

Columbia County Building Permit Application

For Office Use Only Application # 1701-110 Date Received 1/31/07 By G Permit # 25497
 Application Approved by - Zoning Official BLK Date 05.02.07 Plans Examiner OK JTH Date 2-1-07
 Flood Zone X Development Permit NIA Zoning A-3 Land Use Plan Map Category A-3

Comments _____
☒ NOC ☒ EH ☐ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name Authorized Person Signing Permit LOYCE BARNARD Fax 497-1790 Phone 386-497-3536

Address 492 SW COLLINS LANE Fort White FL 32038

Owners Name LOYCE BARNARD Phone 386-497-3536

911 Address 1236 SW CENTERVILLE RD Fort White FL 32038

Contractors Name Marshall Barnard OWNER Builder Phone 386-497-3536

Address 492 SW Collins Lane Fort White FL 32038

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address None

Architect/Engineer Name & Address GARY J. GILL 130 W Howard ST Live Oak 32064

Mortgage Lenders Name & Address None

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

Property ID Number 03841-000 17-65-16 Estimated Cost of Construction \$140,000

Subdivision Name _____ Lot _____ Block _____ Unit _____ Phase _____

Driving Directions from LAKE CITY RT 47 TO ELIM CHURCH RD TAKE RIGHT ON CENTERVILLE

3/4 mile LEFT SIDE 1236 SW CENTERVILLE

Type of Construction Log Home Number of Existing Dwellings on Property None

Total Acreage 25 Lot Size 25 AC Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 400' Side 900' Side 500' Rear 450'

Total Building Height 20' Number of Stories 1 Heated Floor Area 1500 - Roof Pitch 7/12

TOTAL 2,300

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.

Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
COUNTY OF COLUMBIA



Sworn to (or affirmed) and subscribed before me

this 30th day of January 2007

Personally known ☒ or Produced Identification _____

Contractor Signature _____

Contractors License Number _____

Competency Card Number _____

NOTARY STAMP/SEAL

Carrie L. Revelle

Notary Signature _____

(Revised Sept. 2006)

notarizing owner name only Marshall L. Barnard Jr.

AV0012657 0013878

RONNIE BRANNON, CFC
COLUMBIA COUNTY TAX COLLECTOR

2006 REAL ESTATE

01154160000

ACCOUNT NUMBER	ESCROW CD	ASSESSED VALUE	EXEMPTIONS	TAXABLE VALUE	MILLAGE CODE
R03841-000		4,217	0	4,217	003

R

0012657 02 AV 0.530 **AUTO T5 0 0810 32038-1234



BARNARD LOYCE J
492 SW COLLINS LN
FT WHITE FL 32038

16-6S-17 5500/5500 25.09 acres
COMM NE COR, RUN S 273.30 FT
FOR POB, CONT S 782.70 FT, W
1396.56 FT, N 782.7 FT, E
1396.56 FT TO POB. ORB 534-310
See tax Roll for extra legal.

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

TAXING AUTHORITY	MILLAGE RATE (DOLLARS PER \$1,000 OF TAXABLE VALUE)	TAXES LEVIED
C001 BOARD OF COUNTY COMMISSIONERS	8.7260	36.80
S002 COLUMBIA COUNTY SCHOOL BOARD		
DISCRETIONARY		
LOCAL	.7600	3.21
CAPITAL OUTLAY	4.9750	20.98
W SR SUWANNEE RIVER WATER MGT DIST	2.0000	8.43
HLSH SHANDS AT LAKE SHORE	.4914	2.07
IIDA INDUSTRIAL DEVELOPEMENT AUTH	2.2500	9.49
	.1380	.58
TOTAL MILLAGE	19.3404	\$81.56

LEVYING AUTHORITY	NON-AD VALOREM ASSESSMENTS	AMOUNT
FFIR FIRE ASSESSMENTS	RATE	62.56



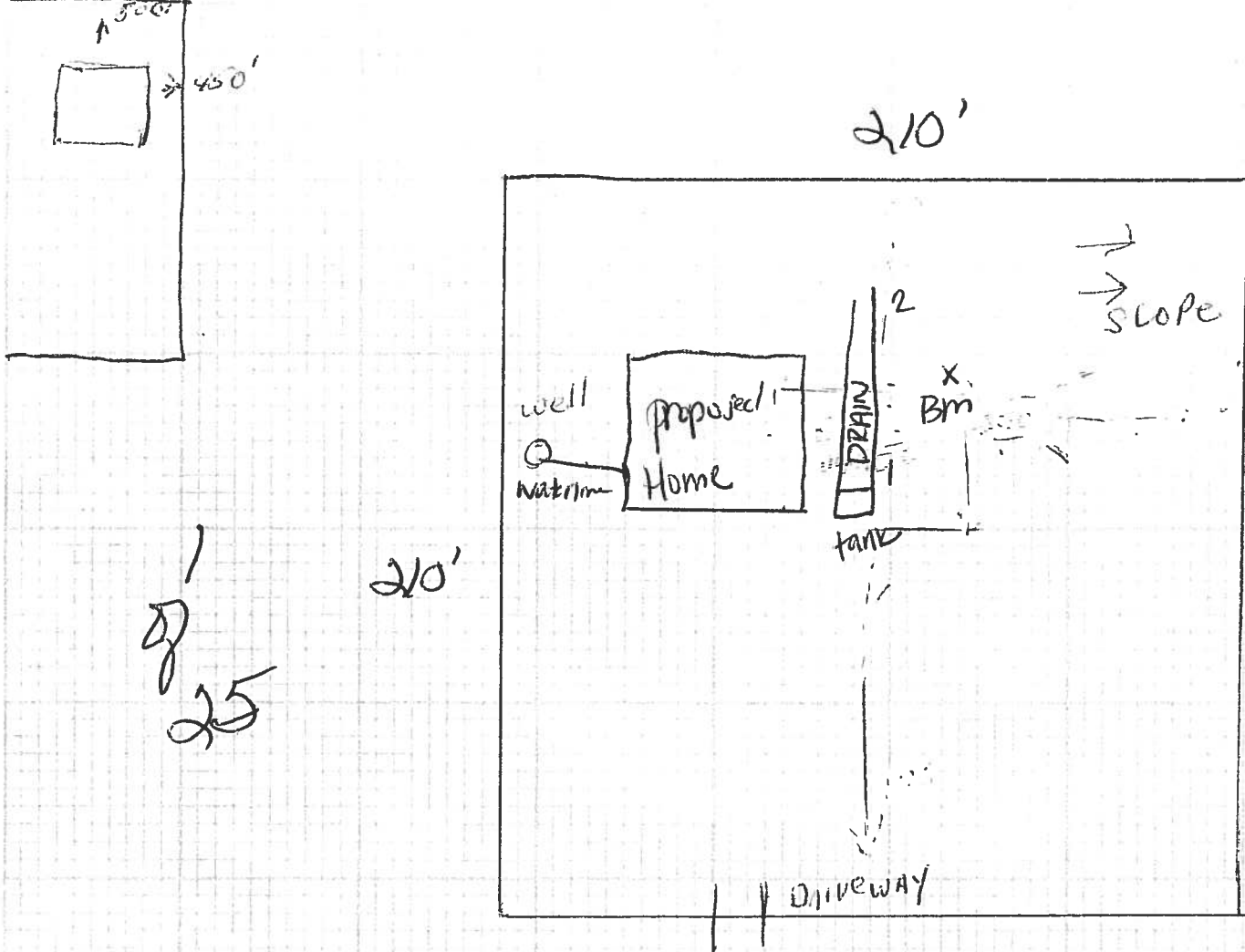
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-01085N

PART II - SITE PLAN

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



Notes:

Site Plan submitted by: M. Barakat Signature: [Signature] Title: M. Owner
Plan Approved ☒ Not Approved ☐ Date: Dec 8 2006
By: Sabri Maalouf ESII **Columbia CHD** County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

NOTORIZED DISCLOSURE STATEMENT

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

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

TYPE OF CONSTRUCTION

☒ Single Family Dwelling
☐ Farm Outbuilding

☐ Two-Family Residence
☐ Other _____

NEW CONSTRUCTION OR IMPROVEMENT

☒ New Construction

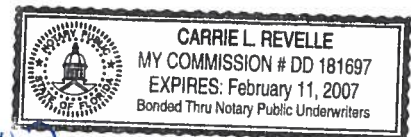
☐ Addition, Alteration, Modification or other Improvement

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

[Signature]
Owner/Builder Signature _____ Date _____

The above signer is personally known to me or produced identification FLDL B656-552-33-248-0

Notary Signature Carrie L. Revelle Date 1-30-07



(Stamp / Seal)

FOR BUILDING USE ONLY

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

Date _____ Building Official/Representative _____

WILLIAM J. HALEY, ESQUIRE
BRANNON, BROWN, HALEY,
ROBINSON & BULLOCK, P.A.
P. O. Box 1029
Lake City, FL 32056-1029

Inst:20010241A1 Date:12/21/2001 Time:14:25:43
Doc Stamp-Deed : 0.70
MCK DC, P. DeWitt Cason, Columbia County B:942 P:1366

WARRANTY DEED

THIS INDENTURE, made this 19th day of December, 2001, between **MARSHALL L. BARNARD, JR. a/k/a MARSHALL L. BARNARD a/k/a MARSHALL BARNARD**, and his wife, **LOYCE J. BARNARD a/k/a LOYCE BARNARD**, who reside in Columbia County, Florida, hereinafter referred to as Grantors, and **LOYCE J. BARNARD**, whose mailing address is Route 2, Box 4925, Fort White, Florida 32038, hereinafter referred to as Grantee.

WITNESSETH:

That said Grantors, for and in consideration of the sum of \$10.00 and other valuable consideration to said Grantors in hand paid by said Grantee, the receipt and sufficiency of which are hereby acknowledged, have granted, bargained and sold to the said Grantee, and Grantee's heirs and assigns forever, the following described land, lying, situate and being in Columbia County, Florida, to-wit:

TOWNSHIP 6 SOUTH - RANGE 16 EAST

SECTION 8:

Commence at the Northeast corner of SE¼ of SE¼ of Section 8 and run S 89°40' W, along the North line of S½ of SE¼, 21.16 chains; thence continue S 89°40' W, 488.82 feet to the Point of Beginning; thence S 2°00' W, 950.45 feet; thence S 89°40' W, 465.00 feet; thence N 2°00' E 950.45 to the North line of said S½ of SE¼; thence N 89°40' E, 465.00 feet to the Point of Beginning.

ALSO

Commence at the Southeast corner of said Section 8, and run S 89°31' W along the South line of said Section, 21.16 chains; thence N 0°26' W, 373.18 feet to the Point of Beginning; run thence S 89°40' W, 529.18 feet; thence N 2°00' E, 950.45 feet to the North line of the S½ of SE¼; thence N 89°40' E along said North line 488.82 feet; thence S 0°26' E, 949.66 feet to the Point of Beginning.

ALSO

A non exclusive, perpetual easement for ingress and egress over and across the following:

The East 100 feet of the following described parcel:

Commence at the Southeast corner of Section 8, and run thence S 89°16'35" W along the South line of said Section 8, 3151.01 feet to the Point of Beginning; thence run N 0°37'43" W, 1320.82 feet to the North line of the SE¼ of SW¼ of said Section 8; thence N 89°12'09" E along said North line of SE¼ of SW¼ and the North line of the SW¼ of SE¼, 799.96 feet; thence S 01°53'49" W, 937.00 feet; thence N 89°33'49" E, 996.54 feet; thence S 0°39'49" E, 235.53 feet; thence S 89°33'49" W, 596.54 feet; thence S 0°39'49" E, 500.77 feet to a point on the Easterly extension of the North line of Block 2 of Ichetucknee Gardens, an unrecorded subdivision; thence S 89°52'05" W along said North line and its Easterly extension, 1258.15 feet to the Northwest corner of Lot 9 of said Block 2 of Ichetucknee Gardens; thence S 01°16'01" E along the West line of said Lot 9, 54.28 feet; thence S 89°29'28" W, 50.00 feet to the Southeast corner of Lot 7 of Block 1 of said subdivision; thence N 1°16'01" W along the East line of said Lot 7, Block 1 to the Northeast corner of said Lot 7, Block 1; thence N 89°17'10" E, 150.60 feet; thence N 0°37'43" W, 193.60 feet to the Point of Beginning. Said lands being in Sections 8 and 17, Township 6 South, Range 16 East, Columbia County, Florida.

Subject To: An easement for ingress and egress over the following described property:

Commence at the Southeast corner of said Section 8, and run S 89°31' W along the South line of said Section, 21.16 chains; thence N 0°26' W, 373.18 feet to the Point of Beginning; run thence S 89°40'

W, 60 feet; thence N 2°00' E, 950.45 feet to the North line of S½ of SE¼; thence N 89°40' E along the North line 60 feet; thence S 0°26' E, 949.66 feet to the Point of Beginning.

SECTION 17:

Commence at the Northeast corner of Section 17, and run thence S 0°04'18" E along the East line of said Section, 273.30 feet to the Point of Beginning; thence continue S 0° 04'18" East along said East line, 782.70 feet; thence S 89°17'08" W, 1396.56 feet; thence N 0°04'18" W, 782.70 feet; thence N 89°17'08" E, 1396.56 feet to the Point of Beginning. Said lands being a part of the N½ of NE¼, of said Section.

ALSO

Commence at the Northeast corner of said Section 17 and run S 89°16'35" W along the North line of said Section, 1396.56 feet to the Point of Beginning; thence N 00°39'49" W, 145.23 feet; thence S 89°33'49" W, 596.54 feet; thence S 00°39'49" E, 500.77 feet; thence S 89°52'05" W, 458.47 feet to the Northeast corner of Lot 6, Block B, Ichetucknee Gardens, Unit 1, an unrecorded subdivision; thence Southerly along the East line of said Lot 6, 325.00 feet to the North line of a 50 foot roadway; thence Westerly along said North line of roadway, 800.00 feet; thence Northerly along the East line of said roadway 271.00 feet; thence Westerly along the North line of said roadway 1,409 feet, more or less, to the Easterly right of way line of the abandoned Atlantic Coastline Railroad; thence Southwesterly along said Easterly right of way line 55.21 feet, more or less, to the South line of said 50 foot roadway; thence Easterly along said South line of roadway, 1,385 feet, more or less; thence Southerly along the West line of said roadway 271 feet; thence Easterly along the South line of said roadway 1,000 feet to the Northeast corner of Lot 5, Block 2 of said Ichetucknee Gardens, Unit 1; thence Southerly along the East line of said Lot 5, 325.00 feet; thence Easterly 903.44 feet, more or less; thence N 00°04'18, 1,056.00 feet to the Point of Beginning.

Subject To: A non exclusive, perpetual easement for ingress and egress over and across a 50 foot roadway described as follows:

Commence at the Northeast corner of said Section 17 and run

S 89°16'35" W along the North line of said Section, 1,396.56 feet; thence N 00°39'49" W, 145.23 feet; thence S 89°33'49" W, 596.54 feet; thence S 00°39'49" E, 500.77 feet; thence S 89°52'05" W, 458.47 feet to the Northeast corner of Lot 6, Block B, Ichetucknee Gardens, Unit 1, an unrecorded subdivision; thence Southerly along the East line of said Lot 6, 325.00 feet to the Point of Beginning; thence Westerly 800.00 feet; thence Northerly 471.00 feet; thence Westerly 50.00 feet; thence Southerly 200.00 feet; thence Westerly along the North line of said roadway 1,359 feet, more or less, to the Easterly right of way line of the abandoned Atlantic Coastline Railroad; thence Southwesterly along said Easterly right of way line 55.21 feet, more or less, to the South line of said 50 foot roadway; thence Easterly along said South line of roadway 1,385 feet, more or less, thence Southerly along the West line of said roadway 271.00 feet; thence Easterly along the South line of said roadway 850.00 feet; thence Northerly 50.00 feet to the Point of Beginning.

SUBJECT TO: Taxes and special assessments for the year 2001 and subsequent years; restrictions, reservations, and easements of record; and zoning and any other governmental restrictions regulating the use of the lands.

PARCEL NOS. 08-6S-16-03801-001, 08-6S-16-03801-005, 17-6S-16-03841-000 and 17-6S-16-03842-000

and said Grantors do hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, Grantors have caused these presents to be executed the day and year first above written.

Inst:2001024181 Date:12/21/2001 Time:14:25:43
loc Stamp-Deed : 0.70
MK DC, P. DeWitt Cason, Columbia County B:942 P:1370

Signed, sealed and delivered
in the presence of:

Elaine R Hundley

Elaine R Hundley
Print Witness Name

Diana Cevallos

Diana Cevallos
Print Witness Name

Marshall L. Barnard, Jr.

MARSHALL L. BARNARD, JR. a/k/a
MARSHALL L. BARNARD a/k/a
MARSHALL BARNARD

Loyce J. Barnard

LOYCE J. BARNARD a/k/a
LOYCE BARNARD

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 19th day of December, 2001, by Marshall L. Barnard, Jr. a/k/a Marshall L. Barnard a/k/a Marshall Barnard, and Loyce J. Barnard a/k/a Loyce Barnard, who are both personally known to me, or who produced _____ and _____, respectively, as identification.

Diana Cevallos
Notary Public - State of Florida



NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

*****THIS DOCUMENT MUST BE RECORDED AT THE COUNTY
CLERKS OFFICE BEFORE YOUR FIRST INSPECTION.*****

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

Tax Parcel ID Number 03841-000

PERMIT NUMBER _____

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

1236 SW Centerville Fort White FL 32038

16-65-17 5500/5500 25.09 acres

COMM POB, CONTS 782.70 FT W 1396.56 FT N 782.7 FTE

1396.56 FT TO POB, ORB 534-310

2. General description of improvement: NEW HOME

3. Owner Name & Address LOYCE BARNARD 492 SW COLLINS LANE
FORT WHITE FL 32038 Interest in Property _____

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

5. Contractor Name SEEF MARSHALL BARNARD Phone Number 386-497-3536
Address 492 SW COLLINS LANE FORT WHITE FL

6. Surety Holders Name NONE

Phone Number _____

Address _____

Amount of Bond _____

7. Lender Name NONE

Phone Number _____

Address _____

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name NONE

Phone Number _____

Address _____

9. In addition to himself/herself the owner designates NONE

of

_____ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -

(a) 7. Phone Number of the designee _____

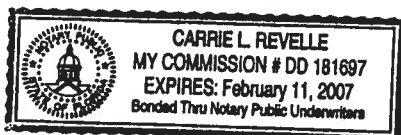
10. Expiration date of the Notice of Commencement (the eInst:2007002497 Date:01/31/2007 Time:16:21

(Unless a different date is specified) 12 DC, P. Dewitt Cason, Columbia County B:1109 P:1423

NOTICE AS PER CHAPTER 713, Florida Statutes:

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

[Signature]
Signature of Owner



Sworn to (or affirmed) and subscribed before
day of January 30th, 20 07

NOTARY STAMP/SEAL

[Signature]
Signature of Notary



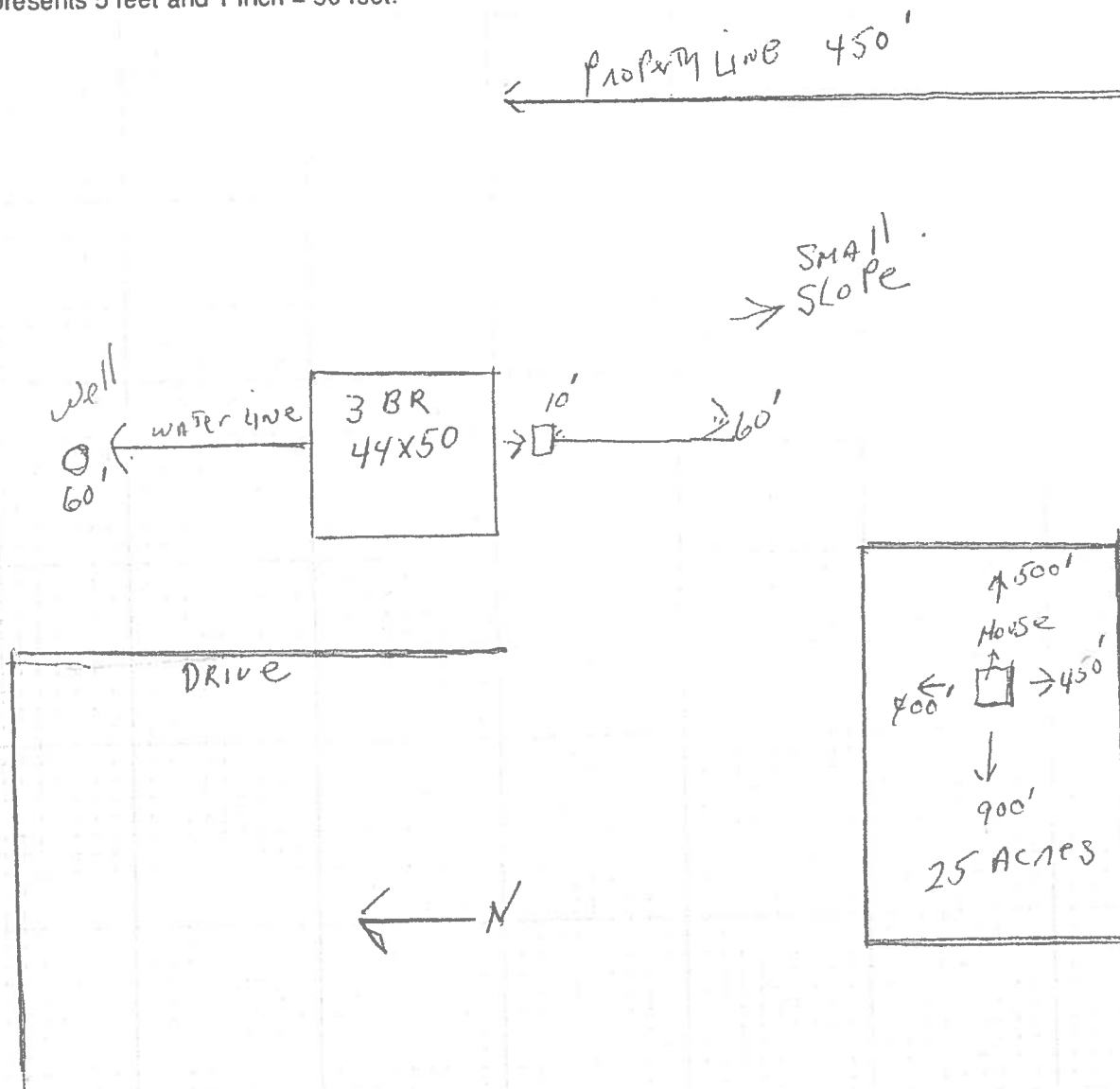
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number _____

PART II - SITE PLAN

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



Notes: House is ALMOST in The center of 25 ACRES No other structure
or well on This LAND

Site Plan submitted by: X M. BARNARD

[Signature]
Signature

M.H.

Title

Date Dec 7 2006

Plan Approved _____

Not Approved _____

By _____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Pat Lynch
P. O. BOX 934
Branford, FL 32008-0934
(386) 935-1076

SOLD TO:

Marshall Bernard
Centerville Rd.
FT. White

DATE: 12/12/06

INVOICE

4" Water well complete with 1HP submersible pump, 1 1/4" galvanized drop pipe, and
81 gal tank, maximum 100 feet included \$ 2650.00

28' Additional footage over 100 feet will be charged at \$ 12/foot. 338.00

Suwannee River Water Management District - well permit

TOTAL DUE \$ 2986.

Well will be complete at the well site. We do not include electrical nor plumbing connections from the well to the home and/or power pole.

well 128'
pump 84'
water 68'

THANK YOU!

Seller shall retain title to the described merchandise until such merchandise has been paid for by the buyer, however, buyer shall have the right to use, display, move, prepare, or otherwise deal with the merchandise solely in connection with the sale of such merchandise to buyers in the ordinary course of business. The merchandise delivered hereby is to be paid for upon delivery and if not paid for within thirty (30) days after receipt, interest and service charges shall accrue at the rate of 1 1/2% per month; this charge is equivalent to an interest rate of 18% per annum from the date of receipt. In the event it shall become necessary for seller to collect the purchase price, or any part thereof, buyer agrees to pay to seller all of the cost of collection including reasonable attorney's fees and all incidental damages suffered by the seller. The buyer shall have five (5) days after receipt to notify seller of any defects or shortages in the merchandise. If buyer has not so notified seller within such five-day period such rights shall have waived and such merchandise shall be deemed to have been received in good condition. Seller warrants that the merchandise is merchantable and free from defects in material and workmanship. Seller makes no other express or implied warranties and does not warrant that the merchandise is fit for any particular purpose. Buyer further agrees that the site of this contract and place for payment is Suwannee County, Florida. The buyer acknowledges acceptance of the above stated items and conditions of this sale by his receipt and retention for five days the merchandise shipped or delivered by the seller.

NOT RESPONSIBLE FOR QUALITY OF WATER

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: Barnard Residence	Builder:
Address:	Permitting Office:
City, State: ,	Permit Number:
Owner: Loyce Barnard	Jurisdiction Number:
Climate Zone: North	

1. New construction or existing New <input type="checkbox"/>	12. Cooling systems
2. Single family or multi-family Single family <input type="checkbox"/>	a. Central Unit Cap: 24.0 kBtu/hr
3. Number of units, if multi-family 1 <input type="checkbox"/>	SEER: 15.00
4. Number of Bedrooms 3 <input type="checkbox"/>	b. N/A <input type="checkbox"/>
5. Is this a worst case? Yes <input type="checkbox"/>	c. N/A <input type="checkbox"/>
6. Conditioned floor area (ft ²) 1500 ft² <input type="checkbox"/>	13. Heating systems
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)	a. Electric Heat Pump Cap: 24.0 kBtu/hr
a. U-factor: Description Area	HSPF: 8.30
(or Single or Double DEFAULT) 7a. (Dble Default) 283.6 ft ² <input type="checkbox"/>	b. N/A <input type="checkbox"/>
b. SHGC:	c. N/A <input type="checkbox"/>
(or Clear or Tint DEFAULT) 7b. (Clear) 283.6 ft ² <input type="checkbox"/>	14. Hot water systems
8. Floor types	a. Electric Resistance Cap: 40.0 gallons
a. Raised Wood, Stem Wall R=13.0, 1500.0ft² <input type="checkbox"/>	EF: 0.97
b. N/A <input type="checkbox"/>	b. N/A <input type="checkbox"/>
c. N/A <input type="checkbox"/>	c. Conservation credits
9. Wall types	(HR-Heat recovery, Solar
a. Log, 6 inch, Exterior R=0.0, 948.0 ft² <input type="checkbox"/>	DHP-Dedicated heat pump)
b. N/A <input type="checkbox"/>	15. HVAC credits MZ-C, PT, CF, MZ- <input type="checkbox"/>
c. N/A <input type="checkbox"/>	(CF-Ceiling fan, CV-Cross ventilation,
d. N/A <input type="checkbox"/>	HF-Whole house fan,
e. N/A <input type="checkbox"/>	PT-Programmable Thermostat,
10. Ceiling types	MZ-C-Multizone cooling,
a. Single Assembly R=19.0, 1740.0 ft² <input type="checkbox"/>	MZ-H-Multizone heating)
b. N/A <input type="checkbox"/>	
c. N/A <input type="checkbox"/>	
11. Ducts	
a. Sup: Con. Ret: Con. AH: Outdoors Sup. R=6.0, 150.0 ft <input type="checkbox"/>	
b. N/A <input type="checkbox"/>	

Glass/Floor Area: 0.19

Total as-built points: 22608

Total base points: 22962

PASS

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

PREPARED BY: GARY GILL

DATE: 1/24/07

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.

BUILDING OFFICIAL: _____

DATE: _____



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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area											
				Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF = Points	
.18	1500.0	20.04	5410.8	Double, Clear	N	10.0	5.4	11.7	19.20	0.63	141.4
				Double, Clear	N	10.0	2.5	12.0	19.20	0.59	136.7
				Double, Clear	N	10.0	5.4	46.8	19.20	0.63	565.6
				Double, Clear	N	10.0	4.6	15.0	19.20	0.62	177.3
				Double, Clear	E	2.0	9.7	30.0	42.06	0.94	1190.8
				Double, Clear	E	2.0	7.4	9.0	42.06	0.90	340.2
				Double, Clear	S	10.0	4.4	60.0	35.87	0.44	956.1
				Double, Clear	S	10.0	4.4	20.0	35.87	0.44	318.7
				Double, Clear	S	10.0	3.0	10.1	35.87	0.43	156.5
				Double, Clear	W	2.0	9.9	60.0	38.52	0.95	2191.1
				Double, Clear	W	2.0	12.5	9.0	38.52	0.97	337.6
				As-Built Total:		283.6				6511.9	
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Log, 6 inch, Exterior	0.0		948.0	1.50	1422.0		
Exterior	948.0	1.70	1611.6								
Base Total:				As-Built Total:		948.0				1422.0	
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	0.0	0.00	0.0	Exterior Wood			16.6	6.10	101.3		
Exterior	48.1	4.10	197.2	Exterior Wood			8.3	6.10	50.6		
				Exterior Wood			23.2	6.10	141.5		
Base Total:				As-Built Total:		48.1				293.4	
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1500.0	1.73	2595.0	Single Assembly	19.0		1740.0	5.64 X 1.00		9813.6	
Base Total:				As-Built Total:		1740.0				9813.6	
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	0.0(p)	0.0	0.0	Raised Wood, Stern Wall	13.0		1500.0	-1.80	-2700.0		
Raised	1500.0	-3.99	-5985.0								
Base Total:				As-Built Total:		1500.0				-2700.0	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BSPM = Points				Area X SPM = Points			
1500.0 10.21 15315.0				1500.0 10.21 15315.0			
Summer Base Points: 19144.6				Summer As-Built Points: 30655.9			
Total Summer X System = Cooling Points Multiplier Points				Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)			
19144.6 0.4266 8167.1				(sys 1: Central Unit 24000 btuh ,SEER/EFF(15.0) Ducts:Con(S),Con(R),Out(AH),R6.0(INS) 30656 1.00 (1.00 x 1.147 x 1.02) 0.228 0.857 6996.7 30655.9 1.00 1.170 0.228 0.857 6996.7			

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
GLASS TYPES										
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt	Area X WPM X WOF = Points				
.18	1500.0	12.74	3439.8	Double, Clear	N 10.0 5.4	11.7	24.58	1.02	294.6	
				Double, Clear	N 10.0 2.5	12.0	24.58	1.03	303.0	
				Double, Clear	N 10.0 5.4	46.8	24.58	1.02	1178.5	
				Double, Clear	N 10.0 4.6	15.0	24.58	1.03	378.1	
				Double, Clear	E 2.0 9.7	30.0	18.79	1.02	577.7	
				Double, Clear	E 2.0 7.4	9.0	18.79	1.04	176.0	
				Double, Clear	S 10.0 4.4	60.0	13.30	3.56	2840.8	
				Double, Clear	S 10.0 4.4	20.0	13.30	3.56	946.9	
				Double, Clear	S 10.0 3.0	10.1	13.30	3.66	491.6	
				Double, Clear	W 2.0 9.9	60.0	20.73	1.01	1261.0	
				Double, Clear	W 2.0 12.5	9.0	20.73	1.01	187.9	
				As-Built Total:	283.6				8636.1	
WALL TYPES Area X BWPM = Points				Type	R-Value	Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Log, 6 inch, Exterior	0.0	948.0	4.50		4266.0	
Exterior	948.0	3.70	3507.6							
Base Total:	948.0		3507.6	As-Built Total:		948.0			4266.0	
DOOR TYPES Area X BWPM = Points				Type		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Wood		16.6	12.30		204.2	
Exterior	48.1	8.40	404.0	Exterior Wood		8.3	12.30		102.1	
				Exterior Wood		23.2	12.30		285.4	
Base Total:	48.1		404.0	As-Built Total:		48.1			591.6	
CEILING TYPES Area X BWPM = Points				Type	R-Value	Area X WPM X WCM = Points				
Under Attic	1500.0	2.05	3075.0	Single Assembly	19.0	1740.0	1.86 X 1.00		3236.4	
Base Total:	1500.0		3075.0	As-Built Total:		1740.0			3236.4	
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM = Points				
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	13.0	1500.0	1.10		1650.0	
Raised	1500.0	0.96	1440.0							
Base Total:			1440.0	As-Built Total:		1500.0			1650.0	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT					
INFILTRATION Area X BWPM = Points				Area X WPM = Points					
1500.0 -0.59 -885.0				1500.0 -0.59 -885.0					
Winter Base Points:		10981.4		Winter As-Built Points:		17495.1			
Total Winter X Points	System = Multiplier	Heating Points		Total X Component (System - Points)	Cap X Ratio (DM x DSM x AHU)	Duct X Multiplier	System X Multiplier	Credit = Multiplier	Heating Points
10981.4	0.6274	6889.8		(sys 1: Electric Heat Pump 24000 btuh ,EFF(8.3) Ducts:Con(S),Con(R),Out(AH),R6.0 17495.1 1.000 (1.000 x 1.169 x 1.07) 0.411 0.902 8114.1 17495.1 1.00 1.251 0.411 0.902 8114.1					

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 X Multiplier X Credit = Total Multiplier
3		2635.00		7905.0	40.0	0.97	3	1.00	2499.18 1.00 7497.5
					As-Built Total:				7497.5

CODE COMPLIANCE STATUS												
BASE							AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
8167		6890		7905		22962	6997		8114		7498	22608

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

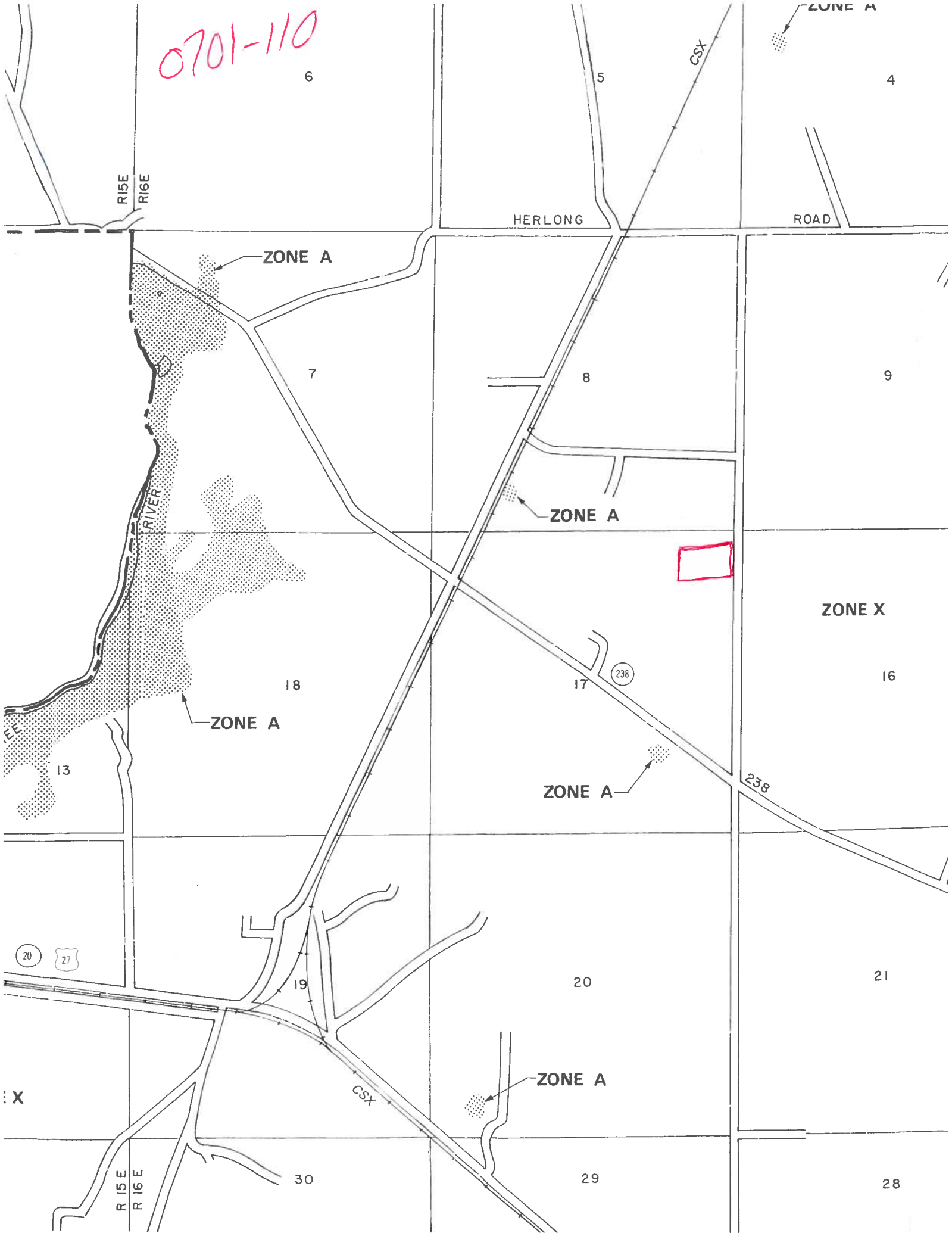
6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

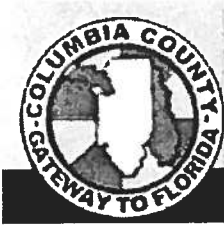
COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall 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 circ 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.	

0701-110





From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: **0701-110**
Applicant: Marshall Barnard, Owner/Builder: Property ID 17-6s-16-03841-000

On the date of February 1, 2007 application 0701-110 and plans for construction of single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

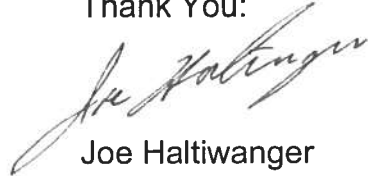
Please include application number 0701-110 and when making reference to this application.

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

1. On the plans a structural drawing detail that a load bearing corner post (referred to on the plans as tree by owner) will be used to support the beams, rafters and roof system which will cover the porches. Please have the plans refer to these corner posts as supporting logs. Submit documentation which will certify that these logs will have the required structural strength to supports the beams, rafters and roof system. Also have these logs certified as required by the Florida Building Code chapter 23 wood, sections 2303.1.1 lumber:

Lumber used for load-supporting purposes, including end-jointed or edge-glued lumber, machine stress-rated or machine evaluated lumber, shall be identified by the grade mark of a lumber grading or inspection agency that has been approved by an accreditation body that complies with DOC PS 20 or equivalent. Grading practices and identification shall comply with rules published by an agency approved in accordance with the procedures of DOC PS 20 or equivalent procedures. In lieu of a grade mark on the material, a certificate of inspection as to species and grade issued by a lumber-grading or inspection agency meeting the requirements of this section is permitted to be accepted for precut, remanufactured or rough-sawn lumber, and for sizes larger than 3 inches (76 mm) nominal thickness. Approved end-jointed lumber is permitted to be used interchangeably with solid-sawn members of the same species and grade.

Thank You:

A handwritten signature in black ink, appearing to read "Joe Haltiwanger", written in a cursive style.

Joe Haltiwanger
Plan Examiner
Columbia County Building
Department



February 1, 2007

Dear Sir or Madam:

RE: Barnard Project App # 0701-110 - Grading requirement of owner-supplied trees

It has come to our attention that the owner-supplied trees may not have the proper grading and/or moisture content as required by FS §2303, FS §R502, FS §R602, and FS §R802. In an effort to maintain compliance with the relevant building codes, Suwannee River Log Homes agrees to provide grading for these trees by a certified grader.

If there are any additional questions regarding these plans please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to be "K. Blackie", with a long horizontal line extending to the right.

Keith Blackie
Suwannee River Log Homes



STRUCTURAL AND WIND LOAD CALCULATIONS

For

Suwannee River Log Homes

Loyce J. Barnard

**Gary Gill, P.E. 51942
P.O. Box 187
130 West Howard Street
Live Oak, FL 32064
Ph. (386) 362-3678
Fax (386) 362-6133
AUTH # 9461**

FILE COPY

Project name: Loyce Barnard
Project: 0
Client SRLH
Calculations: Gary Gill, PE
Date: 1/16/2007

Design Basis

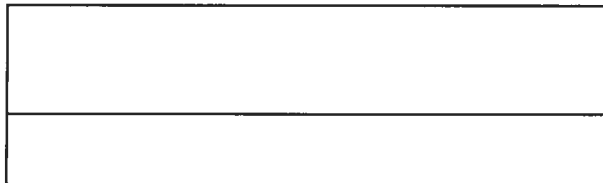
Design Loads

Wind Load	110
Floor Live Load	
Sleep Areas =	30 psf
All Others =	40 psf
Floor Dead Load	10 psf
Wall Dead Load	10 psf
Roof Live Load	20 psf
Roof Dead Load	10 psf

Load Combinations

DL + LL(floor) + LL (roof)
DL + LL(floor) +WL
DL + WL
Wind load

Exposure B



Building Information

Shape	Rectangle
Length	50 ft
Width	30 ft
Type	1 Story

References

2004 Florida Building Code
ASCE 7-98 Minimum Design Loads for Buildings and Other Structures
AITC Timber Construction Manual

Project Name Loyce Barnard
 Project Number
 Client SRLH

Date 1/16/2007

Windloading

DATA SHEET

Wind 110 mph
 Building Length 50 ft
 Building Width 30 ft
 Type 1 Story

LOAD SHEET DATA

RAFTERS

Element	Description	Spacing (ft)	Rafter Horz. Length (ft)	Pitch (:12)	Dead Load (psf)	Live Load (psf)	Wind Load (psf)
Rafter 1	4x10 DF	4	15	7	10	20	-13.10

RIDGE BEAMS

Element	Description	Tributary Width
Ridge Beam 1	5-1/8 x 16-1/2 Glu-lam	15

WALL LOADS

Dead 10 psf
 Wall height 8 psf

FLOOR JOIST

Element	Description	Spacing (ft)	Dead Load (psf)	Live Load (psf)
Floor Joist 1	2X10 SYP	13.3	10	40

FLOOR GIRDERS

Element	Description	Tributary Width (ft)	Dead Load (psf)	Live Load (psf)
Floor Girder 1	3-2x10 SYP	7.5	10	40

TRUSS UPLIFT

Element	Description	Spacing (in)	Pitch (:12)	Span (ft)	Dead (psf)	Windward Overhang (psf)	Windward Roof (psf)

BEAMS

Element	Description	Tributary Width (ft)	Dead Load (psf)	Live Load (psf)

PERFORATED SHEARWALLS (WOOD FRAMED WALLS)

1st Floor Height		Shearwall information	truss span	ft
2nd Floor height		Perpendicular		
Surface1	psf		Shearwall length 1	ft
Surface2	psf		Shearwall length 2	ft
Surface3	psf		sheath length1	
Surface4	psf		sheath length2	
Surface5	psf			
Surface6	psf			
Roof Area 1	sf	Parallel		
Roof Area 2	sf		shearwall length a	
wall area 1	sf		Shearwall length b	
wall area 2	sf		sheath lengtha	
found area 1			sheath lengthb	
found area 2				
Roof Area a				
Roof Area b				
wall area a				
wall area b				
found area a				
found area b				

DIAPHRAGMS

East / West Walls	Shear on walls	lb
North / South Walls	Shear on walls	lb

WIND02 v2-21

Detailed Wind Load Design (Method 2) per ASCE 7-02

Analysis by: G. GILL		Company Name: GTC DESIGNGROUP	
Description: Loyce Barnard			

User Input Data		
Structure Type	Building	
Basic Wind Speed (V)	110	mph
Struc Category (I, II, III, or IV)	II	
Exposure (B, C, or D)	B	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof	7.0	:12
Slope of Roof (Theta)	30.3	Deg
Type of Roof	Gabled	
Kd (Directionality Factor)	0.85	
Eave Height (Eht)	10.80	ft
Ridge Height (RHt)	20.80	ft
Mean Roof Height (Ht)	15.80	ft
Width Perp. To Wind Dir (B)	50.00	ft
Width Paral. To Wind Dir (L)	30.00	ft

Calculated Parameters	
Type of Structure	
Height/Least Horizontal Dim	0.53
Flexible Structure	No

Calculated Parameters		
Importance Factor	1	
<i>Hurricane Prone Region (V>100 mph)</i>		
Table 6-2 Values		
Alpha =	7.000	
zg =	1200.000	
At =	0.143	
Bt =	0.840	
Bm =	0.450	
Cc =	0.300	
I =	320.00	ft
Epsilon =	0.333	
Zmin =	30.00	ft

Gust Factor Category I: Rigid Structures - Simplified Method		
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85
Gust Factor Category II: Rigid Structures - Complete Analysis		
Zm	Zmin	30.00 ft
lzm	$Cc * (33/z)^{0.167}$	0.3048
Lzm	$I * (zm/33)^{Epsilon}$	309.99 ft
Q	$(1/(1+0.63*((B+Ht)/Lzm)^{0.63}))^{0.5}$	0.8990
Gust2	$0.925 * ((1+1.7 * lzm * 3.4 * Q)/(1+1.7 * 3.4 * lzm))$	0.8654
Gust Factor Summary		
G	Since this is not a flexible structure the lessor of Gust1 or Gust2 are used	0.85

Fig 6-5 Internal Pressure Coefficients for Buildings, Gcpi

Condition	Gcpi	
	Max +	Max -
Open Buildings	0.00	0.00
Partially Enclosed Buildings	0.55	-0.55
Enclosed Buildings	0.18	-0.18
Enclosed Buildings	0.18	-0.18

WIND02 v2-21

Detailed Wind Load Design (Method 2) per ASCE 7-02

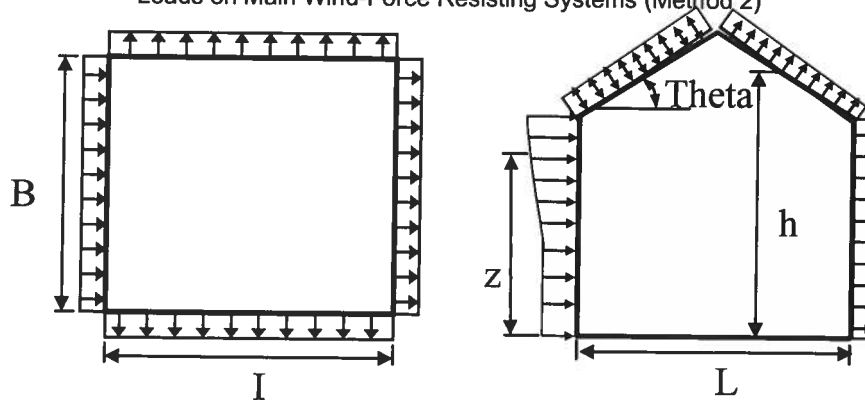
6.5.12.2.1 Design Wind Pressure - Buildings of All Heights

Elev ft	Kz	Kzt	qz lb/ft ²	Pressure (lb/ft ²)					Shear (Kip)	Moment (Kip-ft)
				Windward Wall*		Leeward Wall		Total		
				+GCpi	-GCpi	+GCpi	-GCpi	+/-Gcpi		
20.8	0.63	1.00	16.61	8.53	14.06	-9.29	-3.76	17.82	0.71	0.29
20	0.62	1.00	16.43	8.41	13.94	-9.29	-3.76	17.70	4.43	8.38
15.8	0.58	1.00	15.36	7.68	13.21	-9.29	-3.76	16.97	5.11	17.95
15	0.57	1.00	15.13	7.53	13.05	-9.29	-3.76	16.82	17.72	191.22

Note: 1) Positive forces act toward the face and Negative forces act away from the face.

Figure 6-6 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems (Method 2)



Variable	Formula	Value	Units
Kh	$2.01 \cdot (Ht/zg)^{2/\alpha}$	0.58	
Kht	Topographic factor (Fig 6-4)	1.00	
Qh	$.00256 \cdot V^2 \cdot I \cdot Kh \cdot Kht \cdot Kd$	15.36	psf
Khcc	Comp & Clad: Table 6-3 Case 1	0.70	
Qhcc	$.00256 \cdot V^2 \cdot I \cdot Khcc \cdot Kht \cdot Kd$	18.45	psf

Wall Pressure Coefficients, Cp	
Surface	Cp
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.8

Roof Pressure Coefficients, Cp	
Roof Area (sq. ft.)	-
Reduction Factor	1.00

Calculations for Wind Normal to 50 ft Face		Cp		Pressure (psf)	
Additional Runs may be req'd for other wind directions				+GCpi	-GCpi
Leeward Walls (Wind Dir Normal to 50 ft wall)		-0.50		-9.29	-3.76
Leeward Walls (Wind Dir Normal to 30 ft wall)		-0.37		-7.55	-2.02
Side Walls		-0.70		-11.90	-6.37
Roof - Wind Normal to Ridge (Theta >= 10) - for Wind Normal to 50 ft face					
Windward - Min Cp		-0.21		-5.44	0.09
Windward - Max Cp		0.21		-0.08	5.45
Leeward Normal to Ridge		-0.60		-10.60	-5.07

WIND02 v2-21

Detailed Wind Load Design (Method 2) per ASCE 7-02

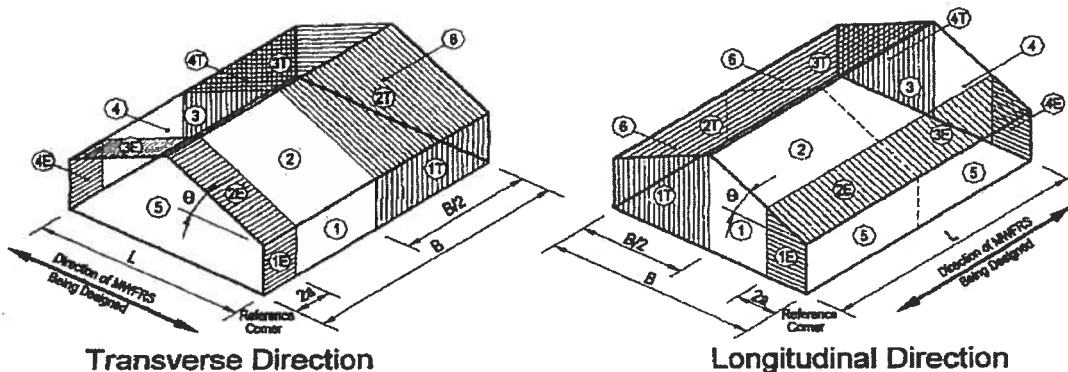
Overhang Top (Windward)	-0.21	-2.68	-2.68
Overhang Top (Leeward)	-0.60	-7.83	-7.83
Overhang Bottom (Applicable on Windward only)	0.80	10.29	10.29
Roof - Wind Parallel to Ridge (All Theta) - for Wind Normal to 30 ft face			
Dist from Windward Edge: 0 ft to 31.6 ft - Max Cp	-0.18	-5.11	0.41
Dist from Windward Edge: 0 ft to 7.9 ft - Min Cp	-0.75	-12.59	-7.06
Dist from Windward Edge: 7.9 ft to 15.8 ft - Min Cp	-0.90	-14.51	-8.98
Dist from Windward Edge: 15.8 ft to 31.6 ft - Min Cp	-0.50	-9.29	-3.76
Dist from Windward Edge: > 31.6 ft	-0.30	-6.68	-1.15

* Horizontal distance from windward edge

Figure 6-10 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht ≤ 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.70
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	18.45
Theta =	Angle of Roof	=	30.3 Deg



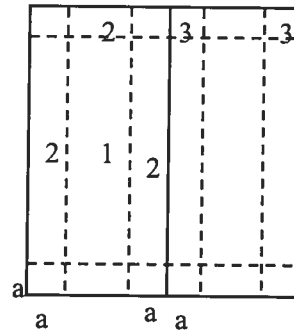
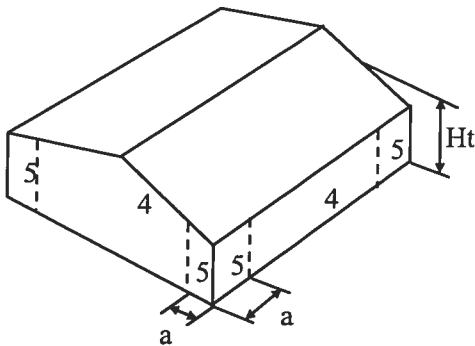
Torsional Load Cases

Wind Pressures on Main Wind Force Resisting System						
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	0.56	0.18	-0.18	18.45	7.01	13.65
2	0.21	0.18	-0.18	18.45	0.55	7.19
3	-0.43	0.18	-0.18	18.45	-11.25	-4.61
4	-0.37	0.18	-0.18	18.45	-10.15	-3.50
5	-0.45	0.18	-0.18	18.45	-11.62	-4.98
6	-0.45	0.18	-0.18	18.45	-11.62	-4.98
1E	0.69	0.18	-0.18	18.45	9.41	16.05
2E	0.27	0.18	-0.18	18.45	1.66	8.30
3E	-0.53	0.18	-0.18	18.45	-13.10	-6.46
4E	-0.48	0.18	-0.18	18.45	-12.17	-5.53

WIND02 v2-21

Detailed Wind Load Design (Method 2) per ASCE 7-02

$$* p = qh * (GC_{pf} - GC_{pi})$$

Figure 6-11 - External Pressure Coefficients, GC_p Loads on Components and Cladding for Buildings w/ $H_t \leq 60$ ft

Gabled Roof

 $7 < \text{Theta} \leq 45$

a = 3 ==> 3.00 ft

Double Click on any data entry line to receive a help Screen

Component	Width (ft)	Span (ft)	Area (ft ²)	Zone	GCp		Wind Press (lb/ft ²)	
					Max	Min	Max	Min
ROOF	10	1	10.00	1	0.90	-1.00	19.92	-21.77
ROOF EDGE	10	1	10.00	2	0.90	-1.20	19.92	-25.46
WALL	10	1	10.00	4	1.00	-1.10	21.77	-23.61
WALL EDGE	10	1	10.00	5	1.00	-1.40	21.77	-29.15
ROOF EDGE	10	1	10.00	2H	0.90	-2.00	16.60	-36.89

Note: * Enter Zone 1 through 5, or 1H through 3H for overhangs.

Title : Barnard
Dsgnr: Gary Gill
Description :

Job #
Date:

Scope :

Rev. 510304
User: KW-0601816, Ver 5.1.3, 22-Jun-1999, Win32
(c) 1983-99 ENERCALC

Timber Beam & Joist

Page 1
p:\2007\pf07-011 srlh-barnard w\l\barnard.ecw:

Description Ridge beam

Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Timber Section		Ridge Beam 1
		5.125x16.5
Beam Width	in	5.125
Beam Depth	in	16.500
Le: Unbraced Length	ft	0.00
Timber Grade		thony 24F, Anthony thony 24F, Anthonythony 24F, Anthony
Fb - Basic Allow	psi	2,400.0
Fv - Basic Allow	psi	270.0
Elastic Modulus	ksi	1,800.0
Load Duration Factor		1.000
Member Type		GluLam
Repetitive Status		Repetitive

Center Span Data

Span	ft	24.00
Dead Load	#/ft	150.00
Live Load	#/ft	300.00

Results Ratio = 0.6338

Mmax @ Center	in-k	388.80
@ X =	ft	12.00
fb : Actual	psi	1,671.9
Fb : Allowable	psi	2,638.0
		Bending OK
fv : Actual	psi	85.1
Fv : Allowable	psi	270.0
		Shear OK

Reactions

@ Left End	DL	lbs	1,800.00
	LL	lbs	3,600.00
	Max. DL+LL	lbs	5,400.00
@ Right End	DL	lbs	1,800.00
	LL	lbs	3,600.00
	Max. DL+LL	lbs	5,400.00

Deflections Ratio OK

Center DL Defl	in	-0.324
L/Defl Ratio		888.2
Center LL Defl	in	-0.648
L/Defl Ratio		444.1
Center Total Defl	in	-0.973
Location	ft	12.000
L/Defl Ratio		296.1

Title : Barnard
 Dsgnr: Gary Gill
 Description :

Job #
 Date:

Scope :

Rev: 510304
 User: KW-0601816, Ver 5.1.3, 22-Jun-1999, Win32
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Timber Beam & Joist

Page 1

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Description Rafters-uplift

Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Timber Section		Rafter 1
Beam Width	in	4x10 3.500
Beam Depth	in	9.500
Le: Unbraced Length	ft	0.00
Timber Grade		Douglas Fir - Larch, Douglas Fir - Larch, Douglas Fir - Larch, Southern Pine, No 2 Douglas Fir - Larch,
Fb - Basic Allow	psi	875.0
Fv - Basic Allow	psi	95.0
Elastic Modulus	ksi	1,600.0
Load Duration Factor		1.000
Member Type		Sawn
Repetitive Status		Repetitive

Center Span Data

Span	ft	15.00
Dead Load	#/ft	
Live Load	#/ft	-24.60

Results Ratio = 0.0785

Mmax @ Center	in-k	0.00
@ X =	ft	0.00
fb : Actual	psi	0.0
Fb : Allowable	psi	1,207.5
		Bending OK
fv : Actual	psi	7.5
Fv : Allowable	psi	95.0
		Shear OK

Reactions

@ Left End	DL	lbs	0.00
	LL	lbs	-184.50
	Max. DL+LL	lbs	-184.50
@ Right End	DL	lbs	0.00
	LL	lbs	-184.50
	Max. DL+LL	lbs	-184.50

Deflections Ratio OK

Center DL Defl	in	0.000
L/Defl Ratio		0.0
Center LL Defl	in	0.070
L/Defl Ratio		2,570.3
Center Total Defl	in	0.070
Location	ft	7.500
L/Defl Ratio		2,570.3

Title : Barnard
 Dsgnr: Gary Gill
 Description :

Job #
 Date:

Scope :

Rev 510304
 User KW-0601816, Ver 5.1.3, 22-Jun-1999, Win32
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Timber Beam & Joist

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Description floor joists

Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Timber Section		Joist 1 (2nd fl	
		2x10	
Beam Width	in	1.500	
Beam Depth	in	9.250	
Le: Unbraced Length	ft	0.00	
Timber Grade		southern Pine, No.2 southern Pine, No 2Southern Pine, No 2 Southern Pine, No 2	Douglas Fir - Larch,
Fb - Basic Allow	psi	1,050.0	
Fv - Basic Allow	psi	90.0	
Elastic Modulus	ksi	1,600.0	
Load Duration Factor		1.000	
Member Type		Manuf/Pine	
Repetitive Status		Repetitive	

Center Span Data

Span	ft	15.00
Dead Load	#/ft	13.30
Live Load	#/ft	53.20

Results Ratio = 0.8689

Mmax @ Center	in-k	22.44
@ X =	ft	7.50
fb : Actual	psi	1,049.2
Fb : Allowable	psi	1,207.5
		Bending OK
fv : Actual	psi	48.7
Fv : Allowable	psi	90.0
		Shear OK

Reactions

@ Left End	DL	lbs	99.75
	LL	lbs	399.00
	Max. DL+LL	lbs	498.75
@ Right End	DL	lbs	99.75
	LL	lbs	399.00
	Max. DL+LL	lbs	498.75

Deflections Ratio OK

Center DL Defl	in	-0.096
L/Defl Ratio		1,880.8
Center LL Defl	in	-0.383
L/Defl Ratio		470.2
Center Total Defl	in	-0.479
Location	ft	7.500
L/Defl Ratio		376.2

Title : Barnard
Dsgnr: Gary Gill
Description :

Job #
Date:

Scope :

Rev: 510304
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Timber Beam & Joist

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Description Floor girders

Timber Member Information

Calculations are designed to 1997 NDS and 1997 UBC Requirements

Timber Section		Floor Girder 1
		3-2x10
Beam Width	in	4.500
Beam Depth	in	9.250
Le: Unbraced Length	ft	0.00
Timber Grade		Southern Pine, No 2 Douglas Fir - Larch, Southern Pine, No 2 Southern Pine, No 2 Southern Pine, No 2
Fb - Basic Allow	psi	1,050.0
Fv - Basic Allow	psi	90.0
Elastic Modulus	ksi	1,600.0
Load Duration Factor		1.000
Member Type		Sawn
Repetitive Status		No

Center Span Data

Span	ft	8.00
Dead Load	#/ft	75.00
Live Load	#/ft	300.00

Results Ratio = 0.5343

Mmax @ Center	in-k	36.00
@ X =	ft	4.00
fb : Actual	psi	561.0
Fb : Allowable	psi	1,050.0
Bending OK		
fv : Actual	psi	43.7
Fv : Allowable	psi	90.0
Shear OK		

Reactions

@ Left End	DL	lbs	300.00
	LL	lbs	1,200.00
	Max. DL+LL	lbs	1,500.00
@ Right End	DL	lbs	300.00
	LL	lbs	1,200.00
	Max. DL+LL	lbs	1,500.00

Deflections Ratio OK

Center DL Defl	in	-0.015
L/Defl Ratio		6,595.6
Center LL Defl	in	-0.058
L/Defl Ratio		1,648.9
Center Total Defl	in	-0.073
Location	ft	4.000
L/Defl Ratio		1,319.1

**COLUMBIA COUNTY
FLORIDA**

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 17-6S-16-03841-000

Building permit No. 000025497

Use Classification SFD/UTILITY

Fire: 73.26

Permit Holder LOYCE J. BARNARD-OWNER/BLDR

Waste: 100.50

Owner of Building LOYCE J. BARNARD

Total: 173.76

Location: 1236 SW CENTERVILLE RD, FT WHITE, FL

Date: 04/10/2008

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Building Inspector