Columbia County Building Permit Application

CK# 6714 Culvert WAIN

Revised 9-23-04

For Office Use Only Application # 0760-20 Date Received 10/4/07 By G Permit # 480/26454

Application Approved by - Zoning Official BLK Date 10.10.07 Plans Examiner OK TH Date 10-12-07

Flood Zone X Surveyor Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments ~~FH, NOC, EH, Needed~~

Cell 352-283-3542

Bill Cason 352-

FAX # 454-3801

Applicants Name CASON BUILDERS INC Phone 386 454-1150

Address 10 NW 15th STREET, HIGH SPRINGS, FL 32643

Owners Name MARY S. Lewis and Carol Payne Phone

911 Address 203 SW Riverland Ct, Ft. White, FL 32038

Contractors Name CASON BUILDERS INC Phone

Address 10 NW 15th STREET, HIGH SPRINGS, FL

Fee Simple Owner Name & Address MARY Lewis & Carl Payne 649 Rolling Hills Dr 32962 Sebastian, FL

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address MARK DISOSWAY PO BOX 868 LAKE CITY, FL 32056

Mortgage Lenders Name & Address N/A

Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Progressive Energy

Property ID Number R04351-104 36-75-16 Estimated Cost of Construction 120,000

Subdivision Name Lot Block Unit Phase

Driving Directions 47 to Ft. White, cross over 27, 3-4 miles turn left CR. 138, Follow 138 to Rum Island Rd and turn right, look for Cason Builders sign on left. 3rd lot on left past Langelier

Type of Construction FRAME SFD Number of Existing Dwellings on Property 0

Total Acreage 8.98 Lot Size Do you need a - Culvert Permit or (Culvert Waiver) or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 203 Side 105 Side 197 Rear 648

Total Building Height 16'8" Number of Stories 1 Heated Floor Area 1000 / 1216 Roof Pitch 7/12

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

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 COMMENCMENT 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.

Owner Builder or Agent (Including Contractor)

GALE TEDDER MY COMMISSION # DD588506 EXPIRES: June 2[illegible] Bonded Thru Notary Public Underwriters

Contractor Signature

Contractors License Number

Competency Card Number

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 11th day of Oct. 2007.

Personally known ____ or Produced Identification DL

Notary Signature

JW Left Message

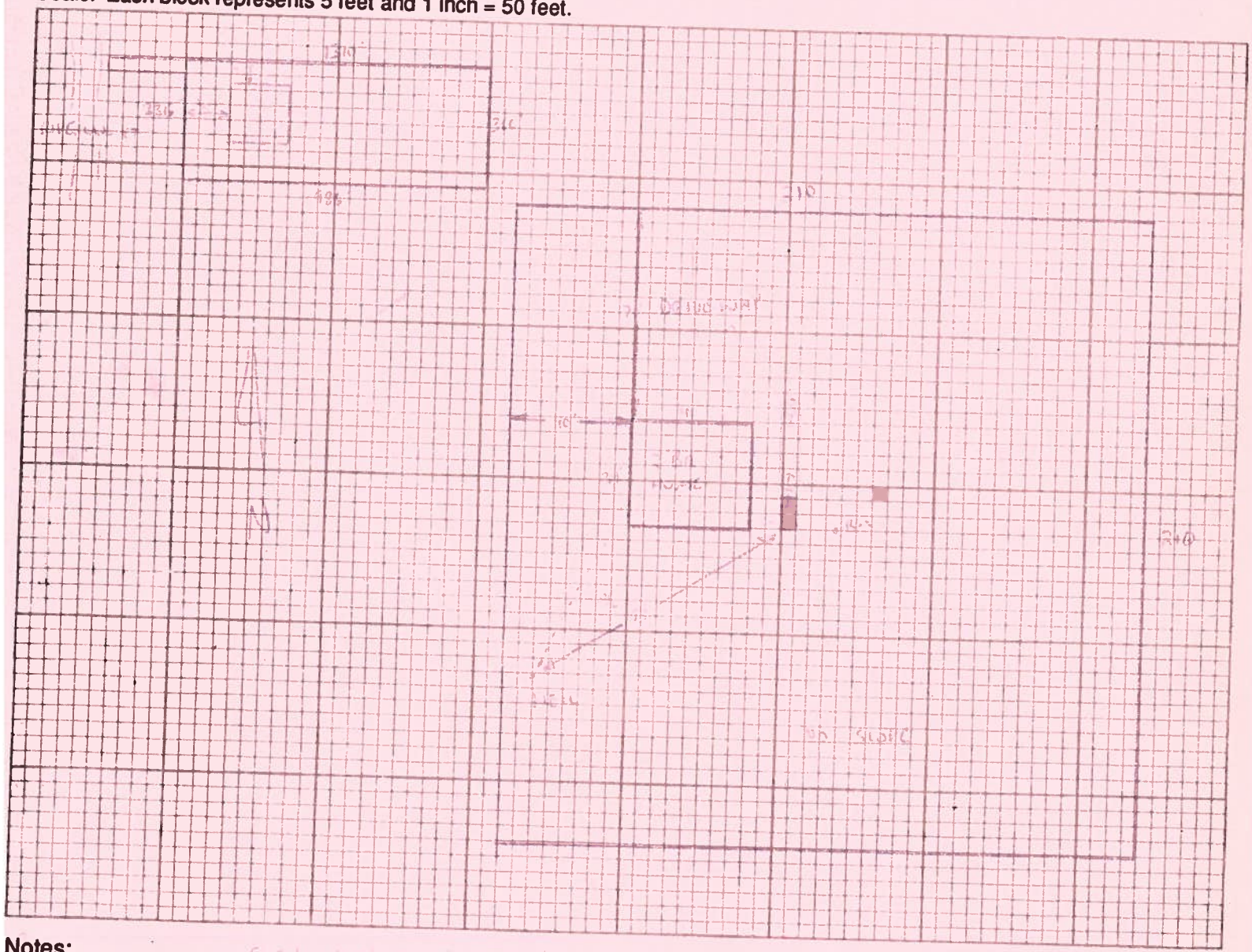
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 07-0758 D

PART II - SITE PLAN

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



Notes: CLEN SET C @ SITE #2

DRAWN BY BDM

REVISED 11/20/07

Site Plan submitted by: _____ _____
Signature Title

Plan Approved X Not Approved _____ Date 11/20/07

By _____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

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: 10/11/2007 **DATE ISSUED:** 10/12/2007

ENHANCED 9-1-1 ADDRESS:

203 SW RIVERLAND CT
FORT WHITE FL 32038

PROPERTY APPRAISER PARCEL NUMBER:

36-7S-16-04351-104

Remarks:

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

OCT 12 2007

911Addressing/GIS Dept

980

RONNIE BRANNON, CFC
COLUMBIA COUNTY TAX COLLECTOR

2006 REAL ESTATE
NOTICE OF AD VALOREM TAXES AND NON-AD VALOREM ASSESSMENTS

01179290000

ACCOUNT NUMBER	ESCROW CD	ASSESSED VALUE	EXEMPTIONS	TAXABLE VALUE	MILLAGE CODE
R04351-104		46,240	0	46,240	003

R

0024835 01 AB 0.317 **AUTO T9 0 0810 32958-1234

LEWIS MARY S &
CAROL L PAYNE (JTWRS)
649 ROLLING HILL DR
SEBASTIAN FL 32958-6124

Pd 11/27/06 Chk no. 793 $918.58

SEE INSERT FOR IMPORTANT INFO
AND TELEPHONE NUMBERS
WWW.COLUMBIATAXCOLLECTOR.COM

16-7S-36 9900/9900 8.5 acres
COMM NW COR OF NW1/4, RUN S
1831.03 FT FOR POB, RUN E
1310.15 FT, S 366.08 FT, W
1310.05 FT, N 366.08 FT TO POB
See Tax Roll for extra legal.

AD VALOREM TAXES

TAXING AUTHORITY		MILLAGE RATE	MILLS PER $1000 OF TAXABLE VALUE	TAXES LEVIED
C001	BOARD OF COUNTY COMMISSIONERS	8.7260	46,240	403.49
S002	COLUMBIA COUNTY SCHOOL BOARD			
	DISCRETIONARY	.7600	46,240	35.14
	LOCAL	4.9750	46,240	230.04
	CAPITAL OUTLAY	2.0000	46,240	92.48
W SR	SUWANNEE RIVER WATER MGT DIST	.4914	46,240	22.72
HLSH	SHANDS AT LAKE SHORE	2.2500	46,240	104.04
IIDA	INDUSTRIAL DEVELOPEMENT AUTH	.1380	46,240	6.38

TOTAL MILLAGE 18.3404 AD VALOREM TAXES $894.29

NON-AD VALOREM ASSESSMENTS

LEVYING AUTHORITY	RATE	AMOUNT
FFIR FIRE ASSESSMENTS		62.56

PAY ONLY ONE AMOUNT IN YELLOW SHADED AREA — NON-AD VALOREM ASSESSMENTS $62.56

COMBINED TAXES AND ASSESSMENTS	$956.85	PAY ONLY ONE AMOUNT	See reverse side for important information.

IF PAID BY PLEASE PAY	Nov 30	Dec 31	Jan 31	Feb 28	Mar 31	IF PAID BY
	918.58	928.14	937.71	947.28	956.85	

M-S-L
C.O.

8/9/07

Permit No.____
Tax Folio No. R04351-104

NOTICE OF COMMENCEMENT

State of Florida
County of Indian River

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

1. Description of property:

SEE ATTACHED EXHIBIT "A"

Inst:200712022212 Date:10/2/2007 Time:11:23 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 2

2. General description of improvement: single family residence

3. Owner information:

a. Name: Mary S. Lewis and Carol L. Payne
Address: 649 Rolling Hill Drive
Sebastian, FL 32958
b. Interest in property: fee simple
c. Name and address of fee simple titleholder (if other than Owner):

4. a. Contractor: Cason Builders,Inc.
Address: 10 NW 15th Street
High Springs, FL 32643
b. Contractor's phone number: 386-454-1150

5. Surety: .
a. Address: .
b. Phone number:
c. Amount of bond: $.

6. a. Lender: NONE
Address:
b. Lender's phone number:

7. a. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
Address:
b. Phone numbers of designated persons:

8. a. In addition to himself or herself, Owner designates of to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
b. Phone number of person or entity designated by owner:

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified):

Mary S. Lewis

Carol L. Payne

The foregoing instrument was acknowledged before me this 26th day of Sept, 2007 by Mary S. Lewis and Carol L. Payne who

(X) are personally known to me
(X) who have produced a valid ✓ driver's license as identification
( ) who produced _____ as identification

Theresa L. Durst
Notary Public at Large, State of Florida
(SEAL)

THERESA L. DURST
Notary Public - State of Florida
My Commission Expires Mar 1, 2009
Commission # DD 390174
Bonded By National Notary Assn.

Exhibit "A"

A PART OF THE NORTHWEST 1/4 OF SECTION 36, TOWNSHIP 7 SOUTH, RANGE 16 EAST, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF SAID NORTHWEST 1/4 AND RUN SOUTH 01 DEG. 06 MIN. 32 SEC. EAST, ALONG THE WEST LINE THEREOF, 1831.04 FEET FOR A POINT OF BEGINNING; THENCE NORTH 88 DEG. 54 MIN. 35 SEC. EAST, 1310.15 FEET; THENCE SOUTH 01 DEG. 05 MIN. 56 SEC. EAST, 366.08 FEET; THENCE SOUTH 88 DEG. 54 MIN. 35 SEC. WEST, 1310.05 FEET TO A POINT ON THE WEST LINE OF SAID NORTHWEST 1/4; THENCE NORTH 01 DG. 06 MIN. 32 SEC. WEST, 366.08 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND PUBLIC UTILITIES; TOGETHER WITH RIGHT OF INGRESS AND EGRESS OVER AND ACROSS A 60 FOOT STRIP OF LAND LYING ADJACENT TO AND EAST OF THE FOLLOWING DESCRIBED LINE; COMMENCE AT THE NORTHWEST CORNER OF SECTION 36, TOWNSHIP 7 SOUTH, RANGE 16 EAST AND RUN SOUTH 01 DEG. 06 MIN. 32 SEC. EAST, ALONG THE WEST LINE THEREOF, 1288.76 FEET FOR A POINT OF BEGINNING; THENCE CONTINUE SOUTH 01 DEG. 06 MIN. 32 SEC. EAST, 592.27 FEET TO THE POINT OF TERMINATION OF SAID EASEMENT AT THE NORTHWEST CORNER OF THE HEREIN CONVEYED LOT 4.

LESS AND EXCEPT EXISTING ROAD RIGHT OF WAY IN THE NORTHWEST CORNER OF SAID 60 FOOT EASEMENT

AC# 3240278

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L07053000651

DATE	BATCH NUMBER	LICENSE NBR
05/30/2007	060747750	QB36148

The BUSINESS ORGANIZATION
Named below IS QUALIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2009
(THIS IS NOT A LICENSE TO PERFORM WORK. THIS ALLOWS COMPANY TO DO BUSINESS ONLY IF IT HAS A QUALIFIER.)

CASON BUILDERS INC
20223 NE 6TH STREET
GAINESVILLE FL 32609

CHARLIE CRIST
GOVERNOR

DISPLAY AS REQUIRED BY LAW

HOLLY BENSON
SECRETARY

AC# 2615738

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L06061300982

DATE	BATCH NUMBER	LICENSE NBR
06/13/2006	050813429	CBC060151

The BUILDING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2008

CASON, WILLIAM JOSEPH
CASON BUILDERS INC
10 NW 15TH STREET
HIGH SPRINGS FL 32643

JEB BUSH
GOVERNOR

DISPLAY AS REQUIRED BY LAW

SIMONE MARSTILLER
SECRETARY

Permit No.____
Tax Folio No. R04351-104

NOTICE OF COMMENCEMENT

State of Florida
County of Indian River

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

1. Description of property:

SEE ATTACHED EXHIBIT "A"

2. General description of improvement: single family residence

3. Owner information:

a. Name: Mary S. Lewis and Carol L. Payne
Address: 649 Rolling Hill Drive
Sebastian, FL. 32958
b. Interest in property: fee simple
c. Name and address of fee simple titleholder (if other than Owner):

4. a. Contractor: Cason Builders,Inc.
Address: 10 NW 15th Street
High Springs, FL 32643
b. Contractor's phone number: 386-454-1150

5. Surety: .
a. Address: .
b. Phone number:
c. Amount of bond: $.

6. a. Lender: NONE
Address:
b. Lender's phone number:

7. a. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
Address:
b. Phone numbers of designated persons:

8. a. In addition to himself or herself, Owner designates of to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
b. Phone number of person or entity designated by owner:

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified):

Mary S. Lewis

Carol L. Payne

The foregoing instrument was acknowledged before me this 26th day of Sept, 2007 by Mary S. Lewis and Carol L. Payne who

( ) are personally known to me
(X) who have produced a valid ✓ driver's license as identification
( ) who produced _____ as identification

Theresa L. Durst
Notary Public at Large, State of Florida
(SEAL)

THERESA L. DURST
Notary Public - State of Florida
My Commission Expires Mar 1, 2009
Commission # DD 380174
Bonded By National Notary Assn.

FORM 600A-2004R EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Cason Bldrs. Payne Residence**	Builder:	**Cason Builders, Inc.**
Address:		Permitting Office:	Columbia
City, State:	,	Permit Number:	26454
Owner:		Jurisdiction Number:	22000
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: 13.00
4. Number of Bedrooms	2	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	1000 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble Default) 108.0 ft²	13. Heating systems	
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 108.0 ft²	a. Electric Heat Pump	Cap: 24.0 kBtu/hr
8. Floor types			HSPF: 7.70
a. Raised Wood, Stem Wall	R=0.0, 1000.0ft²	b. N/A	
b. N/A			
c. N/A		c. N/A	
9. Wall types		14. Hot water systems	
a. Frame, Wood, Exterior	R=13.0, 917.0 ft²	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
d. N/A			
e. N/A		c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 1016.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 75.0 ft		
b. N/A			

Glass/Floor Area: 0.11 Total as-built points: 14177 Total base points: 15155 **PASS**

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

PREPARED BY: Tight Seal, Inc.

DATE: 9/19/07

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.

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

BUILDING OFFICIAL: _____

DATE: _____

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.7

The higher the score, the more efficient the home.

1.	New construction or existing	New			
2.	Single family or multi-family	Single family			
3.	Number of units, if multi-family	1			
4.	Number of Bedrooms	2			
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	1000 ft²			
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default)	Area 108.0 ft²		
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear)	108.0 ft²		
8.	Floor types				
	a. Raised Wood, Stem Wall	R=0.0, 1000.0ft²			
	b. N/A				
	c. N/A				
9.	Wall types				
	a. Frame, Wood, Exterior	R=13.0, 917.0 ft²			
	b. N/A				
	c. N/A				
	d. N/A				
	e. N/A				
10.	Ceiling types				
	a. Under Attic	R=30.0, 1016.0 ft²			
	b. N/A				
	c. N/A				
11.	Ducts				
	a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 75.0 ft			
	b. N/A				
12.	Cooling systems				
	a. Central Unit		Cap: 24.0 kBtu/hr		
			SEER: 13.00		
	b. N/A				
	c. N/A				
13.	Heating systems				
	a. Electric Heat Pump		Cap: 24.0 kBtu/hr		
			HSPF: 7.70		
	b. N/A				
	c. N/A				
14.	Hot water systems				
	a. Electric Resistance		Cap: 40.0 gallons		
			EF: 0.92		
	b. N/A				
	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)				
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)				

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

Builder Signature: _____ Date: _____

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

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

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	1000.0	18.59	3346.0	1.Double, Clear	S	6.0	5.0	50.0	35.87	0.49	883.0	
				2.Double, Clear	S	6.0	4.0	6.0	35.87	0.47	101.0	
				3.Double, Clear	S	4.0	4.0	10.0	35.87	0.52	186.0	
				4.Double, Clear	N	1.5	5.0	15.0	19.20	0.92	263.0	
				5.Double, Clear	W	1.5	11.0	15.0	38.52	0.99	569.0	
				6.Double, Clear	W	1.5	4.0	6.0	38.52	0.82	188.0	
				7.Double, Clear	W	1.5	5.0	6.0	38.52	0.88	202.0	
				As-Built Total:				**108.0**			**2392.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	917.0	1.50		1375.5	
Exterior	917.0	1.70	1558.9									
Base Total:	**917.0**		**1558.9**	**As-Built Total:**				**917.0**			**1375.5**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	4.10		164.0	
Exterior	54.0	6.10	329.4	2.Exterior Insulated				14.0	4.10		57.4	
Base Total:	**54.0**		**329.4**	**As-Built Total:**				**54.0**			**221.4**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	1000.0	1.73	1730.0	1. Under Attic			30.0	1016.0	1.73 X 1.00		1757.7	
Base Total:	**1000.0**		**1730.0**	**As-Built Total:**				**1016.0**			**1757.7**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall			0.0	1000.0	-4.70		-4700.0	
Raised	1000.0	-3.99	-3990.0									
Base Total:			**-3990.0**	**As-Built Total:**				**1000.0**			**-4700.0**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	1000.0	10.21	10210.0					1000.0	10.21		10210.0	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 13184.3			**Summer As-Built Points:**					**11256.6**
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
			(sys 1: Central Unit 24000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)					
			11257	1.00	(1.00 x 1.147 x 0.91)	0.260	1.000	3054.8
13184.3	**0.3250**	**4284.9**	**11256.6**	**1.00**	**1.044**	**0.260**	**1.000**	**3054.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	1000.0	20.17	3631.0	1.Double, Clear	S	6.0	5.0	50.0	13.30	3.05	2026.0	
				2.Double, Clear	S	6.0	4.0	6.0	13.30	3.28	261.0	
				3.Double, Clear	S	4.0	4.0	10.0	13.30	2.73	363.0	
				4.Double, Clear	N	1.5	5.0	15.0	24.58	1.00	370.0	
				5.Double, Clear	W	1.5	11.0	15.0	20.73	1.00	312.0	
				6.Double, Clear	W	1.5	4.0	6.0	20.73	1.05	130.0	
				7.Double, Clear	W	1.5	5.0	6.0	20.73	1.03	128.0	
				As-Built Total:				**108.0**			**3590.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	917.0	3.40		3117.8	
Exterior	917.0	3.70	3392.9									
Base Total:	**917.0**		**3392.9**	**As-Built Total:**				**917.0**			**3117.8**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	8.40		336.0	
Exterior	54.0	12.30	664.2	2.Exterior Insulated				14.0	8.40		117.6	
Base Total:	**54.0**		**664.2**	**As-Built Total:**				**54.0**			**453.6**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	1000.0	2.05	2050.0	1. Under Attic			30.0	1016.0	2.05 X 1.00		2082.8	
Base Total:	**1000.0**		**2050.0**	**As-Built Total:**				**1016.0**			**2082.8**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall			0.0	1000.0	3.50		3500.0	
Raised	1000.0	0.96	960.0									
Base Total:			**960.0**	**As-Built Total:**				**1000.0**			**3500.0**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1000.0	-0.59	-590.0					1000.0	-0.59		-590.0	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**10108.1**	**Winter As-Built Points:**					**12154.2**
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
			(sys 1: Electric Heat Pump 24000 btuh ,EFF(7.7) Ducts:Con(S),Con(R),Int(AH),R6.0					
			12154.2	1.000	(1.000 x 1.169 x 0.93)	0.443	1.000	5851.8
10108.1	**0.5540**	**5599.9**	**12154.2**	**1.00**	**1.087**	**0.443**	**1.000**	**5851.8**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
2		2635.00	5270.0	40.0	0.92	2	1.00	2635.00	1.00	5270.0	
				As-Built Total:						**5270.0**	

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points		Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	
4285	**5600**	**5270**	**15155**		**3055**	**5852**	**5270**	**14177**	

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	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 cir 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.	

Summary Energy Code Results

Residential Whole Building Performance Method A

Project Title:
Payne Residence

Class 3 Rating
Registration No. 0
Climate: North

9/19/2007

Building Loads			
Base		As-Built	
Summer:	**13184 points**	Summer:	**11257 points**
Winter:	**10108 points**	Winter:	**12154 points**
Hot Water:	**4848 points**	Hot Water:	**4848 points**
Total:	**28141 points**	Total:	**28259 points**

Energy Use			
Base		As-Built	
Cooling:	**4285 points**	Cooling:	**3055 points**
Heating:	**5600 points**	Heating:	**5852 points**
Hot Water:	**5270 points**	Hot Water:	**5270 points**
Total:	**15155 points**	Total:	**14177 points**

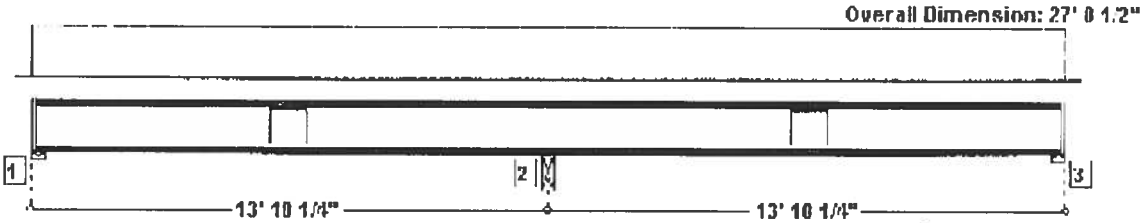
PASS
e-Ratio: 0.94

Trus Joist
A Weyerhaeuser Business

TJ-Beam® 6.25 Serial Number: 7004107299
User: 2 8/20/2007 11:20:26 AM
Page 1 Engine Version: 6.25.71

11 7/8" TJI® 230 @ 24" o/c

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



Product Diagram is Conceptual

LOADS:

Analysis is for a Joist Member.
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Plate on masonry wall	4.25"	3.00"	497 / 129 / 0 / 626	A3: Rim Board	1 Ply 1 1/4" x 11 7/8" 0.8E TJ-Shield Rim Board®
2	Microllam LVL beam	3.50"	3.50"	1358 / 408 / 0 / 1766	B3	None
3	Plate on masonry wall	4.25"	3.00"	497 / 129 / 0 / 626	A3: Rim Board	1 Ply 1 1/4" x 11 7/8" 0.8E TJ-Shield Rim Board®

-See TJ-SPI CUTTERS / BUILDERS GUIDE for detail(s): A3: Rim Board,B3

TJI HOLES:

	Diameter	Height	Width	Left End To Top Hole Center	Span	Design	Control	Comment
Maximum	9.13"	9.13"	10.30"	6' 11 1/8"	Span 1		Passed	
Maximum	9.13"	9.13"	10.30"	20' 9 3/8"	Span 2		Passed	

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	883	814	1821	Passed (45%)	11 and Span 2 under Floor loading
Vertical Reaction (lbs)	1766	1766	2418	Passed (73%)	Bearing 2 under Floor loading
Moment (ft-lbs)	-2399	-2399	4015	Passed (60%)	MID Span 2 under Floor loading
Live Load Defl (in)		0.132	0.360	Passed (L/999+)	MID Span 1 under Floor ALTERNATE span loading
Total Load Defl (in)		0.156	0.679	Passed (L/999+)	MID Span 1 under Floor ALTERNATE span loading
TJ-Pro		43	30	Passed	Span 1

-Deflection Criteria: STANDARD(LL:L/480 TL:L/240).
-Deflection analysis is based on composite action with single layer of 23/32" Panels (24" Span Rating) GLUED & NAILED wood decking.
-Bracing(Lu): All compression edges (top and bottom) must be braced at 4' 6" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
-The load conditions considered in this design analysis include alternate member pattern loading.

TJ-Pro RATING SYSTEM

-The TJ-Pro Rating System value provides additional floor performance information and is based on a GLUED & NAILED 23/32" Panels (24" Span Rating) decking. The controlling span is supported by beams. Additional considerations for this rating include: Ceiling - None. A structural study as of the deck has not been performed by the program.

ADDITIONAL NOTES:

-IMPORTANT! The analysis presented is output from software developed by Trus Joist (TJ). TJ warrants the sizing of its products by this software will be accomplished in accordance with TJ product design criteria and code accepted design values. The specific product application, input design loads, and stated dimensions have been provided by the software user. This output has not been reviewed by a TJ Associate.
-Not all products are readily available. Check with your supplier or TJ technical representative for product availability.
-THIS ANALYSIS FOR TRUS JOIST PRODUCTS ONLY! PRODUCT SUBSTITUTION VOIDS THIS ANALYSIS.
-Allowable Stress Design methodology was used for Building Code UBC analyzing the Trus Joist product listed above.

Operator Notes:

SPAN WITH MAX. HOLE

PROJECT INFORMATION:

#L75 [illegible]
CASON BUILDERS
PLAN [illegible]

OPERATOR INFORMATION:

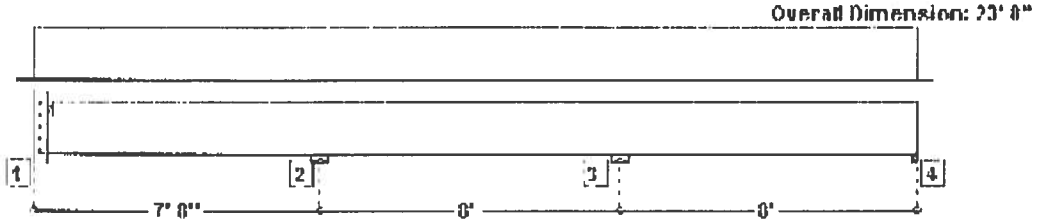
Brian Connealy
Dudden Lbr Source
Phone: (806)[illegible]

TJ-Beam® 6.25 Serial Number: 7004107292
User: 2 10/20/2007 12:15:46 PM
Page 1 Engine Version: 6.25.71

BEAM2

3 1/2" x 9 1/2" 1.7E TimberStrand® LSL

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



Product Diagram is Conceptual.

LOADS:

Analysis is for a Drop Beam Member. Tributary Load Width: 14'
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Packet in masonry wall	4.25"	1.50"	2026 / 566 / 0 / 2592	L4	None
2	Plate on masonry wall	5.50"	4.48"	5163 / 1501 / 0 / 6664	Custom Detail	Beam to Joist Lateral Brace
3	Plate on masonry wall	5.50"	4.67"	5390 / 1690 / 0 / 6949	Custom Detail	Beam to Joist Lateral Brace
4	Plate on masonry wall	1.75"	1.73"	2010 / 570 / 0 / 2580	Custom Detail	Beam to Joist Lateral Brace

-See TJ SPECIFIERS / BUILDERS GUIDE for detail(s): L4
-User specified custom detail for support: 2, 3, 4

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	3614	2800	8867	Passed (32%)	L1 and Span 3 under Floor ADJACENT span loading
Moment (ft-lbs)	-5923	-5923	11654	Passed (46%)	Bearing 3 under Floor ADJACENT span loading
Live Load Defl (in)		0.104	0.266	Passed (L/917)	MID Span 3 under Floor ALTERNATE span loading
Total Load Defl (in)		0.198	0.399	Passed (L/750)	MID Span 3 under Floor ALTERNATE span loading

-Deflection Criteria: STANDARD(LL:L/360,TL:L/240).
Bracing(Lu): All compression edges (top and bottom) must be braced at 23' 8" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
-The load conditions considered in this design analysis include alternate and adjacent member patrern loading.

ADDITIONAL NOTES:

-IMPORTANT! The analysis presented is output from software developed by Trus Joist (TJ). TJ warrants the sizing of its products by this software will be accomplished in accordance with TJ product design criteria and code accepted design values. The specific product application, input design loads, and stated dimensions have been provided by the software user. This output has not been reviewed by a TJ Associate.
-Not all products are readily available. Check with your supplier or TJ technical representative for product availability.
-THIS ANALYSIS FOR TRUS JOIST PRODUCTS ONLY! PRODUCT SUBSTITUTION VOIDS THIS ANALYSIS.
-Allowable Stress Design methodology was used for Building Code UBC analyzing the TJ Distribution product listed above.

PROJECT INFORMATION:
#L25-2020
CASON BUILDERS
PLAN 9010

OPERATOR INFORMATION:
Dylan Carmody
Builders First Source
Phone: (480)755-6004

Duct System Summary
Entire House
Touchatone Heating and Air, Inc.

Job: Payne Residence
Date: Sep 14, 2007
By: all

P.O. Box 327, Lake Butler, Fl 32054 Phone: 386-496-3457 Fax: 386-496-3147

Project Information

For: Cason Builders
Lake City, FL 32025

	Heating	Cooling
External static pressure	0.00 in H2O	0.00 in H2O
Pressure losses	0.15 in H2O	0.15 in H2O
Available static pressure	-0.1 in H2O	-0.1 in H2O
Supply / return available pressure	-0.07 / -0.07 in H2O	-0.07 / -0.07 in H2O
Lowest friction rate	***0.880*** in/100ft	***0.880*** in/100ft
Actual air flow	973 cfm	973 cfm
Total effective length (TEL)	0 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg Eqv Ln (ft)	Trunk
BR 2	h	3152	150	78	0.880	7	0x 0	VIFx	0.0	0.0	
1/2 Bath	h	1126	54	16	0.880	5	0x 0	VIFx	0.0	0.0	
Utility-A	c	2482	31	115	0.880	6	0x 0	VIFx	0.0	0.0	
Utility	c	2482	31	115	0.880	6	0x 0	VIFx	0.0	0.0	
Bath	h	1174	56	20	0.880	5	0x 0	VIFx	0.0	0.0	
Hall	c	135	3	6	0.880	4	0x 0	VIFx	0.0	0.0	
BR 1	h	3186	152	132	0.880	7	0x 0	VIFx	0.0	0.0	
Family Room/Kitc-A	h	3478	166	164	0.880	8	0x 0	VIFx	0.0	0.0	
Family Room/Kitc-B	h	3478	166	164	0.880	8	0x 0	VIFx	0.0	0.0	
Family Room/Kitc	h	3479	166	164	0.880	8	0x 0	VIFx	0.0	0.0	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	0x 0	973	973	0.0	0.880	551	18	0x 0		VIFx	

Bold/Italic values have been manually overridden

Load Short Form
Entire House
Touchstone Heating and Air, Inc.

Job: Payne Residence
Date: Sep 14, 2007
By: ell

P.O. Box 327, Lake Butler, Fl 32054 Phone: 386-496-3487 Fax: 386-496-3147

Project Information

For: Cason Builders
Lake City, FL 32025

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	68	75
Design TD (°F)	35	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

HEATING EQUIPMENT

Make	Trane
Trade	XB13 Weathertron
Model	2TWB3030A1

Efficiency	8 HSPF
Heating input	
Heating output	25000 Btuh @ 47°F
Temperature rise	23 °F
Actual air flow	973 cfm
Air flow factor	0.048 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	Trane
Trade	XB13 Weathertron
Cond	2TWB3030A1
Coil	TXC036S3+*UD1C080A9H4
Efficiency	13.3 SEER
Sensible cooling	20440 Btuh
Latent cooling	8760 Btuh
Total cooling	29200 Btuh
Actual air flow	973 cfm
Air flow factor	0.046 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.87

ROOM NAME	Area (ft^2)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BR 2	150	3152	1690	150	78
1/2 Bath	28	1126	341	54	16
Utility	58	1293	4963	62	230
Bath	66	1174	440	56	20
Hall	52	65	135	3	6
BR 1	160	3186	2843	152	132
Family Room/Kitc	486	10433	10592	497	491
Entire House	1000	20430	21005	973	973
Other equip loads		553	268		
Equip. @ 0.97 RSM			20635		
Latent cooling			3239		
TOTALS	1000	20983	23874	973	973

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

AREA AND FLOW ANALYSIS OF SOFFIT PANEL RECEIVED FROM ASHLEY ALUMINUM

Lomanco
Lomanco, Inc.
Post Office Box 519
101 West Main Street
Jacksonville, Arkansas 72076
(501) 982-5511
1-800-643-5506
Fax Number
(501) 982-1258

NET FREE AREA

$3[(6)(9)+(5)(10)](0.0044\ in.^2)(2) = 2.75\ in.^2$ free area / square foot

CFM DELIVERY

PRESSURE DROP	SOFFIT PANEL CFM FLOW	LOMANCO C 818 CFM FLOW
1.0 in. H_2O	46.6	708.2
0.8 in. H_2O	41.1	633.2
0.6 in. H_2O	35.1	544.2
0.4 in. H_2O	*	442.8
0.2 in. H_2O	*	310.5

* - Too Low To Test In Tunnel

CONCLUSION

6.55 Square Feet of Soffit Panel would be required for each linear foot of Ridge Vent.

AUGUST 1993

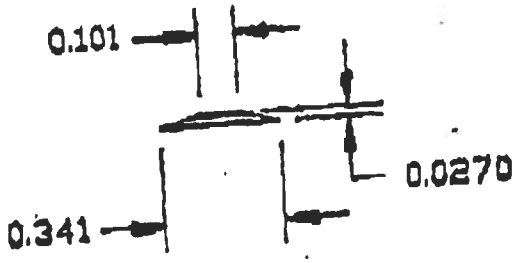
NET FREE AREA OF 2nd SOFFIT PANEL RECEIVED FROM ASHLEY ALUMINUM

Lomanco

Lomanco Inc.
Post Office Box 513
2101 West Main Street
Jacksonville, Arkansas 72076
(501) 982-8511

NET FREE AREA OF LANCED PORTIONS

$3((6)(9)+(5)(10))(0.0066\ in.^2)(2) = 4.1184\ in.^2$ free area per square foot

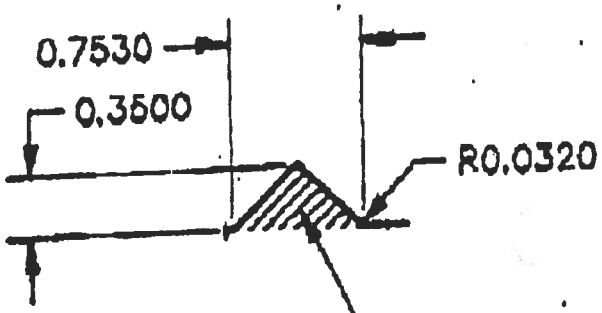


AREA OF LANCE IS

0.0066 INCHES N. F. A.

NET FREE AREA OF V GROOVES

$4(0.1318\ in.^2) = 0.5272\ in.^2$ per panel.

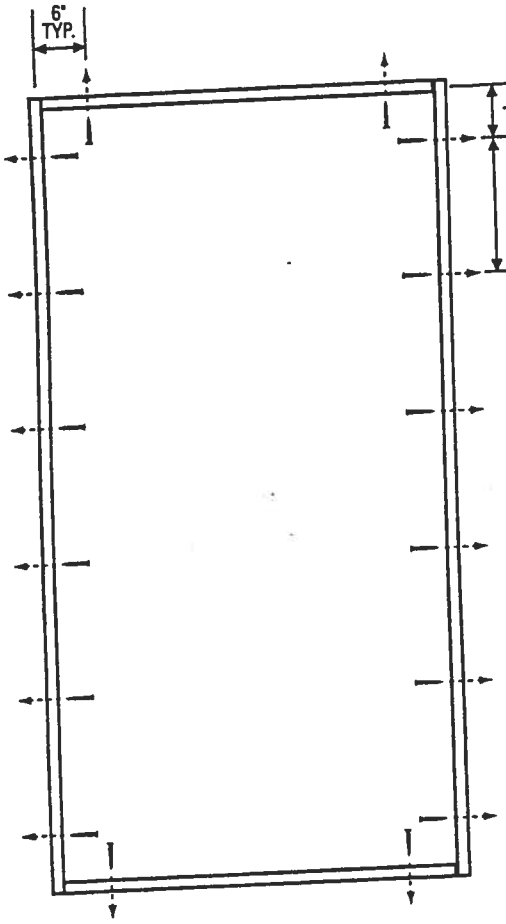


AREA OF V GROOVE IS
.1318 INCHES N. F. A.

NET FREE AREA OF LANCES AND GROOVES

$4.1184\ in.^2 + 0.5272\ in.^2 = 4.6456\ in.^2$ per square foot of panel.

SEPTEMBER 1993



Minimum Fastener Count

- 6 per vertical framing member
- 2 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

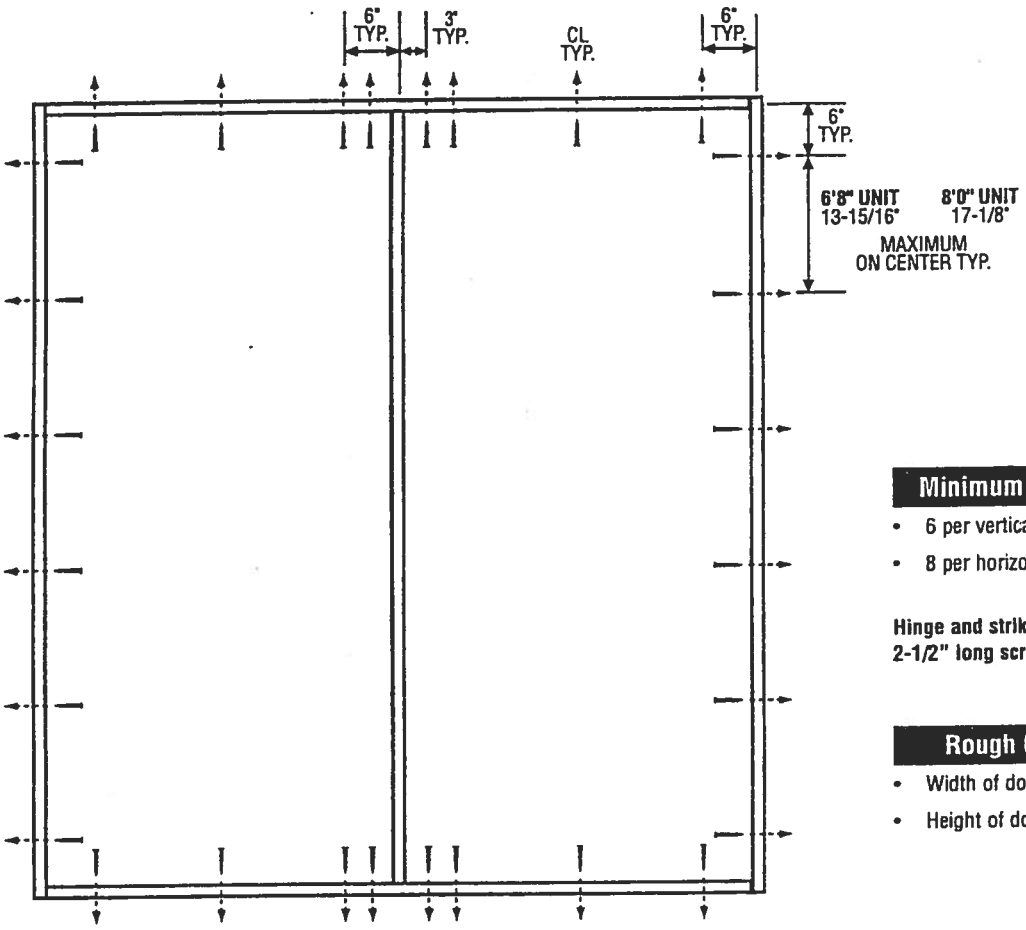
Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 3146 or 3166**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

April 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Minimum Fastener Count

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- **UNITS COVERED BY COP DOCUMENT 3147 or 3167**
  Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel – (1) at top and (1) at bottom.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

April 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

ALUMINUM WINDOW INSTALLATION INSTRUCTIONS METHOD "A"

Before you start. . . . read these instructions.

Important: This Window Unit has been engineered and manufactured to provide superior weather protection and service in accordance with its rating. The manufacturer strongly recommends the unit be INSTALLED PER THE INSTRUCTIONS printed below. The manufacturer disclaims any responsibility for air or water leakage above, under or around the Window(s) Unit. DO NOT PAINT any part of this Unit for any reason! Painting will null and void all warranties.

The following tools and accessories are recommended for this installation:
CARPENTER'S HAMMER, LEVEL (3' or longer), 1 ¾" CORROSION RESISTANT ROOFING NAILS, SHIMS, SEALANT, TAPE and FLASHING PAPER. Note: Sealant shall conform to Fed. Spec. TTs-S-00230C Type II Class, ASTM C920 Type S, Grade NS class 25, AAMA 808.3-92 exterior perimeter sealing compound. The flashing should be a flexible or adhesive type flashing and must be at least 9" in width. The flashing material must meet the minimum water resistance standards of ASTM-D779.

STEP 1 - Rough Opening Must Be Level, Plumb & Square. Carefully remove all packaging and parts from Unit. Make sure sash is closed and locked. Check your rough opening size. The width should be approximately ¾" wider than the Unit and ¼" taller (measure across the interior of frame – don't include the nailing fins when measuring). The opening at the sill plate *must* be level and sides *must* be square and plumb (Figure 1). Correct any problems before proceeding to the next step.

STEP 2 - Installing the Window using Method "A". This method requires the weather resistant barrier (house wrap) to be applied after installing the window. Also the sill flashing will be installed and the window set in the opening before the jamb and head flashing are applied.

1. Install sill (bottom) flashing paper as shown in Figure 2 leaving 9" on either side of the rough opening. Attach the flashing paper along the rough sill and between the jambs. Do not fasten the sill flashing along the bottom edge or anywhere on the 9" overlap on each end.
2. **Place a 3/16" continuous bead of sealant (caulk) around the perimeter of the window on the inside of the nailing fin in line with the recess on the opposite side of the fin.** This is for sealing the window's nailing fin to the sheathing or flashing.
3. Set the Window Unit upon the sill plate and into opening. Adjust left and right to center Unit in the opening (approximately 3/8" space between window sides and the studs). Nailing fins must fit flat against wall and onto sealant.
4. "Tack Nail" the upper left or right corner of the unit and check plumb and level. Adjust if necessary.
5. Attach the opposite lower corner of the window and check plumb and level.
6. Shims shall be cut to exact thickness and must not bind or fall out. Shims at the sill should be 3" from the ends and in the center. (If the unit is wider than 30" the sill shims should be 12" on center.) Jamb shims shall be evenly spaced where required for frame jamb support (Figure 3). A properly shimmed Window Unit shall measure the same across the head, jambs and sill. Do no remove shims after installation is complete!
7. Nail the jambs and sill with galvanized nails, 8" to 12" on center. Nail tight but do not "sink" nails. Sinking will cause the nailing fin to warp, split and break it's seal. At the head, nail above the nailing fin and bend over the nail heads to allow the structural header to sag as the building settles over time. It is permissible to nail smaller widths of Window Units 3'0" or less.
8. Apply a continuous bead of sealant over the nail fin of the jambs covering the fastener heads and extending 8 ½" above the rough opening header (Figure 4).
9. Install the jamb flashing so that it extends 8 ½" above and below the rough opening. The bottom the jamb flashing should over lap the sill flashing. Do not fasten the jamb flashing below the bottom half of the window to allow for the house wrap to be inserted under the jamb flashing (Figure 4).
10. Apply a continuous bead of sealant across the nail fin of the head of the window directly over the nails used to attach the window to the header (Figure 5).
11. Attach the head flashing along the top edge making sure that each end extends past the jamb flashing by 1" on each end (Figure 5).
12. The house wrap can then be installed beginning at the base of the wall and working toward the top. At the sill of the unit, tuck the house wrap under the sill flashing and the loose ends of the jamb flashing (Figure 6).
13. Continue applying the house wrap toward the top placing the next layers over the jamb and head flashing (Figure 6).

STEP 3 - Final Caulk, *Required.* After siding, brick or other exterior material is in place, apply a continuous bead of sealant where exterior material (siding, brick, etc.) butts Window Unit. Note to masons, when brick or other masonry is used, be sure to leave ½" between bottom of windowsill and brick/masonry course to avoid "Brick Binding". **Note:** It is very important to properly seal at vertical mullion joints between the Window Units as well as horizontally mulled stack joints between the Window Units.

STEP 4 - Shim and Remove Shipping Materials, *Required.* Before insulating and trimming around the Window Unit interior, place shims on both sides at meeting rails (double and single hungs). These shims are needed to keep jambs from bowing. Shims shall be cut exact thickness and shall not bind or fall out. Use woven fiberglass insulation. Do not use expandable foam insulation.

Method "A" Aluminum Window Installation

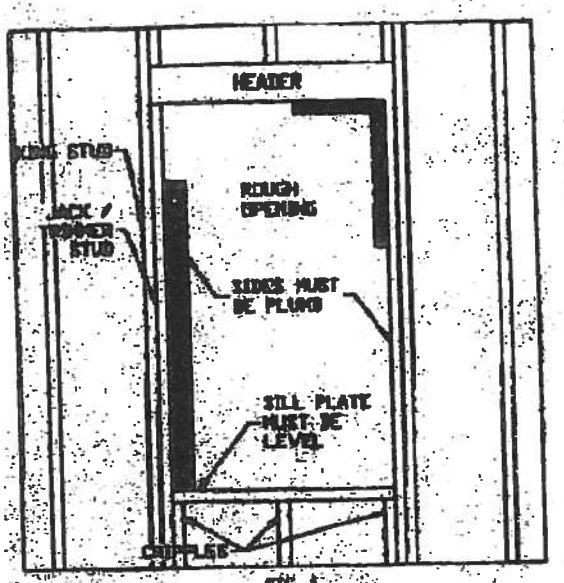


FIG. 1
(INTERIOR VIEW)

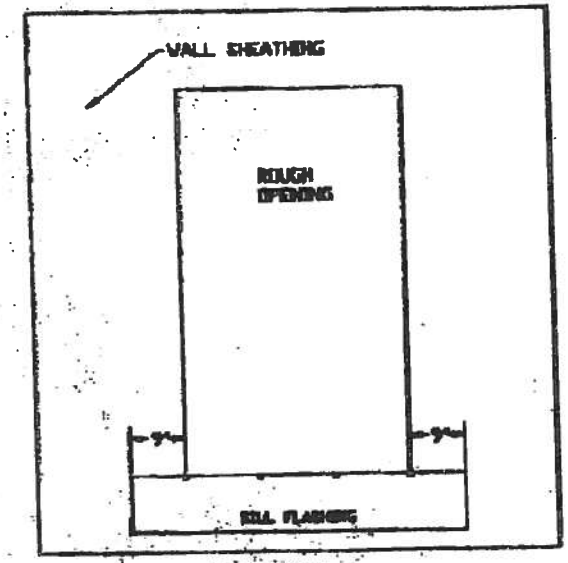


FIG. 2
(EXTERIOR VIEW)

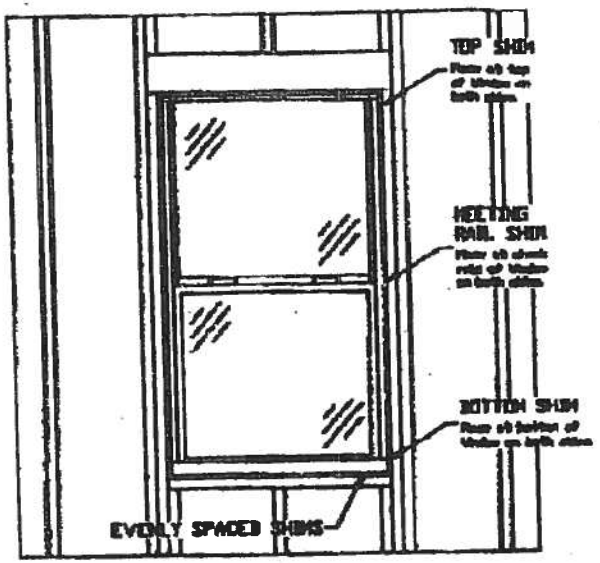


FIG. 3
(INTERIOR VIEW)

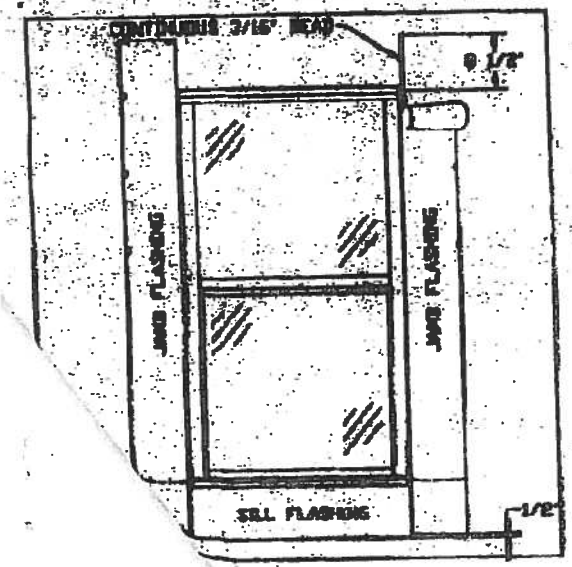


FIG. 4

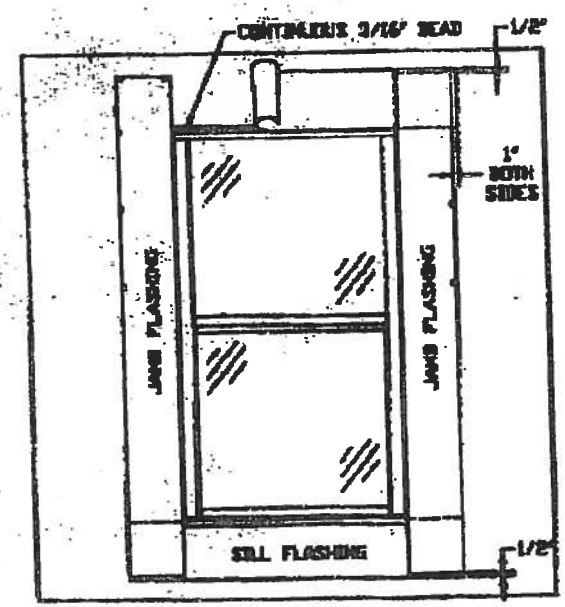


FIG. 5

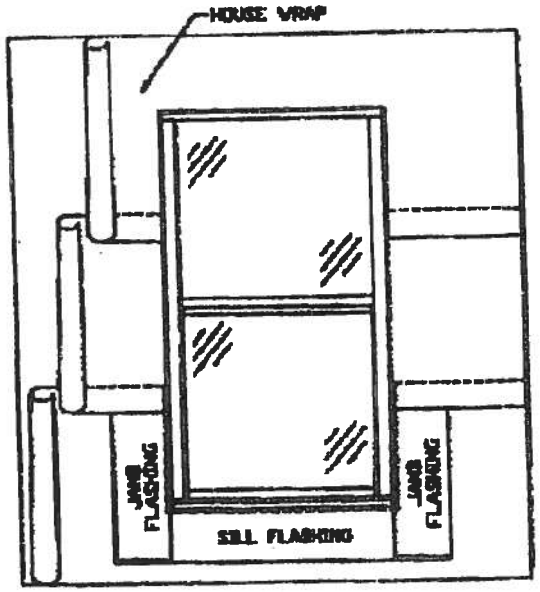


FIG. 6

Capitol 3540 FL#5438.9

CAPITOL BetterBilt CAPITOL

FL#5438.9

INSTALLATION INSTRUCTIONS FOR NEW CONSTRUCTION VINYL FIN WINDOWS

READ THESE INSTRUCTIONS COMPLETELY BEFORE BEGINNING. Please inspect your MI Windows and Doors, Inc. product thoroughly before beginning installation. Inspect the opening and the product, and do not install if there is any observable damage or other irregularity. The product specification sheet and warranty include important information regarding your product and may include product-specific installation requirements (for example, types of fasteners to be used with impact resistant windows and limitations on the height at which the product may be installed); if you did not obtain copies please contact MI Windows and Doors, Inc. Local building codes may impose additional requirements, and those codes supercede these instructions.

FAILURE TO FOLLOW THESE INSTRUCTIONS, AND BUILDING CODE REQUIREMENTS, MAY AFFECT THE REMEDIES AVAILABLE UNDER YOUR WARRANTY.

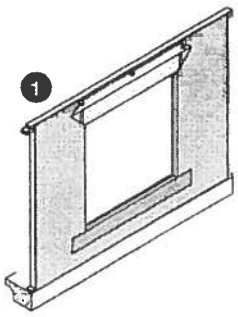
1. IF THE BUILDING HAS A WEATHER RESISTANT BARRIER (WRB) I.E. HOUSE WRAP, PREPARE THE OPENING ACCORDING TO WRB MANUFACTURER'S INSTRUCTIONS. AT EACH TOP CORNER MAKE A 45° CUT IN THE WRB. FOLD UP THE WRB SO THAT THE TOP NAIL FIN OF THE UNIT CAN BE INSTALLED UNDERNEATH IT. (See Figure 1 below) FLASHING OF THE WINDOW OPENING IS RECOMMENDED AND MAY BE REQUIRED BY SOME BUILDING CODES.
2. MAKE SURE THE ROUGH OPENING IS PLUMB, SQUARE AND THE SILL PLATE IS LEVEL. ROUGH OPENINGS SHOULD BE 1/2" LARGER THAN WINDOW FRAME IN WIDTH & HEIGHT. (See Figure 2 below)
3. CLOSE & LOCK THE SASH THROUGHOUT INSTALLATION. KEEP THE SIDE JAMBS PLUMB & SQUARE WITH HEAD AND SILL. BE CAREFUL NOT TO "CROWN UP" OR "BOW DOWN" THE SILL OR HEAD. CONSTANTLY CHECK WIDTH AT THE MEETING RAILS OF SINGLE AND DOUBLE HUNGS (CENTER POINT ON CASEMENTS) TO AVOID A "BOWED OUT" INSTALLATION. WHEN USING FLASHING APPLY THE BOTTOM PIECE BEFORE INSTALLING THE WINDOW. (See Figure 1 below) FLASHING MUST BE RATED TO MEET ASTM D-779. 24 HOUR WATER RESISTANCE TEST.
4. APPLY A CONTINUOUS 3/8" BEAD OF PREMIUM GRADE, COMPATIBLE EXTERIOR SEALANT TO THE INTERIOR (BACKSIDE) OF THE NAIL FIN NEAR THE OUTSIDE EDGE IN LINE WITH THE PRE-PUNCHED HOLES ON ALL SIDES PRIOR TO SETTING THE WINDOW INTO THE ROUGH OPENING. (See Figure 3 below)
5. PLACE 1/4" FLAT SHIMS ON THE ROUGH OPENING SILL PLATE UNDER THE BOTTOM CORNERS OF THE WINDOW (See Figure 4 below). THESE SHIMS SHOULD BE REMOVED WHEN INSTALLATION IS COMPLETE. DO NOT PLACE SHIMS OR BLOCKS UNDER THE SILL EXCEPT AT THE FRAME CORNERS. SET THE WINDOW ONTO THE SHIMS CENTERING THE WINDOW IN THE OPENING ALLOWING EQUAL SPACE ON EITHER SIDE. FOR WINDOWS WITH INTERMEDIATE JAMBS AND ALL SLIDER WINDOWS, CONTINUOUS SHIM OR HORIZONTAL SHIMS ARE RECOMMENDED UNDER EACH INTERMEDIATE JAMB AND MEETING RAIL TO ENSURE SILL IS LEVEL). THESE SILL SHIMS SHOULD REMAIN AFTER INSTALLATION IS COMPLETE. APPLY ADDITIONAL SHIMS AS NECESSARY TO MAINTAIN A LEVEL SILL THROUGHOUT INSTALLATION.
6. PLACE A TEMPORARY FASTENER IN THE SLOT PROVIDED IN THE NAIL FIN ON EACH TOP CORNER, CHECK LEVEL AND SQUARE OF THE WINDOW BY MEASURING THE DIAGONALS. OPEN BOTTOM SASH, CHECK THE "REVEAL" (SPACE) BETWEEN THE BOTTOM OF THE SASH AND THE WINDOW SILL. CLOSE AND RELOCK THE SASH, ADJUST IF NECESSARY. PLACE ADDITIONAL FASTENERS IN THE BOTTOM CORNERS CHECKING WINDOW AGAIN FOR LEVEL, PLUMB AND SQUARE.
7. SECURE THE WINDOW WITH FASTENERS THAT PENETRATE THE FRAMING BY A MINIMUM OF 1", CARE SHOULD BE TAKEN TO INSTALL FASTENERS STRAIGHT, NOT ANGLED. KEEP THE SASH LOCKED UNTIL ALL SIDES ARE SECURE. PRIOR TO FASTENING THE SILL AND HEAD BE SURE THEY ARE STRAIGHT AND LEVEL. FASTENERS SHOULD BE APPLIED SECURELY INTO EVERY OTHER SLOT ON ALL SIDES, DO NOT DISTORT THE NAIL FIN WITH THE FASTENERS.
8. APPLY SEALANT OVER EXPOSED FASTENER HEADS, ANY UNUSED SLOTS AND THE OUTSIDE EDGE OF THE NAIL FIN WHERE IT COMES IN CONTACT WITH THE WRB/SHEATING. OR IF FLASHING (WINDOW TAPE) IS BEING USED - NOTE: SILL FLASHING SHOULD HAVE BEEN APPLIED PRIOR TO INSTALLING THE WINDOW. APPLY THE SIDE FLASHING ON TOP OF THE NAIL FIN, OVERLAPPING THE SILL FLASHING AND EXTENDING UP PAST THE TOP NAIL FIN APPROXIMATELY 2". THEN APPLY THE TOP FLASHING ALSO OVER THE NAIL FIN, OVERLAPPING THE SIDE PIECES AND EXTENDING PAST THE SIDE FLASHING BY APPROXIMATELY 1". LASTLY FOLD DOWN THE WRB FLAP OVER THE FLASHING, TAPE THE DIAGONAL CUTS ABOVE EACH CORNER. (SEE FIGURE #5 BELOW)
9. PLACE SHIMS AT THE MEETING RAIL/CHECK RAIL ON THE SIDE JAMBS TO PREVENT BOWING, THESE SHIMS SHOULD REMAIN AFTER INSTALLATION. CAUTION SHOULD BE TAKEN AS TO NOT OVER SHIM, CAUSING DEFLECTION OF THE FRAME AND HINDER SASH OPERATION. CHECK THE FRAME WIDTH AT TOP, MIDDLE AND BOTTOM, IF NOT THE SAME, SHIM ACCORDINGLY. UNLOCK AND OPERATE THE SASH(S). VISUALLY INSPECT ALL SIGHT LINES. ADJUST OR SHIM AS REQUIRED TO ASSURE CONSISTENT SASH REVEAL AND EASE OF OPERATION.
10. INSULATE BETWEEN THE WINDOW FRAME & ROUGH OPENING WITH FIBERGLASS INSULATION OR EQUAL. THE SPACE MAY BE EFFECTIVELY FILLED WITH MEASURED USE OF LOW EXPANSION FOAM BUT ONLY AFTER DETERMINING THAT FOAM WILL NOT EXERT PRESSURE AGAINST THE FRAME, WHICH CAN IMPAIR OPERATION. DISTORTION OF THE FRAME WILL AFFECT THE USER'S RIGHTS UNDER THE WARRANTY.
11. ALLOW A 1/4" GAP BETWEEN THE EXTERIOR CLADDING, SIDING, BRICK, STUCCO OR STONE AND THE WINDOW FRAME ON ALL SIDES (EXCEPT VINYL J CHANNEL). THE GAP (EXPANSION JOINT) SHOULD BE FILLED WITH CORRECT SIZE BACKER ROD, THEN SEALED WITH A HIGH GRADE EXTERIOR SEALANT AND WILL NEED TO BE MAINTAINED.

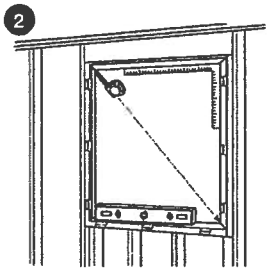
CAUTION:

- USE OF SOLVENTS OR ACIDS WILL DAMAGE COMPONENTS OF THIS PRODUCT AND WILL LIMIT RIGHTS UNDER THE WARRANTY
- VINYL WINDOWS HAVE PRE-PUNCHED SLOTS FOR INSTALLATION - FASTENING IN ANY OTHER PORTION MAY PERMANENTLY DAMAGE UNIT WHICH WILL LIMIT RIGHTS UNDER THE WARRANTY.
- IT IS THE SOLE RESPONSIBILITY OF THE OWNER, ARCHITECT, AND/OR BUILDER TO SELECT CORRECT PRODUCTS TO BE IN COMPLIANCE WITH APPLICABLE LAWS, SITE REQUIREMENTS AND BUILDING CODES AND TO ENSURE THAT INSTALLATION IS IN COMPLIANCE WITH APPLICABLE LAWS, SITE REQUIREMENTS AND BUILDING CODES.
- DO NOT STORE IN THE SUN OR LAY FLAT BEFORE OR DURING INSTALLATION.
- ANY PENETRATIONS (e.g. ALARM SENSORS) MADE THROUGH ANY PORTION OF ANY M.I., BETTERBILT OR CAPITOL PRODUCT MAY AFFECT RIGHTS UNDER THE MANUFACTURER'S WARRANTY.
- SOME LAWS AND BUILDING CODES REQUIRE SAFETY GLASS. THE ORDERING PARTY IS RESPONSIBLE TO SPECIFY SAFETY GLASS AND ENSURE COMPLIANCE WITH LOCAL LAWS AND BUILDING CODES.

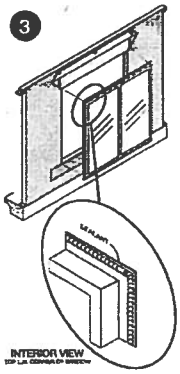
THESE INSTRUCTIONS ARE MINIMUM REQUIREMENTS ONLY, CHECK STATE AND LOCAL CODE RESTRICTIONS FOR ADDITIONAL COMPLIANCE ON INSTALLATION AND/OR FASTENING. IF UNIT HAS EXTERIOR TRIM (BRICKMOULD/J CHANNEL, ETC.) THE UNIT MUST BE SEALED BEHIND THE NAIL FIN, THE TRIM IS PROVIDED FOR AESTHETIC PURPOSES ONLY, AND NOT DESIGNED TO BE WATER TIGHT. INSTALLATION INTO MASONRY OR REPLACEMENT OPENINGS MUST BE SEALED TO THE OPENINGS USING AN APPROVED, PROPER METHOD. REFER TO AAMA 2400 AND/OR ASTM 2112 STANDARDS.

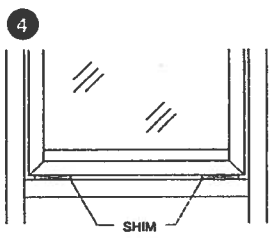
These installation instructions are provided for information only; no representation and warranty is made that these instructions set forth all of the information necessary for proper installation of the product. Given the variety of field conditions, primary responsibility for product installation rests with the installer. Do not proceed unless you have addressed the factors necessary to achieve weather-tight installation of a properly functioning product. MI Windows and Doors, Inc. assumes no liability for any personal injury or property damage incurred in installation. These instructions, together with the product specifications and warranty set forth the entire liability of MI Windows and Doors, Inc. with regard to the product.





Check for level, plumb and square.





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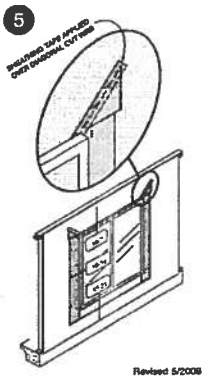


Revised 5/2008

Gulf Coast Supply & Mfg. Inc.

4020 SW 449TH ST • Horseshoe Beach, FL 32648

(352) 498-0778 • Toll Free (888) 393-0335 • FAX (352) 498-7852

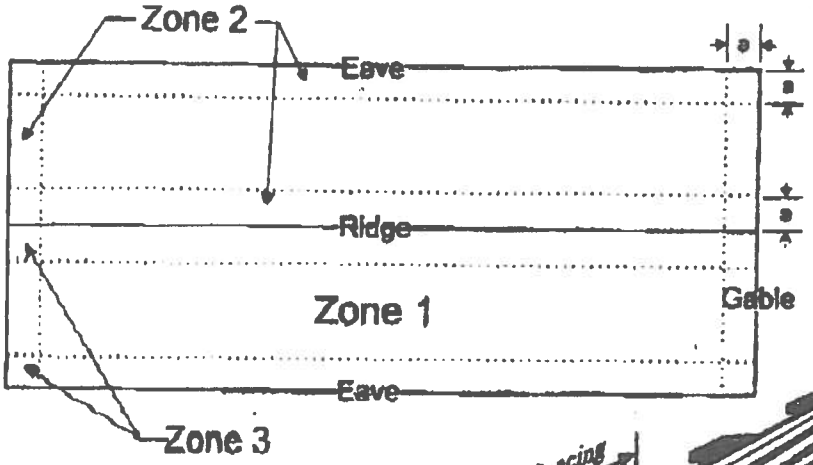
Gulf Coast Tuff-Rib® Roofing Panels

SECTION PROPERTIES											ALLOWABLE LOADS (PSF)															
Panel Gauge	Fy KSI	Thickness in.	Fb KSI Pos.	Fb KSI Neg.	Weight PSF	Girth in.	Ix in.⁴ Positive Bending	Sx in.³ Positive Bending	Ix in.⁴ Negative Bending	Sx in.³ Negative Bending	Wind Load 2'	2'6"	3'	3'6"	4'	Live Load (Stress) 2'	2'6"	3'	3'6"	4'	Live Load (Deflection) 2'	2'6"	3'	3'6"	4'
26 ga.	80	.0187	36	36	.91	42	.0288	.0462	.0288	.1662	170	109	76	56	42	128	82	57	42	32	102	52	30	19	13
29 ga.	80	.0142	36	36	.69	40.875	.0232	.0374	.0232	.1706	133	85	59	43	33	100	64	44	33	25	82	42	25	16	10

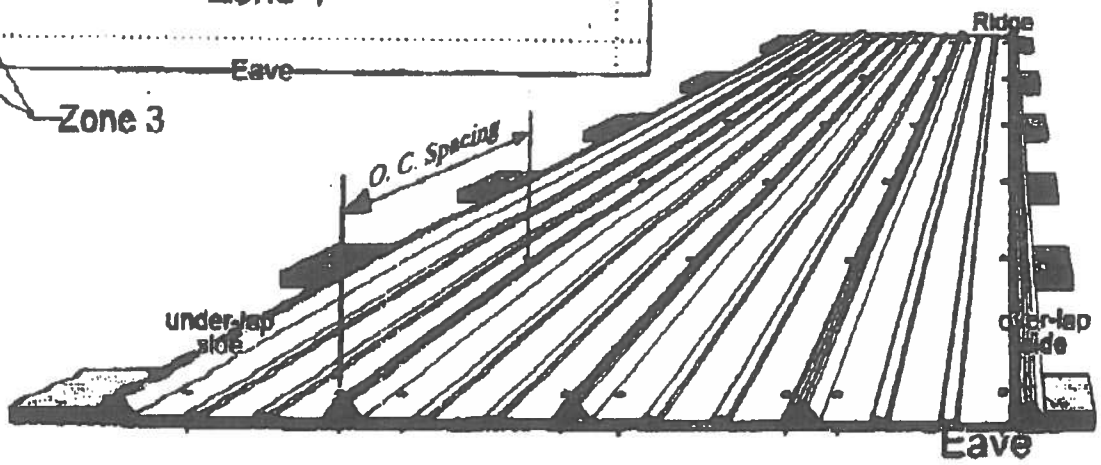
FL#2419

Fastening Schedule for Various Wind Speeds

				Wind Speed Region					
				100-110 MPH		120-130 MPH		140-150 MPH	
Roof Zone	Fastener Type	Fastener Size	Attaching to:	O.C. Spacing	Trim Areas	O.C. Spacing	Trim Areas	O.C. Spacing	Trim Areas
Zone 1	Woodgrip	#9 x 1	wood	36"	18"	24"	12"	24"	12"
	S/D TEK	#14 x 7/8	metal purlin	36"	18"	24"	12"	24"	12"
Zones 2 & 3	Woodgrip	#9 x 1	wood	36"	18"	24"	12"	16"	8"
	S/D TEK	#14 x 7/8	metal purlin	36"	18"	24"	12"	16"	8"



Note: Dimension a is defined as 10% of the minimum width of the building, or 40% of the mean height of the roof, whichever is smaller; however, a cannot be less than either 4% of the minimum width of the building, or 3 feet.

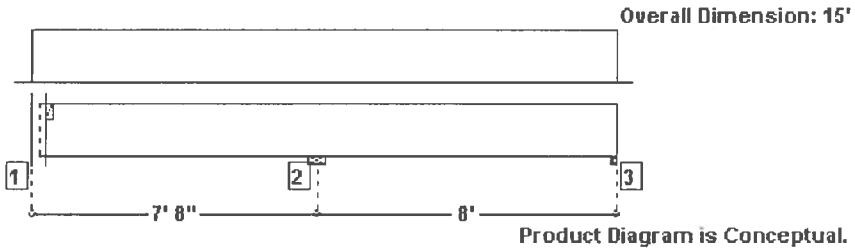


TJ-Beam® 6.25 Serial Number: 7004107292
User: 2 8/20/2007 12:20:26 PM
Page 1 Engine Version: 6.25.71

BEAM1

3 1/2" x 9 1/2" 1.7E TimberStrand® LSL

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



LOADS:

Analysis is for a Drop Beam Member. Tributary Load Width: 9'
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Pocket in masonry wall	4.25"	1.50"	1260 / 349 / 0 / 1609	L4	None
2	Plate on masonry wall	5.50"	3.10"	3472 / 1144 / 0 / 4616	Custom Detail	Beam to Joist Lateral Brace
3	Plate on masonry wall	1.75"	1.50"	1258 / 365 / 0 / 1623	Custom Detail	Beam to Joist Lateral Brace

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): L4
-User specified custom detail for support: 2, 3.

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	2357	1868	8867	Passed (21%)	Lt. end Span 2 under Floor loading
Moment (Ft-Lbs)	-3568	-3568	11654	Passed (31%)	Bearing 2 under Floor loading
Live Load Defl (in)		0.062	0.266	Passed (L/999+)	MID Span 2 under Floor ALTERNATE span loading
Total Load Defl (in)		0.076	0.399	Passed (L/999+)	MID Span 2 under Floor ALTERNATE span loading

-Deflection Criteria: STANDARD(LL:L/360,TL:L/240).
-Bracing(Lu): All compression edges (top and bottom) must be braced at 15' 8" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
-The load conditions considered in this design analysis include alternate member pattern loading.

ADDITIONAL NOTES:

-IMPORTANT! The analysis presented is output from software developed by Trus Joist (TJ). TJ warrants the sizing of its products by this software will be accomplished in accordance with TJ product design criteria and code accepted design values. The specific product application, input design loads, and stated dimensions have been provided by the software user. This output has not been reviewed by a TJ Associate.
-Not all products are readily available. Check with your supplier or TJ technical representative for product availability.
-THIS ANALYSIS FOR TRUS JOIST PRODUCTS ONLY! PRODUCT SUBSTITUTION VOIDS THIS ANALYSIS.
-Allowable Stress Design methodology was used for Building Code UBC analyzing the TJ Distribution product listed above.

PROJECT INFORMATION:

#L251203F
CASON BUILDERS
PLAN 9916

OPERATOR INFORMATION:

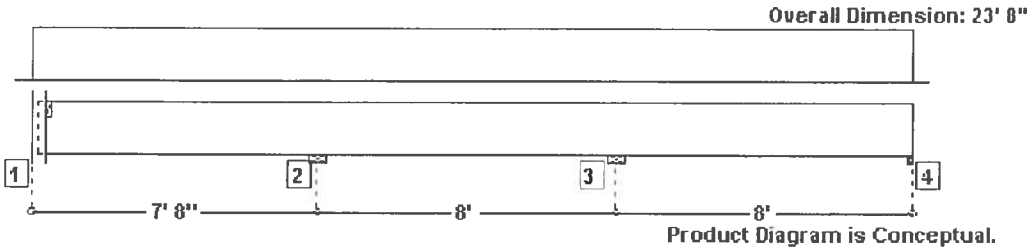
Brian Cannady
Builders First Source
Phone: (386)755-6894

M:\63Jobs\251\L251203F\BEAM1.smi

BEAM2

3 1/2" x 9 1/2" 1.7E TimberStrand® LSL

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



LOADS:

Analysis is for a Drop Beam Member. Tributary Load Width: 14'
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Pocket in masonry wall	4.25"	1.50"	2026 / 566 / 0 / 2592	L4	None
2	Plate on masonry wall	5.50"	4.48"	5163 / 1501 / 0 / 6664	Custom Detail	Beam to Joist Lateral Brace
3	Plate on masonry wall	5.50"	4.67"	5359 / 1590 / 0 / 6949	Custom Detail	Beam to Joist Lateral Brace
4	Plate on masonry wall	1.75"	1.73"	2010 / 570 / 0 / 2580	Custom Detail	Beam to Joist Lateral Brace

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): L4
-User specified custom detail for support: 2, 3, 4.

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	3614	2860	8867	Passed (32%)	Lt. end Span 3 under Floor ADJACENT span loading
Moment (Ft-Lbs)	-5323	-5323	11654	Passed (46%)	Bearing 3 under Floor ADJACENT span loading
Live Load Defl (in)		0.104	0.266	Passed (L/917)	MID Span 3 under Floor ALTERNATE span loading
Total Load Defl (in)		0.128	0.399	Passed (L/750)	MID Span 3 under Floor ALTERNATE span loading

-Deflection Criteria: STANDARD(LL:L/360,TL:L/240).
-Bracing(Lu): All compression edges (top and bottom) must be braced at 23' 8" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
-The load conditions considered in this design analysis include alternate and adjacent member pattern loading.

ADDITIONAL NOTES:

-IMPORTANT! The analysis presented is output from software developed by Trus Joist (TJ). TJ warrants the sizing of its products by this software will be accomplished in accordance with TJ product design criteria and code accepted design values. The specific product application, input design loads, and stated dimensions have been provided by the software user. This output has not been reviewed by a TJ Associate.
-Not all products are readily available. Check with your supplier or TJ technical representative for product availability.
-THIS ANALYSIS FOR TRUS JOIST PRODUCTS ONLY! PRODUCT SUBSTITUTION VOIDS THIS ANALYSIS.
-Allowable Stress Design methodology was used for Building Code UBC analyzing the TJ Distribution product listed above.

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Brian Cannady
Builders First Source
Phone : (386)755-6894

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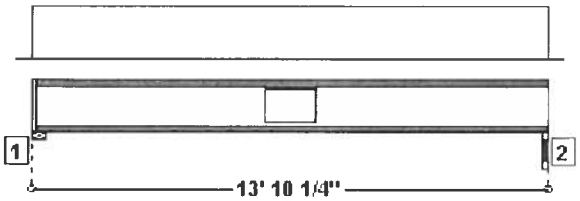
TJ-Beam® 6.25 Serial Number: 7004107292
User: 2 8/20/2007 11:30:15 AM
Page 1 Engine Version: 6.25.71

14' JOIST

11 7/8" TJI® 230 @ 24" o/c

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



Product Diagram is Conceptual.

LOADS:

Analysis is for a Joist Member.
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Plate on masonry wall	4.25"	3.00"	563 / 169 / 0 / 731	A3: Rim Board	1 Ply 1 1/4" x 11 7/8" 0.8E TJ-Strand Rim Board®
2	Microllam LVL beam	1.75"	1.75"	546 / 164 / 0 / 710	Custom Detail	

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): A3: Rim Board
-User specified custom detail for support: 2.

TJI HOLES:

	Diameter	Height	Width	Left End To Top Hole Center	Span	Design	Control		Comment
Maximum	9.13"	9.13"	14.42"	6' 11 1/8"	Span 1			Passed	

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	-703	-694	1655	Passed (42%)	Rt. end Span 1 under Floor loading
Vertical Reaction (lbs)	703	703	1035	Passed (68%)	Bearing 2 under Floor loading
Moment (Ft-Lbs)	2377	2377	4015	Passed (59%)	MID Span 1 under Floor loading
Live Load Defl (in)		0.182	0.338	Passed (L/891)	MID Span 1 under Floor loading
Total Load Defl (in)		0.237	0.676	Passed (L/685)	MID Span 1 under Floor loading
TJPro		41	30	Passed	Span 1

-Deflection Criteria: STANDARD(LL:L/480,TL:L/240).
-Deflection analysis is based on composite action with single layer of 23/32" Panels (24" Span Rating) GLUED & NAILED wood decking.
-Bracing(Lu): All compression edges (top and bottom) must be braced at 4' 6" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

TJ-Pro RATING SYSTEM

-The TJ-Pro Rating System value provides additional floor performance information and is based on a GLUED & NAILED 23/32" Panels (24" Span Rating) decking. The controlling span is supported by beams. Additional considerations for this rating include: Ceiling - None. A structural analysis of the deck has not been performed by the program.

ADDITIONAL NOTES:

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-THIS ANALYSIS FOR TRUS JOIST PRODUCTS ONLY! PRODUCT SUBSTITUTION VOIDS THIS ANALYSIS.
-Allowable Stress Design methodology was used for Building Code UBC analyzing the TJ Distribution product listed above.

Operator Notes:

SPAN WITH MAX. HOLE

PROJECT INFORMATION:

#L251203F
CASON BUILDERS
PLAN 9916

OPERATOR INFORMATION:

Brian Cannady
Builders First Source
Phone: (386)755-6894

M:\63Jobs\251\L251203F\FLJOIST1.sms

TJ-Beam® 6.25 Serial Number: 7004107292
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Page 1 Engine Version: 6.25.71

28' JOIST

11 7/8" TJI® 230 @ 24" o/c

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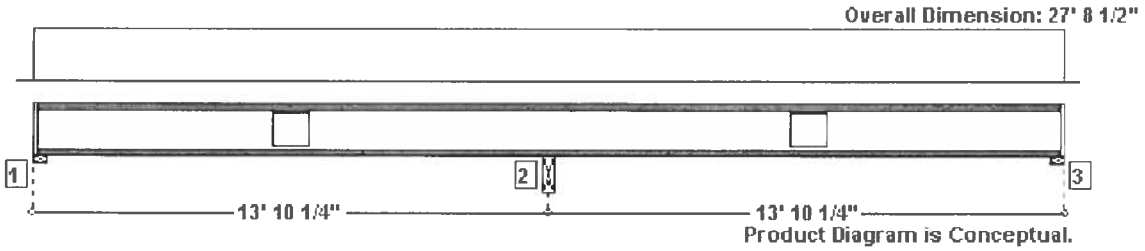

LOADS:

Analysis is for a Joist Member.
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Plate on masonry wall	4.25"	3.00"	497 / 129 / 0 / 626	A3: Rim Board	1 Ply 1 1/4" x 11 7/8" 0.8E TJ-Strand Rim Board®
2	Microllam LVL beam	3.50"	3.50"	1358 / 408 / 0 / 1766	B3	None
3	Plate on masonry wall	4.25"	3.00"	497 / 129 / 0 / 626	A3: Rim Board	1 Ply 1 1/4" x 11 7/8" 0.8E TJ-Strand Rim Board®

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): A3: Rim Board,B3

TJI HOLES:

	Diameter	Height	Width	Left End To Top Hole Center	Span	Design	Control		Comment
Maximum	9.13"	9.13"	10.30"	6' 11 1/8"	Span 1			Passed	
Maximum	9.13"	9.13"	10.30"	20' 9 3/8"	Span 2			Passed	

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	883	814	1821	Passed (45%)	Lt. end Span 2 under Floor loading
Vertical Reaction (lbs)	1766	1766	2410	Passed (73%)	Bearing 2 under Floor loading
Moment (Ft-Lbs)	-2399	-2399	4015	Passed (60%)	MID Span 2 under Floor loading
Live Load Defl (in)		0.132	0.340	Passed (L/999+)	MID Span 1 under Floor ALTERNATE span loading
Total Load Defl (in)		0.156	0.679	Passed (L/999+)	MID Span 1 under Floor ALTERNATE span loading
TJPro		43	30	Passed	Span 1

-Deflection Criteria: STANDARD(LL:L/480,TL:L/240).
-Deflection analysis is based on composite action with single layer of 23/32" Panels (24" Span Rating) GLUED & NAILED wood decking.
-Bracing(Lu): All compression edges (top and bottom) must be braced at 4' 6" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
-The load conditions considered in this design analysis include alternate member pattern loading.

TJ-Pro RATING SYSTEM

-The TJ-Pro Rating System value provides additional floor performance information and is based on a GLUED & NAILED 23/32" Panels (24" Span Rating) decking. The controlling span is supported by beams. Additional considerations for this rating include: Ceiling - None. A structural analysis of the deck has not been performed by the program.

ADDITIONAL NOTES:

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Operator Notes:

SPAN WITH MAX. HOLE

PROJECT INFORMATION:

#L251203F
CASON BUILDERS
PLAN 9916

OPERATOR INFORMATION:

Brian Cannady
Builders First Source
Phone: (386)755-6894

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3 1/2" x 9 1/2" 1.7E TimberStrand® LSL

TJ-Beam® 6.25 Serial Number: 7004107292
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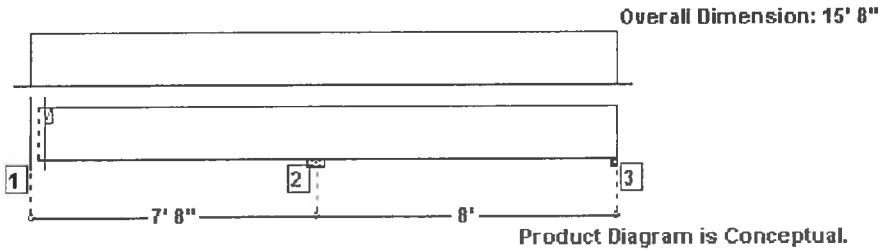
Page 1 Engine Version: 6.25.71

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



LOADS:

Analysis is for a Drop Beam Member. Tributary Load Width: 9'
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Pocket in masonry wall	4.25"	1.50"	1260 / 349 / 0 / 1609	L4	None
2	Plate on masonry wall	5.50"	3.10"	3472 / 1144 / 0 / 4616	Custom Detail	Beam to Joist Lateral Brace
3	Plate on masonry wall	1.75"	1.50"	1258 / 365 / 0 / 1623	Custom Detail	Beam to Joist Lateral Brace

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): L4
-User specified custom detail for support: 2, 3.

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	2357	1868	8867	Passed (21%)	Lt. end Span 2 under Floor loading
Moment (Ft-Lbs)	-3568	-3568	11654	Passed (31%)	Bearing 2 under Floor loading
Live Load Defl (in)		0.062	0.266	Passed (L/999+)	MID Span 2 under Floor ALTERNATE span loading
Total Load Defl (in)		0.076	0.399	Passed (L/999+)	MID Span 2 under Floor ALTERNATE span loading

-Deflection Criteria: STANDARD(LL:L/360,TL:L/240).
-Bracing(Lu): All compression edges (top and bottom) must be braced at 15' 8" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
-The load conditions considered in this design analysis include alternate member pattern loading.

ADDITIONAL NOTES:

-IMPORTANT! The analysis presented is output from software developed by Trus Joist (TJ). TJ warrants the sizing of its products by this software will be accomplished in accordance with TJ product design criteria and code accepted design values. The specific product application, input design loads, and stated dimensions have been provided by the software user. This output has not been reviewed by a TJ Associate.
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-Allowable Stress Design methodology was used for Building Code UBC analyzing the TJ Distribution product listed above.

PROJECT INFORMATION:

#L251203F
CASON BUILDERS
PLAN 9916

OPERATOR INFORMATION:

Brian Cannady
Builders First Source
Phone : (386)755-6894

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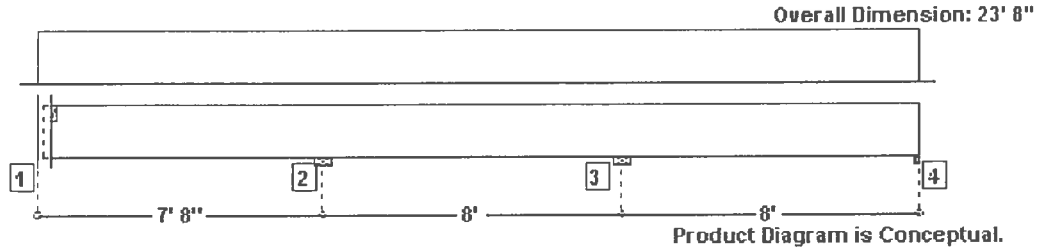
TJ-Beam® 6.25 Serial Number: 7004107292
User: 2 8/20/2007 12:15:46 PM
Page 1 Engine Version: 6.25.71

BEAM2

3 1/2" x 9 1/2" 1.7E TimberStrand® LSL

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



LOADS:

Analysis is for a Drop Beam Member. Tributary Load Width: 14'
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Pocket in masonry wall	4.25"	1.50"	2026 / 566 / 0 / 2592	L4	None
2	Plate on masonry wall	5.50"	4.48"	5163 / 1501 / 0 / 6664	Custom Detail	Beam to Joist Lateral Brace
3	Plate on masonry wall	5.50"	4.67"	5359 / 1590 / 0 / 6949	Custom Detail	Beam to Joist Lateral Brace
4	Plate on masonry wall	1.75"	1.73"	2010 / 570 / 0 / 2580	Custom Detail	Beam to Joist Lateral Brace

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): L4
-User specified custom detail for support: 2, 3, 4.

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	3614	2860	8867	Passed (32%)	Lt. end Span 3 under Floor ADJACENT span loading
Moment (Ft-Lbs)	-5323	-5323	11654	Passed (46%)	Bearing 3 under Floor ADJACENT span loading
Live Load Defl (in)		0.104	0.266	Passed (L/917)	MID Span 3 under Floor ALTERNATE span loading
Total Load Defl (in)		0.128	0.399	Passed (L/750)	MID Span 3 under Floor ALTERNATE span loading

-Deflection Criteria: STANDARD(LL:L/360,TL:L/240).
-Bracing(Lu): All compression edges (top and bottom) must be braced at 23' 8" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
-The load conditions considered in this design analysis include alternate and adjacent member pattern loading.

ADDITIONAL NOTES:

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PROJECT INFORMATION:

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CASON BUILDERS
PLAN 9916

OPERATOR INFORMATION:

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Builders First Source
Phone : (386)755-6894

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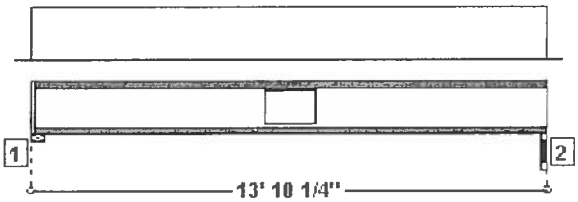
14' JOIST

11 7/8" TJI® 230 @ 24" o/c

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



Product Diagram is Conceptual.

LOADS:

Analysis is for a Joist Member.
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Plate on masonry wall	4.25"	3.00"	563 / 169 / 0 / 731	A3: Rim Board	1 Ply 1 1/4" x 11 7/8" 0.8E TJ-Strand Rim Board®
2	Microllam LVL beam	1.75"	1.75"	546 / 164 / 0 / 710	Custom Detail	

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): A3: Rim Board
-User specified custom detail for support: 2.

TJI HOLES:

	Diameter	Height	Width	Left End To Top Hole Center	Span	Design	Control		Comment
Maximum	9.13"	9.13"	14.42"	6' 11 1/8"	Span 1			Passed	

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	-703	-694	1655	Passed (42%)	Rt. end Span 1 under Floor loading
Vertical Reaction (lbs)	703	703	1035	Passed (68%)	Bearing 2 under Floor loading
Moment (Ft-Lbs)	2377	2377	4015	Passed (59%)	MID Span 1 under Floor loading
Live Load Defl (in)		0.182	0.338	Passed (L/891)	MID Span 1 under Floor loading
Total Load Defl (in)		0.237	0.676	Passed (L/685)	MID Span 1 under Floor loading
TJPro		41	30	Passed	Span 1

-Deflection Criteria: STANDARD(LL:L/480,TL:L/240).
-Deflection analysis is based on composite action with single layer of 23/32" Panels (24" Span Rating) GLUED & NAILED wood decking.
-Bracing(Lu): All compression edges (top and bottom) must be braced at 4' 6" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

TJ-Pro RATING SYSTEM

-The TJ-Pro Rating System value provides additional floor performance information and is based on a GLUED & NAILED 23/32" Panels (24" Span Rating) decking. The controlling span is supported by beams. Additional considerations for this rating include: Ceiling - None. A structural analysis of the deck has not been performed by the program.

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Operator Notes:

SPAN WITH MAX. HOLE

PROJECT INFORMATION:

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CASON BUILDERS
PLAN 9916

OPERATOR INFORMATION:

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Builders First Source
Phone : (386)755-6894

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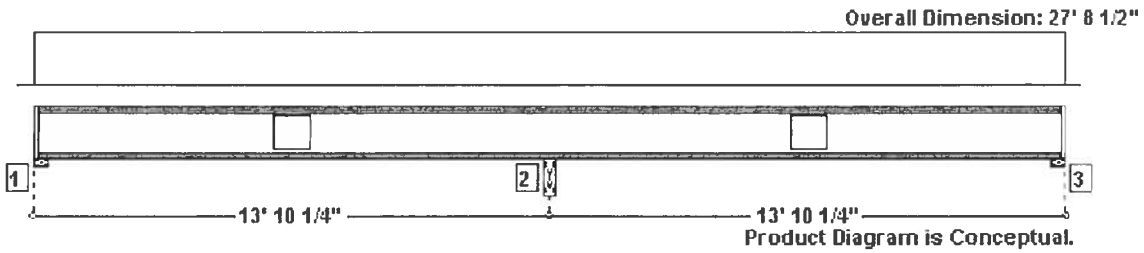

LOADS:

Analysis is for a Joist Member.
Primary Load Group - Residential - Living Areas (psf): 40.0 Live at 100 % duration, 12.0 Dead

SUPPORTS:

		Input Width	Bearing Length	Vertical Reactions (lbs) Live/Dead/Uplift/Total	Detail	Other
1	Plate on masonry wall	4.25"	3.00"	497 / 129 / 0 / 626	A3: Rim Board	1 Ply 1 1/4" x 11 7/8" 0.8E TJ-Strand Rim Board®
2	Microllam LVL beam	3.50"	3.50"	1358 / 408 / 0 / 1766	B3	None
3	Plate on masonry wall	4.25"	3.00"	497 / 129 / 0 / 626	A3: Rim Board	1 Ply 1 1/4" x 11 7/8" 0.8E TJ-Strand Rim Board®

-See TJ SPECIFIER'S / BUILDERS GUIDE for detail(s): A3: Rim Board,B3

TJI HOLES:

	Diameter	Height	Width	Left End To Top Hole Center	Span	Design	Control		Comment
Maximum	9.13"	9.13"	10.30"	6' 11 1/8"	Span 1			Passed	
Maximum	9.13"	9.13"	10.30"	20' 9 3/8"	Span 2			Passed	

DESIGN CONTROLS:

	Maximum	Design	Control	Control	Location
Shear (lbs)	883	814	1821	Passed (45%)	Lt. end Span 2 under Floor loading
Vertical Reaction (lbs)	1766	1766	2410	Passed (73%)	Bearing 2 under Floor loading
Moment (Ft-Lbs)	-2399	-2399	4015	Passed (60%)	MID Span 2 under Floor loading
Live Load Defl (in)		0.132	0.340	Passed (L/999+)	MID Span 1 under Floor ALTERNATE span loading
Total Load Defl (in)		0.156	0.679	Passed (L/999+)	MID Span 1 under Floor ALTERNATE span loading
TJPro		43	30	Passed	Span 1

-Deflection Criteria: STANDARD(LL:L/480,TL:L/240).
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Operator Notes:

SPAN WITH MAX. HOLE

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PLAN 9916

OPERATOR INFORMATION:

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Phone : (386)755-6894

M:\63Jobs\251\L251203F\FLJOIST2.sms

Attn: Meggie

Columbia County Building Department
Culvert Waiver

Culvert Waiver No. 000001480

DATE: 11/27/2007 BUILDING PERMIT NO. 26454

APPLICANT BILL CASON PHONE 454-1150

ADDRESS 10 NW 15TH ST HIGH SPRINGS FL 32643

OWNER MARY LEWIS/CAROL PAYNE PHONE

ADDRESS 203 SW RIVERLAND COURT FT. WHITE FL 32038

CONTRACTOR BILL CASON PHONE 454-1150

LOCATION OF PROPERTY 47S. TL ON CR 138. TR ON RUM ISLAND RD. 3RD LOT ON LEFT PAST LANGELIER

SUBDIVISION/LOT/BLOCK/PHASE/UNIT

PARCEL ID # 36-7S-16-04351-104

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: William J Cason

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: Ben Phillips DATE: 12-5-07

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
DEC 04 2007
By

COLUMBIA COUNTY GAINESVILLE FLORIDA

CERTIFICATE 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 36-7S-16-04351-104 **Building permit No.** 000026454

Use Classification SFD,UTILITY **Fire:** 61.05

Permit Holder BILL CASON **Waste:** 83.75

Owner of Building MARY LEWIS/CAROL PAYNE **Total:** 144.80

Location: 203 SW RIVERLAND COURT, FT. WHITE, FL

Date: 05/28/2008

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)