015020109,

AI3030020109, AI2030020109, AI1030020109, AI0030020109,

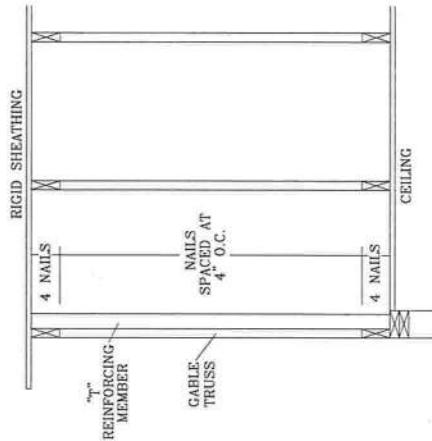
ASCE 7-05 GABLE DETAIL DRAWINGS

AI3015050109, AI2015050109, AI1015050109, AI0015050109,

AI3030050109, AI2030050109, AI1030050109, AI0030050109

SEE APPROPRIATE ITW GABLE DETAIL FOR MAXIMUM

UNREINFORCED GABLE VERTICAL LENGTH.



WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow
ITW Building Components Group Inc. (ITWBCG) safety practices prior to performing
these tasks. Trusses shall be installed in accordance with the ITWBCG Truss Installation Manual. Trusses
shall have properly attached structural panels and bottom chord shall have a properly attached rigid
ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per IBCS1
sections B3 & B7. See this job's general notes page for more information.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR

ITW Building Components Group Inc. (ITWBCG) 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. ITWBCG connector plates are made of 2018/186CA (W/L/S/K) ASTM A653 grade 37/40/60
(K/W/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details.
A seal on this drawing or cover plate indicates acceptance and 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.
ITW-BCG: www.itwbcg.com; TPI: www.tpiusa.com; WICK: www.sbcindustry.com; ICC: www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045

REF LET-IN VERT

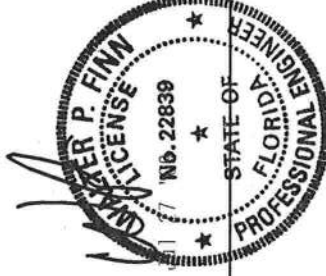
DATE 1/1/09

DRWG GBLLETIN0109

MAX TOT. LD. 60 PSF

DUR. FAC. ANY

MAX SPACING 24.0"



"T" REINFORCEMENT ATTACHMENT DETAIL

"T" REINFORCING MEMBER

TOENAIL - OR - ENDNAIL

TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS,
MULTIPLY "T" INCREASE BY LENGTH (BASED ON
APPROPRIATE ITW GABLE DETAIL).

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	"T" INCREASE
140 MPH	2x4	10 %
15 FT	2x6	50 %
140 MPH	2x4	10 %
30 FT	2x6	50 %
130 MPH	2x4	10 %
15 FT	2x6	50 %
130 MPH	2x4	10 %
30 FT	2x6	50 %
120 MPH	2x4	10 %
15 FT	2x6	50 %
120 MPH	2x4	10 %
30 FT	2x6	40 %
110 MPH	2x4	10 %
15 FT	2x6	40 %
110 MPH	2x4	10 %
30 FT	2x6	50 %
100 MPH	2x4	20 %
15 FT	2x6	30 %
100 MPH	2x4	10 %
30 FT	2x6	40 %
90 MPH	2x4	20 %
15 FT	2x6	20 %
90 MPH	2x4	20 %
30 FT	2x6	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT, Kzt = 1.00

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"

Residential System Sizing Calculation

Summary

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

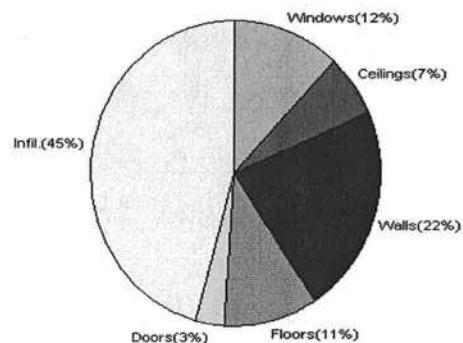
8/12/2009

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	12157 Btuh	Total cooling load calculation	15182 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	148.1 18000	Sensible (SHR = 0.75)	118.3 13500
Heat Pump + Auxiliary(0.0kW)	148.1 18000	Latent	119.3 4500
		Total (Electric Heat Pump)	118.6 18000

WINTER CALCULATIONS

Winter Heating Load (for 700 sqft)

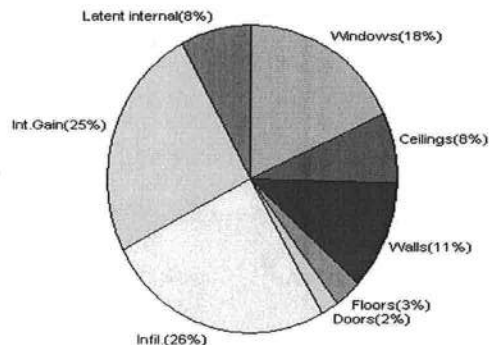
Load component		Load	
Window total	45 sqft	1449	Btuh
Wall total	825 sqft	2709	Btuh
Door total	30 sqft	389	Btuh
Ceiling total	700 sqft	825	Btuh
Floor total	700 sqft	1299	Btuh
Infiltration	135 cfm	5487	Btuh
Duct loss		0	Btuh
Subtotal		12157	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		12157	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 700 sqft)

Load component		Load	
Window total	45 sqft	2727	Btuh
Wall total	825 sqft	1721	Btuh
Door total	30 sqft	294	Btuh
Ceiling total	700 sqft	1159	Btuh
Floor total		421	Btuh
Infiltration	70 cfm	1309	Btuh
Internal gain		3780	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		11411	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		2571	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		3771	Btuh
TOTAL HEAT GAIN		15182	Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE: 8/12/09

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

8/12/2009

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	6.0		32.2	193 Btuh
2	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
3	2, Clear, Metal, 0.87	NE	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	SW	10.0		32.2	322 Btuh
Window Total			45(sqft)			1449 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	825		3.3	2709 Btuh
Wall Total			825			2709 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		10		12.9	130 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			30			389Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	700		1.2	825 Btuh
Ceiling Total			700			825Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Raised Wood - Open	19	700.0 sqft		1.9	1299 Btuh
Floor Total			700			1299 Btuh
Zone Envelope Subtotal:						6670 Btuh
Infiltration	Type	ACH	Zone Volume		CFM=	
	Natural	1.29	6300		135.4	5487 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					12157 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	12157 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	12157 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

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

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

8/12/2009

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	6.0		32.2	193 Btuh
2	2, Clear, Metal, 0.87	NW	9.0		32.2	290 Btuh
3	2, Clear, Metal, 0.87	NE	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	SW	10.0		32.2	322 Btuh
	Window Total		45(sqft)			1449 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	825		3.3	2709 Btuh
	Wall Total		825			2709 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		10		12.9	130 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
	Door Total		30			389Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	700		1.2	825 Btuh
	Ceiling Total		700			825Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Raised Wood - Open	19	700.0 sqft		1.9	1299 Btuh
	Floor Total		700			1299 Btuh
	Zone Envelope Subtotal:					6670 Btuh
Infiltration	Type	ACH	Zone Volume	CFM=		
	Natural	1.29	6300	135.4		5487 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					12157 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	12157 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	12157 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

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

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

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

8/12/2009

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	2, Clear, 0.87, None,N,N	NW	1.5ft	5ft.	6.0	0.0	6.0	29	60	360	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft	5ft.	9.0	0.0	9.0	29	60	540	Btuh
3	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	20.0	0.0	20.0	29	60	1201	Btuh
4	2, Clear, 0.87, None,N,N	SW	1.5ft	8ft.	10.0	0.0	10.0	29	63	625	Btuh
Window Total					45 (sqft)					2727 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			825.0			2.1		1721 Btuh	
Wall Total					825 (sqft)					1721 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				10.0			9.8		98 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total					30 (sqft)					294 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			700.0			1.7		1159 Btuh	
Ceiling Total					700 (sqft)					1159 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Raised Wood - Open	19.0			700 (sqft)			0.6		421 Btuh	
Floor Total					700.0 (sqft)					421 Btuh	
	Zone Envelope Subtotal:									6322 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.67			6300			70.4		1309 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			2400		3780 Btuh		
Duct load	Partially sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									11411 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

8/12/2009

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	11411 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	11411 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	11411 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2571 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3771 Btuh
	TOTAL GAIN	15182 Btuh

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



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

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

8/12/2009

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft	5ft.	6.0	0.0	6.0	29	60	360	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft	5ft.	9.0	0.0	9.0	29	60	540	Btuh
3	2, Clear, 0.87, None,N,N	NE	0ft.	0ft.	20.0	0.0	20.0	29	60	1201	Btuh
4	2, Clear, 0.87, None,N,N	SW	1.5ft	8ft.	10.0	0.0	10.0	29	63	625	Btuh
Window Total					45 (sqft)					2727 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			825.0			2.1		1721 Btuh	
Wall Total					825 (sqft)					1721 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				10.0			9.8		98 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total					30 (sqft)					294 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			700.0			1.7		1159 Btuh	
Ceiling Total					700 (sqft)					1159 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Raised Wood - Open	19.0			700 (sqft)			0.6		421 Btuh	
Floor Total					700.0 (sqft)					421 Btuh	
Zone Envelope Subtotal:										6322 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.67			6300			70.4		1309 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230 +			2400		3780 Btuh		
Duct load	Partially sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										11411 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Lake City, FL

Project Title:
907141GlenwoodKingManJ

Class 3 Rating
Registration No. 0
Climate: North

8/12/2009

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	11411 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	11411 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	11411 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2571 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3771 Btuh
	TOTAL GAIN	15182 Btuh

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



For Florida residences only

Residential Window Diversity

MidSummer

Lake City, FL

Project Title:
907141GlenwoodKingManJ

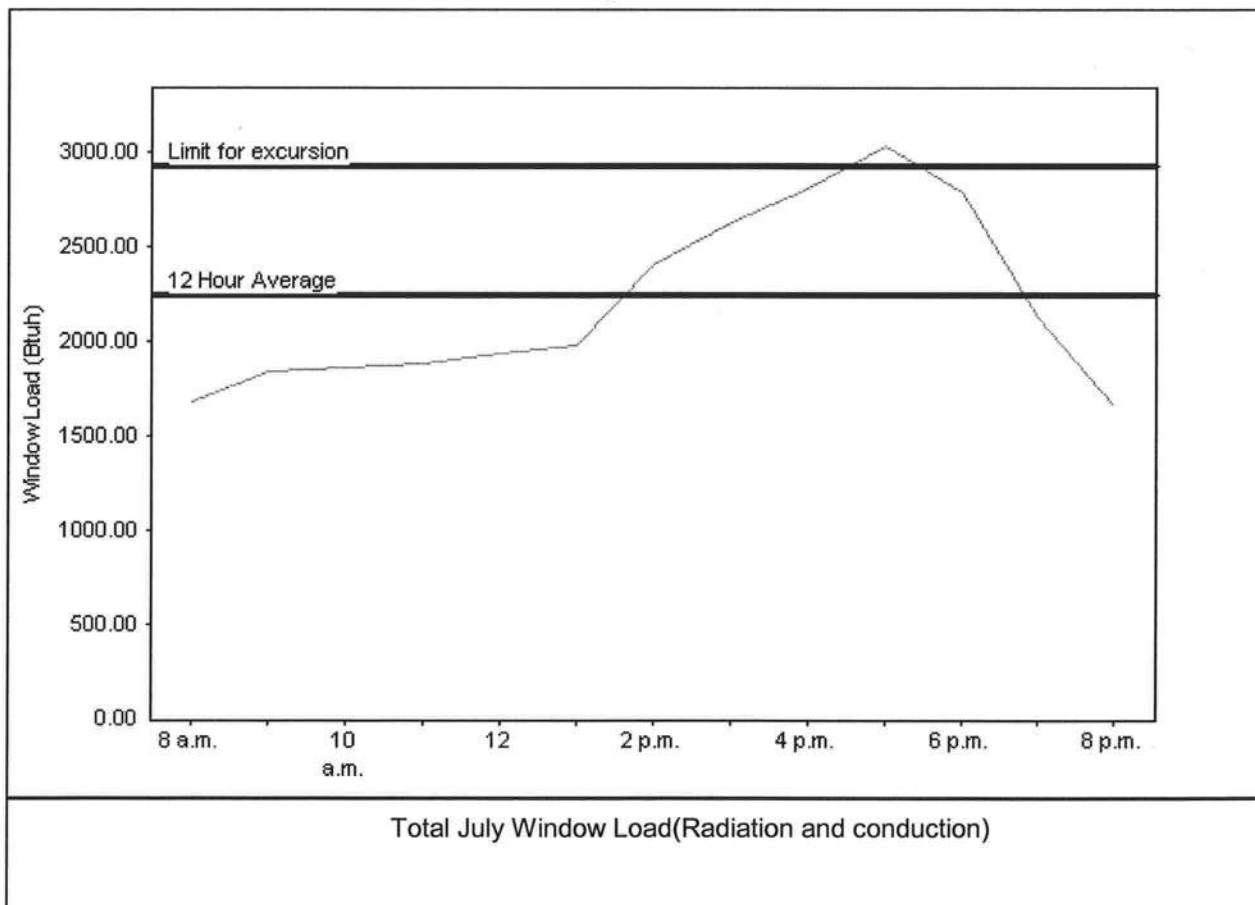
Class 3 Rating
Registration No. 0
Climate: North

8/12/2009

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	2245 Btuh
Summer setpoint	75 F	Peak window load for July	3032 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	2919 Btuh
Latitude	29 North	Window excursion (July)	114 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:

8/12/09

EnergyGauge® FLR2PB v4.1



COLUMBIA COUNTY, FLORIDA

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 29-4S-16-03236-117

Building permit No. 000028034

Use Classification DETACHED ACC. BLDG

Fire: 0.00

Permit Holder GLENWOOD KING

Waste:

Owner of Building TIMOTHY CASSIDY

Total: 0.00

Location: 5979 SW SR 247, LAKE CITY, FL



Date: 10/15/2009

Wayne H. Smith

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

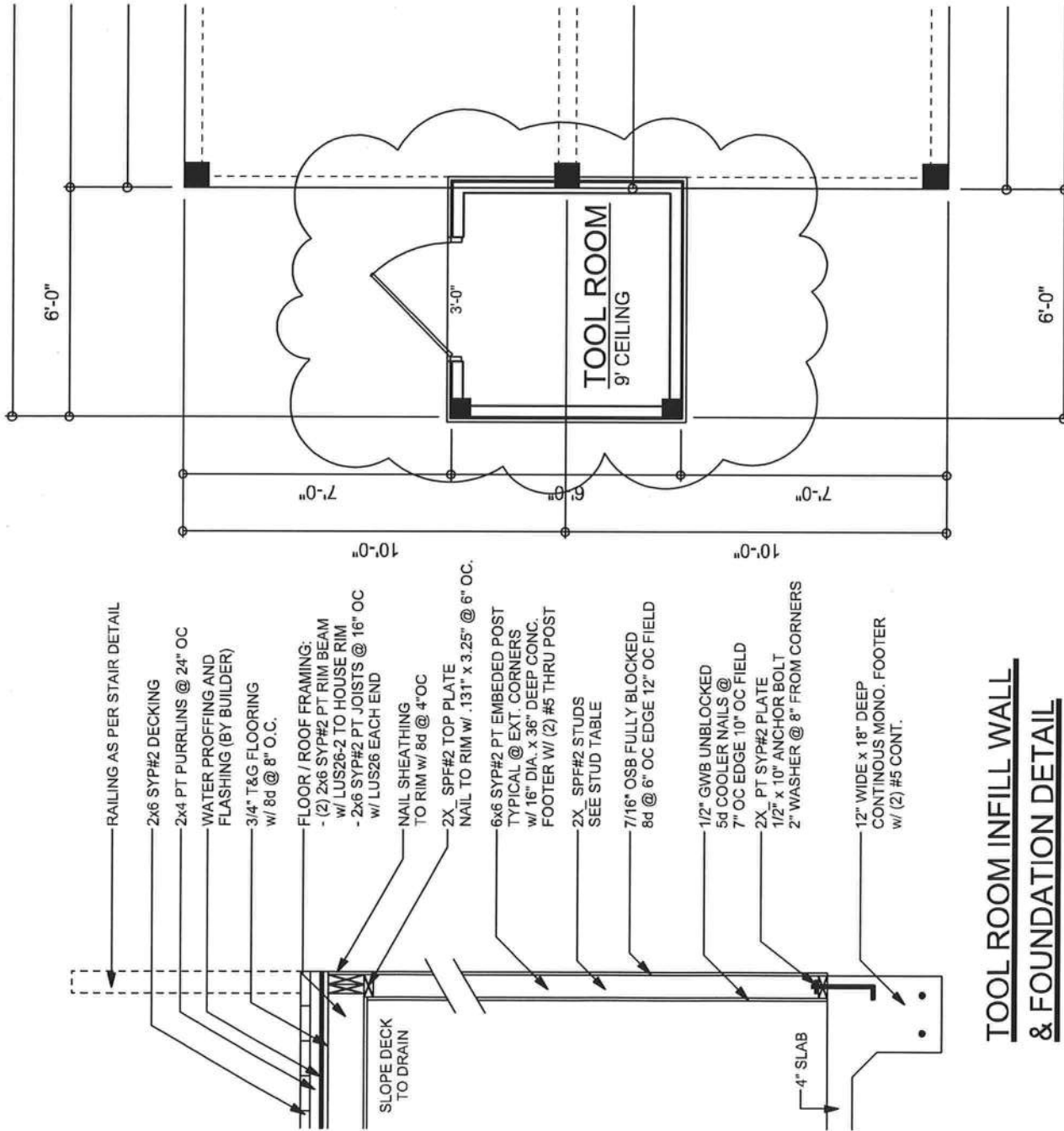
<u>Glenwood King</u> <u>Construction</u>	
ADDRESS: Lake City, Florida	
Mark Disosway P.E. P.O. Box 868 Lake City, Florida 32056 Phone: (386) 754 - 5419 Fax: (386) 269 - 4871	
PRINTED DATE: September 16, 2009	
DRAWN BY: Evan Beamsley	STRUCTURAL BY: Evan Beamsley
FINALS DATE: 12 / Aug / 09	
JOB NUMBER: 907141	
DRAWING NUMBER	
OF 4 SHEETS	

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32056
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871

DRAWN BY: Evan Beamsley	STRUCTURAL BY: Evan Beamsley
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JOB NUMBER:
907141

OF 4 SHEETS



TOOL ROOM INFILL WALL
& FOUNDATION DETAIL

1ST FLOOR LAYOUT
SCALE: 1/4" = 1'-0"

28034



NOTICE OF INSPECTION AND/OR TREATMENT

28034

Date of Inspection

8/31/09

TH

Date of Treatment

Date of Spot Treatment

Premise Pro

Pesticide Used

subterranean Termites

Wood-Destroying Organisms Treated

****Notice****

It is a violation of Florida State Law (Chap. 482.226) for anyone other than the property owner to remove this notice.

Address:

Pestmaster Services of Lake City

187 SE Country Club Rd., Suite 101 • Lake City, FL 32025