

DATE 08/07/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000026103

APPLICANT LAVONNE COX PHONE 755-7203
ADDRESS 456 SE ERMINE AVE LAKE CITY FL 32025
OWNER CLINTON FRAME PHONE 752-0337
ADDRESS 890 NW PHILLSBURY DRIVE LAKE CITY FL 32055
CONTRACTOR JAMES COX PHONE 755-7200
LOCATION OF PROPERTY LAKE JEFFERY RD, TR ON BRONCO TERR, LEFT CORNER OF
BRONCO AND PILLSBURY

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 68600.00
HEATED FLOOR AREA 1372.00 TOTAL AREA 1404.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 5/12 FLOOR SLAB
LAND USE & ZONING A-3 MAX. HEIGHT 12
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X PS DEVELOPMENT PERMIT NO.

PARCEL ID 10-3S-16-02055-022 SUBDIVISION PARNELL HILLS
LOT 22 BLOCK PHASE UNIT TOTAL ACRES

RR0066502
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 07-609 BK JH Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE, ONE FOOT ABOVE THE ROAD

SEC. 2.3.1 LEGAL NON-CONFORMING LOT OF RECORD

Check # or Cash 10885

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
Framing Rough-in plumbing above slab and below wood floor date/app. by
Electrical rough-in Heat & Air Duct Peri. beam (Lintel) date/app. by
Permanent power C.O. Final Culvert date/app. by
M/H tie downs, blocking, electricity and plumbing Pool date/app. by
Reconnection Pump pole Utility Pole date/app. by
M/H Pole Travel Trailer Re-roof date/app. by

BUILDING PERMIT FEE \$ 345.00 CERTIFICATION FEE \$ 7.02 SURCHARGE FEE \$ 7.02
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 434.04
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."

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County Building Permit Application

CK# 10885

For Office Use Only Application # 0707-80 Date Received 7/30 By JW Permit # 26103
 Application Approved by - Zoning Official BZK Date 07.08.07 Plans Examiner OKJTH Date 8-1-07
 Flood Zone XPSurveyor Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Comments Section 2.3.1 Legal Non-conforming Lot of Record
☒ NOC ☒ DEH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit Lalonne Cox Fax 386-755-7203
 Address 456 SE Ermine Ave. Suite 101 Lake City, FL 32025 Phone 386-755-7200
 Owners Name Clinton N. Frame Phone 386-752-0337
 911 Address 890 NW Phillipsburg Dr. Lake City, FL 32055
 Contractors Name C+S Construction Inc. Phone 386-755-7200
 Address 456 SE Ermine Ave. Lake City, FL 32025
 Fee Simple Owner Name & Address Clinton N. Frame
 Bonding Co. Name & Address N/A
 Architect/Engineer Name & Address Nick Geisler 1758 NW Brown St. Lake City, FL 32025
 Mortgage Lenders Name & Address USDA / SHIP 921 W. Duval St. Lake City, FL 32055
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
 Property ID Number 10-35-16-02055-022 Estimated Cost of Construction 90,000.00
 Subdivision Name Parnell Hills Lot 22 Block Unit 1 Phase
 Driving Directions take Lake Jefferys Road to NW Bronco Terr turn Right Go to end of Street. Lot 22 on corner of Bronco + Pillsbury
 Type of Construction New Residential Number of Existing Dwellings on Property None
 Total Acreage 1.00 Lot Size 83X214 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 80' Side 181' Side 60' Rear 38'
 Total Building Height 14' Number of Stories One Heated Floor Area 1372 Roof Pitch 5/12
 TOTAL 1404

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 Authorized Person by Notarized Letter

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this 20th day of July 2007.
 Personally known ☒ or Produced Identification

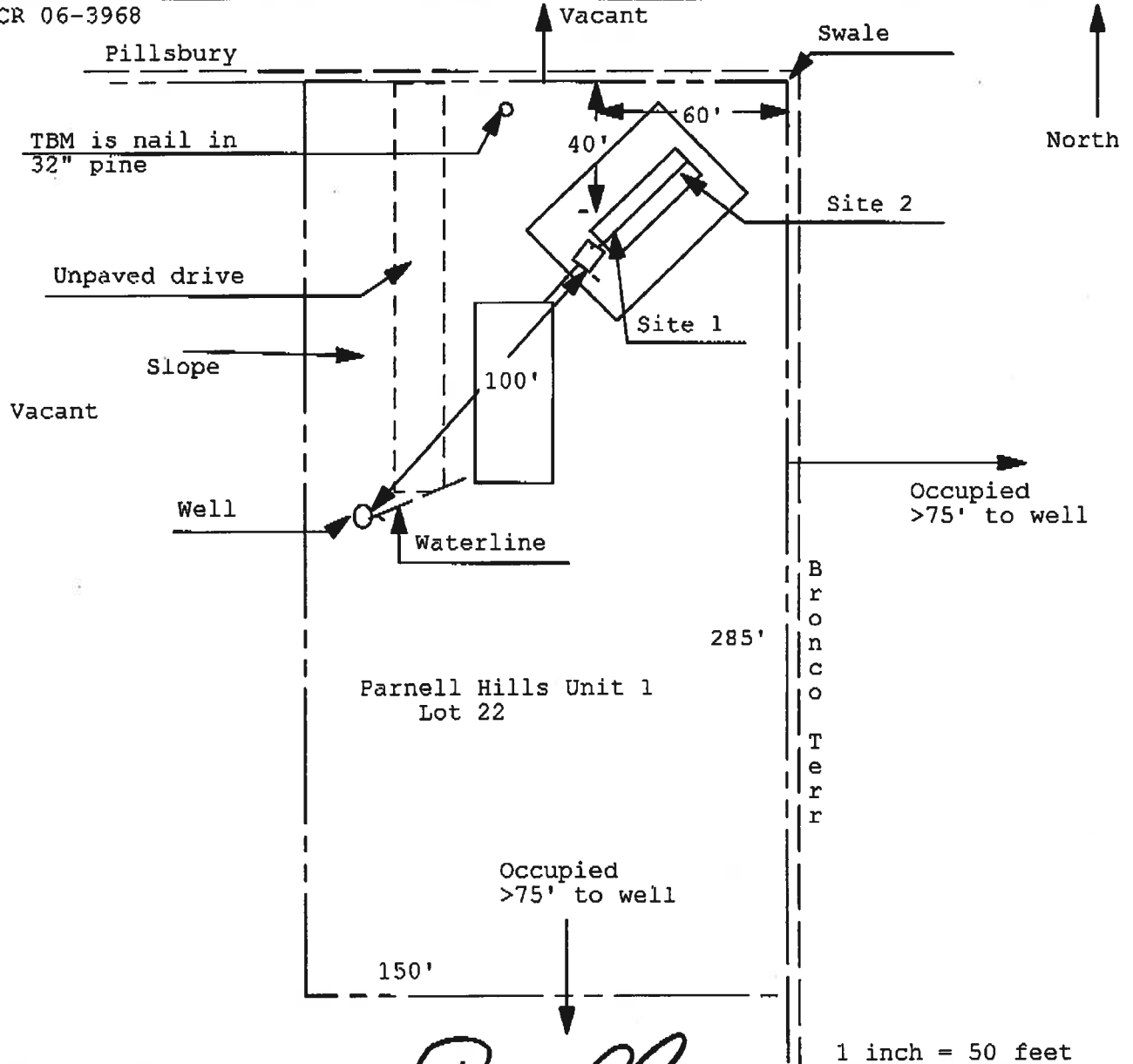
James R. Cox
 Contractor Signature
 Contractors License Number PR 0066502
 Competency Card Number 5476
 NOTARY STAMP/SEAL
 BELINDA LAFFOON
 NOTARY PUBLIC - STATE OF FLORIDA
 COMMISSION # DD301751
 EXPIRES 3/26/2008
Belinda Laffoon
 Notary Signature

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

Permit Application Number: 07-0609

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

FRAME/CR 06-3968



Site Plan Submitted By Paul L. [Signature] Date 4/27/07
Plan Approved ☒ Not Approved ☐ Date 8/6/07

By Mn A 2n Columbia CPHU

Notes: _____

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: 7/18/2007 DATE ISSUED: 7/19/2007

ENHANCED 9-1-1 ADDRESS:

890 NW PILLSBURY
LAKE CITY FL 32055

DR

PROPERTY APPRAISER PARCEL NUMBER:

10-3S-16-02055-022

Remarks:

LOT 22 PARNELL HILLS S/D UNIT 1

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

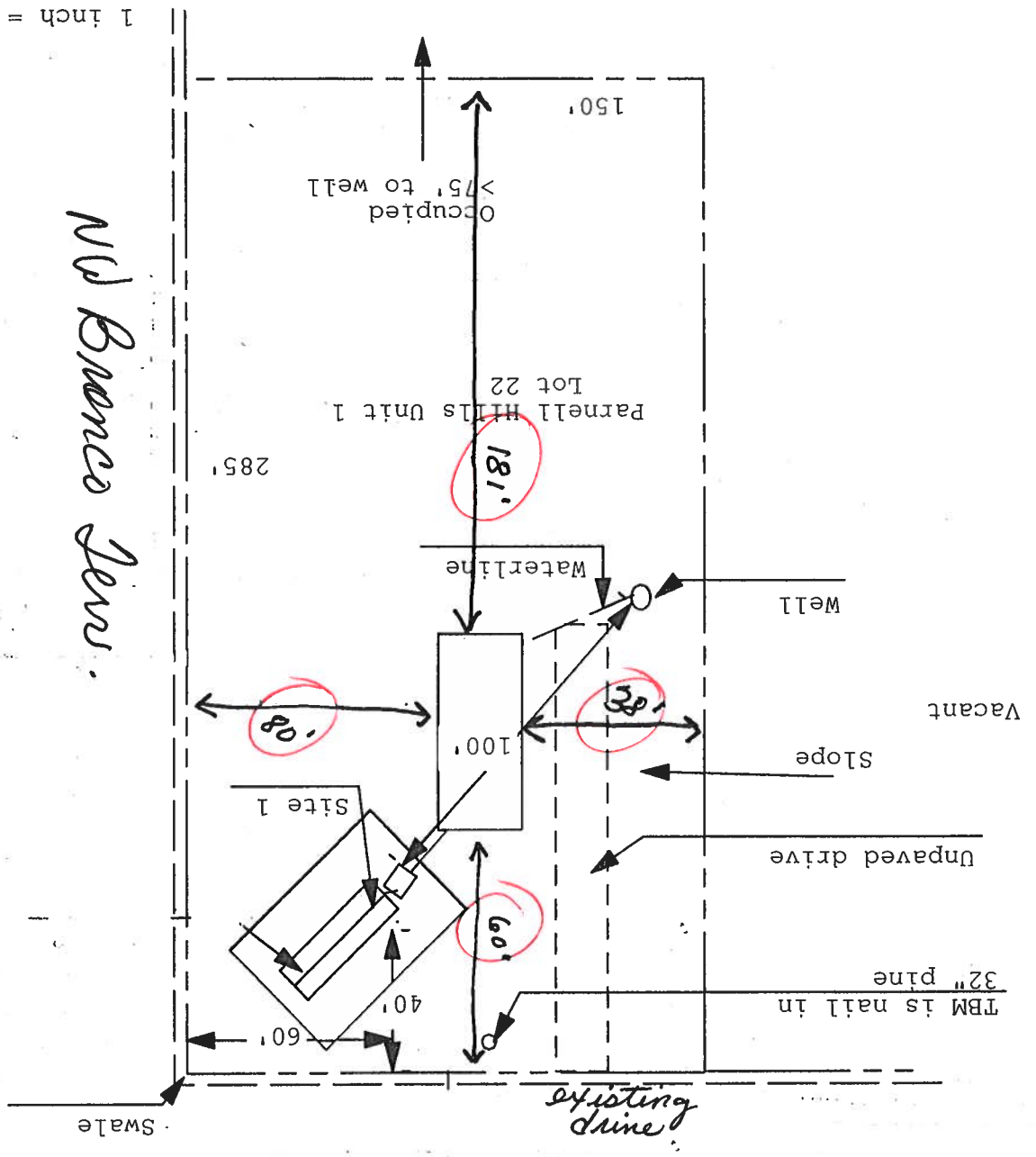
JUL 19 2007

911Addressing/GIS Dept

1 inch = 50 feet

No Branches

North



NW Pillsbury Drive

Prepared by and return to:

Kathryn Lilly

Employee

Haile Title Company, LLC

219 SE Baya Dr.

Lake City, FL 32025

386-754-6600

File Number: LC07-028

Will Call No.:

Inst:200712015099 Date:7/6/2007 Time:4:20 PM

Doc Stamp-Deed:175.00

J. A. DC, P. DeWitt Cason, Columbia County Page 1 of 2

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this 6th day of July, 2007 between **Richard G. Cooper and Paula W. Cooper, husband and wife** whose post office address is **P.O. Box 623, Branford, FL 32008**, grantor, and **Clinton N. Frame, a single person** whose post office address is **182 SW Mikes Glen, Lake City, FL 32024**, grantee:

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Columbia County, Florida** to-wit:

Lot 22 of PARNELL HILLS UNIT 1, a subdivision, according to the Plat thereof as recorded in Plat Book 4, Page(s) 16, of the Public Records of Columbia County, Florida.

Parcel Identification Number: 10-3S-16-02055-022

Subject to taxes for 2007 and subsequent years; covenants, conditions, restrictions, easements, reservations and limitations of record, if any.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to **December 31, 2006**.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

[Signature]
Witness Name: GREEN A. LILLY

Richard G. Cooper (Seal)
Richard G. Cooper

[Signature]
Witness Name: KATHRYN LILLY

Paula W. Cooper (Seal)
Paula W. Cooper

State of Florida
County of Columbia

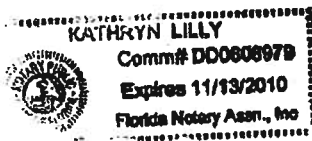
The foregoing instrument was acknowledged before me this 21 day of May, 2007 by Richard G. Cooper and Paula W. Cooper, who ☐ are personally known or ☒ have produced a driver's license as identification.

[Notary Seal]

[Signature]
Notary Public

Printed Name: KATHRYN LILLY

My Commission Expires: 11/13/10



NOTICE OF COMMENCEMENT

To Whom It May Concern:

The undersigned hereby informs you that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is stated in this NOTICE:

DESCRIPTION OF PROPERTY:

Lot 22 of PARNELL HILLS UNIT 1, a subdivision, according to the Plat thereof as recorded in Plat Book 4, Page(s) 16, of the Public Records of Columbia County, Florida.

GENERAL DESCRIPTION OF IMPROVEMENTS:

OWNER AND ADDRESS: Clinton N. Frame
182 SW Mikes Glen
Lake City, FL 32024

OWNER'S INTEREST IN SITE OF THE IMPROVEMENT: Construction of dwelling

FEE SIMPLE TITLE HOLDER (if other than owner): Name and Address:

CONTRACTOR AND ADDRESS: C & S Construction
456 SE Ermine #101
Lake City, FL 32025

SURETY (if any):
ADDRESS:

AMOUNT OF BOND \$

NAME AND ADDRESS OF PERSON WITHIN THE STATE OF FLORIDA DESIGNATED BY OWNER UPON WHOM NOTICES OR OTHER DOCUMENTS MAY BE SERVED:

In addition to owner, owner designates the following identity to receive a copy of the Lender's Notice as provided in Section 713.06 (2) (b) Florida Statutes:

(Insert Lender's Name and Address):

USDA, Rural Development
10094 US 129 S
Live Oak, FL 32060

Owner-Borrower

Owner-Borrower

STATE OF FLORIDA

COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 6 day of July, 2007, by Clinton N. Frame, Owner(s), who presented the following identification _____, and who did not take an oath.

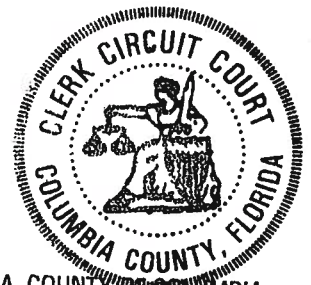
NOTARY SEAL

My Commission Expires:

This Instrument was Prepared By:
Haile Title Company, LLC
219 SE Baya Dr.
Lake City, FL 32025



FL Form 424-6 (Rev. 3/20/95)



STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS

By Sharon Seagle
Deputy Clerk

Date 07-06-2007

Inst:200712015102 Date:7/6/2007 Time:4:20 PM
P. DeWitt Cason, Columbia County Page 1 of 1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	CnS_58EX	Builder:	C&S CONSTRUCTION
Address:	-	Permitting Office:	Columbia
City, State:	COLUMBIA COUNTY, FL	Permit Number:	26103
Owner:	C&S 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: 23.8 kBtu/hr SEER: 12.00
3. Number of units, if multi-family	1	b. N/A	
4. Number of Bedrooms	3	c. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1329.94 ft²	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 25.6 kBtu/hr HSPF: 8.00
a. U-factor:	Description Area	b. N/A	
(or Single or Double DEFAULT) 7a. (Dble Default)	85.0 ft²	c. N/A	
b. SHGC:			
(or Clear or Tint DEFAULT) 7b. (Clear)	85.0 ft²	14. Hot water systems	
8. Floor types		a. Electric Resistance	Cap: 50.0 gallons EF: 0.93
a. Slab-On-Grade Edge Insulation	R=0.0, 160.3(p) ft	b. N/A	
b. N/A		c. Conservation credits	
c. N/A		(HR-Heat recovery, Solar	
9. Wall types		DHP-Dedicated heat pump)	
a. Frame, Wood, Exterior	R=13.0, 1222.6 ft²	15. HVAC credits	CF, _____
b. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		HF-Whole house fan,	
d. N/A		PT-Programmable Thermostat,	
e. N/A		MZ-C-Multizone cooling,	
10. Ceiling types		MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 1389.9 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 130.0 ft		
b. N/A			

Glass/Floor Area: 0.09

Total as-built points: 18434

Total base points: 22360

PASS

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

PREPARED BY: [Signature]

DATE: 27 July 2017

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.

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: -, COLUMBIA COUNTY, FL,

PERMIT #:

6A-24 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: -, COLUMBIA COUNTY, FL,

PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X	Credit = Total Multiplier
3		2635.00	7905.0	50.0	0.93	3		1.00	2606.67	1.00 7820.0
As-Built Total:										7820.0

CODE COMPLIANCE STATUS												
BASE							AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
7281		7174		7905		22360	4225		6389		7820	18434

PASS

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

ADDRESS: -, COLUMBIA COUNTY, FL,

PERMIT #:

BASE				AS-BUILT									
Winter Base Points: 11434.2				Winter As-Built Points: 13006.6									
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio	X	Duct Multiplier (DM x DSM x AHU)	X	System Multiplier	X	Credit Multiplier	= Heating Points
11434.2		0.6274	7173.8	(sys 1: Electric Heat Pump 25600 btuh ,EFF(8.0) Ducts:Unc(S),Con(R),Int(AH),R6.0 13006.6 1.000 (1.060 x 1.169 x 0.93) 0.426 1.000 6389.0 13006.6 1.00 1.152 0.426 1.000 6389.0									

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: -, COLUMBIA COUNTY, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC Overhang Ormt Len Hgt Area X WPM X WOF = Point							
.18	1329.9	12.74	3049.8	Double, Clear	S	2.0	4.8	40.0	13.30	1.43	762.1
				Double, Clear	S	7.0	4.8	30.0	13.30	3.24	1291.3
				Double, Clear	E	2.0	2.8	6.0	18.79	1.20	134.9
				Double, Clear	N	2.0	4.8	15.0	24.58	1.01	371.2
				Double, Clear	N	2.0	2.8	9.0	24.58	1.01	224.3
				Double, Clear	N	2.0	4.8	20.0	24.58	1.01	495.0
				As-Built Total: 120.0 3278.8							
WALL TYPES Area X BWPM = Points				Type R-Value Area X WPM = Points							
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1222.6	3.40		4157.0
Exterior	1222.6	3.70	4523.8								
Base Total: 1222.6 4523.8				As-Built Total: 1222.6 4157.0							
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				As-Built Total: 40.0 492.0							
CEILING TYPESArea X BWPM = Points				Type R-Value Area X WPM X WCM = Points							
Under Attic	1329.9	2.05	2726.4	Under Attic			30.0	1389.9	2.05 X 1.00		2849.3
Base Total: 1329.9 2726.4				As-Built Total: 1389.9 2849.3							
FLOOR TYPES Area X BWPM = Points				Type R-Value Area X WPM = Points							
Slab	160.3(p)	8.9	1426.9	Slab-On-Grade Edge Insulation			0.0	160.3(p)	18.80		3014.2
Raised	0.0	0.00	0.0								
Base Total: 1426.9				As-Built Total: 160.3 3014.2							
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
1329.9 -0.59 -784.7				1329.9 -0.59 -784.7							

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

ADDRESS: -, COLUMBIA COUNTY, FL,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 17067.1				Summer As-Built Points: 13860.0						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
17067.1	0.4266		7280.8	(sys 1: Central Unit 23800 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Con(R),Int(AH),R6.0(INS) 13860 1.00 (1.08 x 1.147 x 0.91) 0.284 0.950 4225.4 13860.0 1.00 1.128 0.284 0.950 4225.4						

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

ADDRESS: -, COLUMBIA COUNTY, FL,

PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ormt Len Hgt		Area X SPM X	SOF = Points				
.18	1329.9	20.04	4797.4	Double, Clear	S	2.0	4.8	40.0	35.87	0.71	1023.8	
				Double, Clear	S	7.0	4.8	30.0	35.87	0.48	512.7	
				Double, Clear	E	2.0	2.8	6.0	42.06	0.61	154.0	
				Double, Clear	N	2.0	4.8	15.0	19.20	0.87	249.2	
				Double, Clear	N	2.0	2.8	9.0	19.20	0.77	132.5	
				Double, Clear	N	2.0	4.8	20.0	19.20	0.87	332.2	
				As-Built Total:				120.0		2404.4		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM	= Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1222.6	1.50	1834.0			
Exterior	1222.6	1.70	2078.5									
Base Total:		1222.6	2078.5	As-Built Total:				1222.6	1834.0			
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	1329.9	1.73	2300.8	Under Attic	30.0		1389.9	1.73 X 1.00	2404.5			
Base Total:		1329.9	2300.8	As-Built Total:				1389.9	2404.5			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM	= Points				
Slab	160.3(p)	-37.0	-5932.2	Slab-On-Grade Edge Insulation	0.0		160.3(p)	-41.20	-6605.6			
Raised	0.0	0.00	0.0									
Base Total:			-5932.2	As-Built Total:				160.3	-6605.6			
INFILTRATION Area X BSPM = Points								Area X SPM	= Points			
	1329.9	10.21	13578.7					1329.9	10.21	13578.7		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.6

The higher the score, the more efficient the home.

C&S CONSTRUCTION, -, COLUMBIA COUNTY, FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 23.8 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 (ft ²)	1329.94 ft ²		
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: 25.6 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 85.0 ft ²		HSPF: 8.00
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 85.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 160.3(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1222.6 ft ²	(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=30.0, 1389.9 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Con. AH: Interior	Sup. R=6.0, 130.0 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.*

Residential System Sizing Calculation

Summary

C&S CONSTRUCTION
COLUMBIA COUNTY, FL

Project Title:
CnS_58EX

Code Only
Professional Version
Climate: North

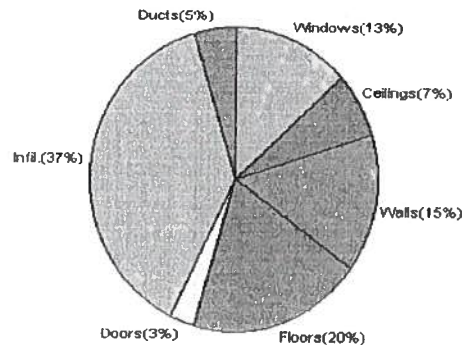
28-Feb-07

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	25574 Btuh	Total cooling load calculation	23798 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	100.1 25600	Sensible (SHR = 0.75)	119.1 17850
Heat Pump + Auxiliary(8.0kW)	206.9 52904	Latent	67.6 5950
		Total (Electric Heat Pump)	100.0 23800

WINTER CALCULATIONS

Winter Heating Load (for 1330 sqft)

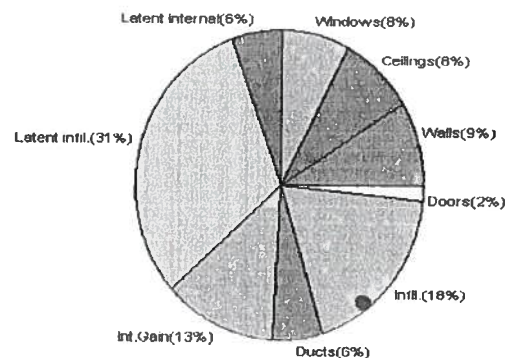
Load component		Load
Window total	120 sqft	3396 Btuh
Wall total	1223 sqft	3790 Btuh
Door total	40 sqft	718 Btuh
Ceiling total	1390 sqft	1807 Btuh
Floor total	160 ft	5066 Btuh
Infiltration	223 cfm	9579 Btuh
Subtotal		24356 Btuh
Duct loss		1218 Btuh
TOTAL HEAT LOSS		25574 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1330 sqft)

Load component		Load
Window total	120 sqft	1889 Btuh
Wall total	1223 sqft	2127 Btuh
Door total	40 sqft	399 Btuh
Ceiling total	1390 sqft	1974 Btuh
Floor total		0 Btuh
Infiltration	214 cfm	4240 Btuh
Internal gain		3000 Btuh
Subtotal(sensible)		13629 Btuh
Duct gain		1363 Btuh
Total sensible gain		14992 Btuh
Latent gain(infiltration)		7426 Btuh
Latent gain(internal)		1380 Btuh
Total latent gain		8806 Btuh
TOTAL HEAT GAIN		23798 Btuh



EnergyGauge® System Sizing based on ACCA Manual J

PREPARED BY: *[Signature]*

DATE: *27 Feb 2007*

System Sizing Calculations - Winter

Residential Load - Component Details

C&S CONSTRUCTION

Project Title:

Code Only

COLUMBIA COUNTY, FL

CnS_58EX

Professional Version

Climate: North

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

28-Feb-07

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	40.0	28.3	1132 Btuh
2	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
3	2, Clear, Metal, DEF	W	6.0	28.3	170 Btuh
4	2, Clear, Metal, DEF	S	15.0	28.3	424 Btuh
5	2, Clear, Metal, DEF	S	9.0	28.3	255 Btuh
6	2, Clear, Metal, DEF	S	20.0	28.3	566 Btuh
Window Total			120		3396 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1223	3.1	3790 Btuh
Wall Total			1223		3790 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		40	17.9	718 Btuh
Door Total			40		718Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1390	1.3	1807 Btuh
Ceiling Total			1390		1807Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	160.3 ft(p)	31.6	5066 Btuh
Floor Total			160		5066 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	10972(sqft)	73	3144 Btuh
	Mechanical			150	6435 Btuh
Infiltration Total				223	9579 Btuh

Totals for Heating	Subtotal	24356 Btuh
	Duct Loss(using duct multiplier of 0.05)	1218 Btuh
	Total Btuh Loss	25574 Btuh

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

(Frame types - metal, wood or insulated metal)

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

(HTM - ManualJ Heat Transfer Multiplier)

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

System Sizing Calculations - Summer

Residential Load - Component Details

C&S CONSTRUCTION

Project Title:

Code Only

COLUMBIA COUNTY, FL

CnS_58EX

Professional Version

Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

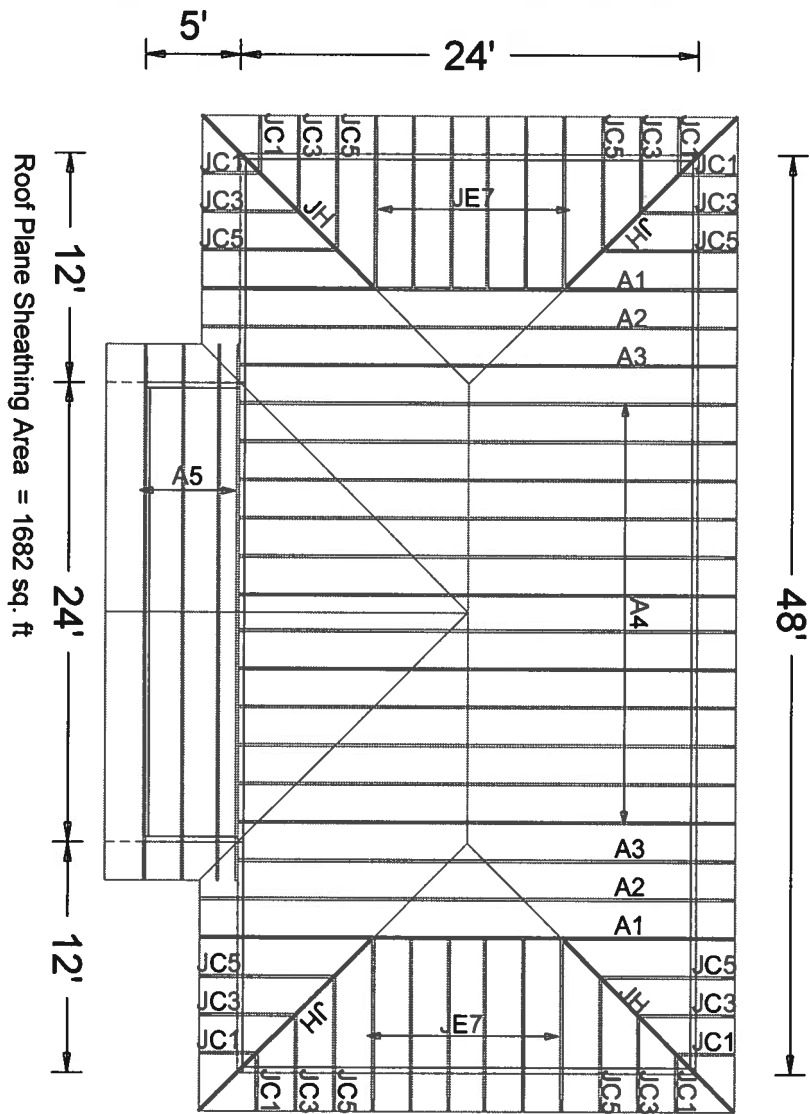
28-Feb-07

Window	Type	Len	Hgt	Window Area(sqft)			HTM		Load	
	Panes/SHGC/U/InSh/ExSh Omt			Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, DEF, B, N	N	2	4.83	40.0	0.0	40.0	15	15	600 Btuh
2	2, Clear, DEF, B, N	N	7	4.83	30.0	0.0	30.0	15	15	450 Btuh
3	2, Clear, DEF, B, N	W	2	2.83	6.0	3.1	2.9	15	46	179 Btuh
4	2, Clear, DEF, B, N	S	2	4.83	15.0	15.0	0.0	15	24	225 Btuh
5	2, Clear, DEF, B, N	S	2	2.83	9.0	9.0	0.0	15	24	135 Btuh
6	2, Clear, DEF, B, N	S	2	4.83	20.0	20.0	0.0	15	24	300 Btuh
Window Total					120					1889 Btuh
Walls 1	Type	R-Value			Area		HTM		Load	
	Frame - Exterior	13.0			1222.6		1.7		2127 Btuh	
	Wall Total				1222.6				2127 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	30.0			1389.9		1.4		1974 Btuh	
	Ceiling Total				1389.9				1974 Btuh	
Floors 1	Type	R-Value			Size		HTM		Load	
	Slab-On-Grade Edge Insulation	0.0			160.3 ft(p)		0.0		0 Btuh	
	Floor Total				160.3				0 Btuh	
Infiltration	Type	ACH			Volume		CFM=		Load	
	Natural	0.35			10972		64.1		1270 Btuh	
	Mechanical						150		2970 Btuh	
	Infiltration Total						214		4240 Btuh	

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

Totals for Cooling	Subtotal	13629 Btuh
	Duct gain(using duct multiplier of 0.10)	1363 Btuh
	Total sensible gain	14992 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	7426 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
TOTAL GAIN		23798 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)
(Omnt - compass orientation)



W.B. Howland Truss Co.
P.O. Box 700
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (fax)

ROOF PITCH: 4/12
CLG PITCH: FLAT
OVERHANG: 2'
LOADING: 40 PSF/SHINGLE
WIND LOAD: 110 MPH
EXT WALLS: 2x4 FRAMING
DATE: 6-7-07

Job Name: JONES **FRAME**
Customer: C&S CONSTRUCTION
Designer: Fill in later

JOB NO:
4634

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: IT80215-Z0207092137

Truss Fabricator: W.B. Howland *Frame*
Job Identification: 4634-~~JONES~~ /C&S CONSTRUCTION -- LAKE CITY, FL
Truss Count: 10
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.25.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
the seal date per section 61G15-31.003(5a) of the FAC
Address:
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

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: -

#	Ref	Description	Drawing#	Date
1	56062--A5		07158014	06/07/07
2	56063--A4		07158016	06/07/07
3	56064--A3		07158012	06/07/07
4	56065--A2		07158013	06/07/07
5	56066--A1		07158015	06/07/07
6	56067--JH		07158015	06/07/07
7	56068--JE7		07158017	06/07/07
8	56069--JC5		07158013	06/07/07
9	56070--JC3		07158014	06/07/07
10	56071--JC1		07158016	06/07/07



Seal Date: 06/07/2007

-Truss Design Engineer-

James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844



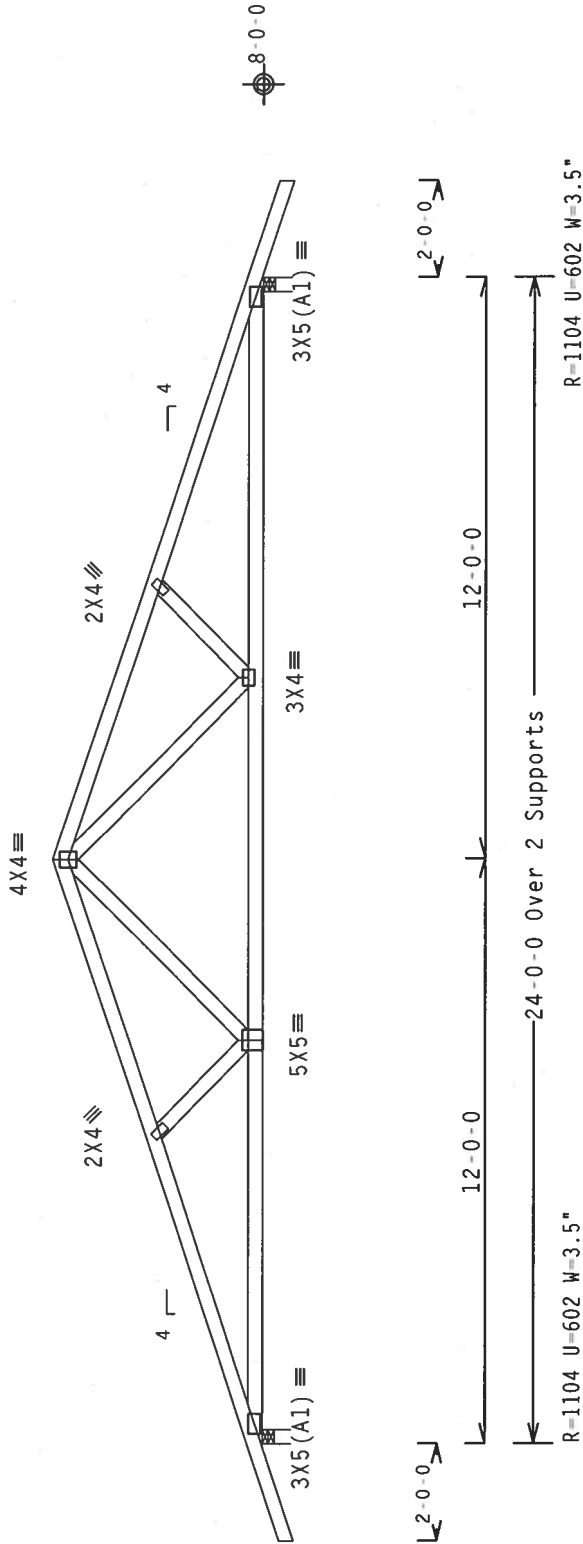
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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

Components and cladding wind pressures considered for uplift callouts.

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

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

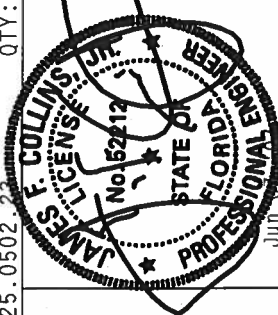
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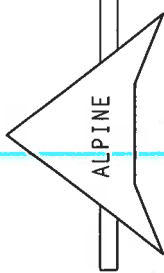
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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 BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITM BCG CORP. CONNECTOR PLATES ARE MADE OF 2018/1602 (N/A/SS/A) ASTM A563 GRADE 40/50 (N/A/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.



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"

REF	R215-- 56062
DATE	06/07/07
DRW	HCUSR215 07158014
HC-ENG	JK/WHK
SEQN-	153419
FROM	CDM
JREF-	1T80215_Z02



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

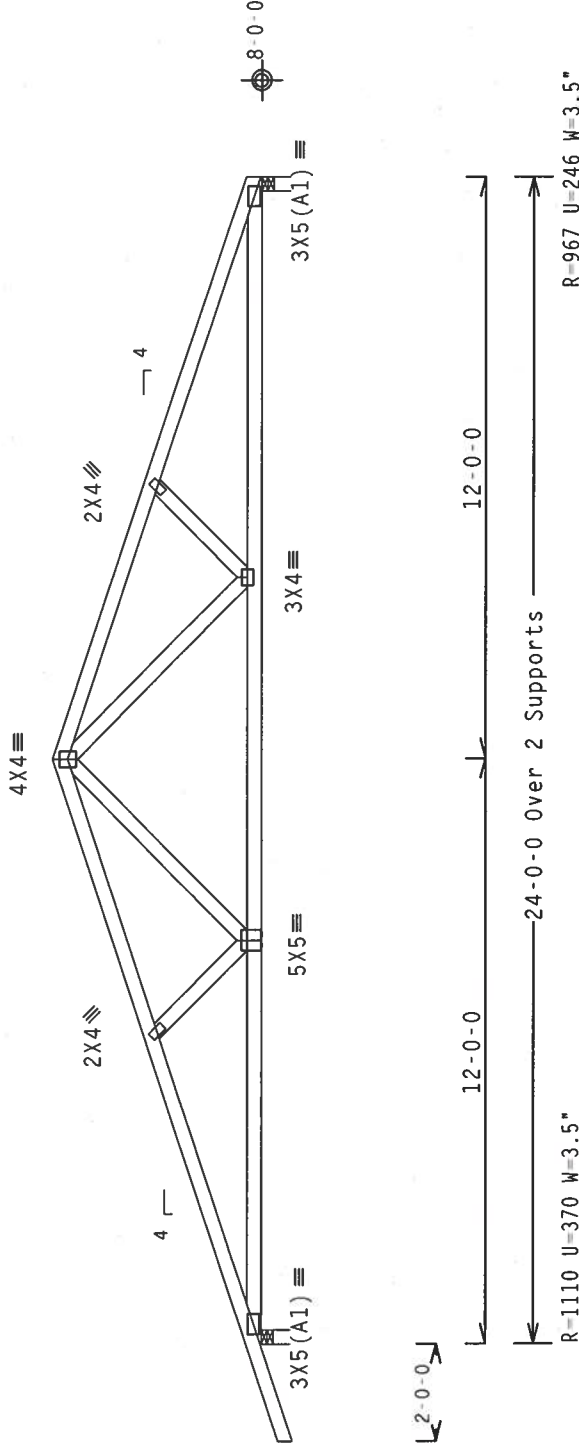
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.

Components and cladding wind pressures considered for uplift callouts.

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

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



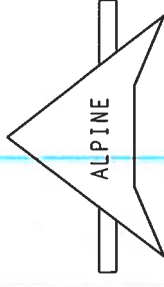
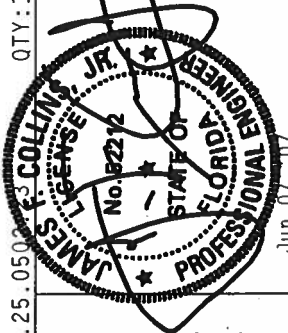
Design Crit: TPI-2002(STD)/FBC

Scale = .25"/Ft.

PLT TYP. Wave	QTY: 12	FL/-5/-/-/R/-	TC LL	20.0 PSF	REF	R215-- 56063
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			BC LL	0.0 PSF	HC-ENG	JK/WHK *
			TOT.LD.	40.0 PSF	SEQN-	153415
			DUR.FAC.	1.25	FROM	CDM
			SPACING	24.0"	JREF-	1T80215_Z02

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MTCA (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. 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. BY AEP41 AND TPI-1. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. FOR STEEL TRUSSES AND JOINTS, 10TH EDITION, 1989, AND THE NATIONAL SPECIFICATION FOR STEEL TRUSSES AND JOINTS, 10TH EDITION, 1989. A SEAL OR THIS ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL OR 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.



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Haines City, FL 33844
FL Certificate of Authorization # 567

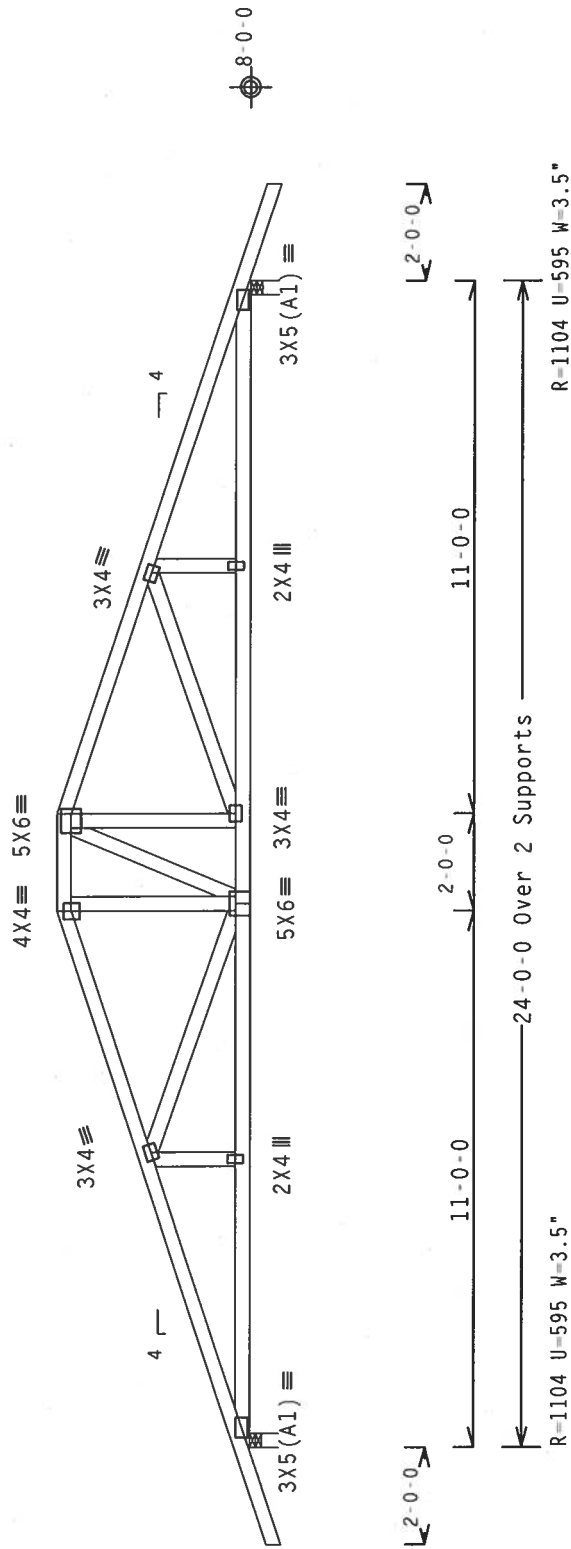
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

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

Components and cladding wind pressures considered for uplift callouts.

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

The overall height of this truss excluding overhang is 3-11-15.

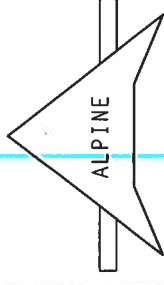


Design Crit: TPI-2002(STD)/FBC

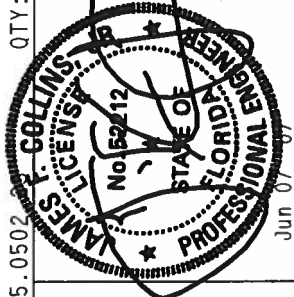
PLT TYP. Wave QTY: 2 FL/-5/-/-/R/- Scale = .25"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MTCA (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.

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ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567



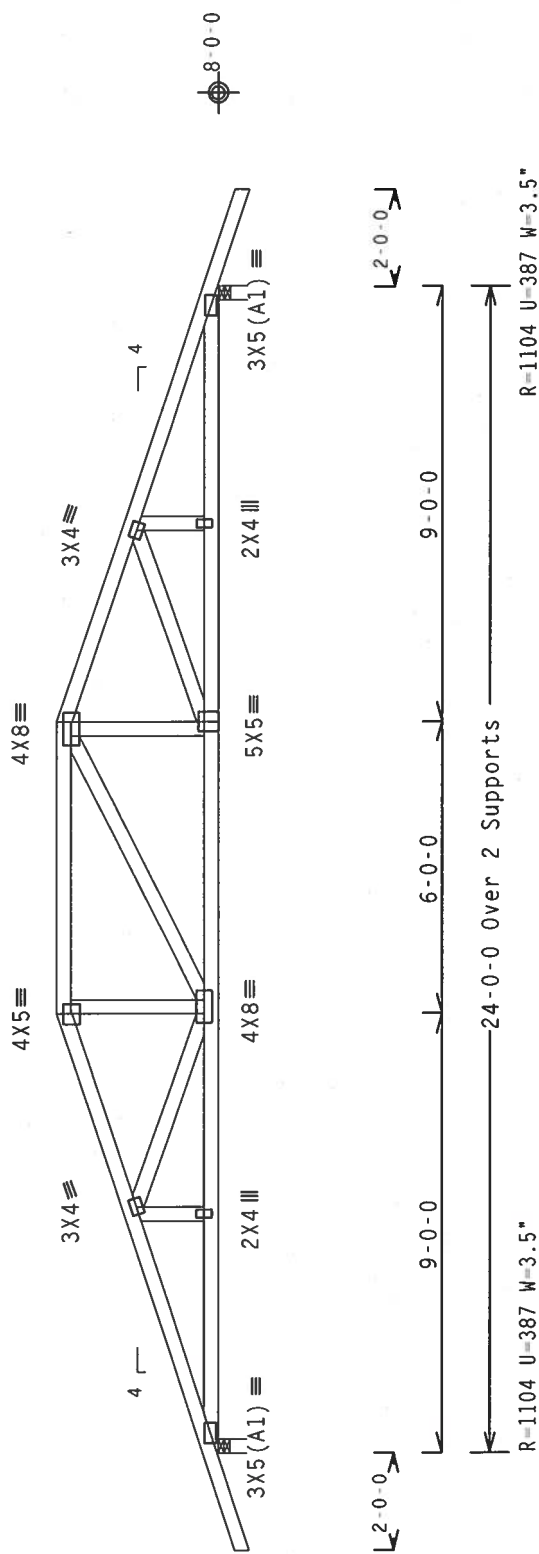
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JC DL	10.0 PSF	DATE	06/07/07	
BC DL	10.0 PSF	DRW	HCUSR215	07158012
BC LL	0.0 PSF	HC-ENG	JK/WHK	*
TOT.LD.	40.0 PSF	SEQN-	153411	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1T80215_Z02	

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, 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.

Components and cladding wind pressures considered for uplift callouts.
The overall height of this truss excluding overhang is 3-3-15.

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



Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave	QTY: 2	FL/-/5/-/-/R/-	Scale = .25"/Ft.
ALPINE ITW Building Components Group, Inc. Haines City, FL 33844 FL Certificate of Authorization # 567 James F. Collins Professional Engineer No. 82212 State of Florida Jun 07/07 FLORIDA STATE OF PROFESSIONAL ENGINEER LICENSE No. 82212 Jun 07/07	TC LL	20.0 PSF	REF R215-- 56065
	TC DL	10.0 PSF	DATE 06/07/07
	BC DL	10.0 PSF	DRW HCUR215 07158013
	BC LL	0.0 PSF	HC-ENG JK/WHK *
	TOT.LD.	40.0 PSF	SEQN- 153404
DUR.FAC.		1.25	FROM CDM
SPACING		24.0"	JREF- 1T80215_Z02

The diagram illustrates a bridge truss structure with the following components:

- Members:**
 - Top Chords: Labeled as 8X8.
 - Bottom Chords: Labeled as 7X8.
 - Vertical Members: Labeled as 3X4.
 - Diagonal Members: Labeled as 2X4.
- Supports:**
 - Left Support: Labeled as 4X8(A1).
 - Right Support: Labeled as 4X8(A1).
- Dimensions:**
 - Span Length: 24-0-0 Over 2 Supports.
 - Segment Lengths: 7-0-0, 10-0-0, 7-0-0.
- Other Labels:**
 - R=2008 U=209 W=3.5"
 - R=2008 U=209 W=3.5"

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

Wind reactions based on MWFRS pressures.

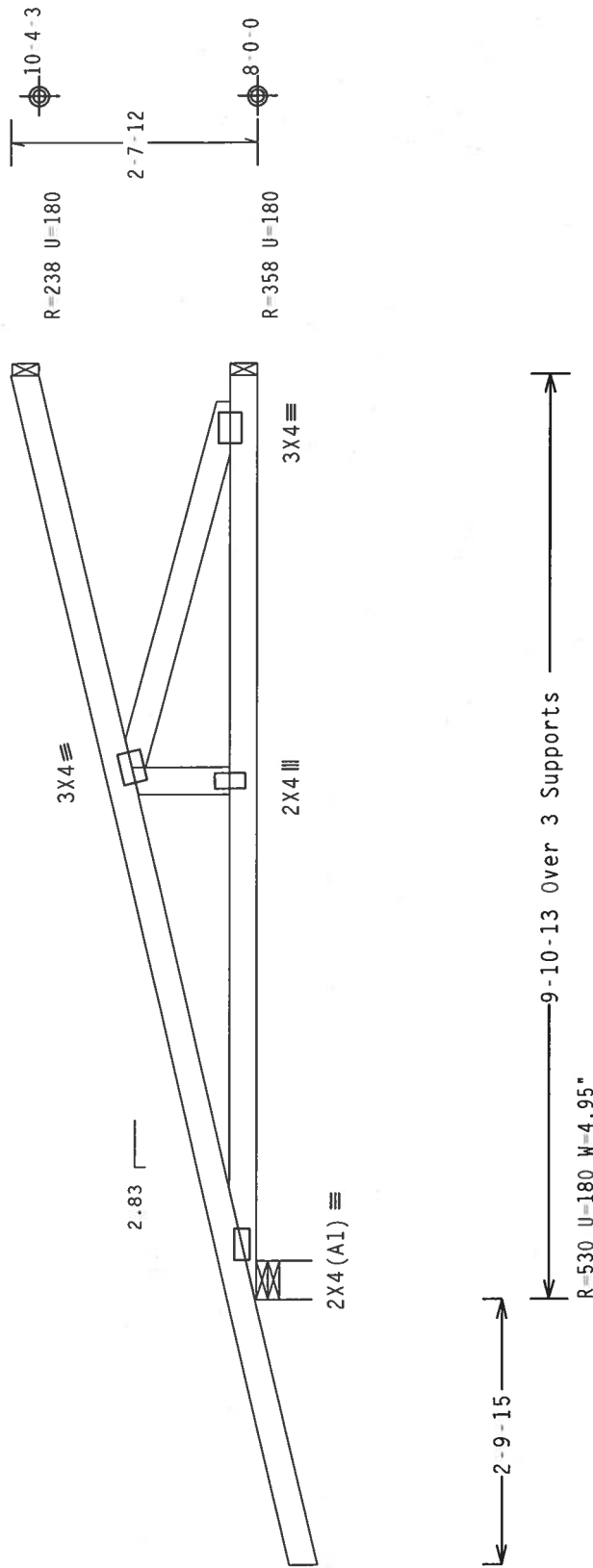
Deflection meets L/240 live and L/180 total load.

Top chord overhangs have been checked only for loads as indicates. Overhangs not checked for man loads or long-term deflection.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg,
Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf,
wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.18

Hipjack supports 7-0-0 setback jacks with no webs.

The overall height of this truss excluding overhang is 2-7-12.



Design Crit: TPI-2002(STD)/FBC

Scale = .5"/Ft.

 $Cq/RT=1.00(1.25)/10(0)$ 7.25.0502

Scale = .5" / Ft.

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

QTY: 4

 $25)/10(0) \quad 7.25.09$ $Cq/RT=1.00(1)$

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ryp. Wave

WARNING THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48051, MI 48051-1571) FOR TRUSS PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

DESIGN: 17H BCG
DRAWING NO.: 17H-0002-SEC.3
CONNECTIONS: 17H-0002-SEC.3
CONNECTOR PLATES ARE MADE OF 20/18/16GA. U/S/E/KVA (ASTM A653 GRADE 40/60 C.V.) STEEL - APPROX. 17H-0002-SEC.3
PLATES TO EACH FACE OF TRUSS AND OTHERWISE NOTED ON THIS DESIGN. POSITION PER DRAWINGS 160A-Z.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TP11-2002 SEC.3.
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/TP11 SEC. 2.

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Haines City, FL 33844
FL Certificate of Authorization # 567

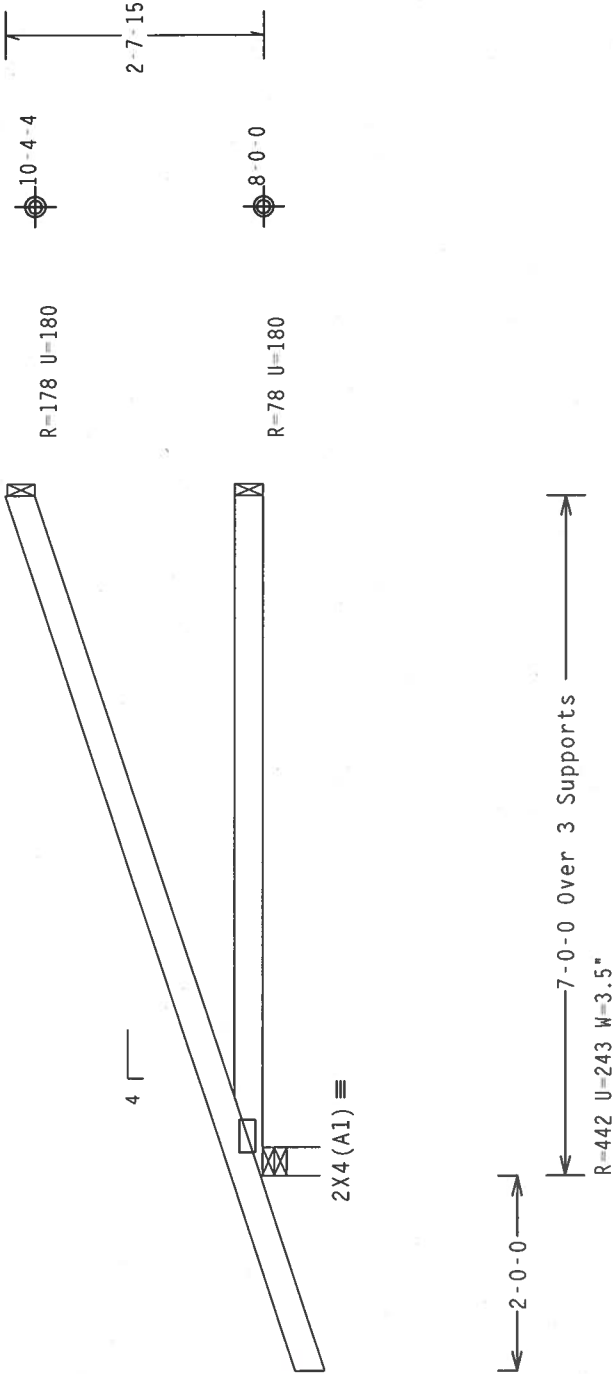
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Components and cladding wind pressures considered for uplift callouts.

The overall height of this truss excluding overhang is 2-7-15.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, 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.



Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0) 7.25.0502

Scale = .5"/Ft.

QTY:12	FL/-/5/-/-/R/-	TC LL	20.0 PSF	REF	R215-- 56068
		TC DL	10.0 PSF	DATE	06/07/07
		BC DL	10.0 PSF	DRW	HCUSR215 07158017
		BC LL	0.0 PSF	HC-ENG	JK/WHK
		TOT.LD.	40.0 PSF	SEQN-	153431
		DUR.FAC.	1.25	FROM	CDM
		SPACING	24.0"	JREF-	1T80215_Z02

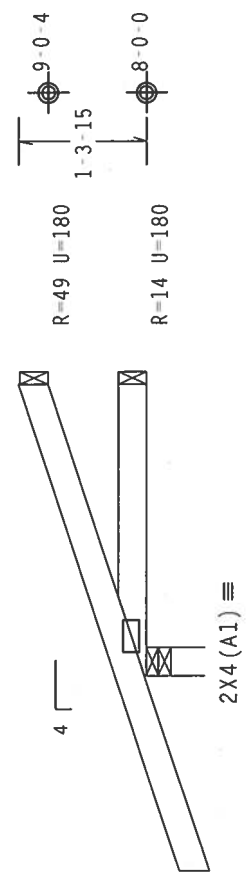


****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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. ITW BCG, 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. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AEP&I AND TPI. STEEL PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1601.2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL OR 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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf. LW=1.00 GCpt (+/-)=0.18

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

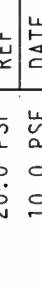


2-0-0

3'-0"-0
3'-0"-0 Over 3 Supports
R=311 U=250 W=3.5"

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

Scale = .5" / Ft.



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ITW Building Components Group, Inc.
Haines City, FL 33844

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****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCG'S (BUILDING COMPONENT SAFETY INFORMATION) TRUSS PLATE INSTRUCTIONS, 218 WINTER LANE, SUITE 300, ALBUQUERQUE, NM 87102-3000, (505) 866-3300, WWW.BCG-USA.COM, AND THE ENTERPRISE LINE, 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. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. (BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (N/JH/SS/K) ASTM A653 GRADE 40/60 (N, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



James F. Collins
Professional Engineer
State of Florida
License No. 12712

Jun 07 2007

TC LL	20.0	PSF	REF	R215 --	56070
TC DL	10.0	PSF	DATE	06/07/07	
BC DL	10.0	PSF	DRW	HCUSR215	07158014
BC LL	0.0	PSF	HC-ENG	MMN/AP	*
TOT.LD.	40.0	PSF	SEQN-	153425	
DUR.FAC.	1.25		FROM	CDM	
SPACING	24.0"		JREF-	1T80215_Z02	

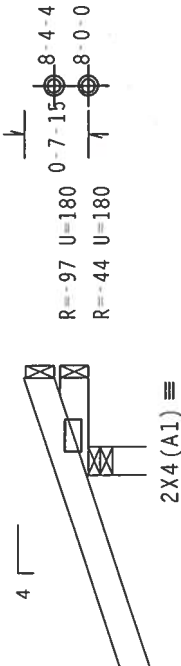
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N

Component and cladding wind pressures considered for uplift reactions.

The overall height of this truss excluding overhang is 0-7-15.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

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



1-0-0 Over 3 Supports
R=353 U=649 W=3.5"

Design Crit: TPI-2002(STD)/FBC

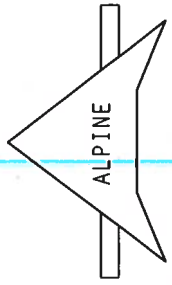
Cq/RT=1.00(1.25)/10(0)

QTY: 8

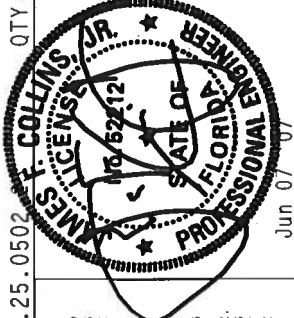
Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (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 BCG, 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/P&J) AND TPI. 1TM BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (N/A/SS/KS) ASTM A653 GRADE 40/60 (N/A/SS) GALV. STEEL, APPLY TO EACH CHORD. UNLESS OTHERWISE INDICATED ON THIS DESIGN, ALL TRUSS DESIGN SHALL BE IN ACCORDANCE WITH THE DESIGN 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.



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Haines City, FL 33844
FL Certificate of Authorization # 567



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"

REF	R215--	56071
DATE	06/07/07	
DRW	HCUSR215	07158016
HC-ENG	MNM/AP	
SEQN-	153422	
FROM	CDM	
JREF-	1T80215_Z02	

FLORIDA DEPARTMENT OF Community Affairs



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COMMUNITY PLANNING

HOUSING & COMMUNITY DEVELOPMENT

PERMITTING & ENFORCEMENT

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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

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

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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	
<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	

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Florida Building Code Online
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2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100

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Product Approval Accepts:



*Gaylord Pump & Irrigation Inc.**P.O. Box 548**Brunford, ME 02008*

386-935-0932 Fax 386-935-0778

4" Steel Casing (schedule 40)

1-Hp Submersible pump 18 gpm

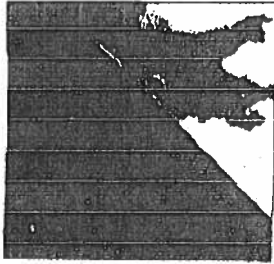
1-1/4" Galvanize pipe

PC-244 Challenger Diaphragm Tank (81 gallon tank with 21.9 gallons of draw down)

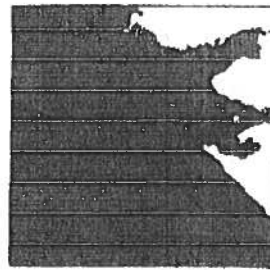
This equipment meets or exceeds state code of March 2002



ELK



**PRESTIQUE®
HIGH DEFINITION®**



RAISED PROFILE™

Prestique Plus *High Definition* and Prestique Gallery Collection™

Product size	13 1/2" x 39 3/4"	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*.
Exposure	5 1/2"	
Pieces/Bundle	16	
Bundles/Square	4/98.6 sq. ft.	
Squares/Pallet	11	

Raised Profile

Product size	13 1/2" x 38 1/2"	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*.
Exposure	5 1/2"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq. ft.	
Squares/Pallet	16	

Prestique I *High Definition*

Product size	13 1/2" x 39 3/4"	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*.
Exposure	5 1/2"	
Pieces/Bundle	16	
Bundles/Square	4/98.6 sq. ft.	
Squares/Pallet	14	

HIP AND RIDGE SHINGLES

Seal-A-Ridge™ w/FLX™

Size: 12" x 12"
Exposure: 8"
Pieces/Bundle: 46
Coverage: 4 Bundles = 100 linear feet

Prestique *High Definition*

Product size	13 1/2" x 38 1/2"	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*.
Exposure	5 1/2"	
Pieces/Bundle	22	
Bundles/Square	3/100 sq. ft.	
Squares/Pallet	16	

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 3482.

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 (101.8/304.8mm) or greater; apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes (4" per foot (101.8/304.8mm) 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 power 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.

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

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

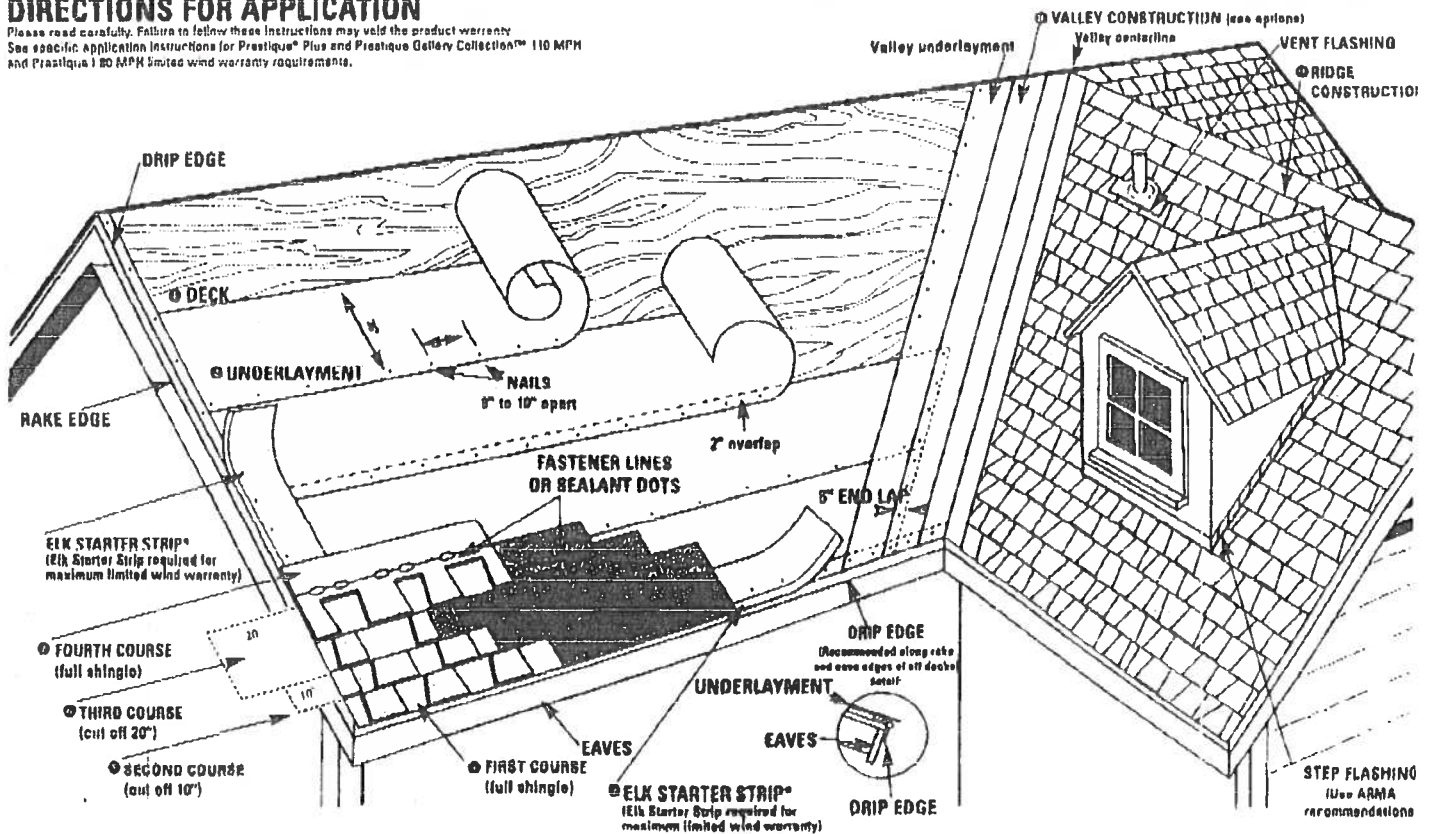
ELK 
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SS001 01 02

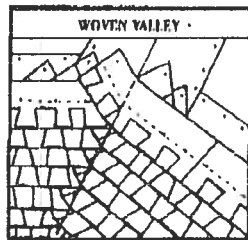
TUSCALOOSA, AL

DIRECTIONS FOR APPLICATION

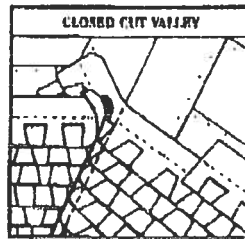
Please read carefully. Failure to follow these instructions may void the product warranty. See specific Application Instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH and Prestique 110 MPH limited wind warranty requirements.



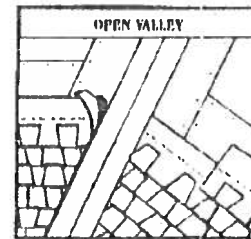
• **VALLEY CONSTRUCTION OPTION** (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual



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 eaves 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 8" 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 18" 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 2 1/12), 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 eave and

• 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.)

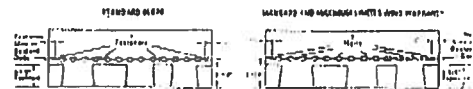
FASTENERS

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

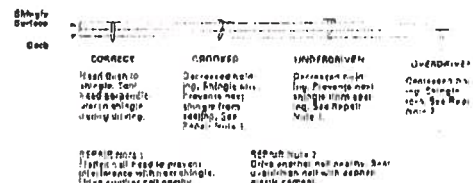
Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for roof-overs. 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, 16-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 Raised Profile shingles have a U.L.® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two piles of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall 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.

④ 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.

⑤ 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.

⑥ SECOND COURSE

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

⑦ THIRD COURSE

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

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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COLUMBIA COUNTY OFFICE 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 10-3S-16-02055-022

Building permit No. 000026103

Use Classification SFD, UTILITY

Fire: 64.20

Permit Holder JAMES COX

Waste: 167.50

Owner of Building CLINTON FRAME

Total: 231.70

Location: 890 NW PHILLSBURY DR, LAKE CITY, FL 32055

Date: 12/21/2007

Wayne S. Sue

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)