

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0701-70 Date Received 1/18 By JW Permit # 1309125406
 Application Approved by - Zoning Official BKS Date 1/19/07 Plans Examiner OK JTH Date 1-19-07
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments 1st above Rd for MFE

Applicants Name C+S Construction Inc. Phone 386-755-7200
 Address 456 SE Ernie Ave. Suite 101 Lake City, Florida 32025
 Owners Name Michael T. McCarthy Phone 386-961-9153
 911 Address 537 SW Gull Dr. Lake City Fl. 32024
 Contractors Name James R. Cox Phone 386-755-7200
 Address 456 SE Ernie Ave. Suite 101 Lake City, Fl. 32025
 Fee Simple Owner Name & Address Michael T. McCarthy
 Bonding Co. Name & Address None
 Architect/Engineer Name & Address Nick Heisler 386-755-9021
 Mortgage Lenders Name & Address USDA IRMS + SHIP 386-362-3055
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 03626-077(15-55-16) Estimated Cost of Construction 86,800.00
 Subdivision Name Hi Dry Acres Lot 77 Block B Unit 2 Phase
 Driving Directions Lake State Road 47 South Past Columbia City, Turn
Right on Pickens Lane to end turn left on SW Gull
Drive Lot on right
 Type of Construction New Residential Number of Existing Dwellings on Property None
 Total Acreage .93 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 100' Side 75' Side 85' Rear 55'
 Total Building Height 12' Number of Stories 1 Heated Floor Area 1056 ¹⁰⁵⁶ Roof Pitch 4/12
707A 1136

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.

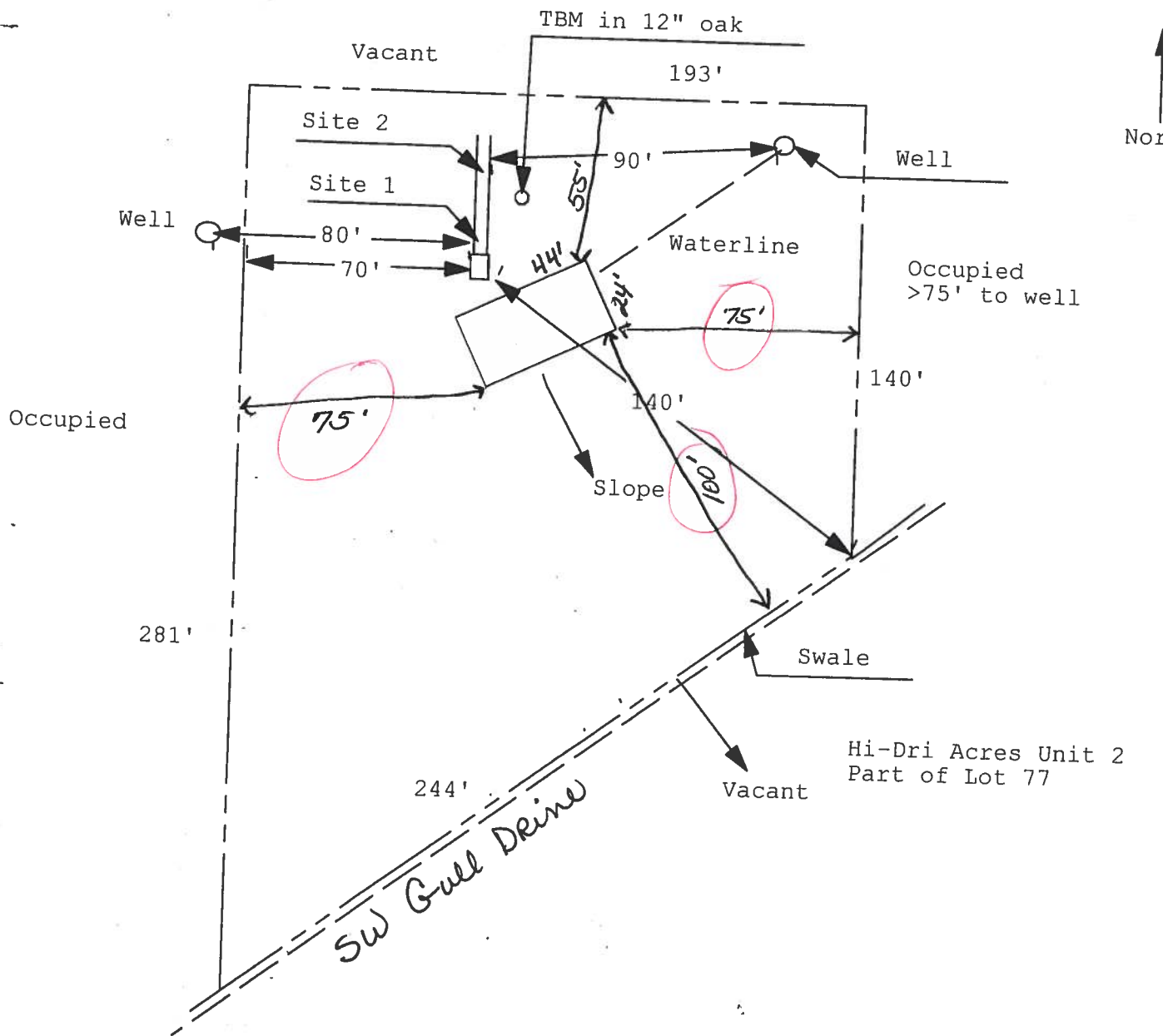
James R. Cox
 Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 18 day of JAN. 2007.
 Personally known ✓ or Produced Identification

James R. Cox
 Contractor Signature
 Contractors License Number RP0066502
 Competency Card Number 5476
 NOTARY STAMP/SEAL

Belinda
 Notary Signature
 BELINDA LAFFOON
 NOTARY PUBLIC - STATE OF FLORIDA
 COMMISSION #00501751
 EXPIRES 12/31/2008
 BONDED THRU 1-888-NOTARY1



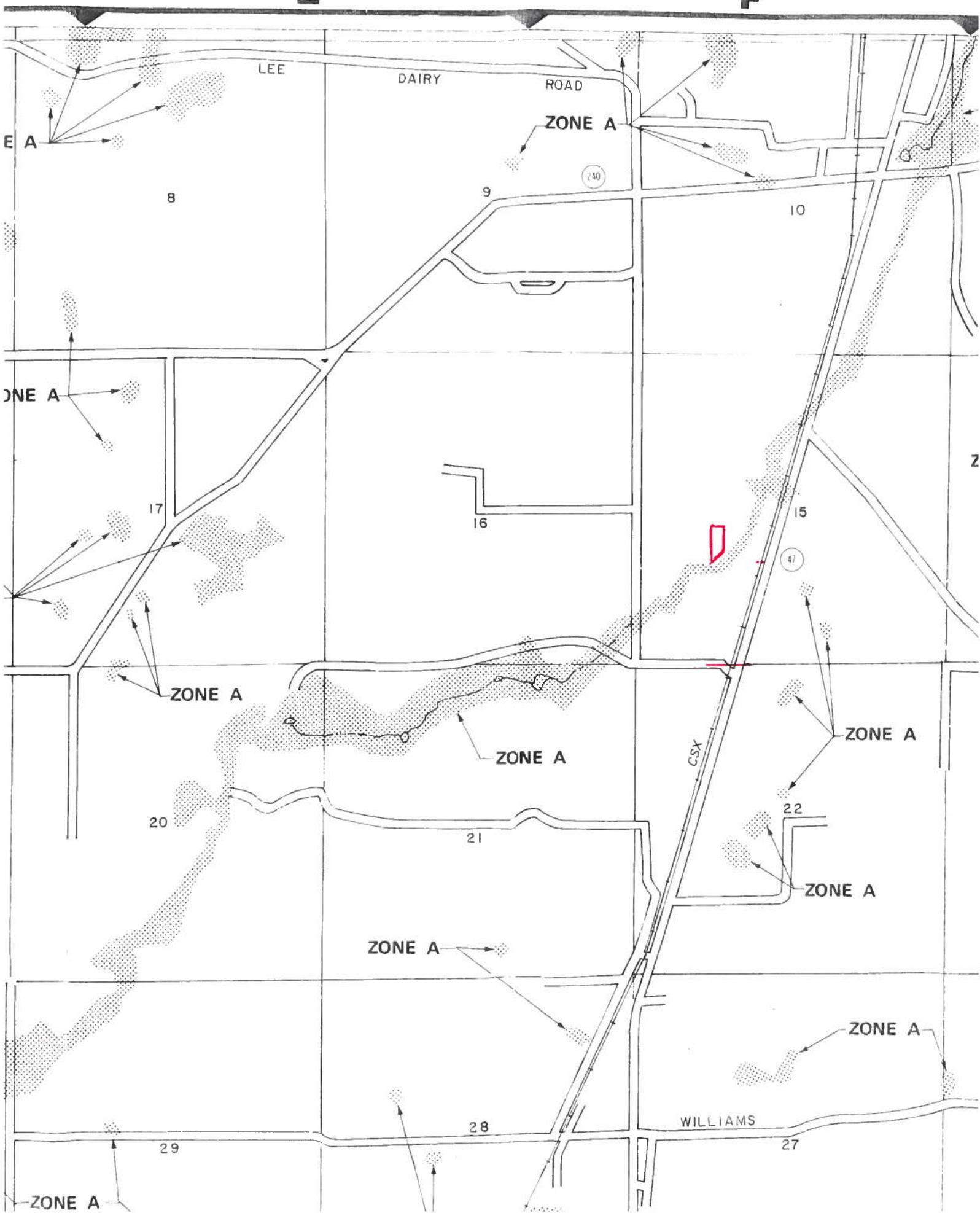
1 inch = 50 feet

FILE COPY

0701-70

E

F



COLUMBIA COUNTY 9-1-1 ADDRESSING

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

PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

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

DATE REQUESTED: 1/16/2007 DATE ISSUED: 1/17/2007

ENHANCED 9-1-1 ADDRESS:

550 SW GULL DR

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

15-5S-16-03626-077

Remarks:

PARENT PARCEL

Address Issued By



Columbia County 9-1-1 Addressing / GIS Department

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

Approved Address

JAN 17 2007

911Addressing/GIS Dept

FILE COPY

THW: WEE 012

**Columbia County Building Department
Culvert Waiver**

**Culvert Waiver No.
000001309**

DATE: 01/19/2007

BUILDING PERMIT NO. 25440

APPLICANT LAVONNE COX

PHONE 386.755.7200

ADDRESS 456 SE ERMINE STREET

LAKE CITY

FL 32025

OWNER MICHAEL T. MCCARTHY

PHONE 386.961.9153

ADDRESS 550 SW GULL DRIVE

LAKE CITY

FL 32024

CONTRACTOR J. RICHARD COX

PHONE 386.755.7200

LOCATION OF PROPERTY 47-S TO PAST COL. CITY TO PICKEREL LN, TR GO TO END, TL ON

GULL DR, LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT HI DRI ACRES

77

2

PARCEL ID # 15-5S-16-03626-077

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: Lavonne Cox

A SEPARATE CHECK IS REQUIRED

MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE CULVERT WAIVER IS:

APPROVED ✓

NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: _____

SIGNED: Ernesto P. P. Jr.

DATE: 1-24-07

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

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

RECEIVED

JAN 23 2007

By: _____



*Gaylord Pump & Irrigation Inc.**P.O. Box 548**Brantford, FL 32008*

386-935-0932 Fax 386-935-0778

4" Steel Casing (schedule 40)

1-Hp Submersible pump 18 gpm

1-1/4" Galvanize pipe

PC-244 Challenger Diaphragm Tank (8) gallon tank with 21.9 gallons of draw down)

This equipment meets or exceeds state code of March 2002

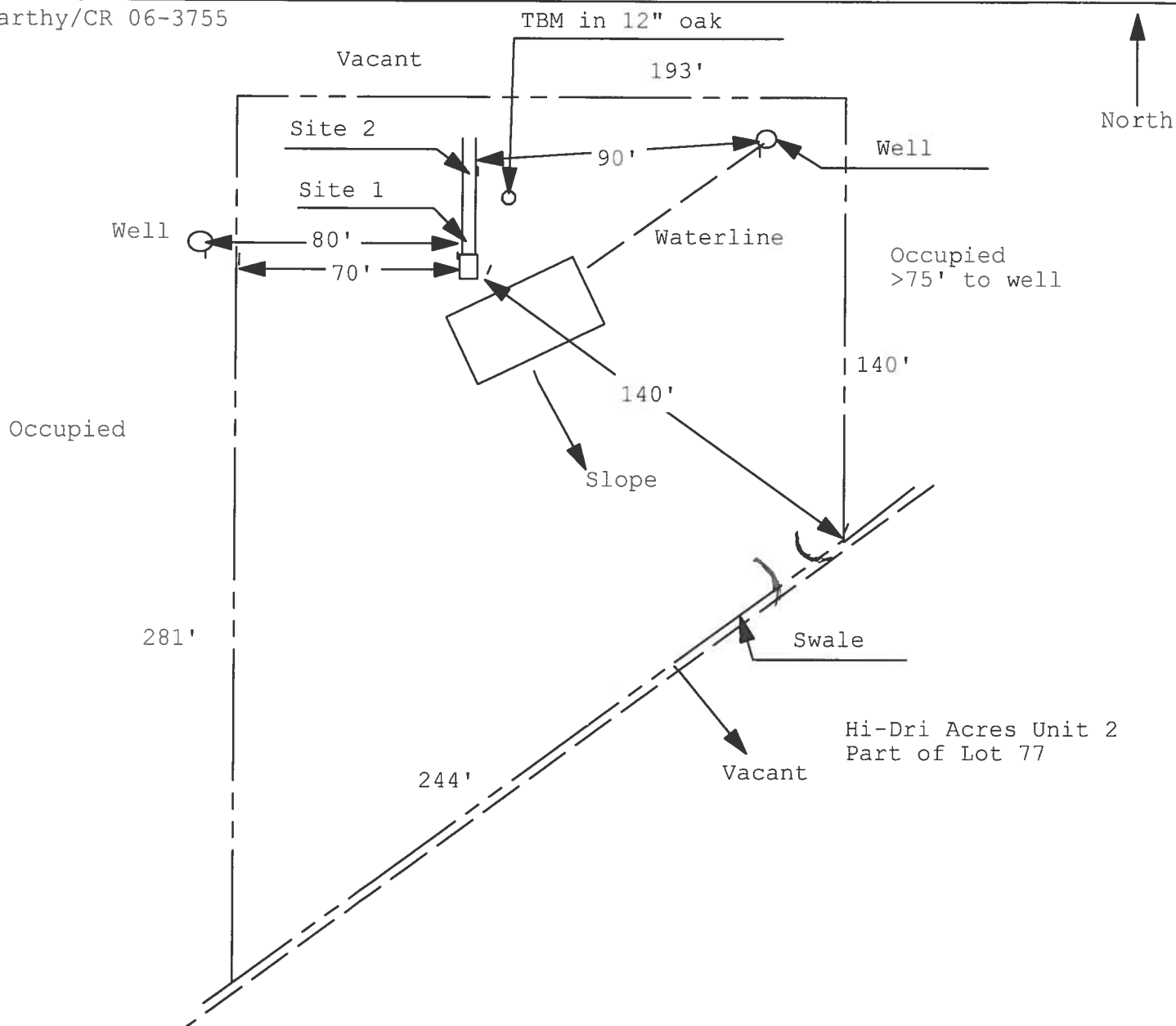
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**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**

Permit Application Number: 07-00058N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

McCarthy/CR 06-3755



1 inch = 50 feet

Site Plan Submitted By Paul L. Lyle Date 11/2/06
Plan Approved ☒ Not Approved ☐ Date 1/19/07

By Mr. A. M. Columbia CPHU

Notes: _____

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	The JANICE	Builder:	CnS CONSTRUCTION
Address:	-	Permitting Office:	COLUMBIA
City, State:	LAKE CITY, FL	Permit Number:	
Owner:	CnS CONSTRUCTION	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 24.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	1056 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: 24.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Single Default)	79.0 ft²		HSPF: 8.70
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear)	79.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 136.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.91
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=11.0, 949.0 ft²	(HR-Heat recovery, Solar	
b. N/A		DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	CF,
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=22.0, 1056.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 106.0 ft		
b. N/A			

Glass/Floor Area: 0.09

Total as-built points: 17217

Total base points: 19312

PASS

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

PREPARED BY: 11/12/2005DATE: 16 June 2007

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.

FILE COPY

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: -, LAKE CITY, FL,

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.	

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

ADDRESS: -, LAKE CITY, FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING										
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Credit X Multiplier = Total Multiplier
3		2635.00		7905.0	50.0	0.91	3		1.00	2663.96
					As-Built Total:					7991.9

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
5650		5758		7905	19312		3665		5560
									7992
									17217

PASS

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: -, LAKE CITY, FL,

PERMIT #:

BASE				AS-BUILT									
Winter Base Points:		9177.1		Winter As-Built Points:			12206.6						
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Heating Points
9177.1		0.6274	5757.7	(sys 1: Electric Heat Pump 24000 btuh ,EFF(8.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0 12206.6 1.000 (1.069 x 1.169 x 0.93) 0.392 1.000 5560.4 12206.6 1.00 1.162 0.392 1.000 5560.4									

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: -, LAKE CITY, FL,

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	1056.0	12.74	2421.6	Single, Clear	S	2.0	4.8	40.0	20.24	1.43	1160.1
				Single, Clear	S	7.0	4.8	20.0	20.24	3.24	1310.3
				Single, Clear	N	2.0	4.8	15.0	33.22	1.01	501.8
				Single, Clear	N	2.0	2.8	9.0	33.22	1.01	303.2
				Single, Clear	E	2.0	9.2	15.0	26.41	1.03	407.0
				As-Built Total:				99.0	3682.3		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	11.0		949.0	3.70		3511.3	
Exterior	949.0	3.70	3511.3								
Base Total:				949.0		3511.3					
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points						
Adjacent	0.0	0.00	0.0	Exterior Wood			40.0	12.30		492.0	
Exterior	40.0	12.30	492.0								
Base Total:				40.0		492.0					
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1056.0	2.05	2164.8	Under Attic	22.0		1056.0	2.45 X 1.00		2587.2	
Base Total:				1056.0		2164.8		As-Built Total:			
								1056.0		2587.2	
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	136.0(p)	8.9	1210.4	Slab-On-Grade Edge Insulation	0.0		136.0(p)	18.80		2556.8	
Raised	0.0	0.00	0.0								
Base Total:				1210.4		136.0		2556.8			
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
1056.0 -0.59 -623.0				1056.0 -0.59 -623.0							

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

ADDRESS: -, LAKE CITY, FL,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 13243.1				Summer As-Built Points: 11922.3						
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
13243.1	0.4266		5649.5	11922.3	1.00	1.138	0.284	0.950		3665.0

(sys 1: Central Unit 24000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)

11922 1.00 (1.09 x 1.147 x 0.91) 0.284 0.950 3665.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: -, LAKE CITY, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC Overhang Omt Len Hgt Area X SPM X SOF = Points							
.18	1056.0	20.04	3809.2	Single, Clear	S	2.0	4.8	40.0	40.81	0.71	1164.9
				Single, Clear	S	7.0	4.8	20.0	40.81	0.48	388.9
				Single, Clear	N	2.0	4.8	15.0	21.73	0.87	282.0
				Single, Clear	N	2.0	2.8	9.0	21.73	0.77	149.9
				Single, Clear	E	2.0	9.2	15.0	47.92	0.94	672.5
				As-Built Total:				99.0		2658.2	
WALL TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			11.0		949.0	1.70	1613.3
Exterior	949.0	1.70	1613.3								
Base Total:		949.0	1613.3	As-Built Total:				949.0		1613.3	
DOOR TYPES Area X BSPM = Points				Type Area X SPM = Points							
Adjacent	0.0	0.00	0.0	Exterior Wood					40.0	6.10	244.0
Exterior	40.0	6.10	244.0								
Base Total:		40.0	244.0	As-Built Total:				40.0		244.0	
CEILING TYPES Area X BSPM = Points				Type R-Value Area X SPM X SCM = Points							
Under Attic	1056.0	1.73	1826.9	Under Attic			22.0		1056.0	2.11 X 1.00 2228.2	
Base Total:		1056.0	1826.9	As-Built Total:				1056.0		2228.2	
FLOOR TYPES Area X BSPM = Points				Type R-Value Area X SPM = Points							
Slab	136.0(p)	-37.0	-5032.0	Slab-On-Grade Edge Insulation			0.0		136.0(p)	-41.20 -5603.2	
Raised	0.0	0.00	0.0								
Base Total:			-5032.0	As-Built Total:				136.0		-5603.2	
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
		1056.0	10.21					1056.0		10.21	10781.8

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.2

The higher the score, the more efficient the home.

CnS CONSTRUCTION, -, LAKE CITY, FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 24.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 12.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft²)	1056 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: 24.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Single Default)	79.0 ft²		HSPF: 8.70
b. SHGC:			b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear)	79.0 ft²	c. N/A	___
8. Floor types				___
a. Slab-On-Grade Edge Insulation	R=0.0, 136.0(p) ft	___	14. Hot water systems	
b. N/A		___	a. Electric Resistance	Cap: 50.0 gallons
c. N/A		___		EF: 0.91
9. Wall types			b. N/A	___
a. Frame, Wood, Exterior	R=11.0, 949.0 ft²	___	c. Conservation credits	
b. N/A		___	(HR-Heat recovery, Solar	
c. N/A		___	DHP-Dedicated heat pump)	
d. N/A		___	15. HVAC credits	CF, ___
e. N/A		___	(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types			HF-Whole house fan,	
a. Under Attic	R=22.0, 1056.0 ft²	___	PT-Programmable Thermostat,	
b. N/A		___	MZ-C-Multizone cooling,	
c. N/A		___	MZ-H-Multizone heating)	
11. Ducts				
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 106.0 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 EnergyStarTM 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: FLRCSB v4.0)

Residential System Sizing Calculation

Summary

CnS CONSTRUCTION
LAKE CITY, FL

Project Title:
The JANICE

Code Only
Professional Version
Climate: North

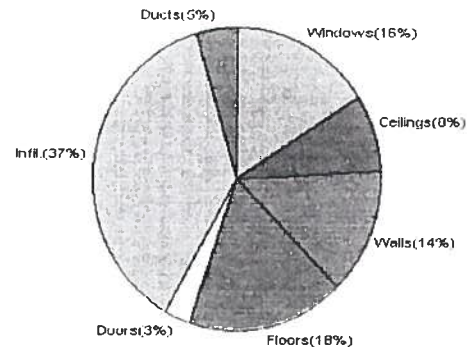
16-Jan-07

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
Total heating load calculation	24213 Btuh	Total cooling load calculation	23487 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	99.1 24000	Sensible (SHR = 0.75)	118.5 18000
Heat Pump + Auxiliary(8.0kW)	211.9 51304	Latent	72.3 6000
		Total (Electric Heat Pump)	102.2 24000

WINTER CALCULATIONS

Winter Heating Load (for 1056 sqft)

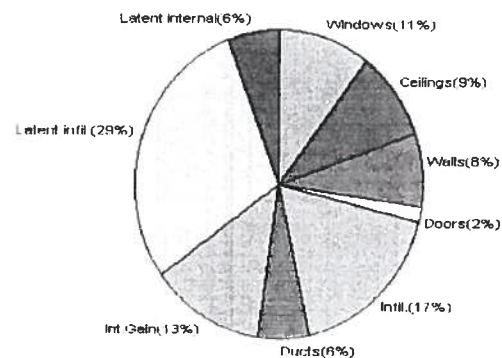
Load component	Load
Window total 99 sqft	3861 Btuh
Wall total 949 sqft	3322 Btuh
Door total 40 sqft	718 Btuh
Ceiling total 1056 sqft	2006 Btuh
Floor total 136 ft	4298 Btuh
Infiltration 206 cfm	8856 Btuh
Subtotal	23060 Btuh
Duct loss	1153 Btuh
TOTAL HEAT LOSS	24213 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1056 sqft)

Load component	Load
Window total 99 sqft	2490 Btuh
Wall total 949 sqft	1841 Btuh
Door total 40 sqft	399 Btuh
Ceiling total 1056 sqft	2133 Btuh
Floor total	0 Btuh
Infiltration 199 cfm	3948 Btuh
Internal gain	3000 Btuh
Subtotal(sensible)	13811 Btuh
Duct gain	1381 Btuh
Total sensible gain	15192 Btuh
Latent gain(infiltration)	6914 Btuh
Latent gain(internal)	1380 Btuh
Total latent gain	8294 Btuh
TOTAL HEAT GAIN	23487 Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY:

DATE:

System Sizing Calculations - Winter

Residential Load - Component Details

CnS CONSTRUCTION

Project Title:
The JANICE

Code Only
Professional Version
Climate: North

LAKE CITY, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

16-Jan-07

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	1, Clear, Metal, 1.00	N	40.0	39.0	1560 Btuh
2	1, Clear, Metal, 1.00	N	20.0	39.0	780 Btuh
3	1, Clear, Metal, 1.00	S	15.0	39.0	585 Btuh
4	1, Clear, Metal, 1.00	S	9.0	39.0	351 Btuh
5	1, Clear, Metal, 1.00	W	15.0	39.0	585 Btuh
Window Total			99		3861 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	11.0	949	3.5	3322 Btuh
Wall Total			949		3322 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		40	17.9	718 Btuh
Door Total			40		718 Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	22.0	1056	1.9	2006 Btuh
Ceiling Total			1056		2006 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	136.0 ft(p)	31.6	4298 Btuh
Floor Total			136		4298 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	8448(sqft)	56	2421 Btuh
	Mechanical			150	6435 Btuh
Infiltration Total				206	8856 Btuh

Totals for Heating	Subtotal	23060 Btuh
	Duct Loss(using duct multiplier of 0.05)	1153 Btuh
	Total Btuh Loss	24213 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 - Manual J Heat Transfer Multiplier)

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

System Sizing Calculations - Summer

Residential Load - Component Details

CnS CONSTRUCTION

Project Title:

Code Only

LAKE CITY, FL

The JANICE

Professional Version

Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

16-Jan-07

Window	Type	Overhang		Window Area(sqft)			HTM		Load	
	Panes/SHGC/U/InSh/ExSh Omt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.00, B, N	N	2	4.83	40.0	0.0	40.0	20	20	800 Btuh
2	1, Clear, 1.00, B, N	N	7	4.83	20.0	0.0	20.0	20	20	400 Btuh
3	1, Clear, 1.00, B, N	S	2	4.83	15.0	15.0	0.0	20	30	300 Btuh
4	1, Clear, 1.00, B, N	S	2	2.83	9.0	9.0	0.0	20	30	180 Btuh
5	1, Clear, 1.00, B, N	W	2	9.17	15.0	0.0	15.0	20	54	810 Btuh
Window Total					99					2490 Btuh
Walls 1	Type	R-Value			Area		HTM		Load	
	Frame - Exterior	11.0			949.0		1.9		1841 Btuh	
	Wall Total				949.0				1841 Btuh	
Doors 1	Type				Area		HTM		Load	
	Wood - Exter				40.0		10.0		399 Btuh	
	Door Total				40.0				399 Btuh	
Ceilings 1	Type/Color	R-Value			Area		HTM		Load	
	Under Attic/Dark	22.0			1056.0		2.0		2133 Btuh	
	Ceiling Total				1056.0				2133 Btuh	
Floors 1	Type	R-Value			Size		HTM		Load	
	Slab-On-Grade Edge Insulation	0.0			136.0 ft(p)		0.0		0 Btuh	
	Floor Total				136.0				0 Btuh	
Infiltration	Type	ACH			Volume		CFM=		Load	
	Natural	0.35			8448		49.4		978 Btuh	
	Mechanical						150		2970 Btuh	
	Infiltration Total						199		3948 Btuh	

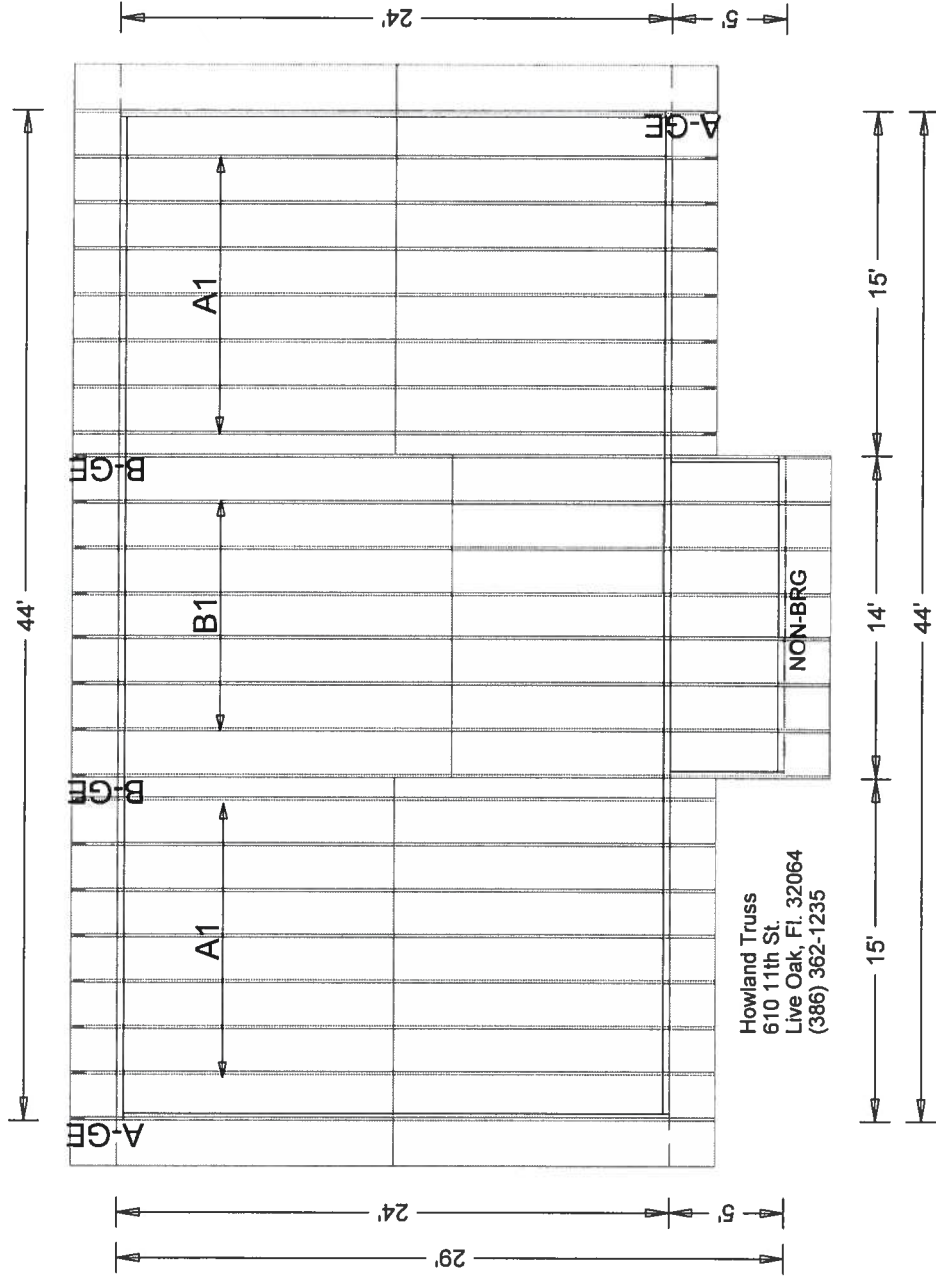
Internal gain	Occupants	Btuh/occupant		Appliance	Load	
	6	X	300 +			
						1200
						3000 Btuh

Totals for Cooling	Subtotal	13811 Btuh
	Duct gain(using duct multiplier of 0.10)	1381 Btuh
	Total sensible gain	15192 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	6914 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
TOTAL GAIN		23487 Btuh

Key: Window types (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/Daperies(B) or Roller Shades(R))
 (ExSh - Exterior shading device: none(N) or numerical value)
 (Omt - compass orientation)

FILE COPY

DATE: 8/23/05
ROOF PITCH: 4/12
CLG PITCH: FLAT
OVERHANG: 2'
LOADING: 40/SHGL
WIND LOAD: 110
EXT WALLS: 2X4, 8' HT.
PLEASE REVIEW LAYOUT AND
DRAWINGS CAREFULLY AS
TRUSSES WILL BE BUILT IN
STRICT ACCORDANCE WITH
THIS LAYOUT.



Howland Truss
610 11th St.
Live Oak, FL 32064
(386) 362-1235

Job Name: MCCARTHY RESIDENCE
Customer: C&S CONSTRUCTION
Designer: Chris McCall

JOB NO:
4198

PAGE NO:
1 OF 1

ITW Building Components Group, 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: IT3V215-Z0509144736

Truss Fabricator: W.B. Howland
Job Identification: 4198-/MCCARTHY RESIDENCE /C&S CONSTRUCTION -- LAKE CITY, FL
Truss Count: 4
Model Code: Florida Building Code
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.25, 7.12.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61615-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-98 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Details: A11030EC-GBLLETIN-



Seal Date: 01/09/2007

-Truss Design Engineer-
James F. Collins Jr.

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

#	Ref	Description	Drawing#	Date
1	47513--A1		07009042	01/09/07
2	47514--A-GE		07009043	01/09/07
3	47515--B1		07009044	01/09/07
4	47516--B-GE		07009002	01/09/07

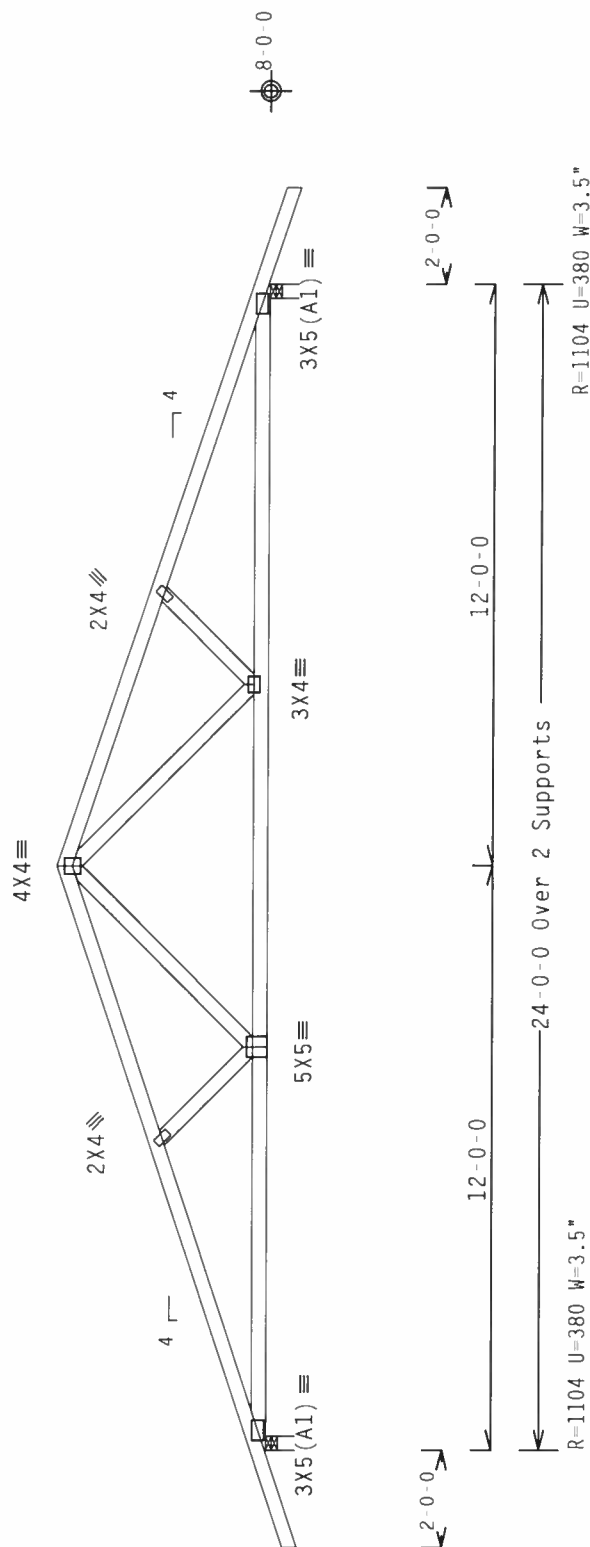


Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	webs	2x4	SP	#2	N

1110 mph wind, 30.00 ft mean hgt, ASCE 7-98, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

The overall height of this truss excluding overhang is 4-3-15.



Design Crit: TPI-2002(STD)/FBC

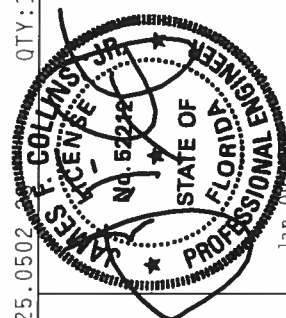
PLT TYP. Wave

 $\text{Ca}/\text{RT}=1.00(1.25)/10(0) \quad 7.$

QTY:14 FL/-/5/-/-/R/-

Scale = .25"/Ft.

TC LL	20.0	PSF	REF	R215 - -	47513
TC DL	10.0	PSF	DATE	01/09/07	
BC DL	10.0	PSF	DRW	HCURS215	07009042
BC LL	0.0	PSF	HC-ENG	JK/WHK	*
TOT.LD.	40.0	PSF	SEQN-	159365	
DUR.FAC.	1.25		FROM	CAW	
SPACING	24.0"		JREF-	1T3V215	Z05



Haines City, FL 33844
FL Certificate of Authorization # 567

Haines City, FL 33844
FL Certificate of Authorization # 567

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

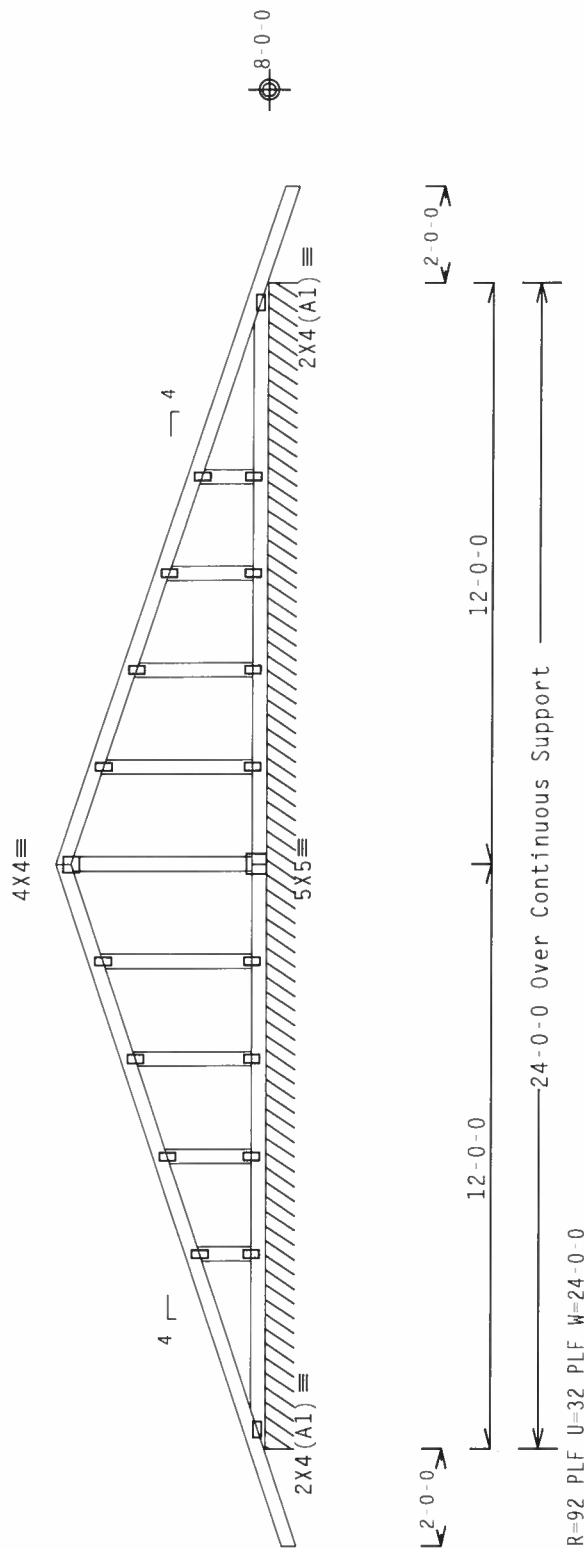
110 mph wind, 30.00 ft mean hgt, ASCE 7-98, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

Truss spaced at 24.0" OC designed to support 2.0-0 top chord
outlookers. Cladding load shall not exceed 0.00 PSF. Top chord
must not be cut or notched.

See DWGS A11030EC1106 & GBLLETIN1106 for more requirements.
Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 4'-3-15".

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



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

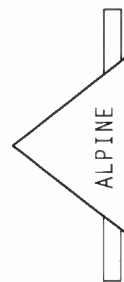
$$Ca/RT=1.00(1.25)/10(0) \quad 7.$$

0TY.2 FI / - / 5 / - / - / R / - / -

Scale = .25"/Ft.

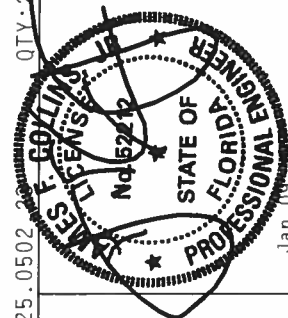
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BESS' BUILDING COMPONENT SAFETY INSTRUCTIONS, PUBLISHED BY IPDI (CRUSS PLATE INSTITUTE, 218 RIVER STREET, WADSWORTH, MA 02157) FOR SAFETY PRECAUTIONS. IF THE TRUSSES ARE TO BE USED FOR OTHER THAN THE PURPOSES INDICATED, THE TRUSSES MUST BE PROPERLY ATTACHED TO THE STRUCTURAL PANELS AND BOLTED TO THE CHORDS. THE TRUSSES MUST BE PROPERLY ATTACHED TO THE RIGID CELLING.

**** IMPORTANT **** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI'S OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. CONNECTIONS WITH THE LABEL PROVISIONS OF NDS (NATIONAL DESIGN SPECIFICATION) AND TPI'S. ALPINE TRUSSES SHALL BE MANUFACTURED WITH THE FOLLOWING SPECIFICATIONS: (1) 2X6 (S4S) GALT, STEEL, APPLY PLATES TO EACH FACE OF TRUSSES AND UNLESS OTHERWISE STATED, 10% TENSION PER DRAWING. (2) ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERMITTED AS OF 1/1/11 2002 SEC. 3. (3) UNLESS OTHERWISE DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SUFFICIENCY 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 A1 SEC. 2.



ITTW Building Components Group, Inc.
1950 Marley Drive
Haines City, FL 33844

FL Certificate of Authorization # 567
Haines City, FL 33844



lan 09

REF- 1T3V215 Z05

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

110 mph wind, 30.00 ft mean hgt, ASCE 7-98, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.

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

The overall height of this truss excluding overhang is 5-1-15.

Scale = .1875"/Ft.

REF R215 - 47515

DATE 01/09/07

DRW HCUSR215 07009044

HC-ENG JK/WHK

SEQN 159370

FROM CAW

JREF- 1T3V215_Z05

SPACING 24.0"

DUR.FAC. 1.25

TOT.LD. 40.0 PSF

BC LL 0.0 PSF

BC DL 10.0 PSF

TC DL 10.0 PSF

TC LL 20.0 PSF

FLY - 5' - 1' - 0" / R/-

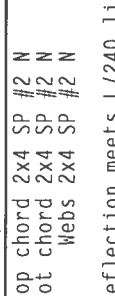
QT: 6

7.25.0502 23

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

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave



14'-6"-0

14'-6"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

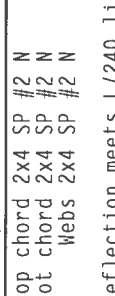
2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0



14'-6"-0

14'-6"-0

2'-0"-0

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2'-0"-0

2'-0"-0

2'-0"-0

2'-0"-0

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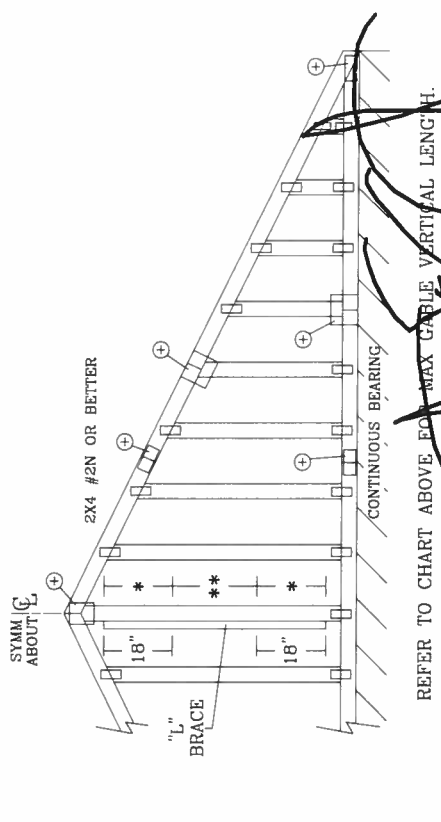
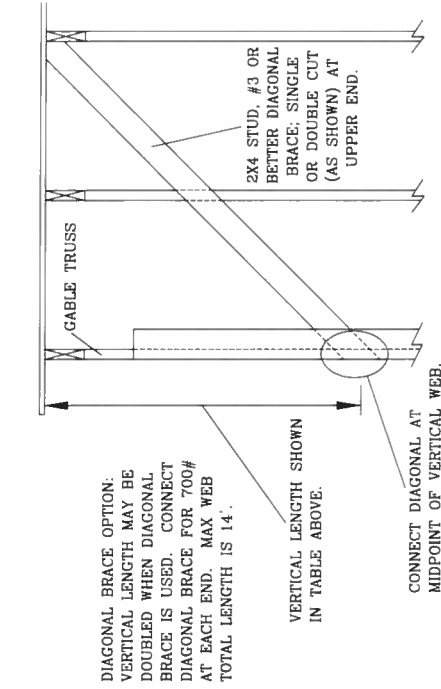
2'-0"-0

2'-0"-0

2'-0"-0

ASCE 7-98: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

2x4 GABLE TRUSS		BRACE		NO BRACES		(1) 1x4 "L" BRACE •		(2) 2x4 "L" BRACE •		(1) 2x6 "L" BRACE •		(2) 2x6 "L" BRACE •		MAX GABLE VERTICAL LENGTH	
GABLE VERTICAL SPACING	SPECIES	GRADE	BRACE		NO BRACES		(1) 1x4 "L" BRACE •		(2) 2x4 "L" BRACE •		(1) 2x6 "L" BRACE •		(2) 2x6 "L" BRACE •		GROUP B
			GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	
24" O.C.	SPF	#1 / #2	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	8' 11"	9' 2"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"	GROUP B
	HF	#3	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"	
	STANDARD	STUD	4' 8"	4' 8"	6' 1"	6' 1"	8' 3"	8' 3"	8' 3"	8' 3"	9' 6"	9' 6"	12' 11"	12' 11"	
	SP	#1	4' 0"	6' 4"	6' 10"	7' 6"	8' 11"	8' 11"	9' 7"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"	
24" O.C.	DFL	#3	3' 9"	5' 7"	6' 10"	7' 6"	8' 11"	8' 11"	9' 5"	9' 5"	11' 5"	12' 8"	14' 0"	14' 0"	GROUP B
	STUD	#2	3' 9"	5' 7"	6' 10"	7' 6"	8' 11"	8' 11"	9' 5"	9' 5"	11' 5"	12' 8"	14' 0"	14' 0"	
	STANDARD	STUD	3' 9"	5' 7"	6' 10"	7' 6"	8' 11"	8' 11"	9' 5"	9' 5"	11' 5"	12' 8"	14' 0"	14' 0"	
	SPF	#1 / #2	4' 2"	7' 3"	7' 5"	8' 7"	8' 10"	10' 3"	10' 6"	10' 6"	13' 5"	13' 10"	14' 0"	14' 0"	
16" O.C.	HF	#3	4' 1"	6' 8"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"	GROUP B
	STUD	#2	4' 1"	6' 8"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"	
	STANDARD	STUD	4' 1"	6' 8"	8' 0"	8' 7"	8' 7"	10' 3"	10' 3"	10' 3"	13' 5"	13' 5"	14' 0"	14' 0"	
	SP	#1	4' 7"	7' 3"	7' 9"	8' 7"	9' 3"	11' 0"	11' 0"	11' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
16" O.C.	DFL	#3	4' 4"	6' 10"	6' 10"	8' 7"	9' 3"	11' 0"	11' 0"	11' 0"	14' 0"	14' 0"	14' 0"	14' 0"	GROUP B
	STUD	#2	4' 4"	6' 10"	6' 10"	8' 7"	9' 3"	11' 0"	11' 0"	11' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	STANDARD	STUD	4' 4"	6' 10"	6' 10"	8' 7"	9' 3"	11' 0"	11' 0"	11' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	SPF	#1 / #2	4' 6"	7' 8"	7' 8"	9' 5"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
12" O.C.	HF	#3	4' 6"	7' 8"	7' 8"	9' 5"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	GROUP B
	STUD	#2	4' 6"	7' 8"	7' 8"	9' 5"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	STANDARD	STUD	4' 6"	7' 8"	7' 8"	9' 5"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	
	SP	#1	4' 11"	8' 0"	8' 7"	9' 5"	10' 2"	12' 1"	12' 1"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"	
12" O.C.	DFL	#3	4' 9"	7' 9"	7' 9"	9' 5"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	GROUP B
	STUD	#2	4' 9"	7' 9"	7' 9"	9' 5"	11' 3"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	



BRACING GROUP SPECIES AND GRADES:

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

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

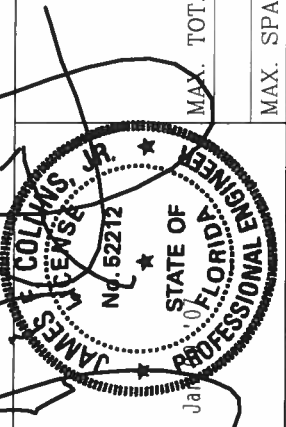
GABLE TRUSS DETAIL NOTES:

- 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"	2X4
GREATER THAN 11' 6"	2.5X4

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

REF	ASCE7-98-CAB11030
DATE	11/1/06
DRWG	A11030EC1106
ENG	-ENG



ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA

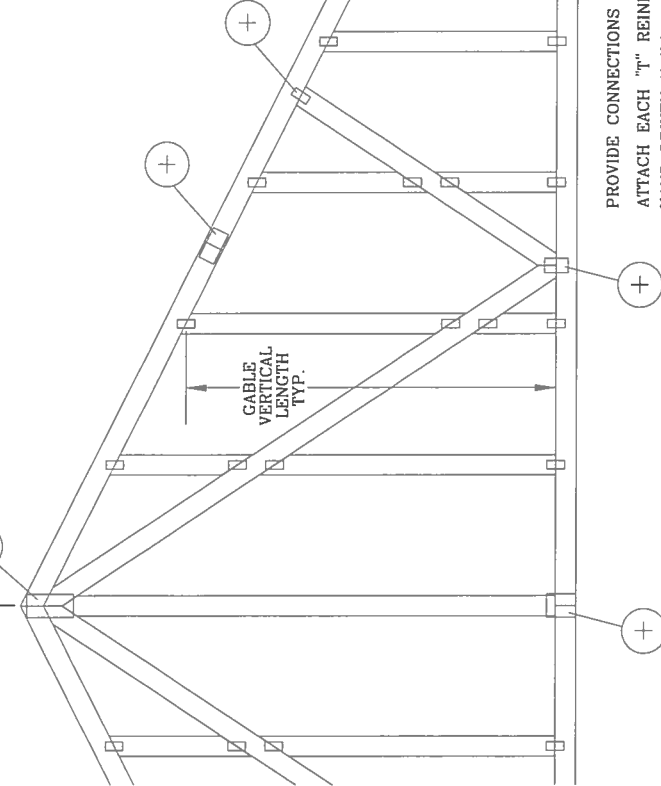
ALPINE

MAX. TOT. LD. 60 PSF

MAX. SPACING 24' 0"

GABLE DETAIL FOR LET-IN VERTICALS

SYM.
ABOUT L



4 TOENAILS

TOENAIL
SPACED AT
4" O.C.

4 TOENAILS

CEILING

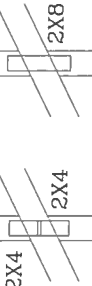
GABLE VERTICAL PLATE SIZES

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

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

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

EXAMPLE:



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

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

10d COMMON (0.148" X 3.5" 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

A10015EN1103, A10015EN1103, A09015EN1103, A08015EN1103, A07015EN1103
A11030EN1103, A10030EN1103, A09030EN1103, A08030EN1103, A07030EN1103

ASCE 7-98 GABLE DETAIL DRAWINGS

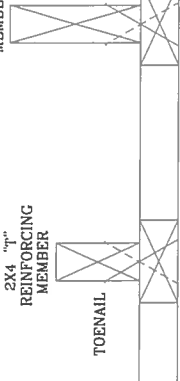
A13015EC1103, A12015EC1103, A11015EC1103, A10015EC1103, A08515EC1103
A13030EC1103, A12030EC1103, A11030EC1103, A10030EC1103, A08530EC1103

ASCE 7-02 GABLE DETAIL DRAWINGS

A13015EE0405, A12015EE0405, A11015EE0405, A10015EE0405, A08515EE0405,
A13030EE0405, A12030EE0405, A11030EE0405, A10030EE0405, A08530EE0405

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

2X6 "T"
REINFORCING
MEMBER



2X4 "T"
REINFORCING
MEMBER

TOENAIL

T-NAIL

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

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

WEB LENGTH INCREASE W/ "T" BRACE

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

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

GABLE VERTICAL = 24" O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "L" BRACE LENGTH = 6' 7"

MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
BRACING. REFER TO BEST QUALITY COMPANY SAFETY MANUAL FOR TRUSS BRACING. TRUSSES ARE NOT TO BE
INSTITUTE, 218 NORTH LEE ST. SUITE 312, ALEXANDRIA, VA 22314, AND VICTOR TRUSS COMPANY, INC., 1000
AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE
FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL
PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED
PRODUCTS, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO
BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING &
BRACING. THE TRUSS IS TO BE USED IN CONFORMANCE WITH THE NATIONAL DESIGN SPECIFICATION
BY AEPAD AND TPI. ALPINE CONTRACTOR PLATES TO BE APPLIED TO EACH FACE OF THE TRUSS AND
40/60 (W/K/H/SS) GALV. STEEL APPLY PLATES TO EACH FACE OF THE 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 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE BY
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

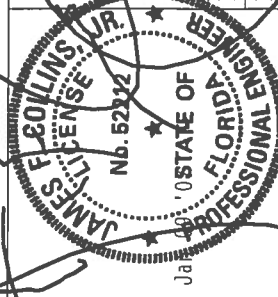
REF LET-IN VERT

DATE 11/1/06

DRWG GBLLETIN1106

-ENG DLJ/KAR

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



ALPINE

ALPINE ENGINEERED PRODUCTS, INC.
POMPANO BEACH, FLORIDA



ELK



**PRESTIQUE®
HIGH DEFINITION®**



RAISED PROFILE™

Prestique Plus High Definition and Prestique Gallery Collection™

Raised Profile

Product size 13"x 39"
Exposure 5"
Pieces/Bundle 16
Bundles/Square 4/98.6 sq.ft.
Squares/Pallet 11

50-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Product size 13"x 38"
Exposure 6"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period;
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Prestique I High Definition

Product size 13"x 39"
Exposure 5"
Pieces/Bundle 16
Bundles/Square 4/98.6 sq.ft.
Squares/Pallet 14

40-year limited warranty period;
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/FLX™

Size: 12"x 12"
Exposure: 8"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Prestique High Definition

Product size 13"x 38"
Exposure 6"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period;
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakeswood, Sablewood, Hickory, Barkwood™, Forest Green, Wedgewood™, Birchwood™, Sandalwood, Gallery Collection: Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

*See actual limited warranty for conditions and limitations.

**Check for product availability.

SPECIFICATIONS

SCOPE: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula FLX.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater; apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes (4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)), use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding capacity for application.

warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed.

PREPARATION OF ROOF DECK: Roof deck to be dry, well-seasoned 1" x 8" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

...length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula FLX with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All

...under. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

**SOUTHEAST &
ATLANTIC OFFICE:**
800.945.5551

CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

ELK 

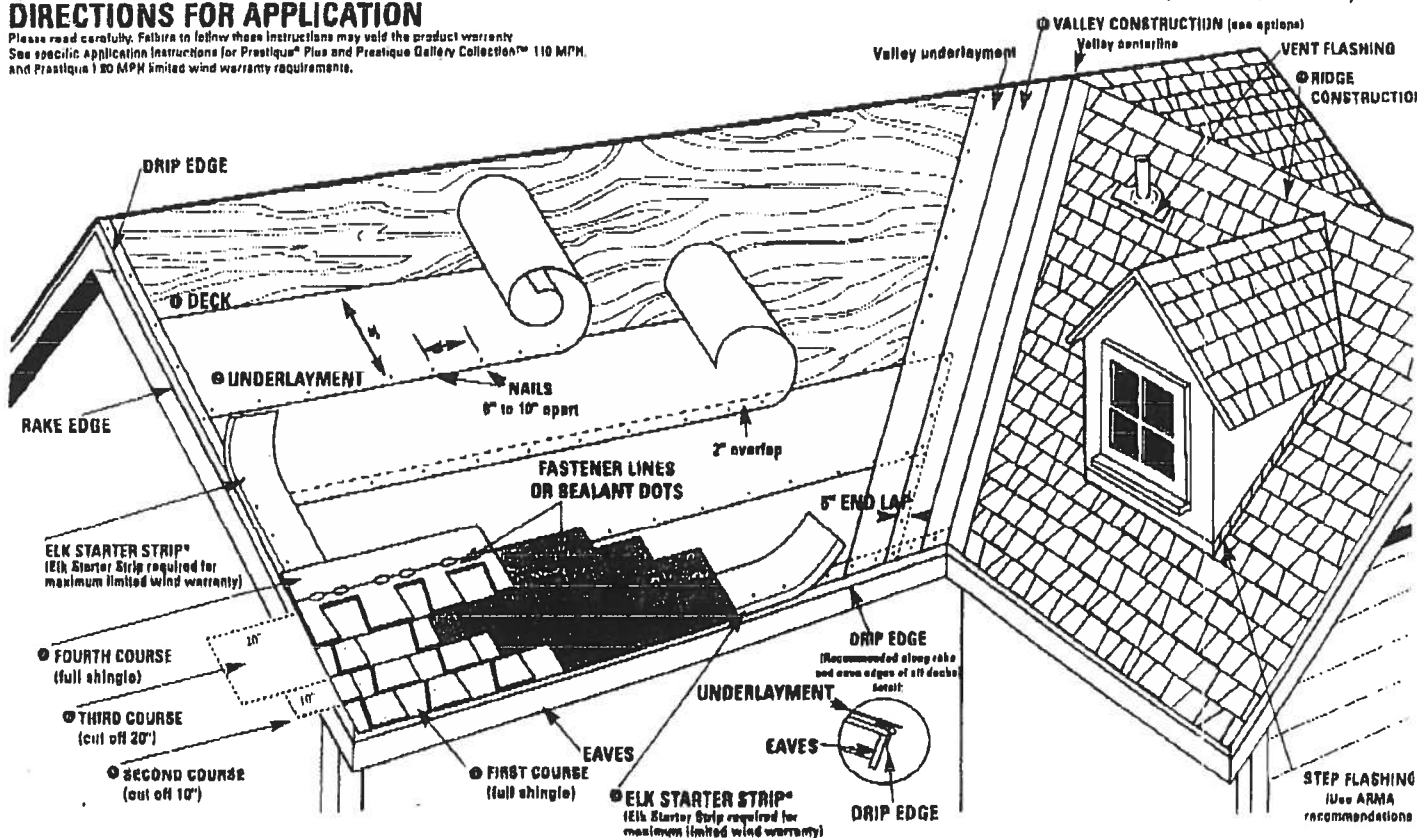
www.elkcorp.com

SSC00T 01 02

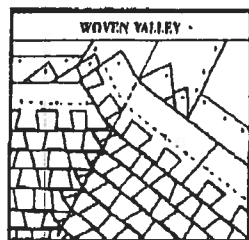
TUSCALOOSA, AL

DIRECTIONS FOR APPLICATION

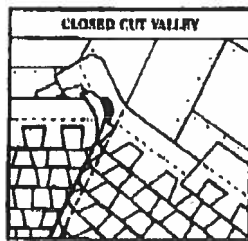
Please read carefully. Failure to follow these instructions may void the product warranty. See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH and Prestique 120 MPH limited wind warranty requirements.



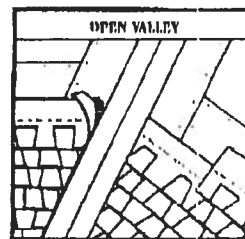
● **VALLEY CONSTRUCTION OPTION** (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual



VALLEY CENTER LINE



VALLEY CENTER LINE



VALLEY CENTER LINE

DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All edges should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

● DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

● UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 18". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered membrane

● FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

● VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

● RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge® with formula FLX™ (See ridge package for installation instructions.)

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

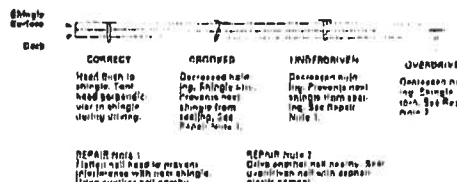
Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" head for new roofs and 1-1/2" for re-roofs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 18-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

**HELP STOP BLOW-OFFS AND CALL-BACKS**

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along - and through - the 'fastener line' or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified. All Prestique and Reized Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples as indicated as well as nails

flashing membrane

For low slopes (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside well of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

① STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

② FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof.

③ SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

④ THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

FASTENERS AND FASTENING

Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 8 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4" of an inch.

CONSTRUCTION

CAUTION TO WHOLESALER: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

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ELK 
www.elkcorp.com

FLORIDA DEPARTMENT OF Community Affairs


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COMMUNITY PLANNING

HOUSING & COMMUNITY DEVELOPMENT

EMERGENCY MANAGEMENT

OFFICE OF THE SECRETARY

Search Criteria

Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	MI Windo
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

Go to Page **GO!**

FL#	Type	Manufacturer	Validat
FL5100	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
FL5104	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
FL5108	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
FL5418	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
FL5438	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
FL5447	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
FL5451	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
FL5483-R1 History	Revision	MI Windows and Doors Category: Exterior Doors Subcategory: Sliding Exterior Door Assemblies	
FL5513	New	MI Windows and Doors Category: Windows	Steven

		Subcategory: Mullions	(717) 7
<u>FL6023</u>	New	MI Windows and Doors Category: Windows Subcategory: Casement	
<u>FL6024</u>	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
<u>FL6028</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
<u>FL6029</u> ✓	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
<u>FL6489</u>	New	MI Windows and Doors Category: Windows Subcategory: Mullions	Steven (717) 7
<u>FL6499</u> ✓	New	MI Windows and Doors Category: Windows Subcategory: Single Hung	
<u>FL6501</u>	New	MI Windows and Doors Category: Windows Subcategory: Double Hung	
<u>FL6502</u>	New	MI Windows and Doors Category: Windows Subcategory: Horizontal Slider	
<u>FL6503</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
<u>FL6679</u>	New	MI Windows and Doors Category: Windows Subcategory: Fixed	
Go to Page GO			

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

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Product Approval Accepts:



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Search Criteria

Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	Masonit
Category	ALL	Subcategory	ALL
Application Status	ALL	Compliance Method	ALL

Search Results - Applications

FL#	Type	Manufacturer	Validated By
FL4242-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4334-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4668-R1 History	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4904	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL4940	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL5114	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
FL5465	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	

		Assemblies	
<u>FL5507</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL5508</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL6015</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL6506-R1 History</u>	Revision	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL6509</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL7050</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	
<u>FL7091</u>	New	Masonite International Category: Exterior Doors Subcategory: Swinging Exterior Door Assemblies	

DCA Administration

**Department of Community Affairs
Florida Building Code Online
Codes and Standards**

2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

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Product Approval Accepts:



25440

Columbia County Building Department Culvert Permit

Culvert Permit No. 000001309

DATE 02/07/2007 PARCEL ID # 15-5S-16-03626-077

APPLICANT LAVONNE COX PHONE 386.755.7200

ADDRESS 456 SE ERMINE STREET LAKE CITY FL 32025

OWNER MICHAEL T. MCCARTHY PHONE 386.961.9153

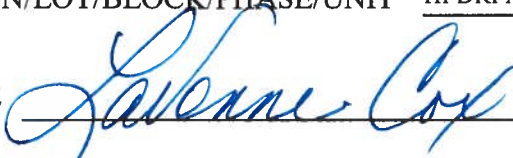
ADDRESS 550 SW GULL DRIVE LAKE CITY FL 32024

CONTRACTOR J. RICHARD COX PHONE 386.755.7200

LOCATION OF PROPERTY 47-S TO PAST COL. CITY TO PICKEREL LN, TR GO TO END, TL ON
GULL DR, LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT HI DRI ACRES 77 2

SIGNATURE



INSTALLATION REQUIREMENTS



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

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

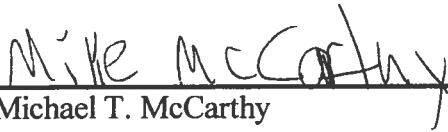
ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION OF THE CULVERT.

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

Amount Paid 25.00

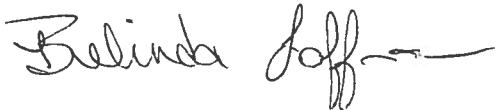


I, Michael T. McCarthy, attest that I will not move into my home located on lot 77 "B" in Hi-Dri Acres Unit 2, until permanent power has been hooked up to the home. After Clay Electric hooks up the permanent power, the building department will then be notified, and the home will then be released to have occupancy.


Michael T. McCarthy

Notarize March 16, 2007 County of Columbia.

Michael T. McCarthy produced Florida Drivers license ID.



BELINDA LAFFOON
NOTARY PUBLIC - STATE OF FLORIDA
COMMISSION # DD301751
EXPIRES 3/26/2008
BONDED THRU 1-888-NOTARY1

25440

29440

Notice of Treatment

12345

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

Address: 536 SE Bay Dr.

City Lake City Phone (386) 752-1703

Site Location: Subdivision N/A

Lot # 114 Block # N/A Permit # 25440

Address 550 SW 11th Dr. Lake City

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

Main Body

Square feet

1056

Linear feet

136

Gallons Applied

3 1/2

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 _____

02-12-07

Date

9:50

Time

R. A. A. A. A.

Print Technician's Name

Remarks: _____

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05 ©

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: 1-18-07

Lot 77 "B" Hi-Die Acres Unit 2

(Address of Treatment or Lot/Block of Treatment)

Lake City, FL 32024

City

Florida Pest Control & Chemical Co.

www.flapest.com

Product to be used: Bora-Care Termiticide (Wood Treatment)

Chemical to be used: 23% Disodium Octaborate Tetrahydrate

Application will be performed onto structural wood at dried-in stage of construction. Bora-Care Termiticide application shall be applied according to EPA registered label directions as stated in the Florida Building Code Section 1861.1.8

(Information to be provided to local building code offices prior to concrete foundation installation.)

COLUMBIA COUNTY OFFICE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 15-5S-16-03626-077

Building permit No. 000025440

Use Classification SFD/UTILITY

Fire: 39.06

Permit Holder J. RICHARD COX

Waste: 117.25

Owner of Building MICHAEL T. MCCARTHY

Total: 156.31

Location: 550 SW GULL DRIVE(HI-DRI ACRES, LOT 77)

Date: 03/20/2007

Harry L. Lick

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)