

DATE 04/25/2007

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025743

APPLICANT SIMON TATE PHONE 904-338-7972  
ADDRESS 1033 BLANDING BLVD UNIT 301 ORANGE PARK FL 32065  
OWNER ELOISE WAELTI PHONE 752-1682  
ADDRESS 307 SW STALLION GLEN LAKE CITY FL 32024  
CONTRACTOR JONATHAN LANG PHONE 904-213-0722  
LOCATION OF PROPERTY 441 S, R 131, L 349, R EQUESTRIAN WAY, R STALLION,  
APPRX. 300 YRDS  
TYPE DEVELOPMENT SHED WITH LOFT ESTIMATED COST OF CONSTRUCTION 10529.00  
HEATED FLOOR AREA                      TOTAL AREA 256.00 HEIGHT 17.00 STORIES 1  
FOUNDATION PIERS                      WALLS WOOD ROOF PITCH                      FLOOR WOOD  
LAND USE & ZONING AG-3 MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
NO. EX.D.U. 1 FLOOD ZONE XPS DEVELOPMENT PERMIT NO.                     

PARCEL ID 32-5S-17-09475-112 SUBDIVISION                       
LOT              BLOCK              PHASE              UNIT              TOTAL ACRES 10.02

CBC1251776 x Simon Tate  
Culvert Permit No.                      Culvert Waiver                      Contractor's License Number                      Applicant/Owner/Contractor                       
EXISTING X07-159 BK JH N  
Driveway Connection                      Septic Tank Number                      LU & Zoning checked by                      Approved for Issuance                      New Resident                     

COMMENTS: SECTION 2.4 ACCESSORY USE TO PROPERTY 1ST FLOOR ONE FOOT  
ABOVE THE ROAD

Check # or Cash 1127

## FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 55.00 CERTIFICATION FEE \$ 1.28 SURCHARGE FEE \$ 1.28  
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$                       
FLOOD DEVELOPMENT FEE \$                      FLOOD ZONE FEE \$                      CULVERT FEE \$                      TOTAL FEE 107.56  
INSPECTORS OFFICE                      CLERKS OFFICE                     

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

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

### This Permit Must Be Prominently Posted on Premises During Construction

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

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



## Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0704-25 Date Received 4/11 By JW Permit # 25743  
 Application Approved by - Zoning Official BZK Date 4-13-07 Plans Examiner OK JH Date 4-13-07  
 Flood Zone X B Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3  
 Comments Section 2.4. Accessory Use to Property 1st Floor 1' above Rd.  
DOC ☒ E.H. ☒ LENER 2 AUTHORIZATION ON FILE

Applicants Name C. SIMON TATE Phone (904) 338-7972  
 Address 1033 BLANDING BLVD UNIT#301 ORANGE PARK, FLORIDA 32065  
 Owners Name a ELOISE WAELTI Phone 386-752-1682  
 911 Address 307 SW STALLION Glen Lake City, 32024  
 Contractors Name Jonathan Lang CLASSIC MANOR BUILDERS Phone (904) 213-0722  
 Address 1033 Blanding Blvd. Ste#301 Orange Park, Fl. 32065  
 Fee Simple Owner Name & Address \_\_\_\_\_  
 Bonding Co. Name & Address \_\_\_\_\_  
 Architect/Engineer Name & Address DAVID L. NARRAMORE AIA P.O. BOX 8438 Greenville, SC 29604  
 Mortgage Lenders Name & Address CASH

(NO UTILITIES)  
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy  
 Property ID Number R09475-112 (32-55-17) Estimated Cost of Construction \$10,529.02  
 Subdivision Name \_\_\_\_\_ Section 12 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 (Driving Directions SOUTH ON 441 TO RIGHT ON 131 9 OR 10 MILES Turn left on 349 TO RIGHT ON Equestrian Way TO 307 SW STALLION Turn (R) APPROX 300' ROAD @ Property)  
 Type of Construction 16'x16' Wood Frame Shed Number of Existing Dwellings on Property 1  
 Total Acreage 10.02 Lot Size \_\_\_\_\_ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive  
 Actual Distance of Structure from Property Lines - Front 640' Side 38' Side 280' Rear 50'  
 Total Building Height 17' Number of Stories 1STORY WITH LOFT Floor Area 256 SF Roof Pitch GAMBREL

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.

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Elaine R. T. Turner  
 Owner-Builder or Agent (Including Contractor)

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
 this 19th day of March 2007.

Personally known \_\_\_\_\_ or Produced Identification ☒

FL DL # W430-207-43-583-0

For Eloise G. Waelti

Jonathan Lang  
 Contractor Signature  
 Contractors License Number CRC#CBC1251776  
 Competency Card Number \_\_\_\_\_  
 NOTARY STAMP/SEAL



Return to: CLASSIC MANOR BUILDERS

Name: 1033 BLANDING BLVD.

Address: SUIT #301

ORANGE PARK, FL 32065  
This Instrument Prepared by:

Name: C.SIMON TATE

Address:

Property Appraisers Parcel Identification

Inst:2007008271 Date:04/11/2007 Time:15:21

S.7 DC,P.Dewitt Cason,Columbia County B:1116 P:737

SPACE ABOVE THIS LINE FOR PROCESSING DATA

# NOTICE OF COMMENCEMENT

Permit No. \_\_\_\_\_

Tax Folio No. \_\_\_\_\_

State of Florida \_\_\_\_\_  
County of A COLUMBIA }

The undersigned hereby gives notice that improvements will be made to certain real property, and in accordance with chapter 713 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

Legal description of property (include Street Address, if available) 307 SW STALLION GLEN LAKE CITY  
FLORIDA 32024

General description of improvements CONSTRUCT A STORAGE SHED 16x16' Wood Storage Shed

Owner's Name ELOISE WAELTI

Address 307 SW STALLION Glenn LAKE CITY, FLORIDA 32024

Owner's interest in site of the improvement 100%

Fee Simple Title holder (if other than owner) N/A

Address \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Contractor CLASSIC MANOR BUILDERS

Address SUITE #301, 1033 Blanding Blvd. Orange Pk Phone: (904) 213-0722 Fax: (904) 213-0726

Surety N/A Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Address \_\_\_\_\_ Amount of bond \$ \_\_\_\_\_

Lender's Name N/A

Address: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

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.

Name N/A

Address \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

In addition to himself, owner designates N/A

Of \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified)

ELOISE WAELTI

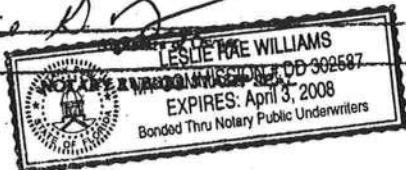
Printed Name of Owner

I have relied upon the following identification of the Affiant

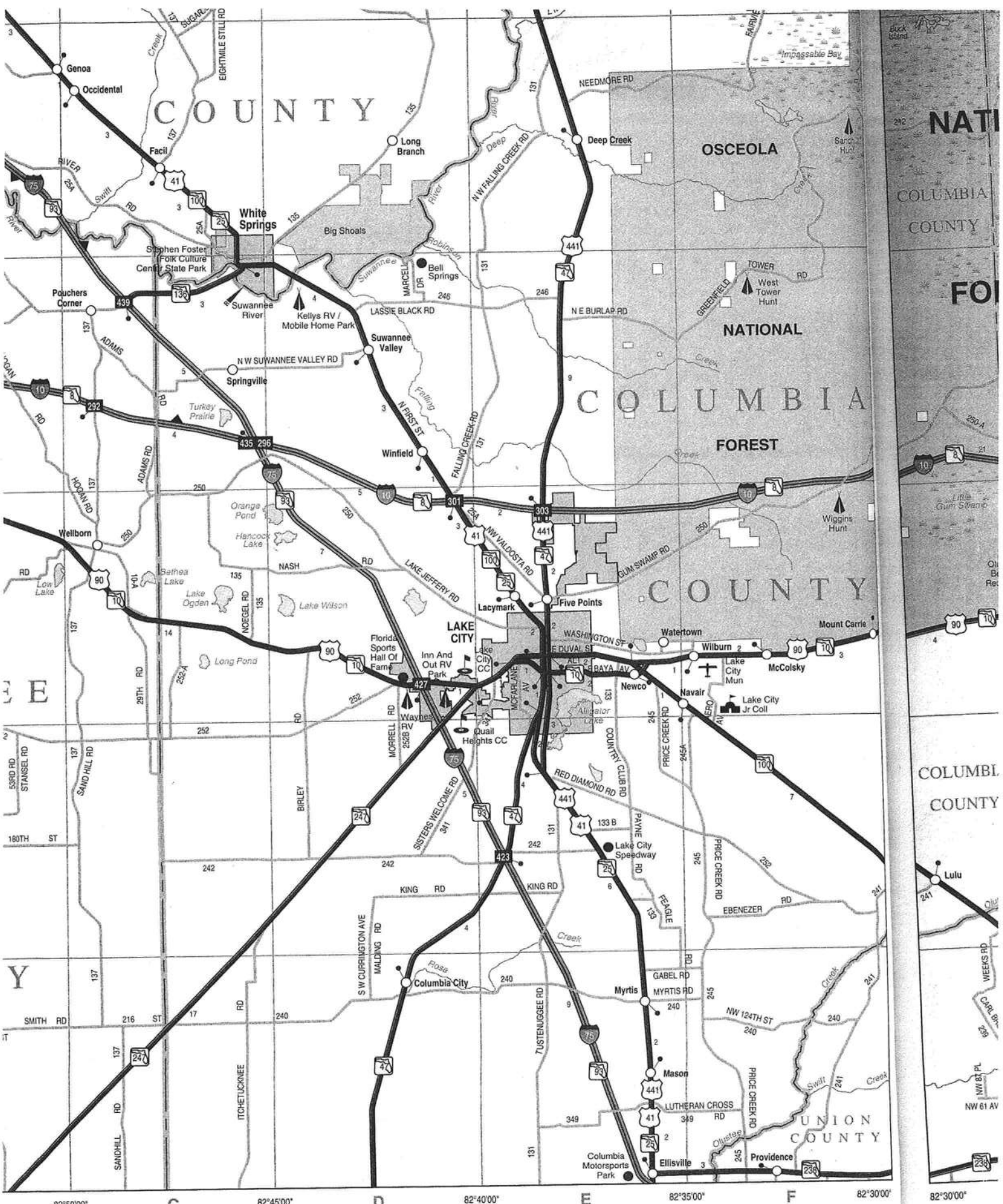
W430-207-43-583-0

Sworn to and subscribed before me this 19th day of March

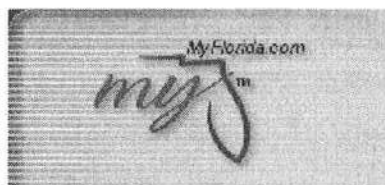
Leslie Mae Williams  
Notary Signature







Joins Map 33

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4:21:11 PM

**Licensee Details****Licensee Information**

Name: **LANG, JONATHAN PATRICK (Primary Name)**  
**CLASSIC MANOR BUILDERS INC (DBA Name)**  
Main Address: **2801 PRINCETON LANE**  
**MARIETTA Georgia 30062**  
County: **OUT OF STATE**

License Mailing:

LicenseLocation: **3421 CARROLLTON-VILLA RICA HWY**  
**CARROLLTON GA 30116**  
County: **OUT OF STATE**

**License Information**

License Type: **Certified Building Contractor**  
Rank: **Cert Building**  
License Number: **CBC1251776**  
Status: **Current,Active**  
Licensure Date: **04/16/2004**  
Expires: **08/31/2008**

**Special Qualifications**  
**Qualified Business License Required**  
**Qualification Effective**  
**04/16/2004**

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RONNIE BRANNON, CFC  
COLUMBIA COUNTY TAX COLLECTOR

2005 REAL ESTATE 01268850000  
NOTICE OF AD VALOREM TAXES AND NON-AD VALOREM ASSESSMENTS

ACCOUNT NUMBER	ESCROW CD	ASSESSED VALUE	EXEMPTIONS	TAXABLE VALUE	MILLAGE CODE
R09475-112		48,586	25,000	23,586	003

R

0003835 01 AV 0.278 \*\*AUTO T6 0 0810 32024-123



WALTI ELOISE G  
307 SW STALLION GLN  
LAKE CITY FL 32024-1406

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

32-5S-17 5000/5000 10.02 Acres  
COMM NW COR OF NE1/4, RUN S  
39.79 FT, E 485.36 FT FOR POB,  
CONT E 448.78 FT, S 972.42 FT,  
W 448.79 FT, N 972.79 FT TO  
POB. (AKA LOT 12 A C MILTON

AD VALOREM TAXES

TAXING AUTHORITY	MILLAGE RATE (DOLLARS PER \$1,000 OF TAXABLE VALUE)	TAXES LEVIED
CO01 BOARD OF COUNTY COMMISSIONERS	8.7260	205.81
S002 COLUMBIA COUNTY SCHOOL BOARD		
DISCRETIONARY	.7600	17.93
LOCAL	5.1950	122.53
CAPITAL OUTLAY	2.0000	47.17
W SR SUWANNEE RIVER WATER MGT DIST	.4914	11.59
HLSH SHANDS AT LAKE SHORE	1.7500	41.28
IIDA INDUSTRIAL DEVELOPEMENT AUTH	.1380	3.25

TOTAL MILLAGE 19.0604

AD VALOREM TAXES

\$449.56

NON-AD VALOREM ASSESSMENTS

LEVYING AUTHORITY	RATE	AMOUNT
FFIR FIRE ASSESSMENTS		99.09
GGAR SOLID WASTE - ANNUAL		147.00

904-860-3083

PAY ONLY ONE AMOUNT IN YELLOW SHADED AREA

NON-AD VALOREM ASSESSMENTS

\$246.09

COMBINED TAXES AND ASSESSMENTS

\$695.65

PAY ONLY  
ONE AMOUNT

See reverse side for  
important information.

IF PAID BY  
PLEASE PAY

Nov 30  
667.82

Dec 31  
674.78

Jan 31  
681.74

Feb 28  
688.69

Mar 31  
695.65

IF PAID  
BY

RONNIE BRANNON, CFC  
COLUMBIA COUNTY TAX COLLECTOR

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AV0003835 R

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307 SW STALLION GLN  
LAKE CITY FL 32024-1406

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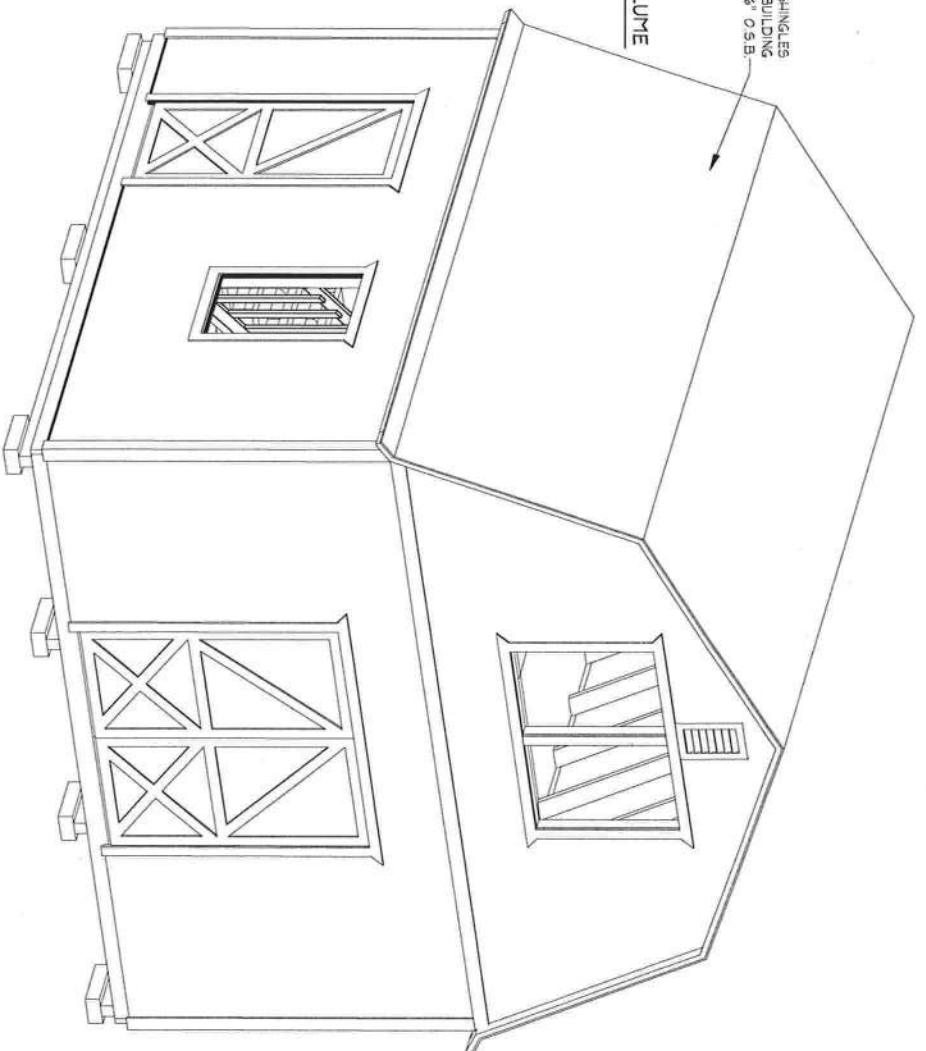
20-YR. SHINGLES  
OVER 15# BUILDING  
FELT ON 7/16" O.S.B.

PURSUANT TO 2004 FLORIDA BUILDING CODE: RESIDENTIAL VOLUME

- BASIC WIND SPEED = 130 MPH
  - WIND IMPORTANCE FACTOR = 0.77
  - BUILDING CATEGORY = I
  - WIND EXPOSURE CATEGORY 'B'
  - INTERNAL PRESSURE COEFFICIENT = +0.18
  - MAXIMUM WIND DESIGN PRESSURE FOR DESIGN OF EXTERIOR COMPONENT AND CLADDING = 40 PSF (0.28 PSI.)
- THIS BUILDING AND ITS COMPONENTS HAVE BEEN DESIGNED TO BE IN GENERAL COMPLIANCE WITH THE 2004 EDITION OF THE FLORIDA BUILDING CODE: RESIDENTIAL VOLUME.

GENERAL NOTES:

- MINIMUM FB FOR EXTERIOR LOAD BEARING STUDS @ 16" O.C. = 1800  
MINIMUM FB FOR EXTERIOR NON-LOAD BEARING STUDS @ 16" O.C. = 1800  
UP/LIFT @ GABLE END WALLS @ 16" O.C. = 120#/STUD  
UP/LIFT LOADS @ SIDEWALLS MIN. 100 LBS @ 10 PSF MIN TABLE 305 FI = 320#/STUD
- NAILING OF EXTERIOR SHEATHING (WALL AND ROOF) - 8d RING SHANK NAIL -  
3" O.C. FOR TOP & BOTTOM, 6" O.C. SIDES, 12" O.C. INTERNAL  
NAILING OF FLOOR - 8d COMMON NAIL @ 6" O.C. AT EDGES AND 12" O.C. INTERNAL  
TO MEET WIND SPEEDS OF 130 MPH.
- ANCHORS @ BLOCKS ARE 48" L., 5/8" DIA. W/409#  
LOADING CAPACITY = 4109#  
TIE DOWN ENGINEERING  
SKU NO. 59065 (3 ANCHORS ON LEFT & RIGHT SIDE OF BUILDING)
- NAILING OF CS16 STRAPS - USE (6) 1 1/2" #10 STRAP NAILS ON EVERY 14" OF CS16  
USED - TYPICAL ON ALL CS16 STRAP CONNECTIONS
- FASTENING OF SIMPSON STRONGTIE H1 = (6) 8d x 1 1/2" NAILS  
FASTENING OF SIMPSON STRONGTIE HTS20 = (6) 10d x 1 1/2" NAILS  
FASTENING OF SIMPSON STRONGTIE LST756 = (6) 10d x 1 1/2" NAILS
- DESIGN CRITERIA: 2004 INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO  
FAMILY DWELLING FOR STRUCTURES OVER 200 SQ. FT.  
IN COASTAL REGIONS: 2004 FLORIDA BUILDING CODE: RESIDENTIAL VOLUME,  
INTERNATIONAL BUILDING CODE 2004 ED.  
ASCE 7-02 MINIMUM DESIGN LOADS FOR BUILDINGS AND  
OTHER STRUCTURES.
- THIS BUILDING IS DESIGNED TO RESIST HURRICANE FORCE WINDS OF 130 MPH.
- THIS STRUCTURE IS DESIGNED ACCORDING TO SECTION R202 OF THE INTERNATIONAL  
RESIDENTIAL BUILDING CODE, 2004 ED AS AN ACCESSORY STRUCTURE. ITS USE IS  
AS A NON-DWELLING BUILDING WITH A CORNBED LIVE LOAD AND DEAD LOAD OF 40  
PSF.



AXONOMETRIC ELEVATION

N.T.S.

FILE COPY

*David L. Narramore*  
3/24/07



DAVID L. NARRAMORE  
A.I.A. ARCHITECT

Architects & Planners

AMERICAN INSURANCE  
OF ARCHITECTS

P.O. Box 6438 Greenville, SC 29604  
300 Mills Ave. Greenville, SC 29605

Phone: 864.242.9881  
Fax: 864.232.5202

Plans@narramorearchitects.com

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CLASSIC MANOR  
BUILDERS, INC.

Summer Wind

16 X 16  
FLORIDA  
COASTAL

DOCUMENT DATA  
Eloise Ivie/lt

PROJECT NUMBER

05984

ISSUE DATE

03.26.07

A1



**DAVID L. NARANMORE**  
A.I.A. ARCHITECT

**Architects & Planners**  
A NARANMORE ARCHITECTS  
P.C.

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310 Mills Ave. Greenville, SC 29605

Phone: 864.242.9881  
Fax: 864.232.5202  
Email: [info@naranmore.com](mailto:info@naranmore.com)

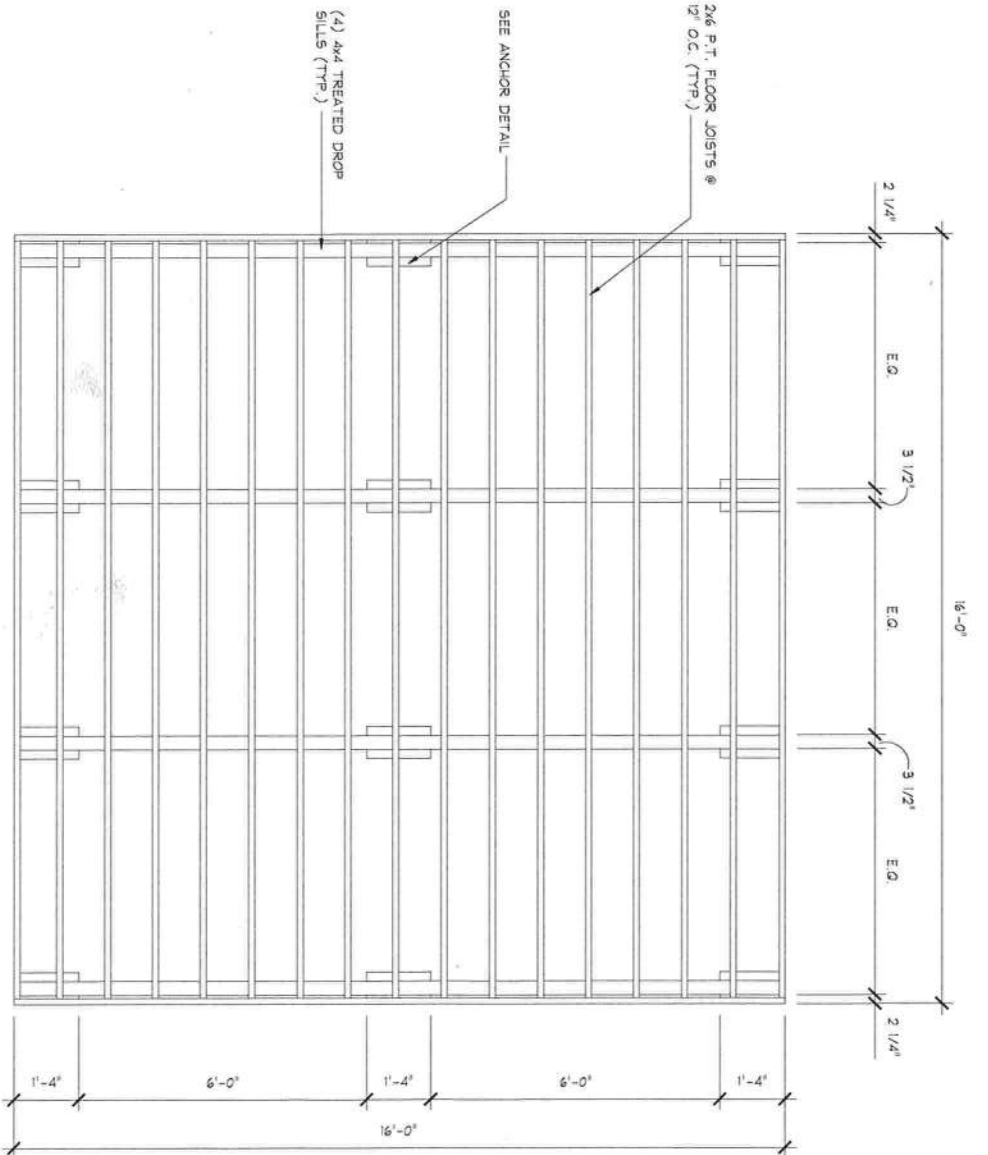
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**CLASSIC MANOR**  
**BUILDERS, INC.**

**Summer Wind**  
16 X 16  
FLORIDA  
COASTAL

DOCUMENT DATA
Eloise Mettli
PROJECT NUMBER
05984
ISSUE DATE
03.26.07

**A2**



**FIRST FLOOR FRAMING PLAN**

1/4" = 1'-0"

*David L. Naranmore*  
3/26/07





DAVID NARRAMORE  
A.I.A. ARCHITECT

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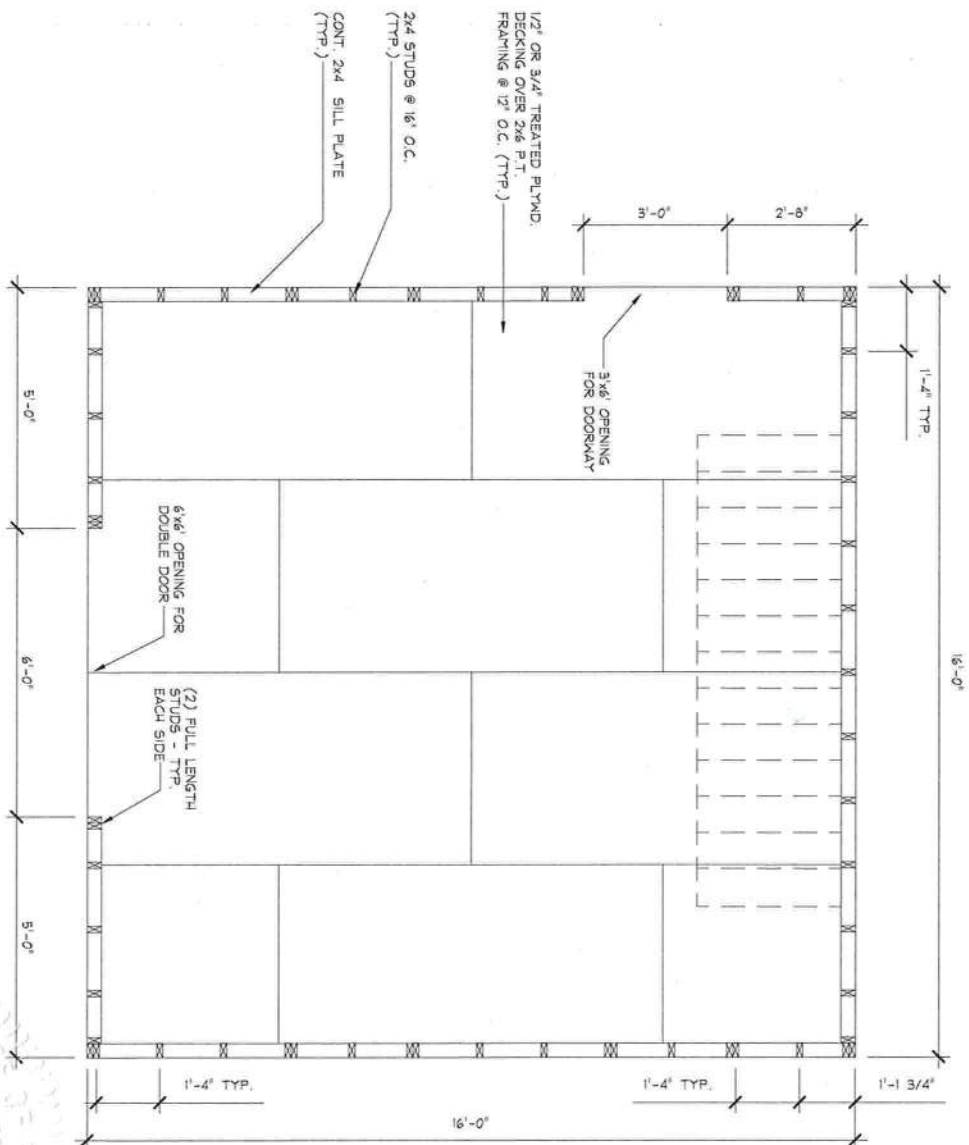
Summer Wind

16 X 16  
FLORIDA  
COASTAL

DOCUMENT DATA

Elise Moseley  
PROJECT NUMBER  
05984  
ISSUE DATE  
03.26.07

A3



*David Narramore*  
3/26/07



DAVID L. NARRAMORE  
A.I.A. ARCHITECT

Architects & Planners

A E G R O N  
ARCHITECTURE

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310 Mills Ave. Greenville, SC 29605

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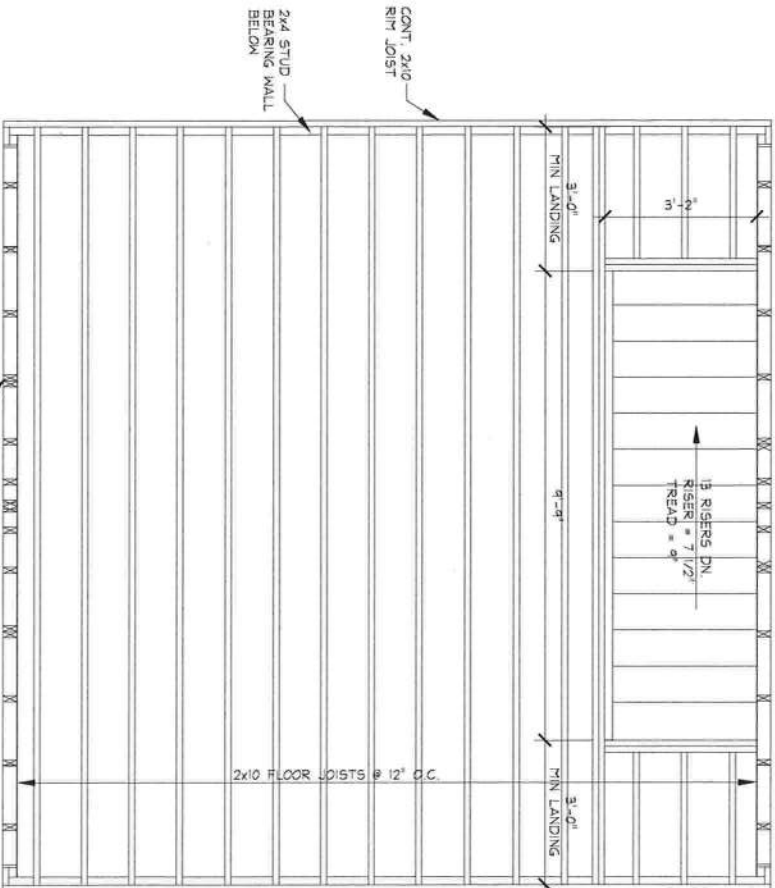
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CLASSIC MANOR  
BUILDERS, INC.



Summer Wind

16 X 16  
FLORIDA  
COASTAL



SECOND FLOOR FRAMING PLAN

1/4" = 1'-0"

*David L. Narramore*  
3/14/07

A4

DOCUMENT DATA
Elaine Mott
PROJECT NUMBER
05904
ISSUE DATE
03.26.07





DAVID L. NARRAMORE  
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Summer Wind

16 X 16  
FLORIDA  
COASTAL



SIDE FRAMING ELEVATION

1/4" = 1'-0"

*David L. Narramore*  
3/26/07

DOCUMENT DATA

Elsie Moelti

PROJECT NUMBER

05984

ISSUE DATE

03.26.07

A5



**DAVID L. NARANMORE**  
**AIA, ARCHITECT**  
 Architects & Planners  
 A PROFESSIONAL INSTITUTE  
 OF ARCHITECTS

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 Greenville, SC 29604  
 310 Mills Ave.  
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 Plans@NaranmoreArchitects.com

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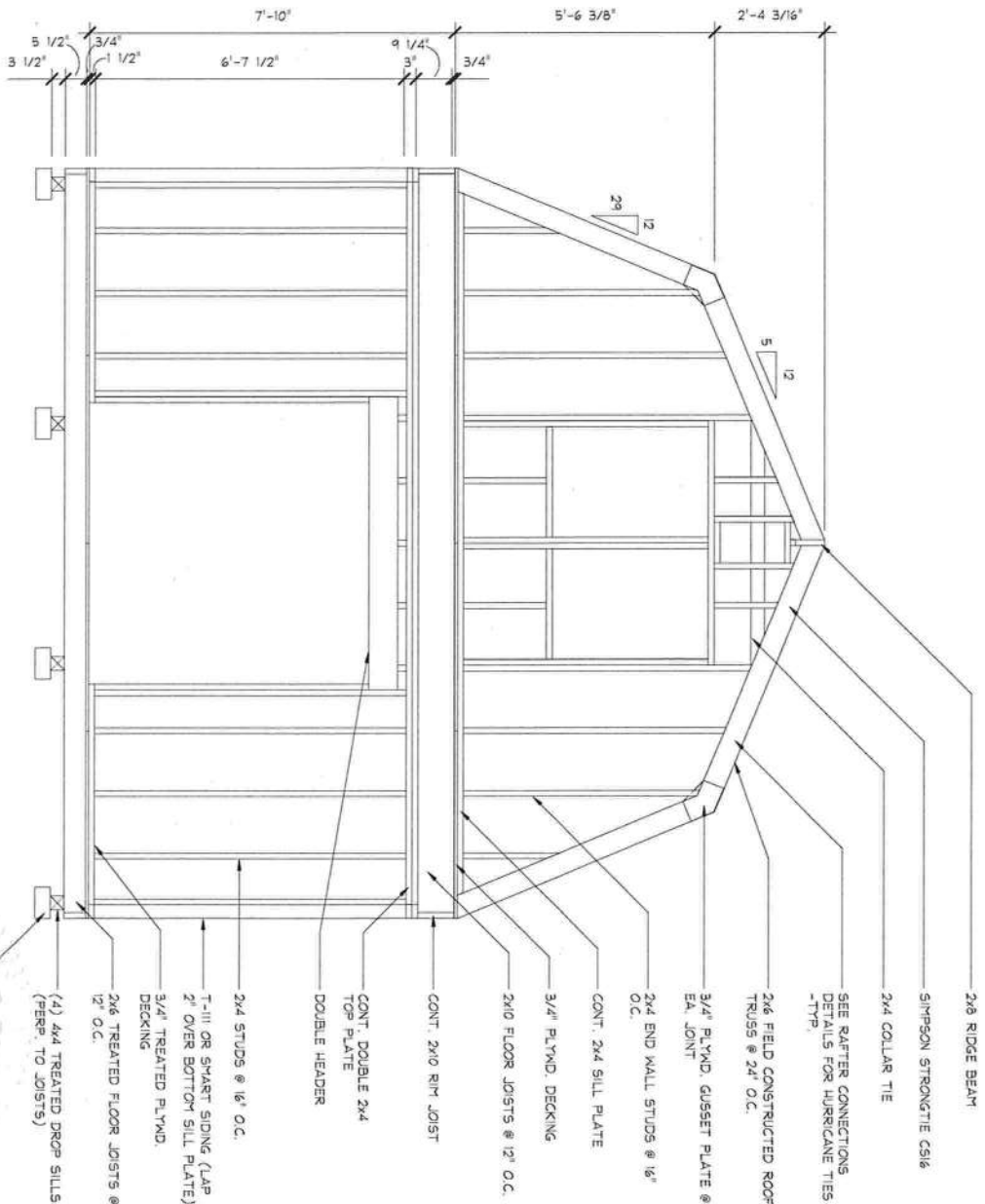
**Summer Wind**  
 16 X 16  
 FLORIDA  
 COASTAL

DOCUMENT DATA
Elaine Knecht
PROJECT NUMBER
05984
ISSUE DATE
03.26.07

A6

# FRONT FRAMING ELEVATION

1/4" = 1'-0"



*David L. Naranmore*  
 3/16/07





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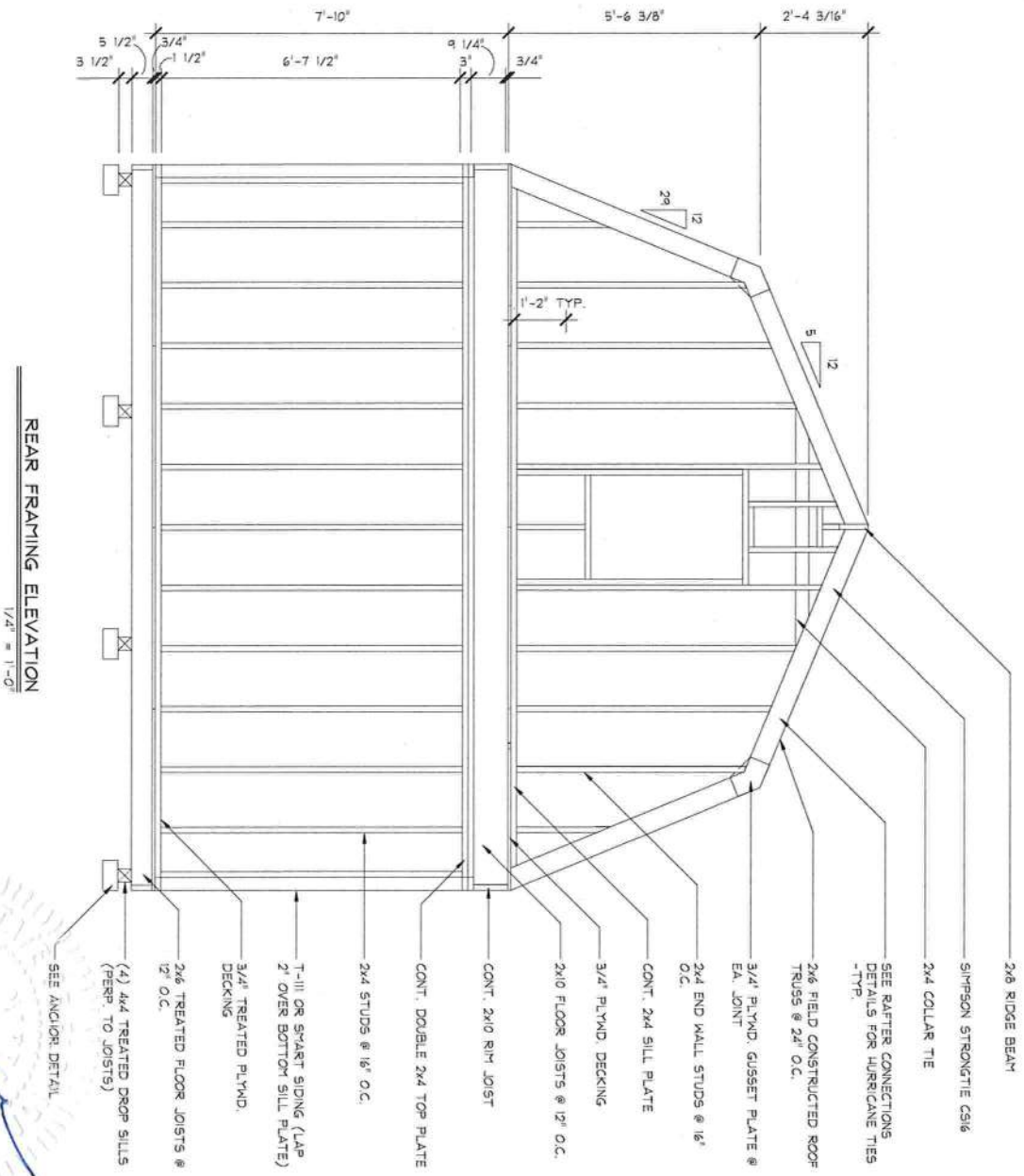
Summer Wind

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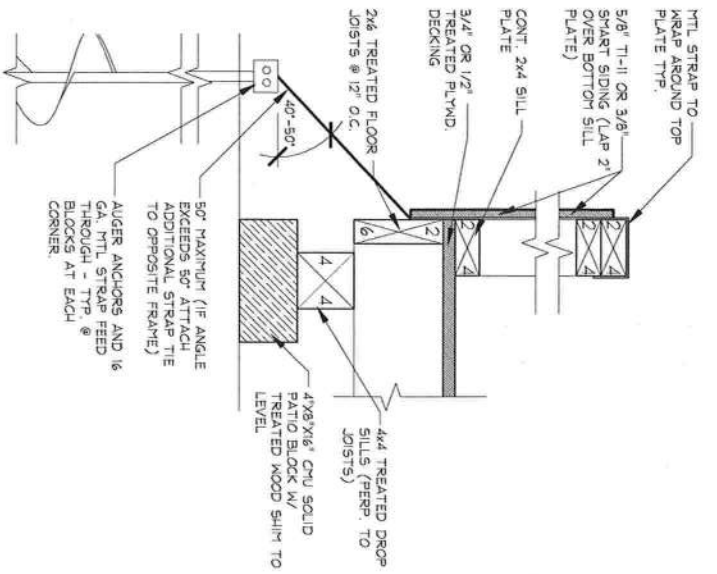
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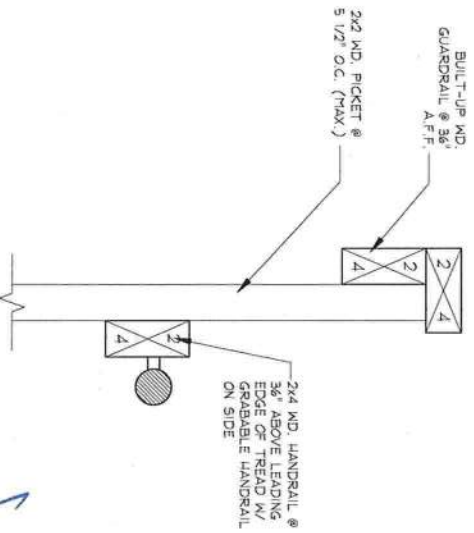
A7



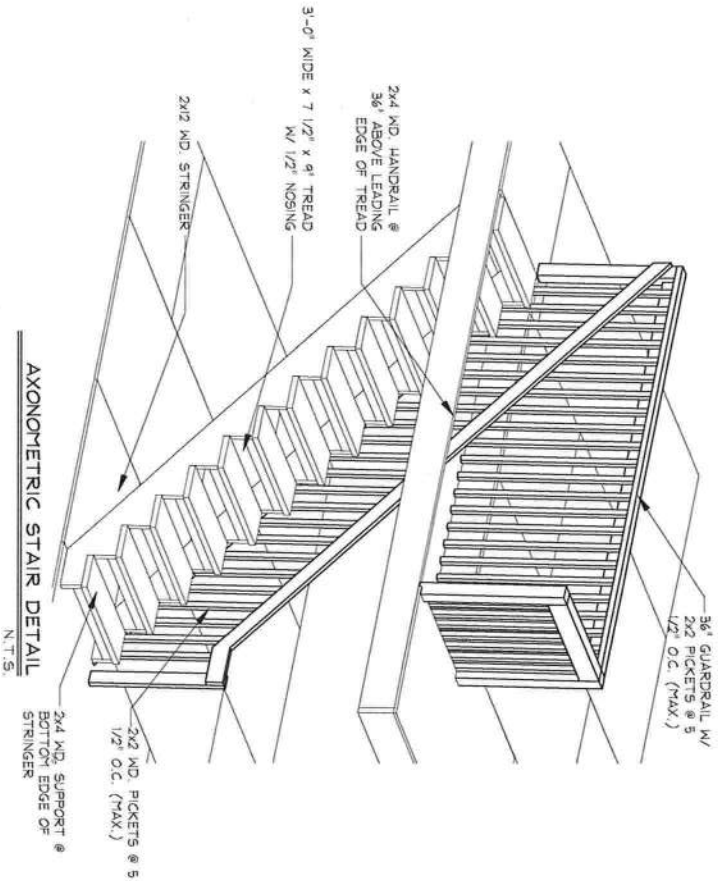
3/26/07



ANCHOR DETAIL  
1" = 1'-0"



GUARDRAIL/HANDRAIL DETAIL  
1 1/2" = 1'-0"



**DAVID L. NARANMORE**  
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**CLASSIC MANOR**  
**BUILDERS, INC.**

Summer Wind  
 16 X 16  
 FLORIDA  
 COASTAL

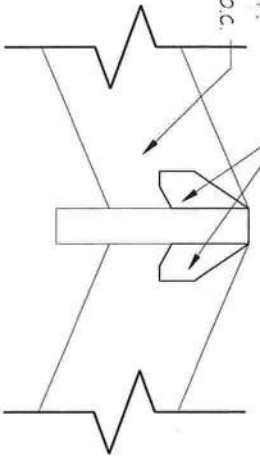
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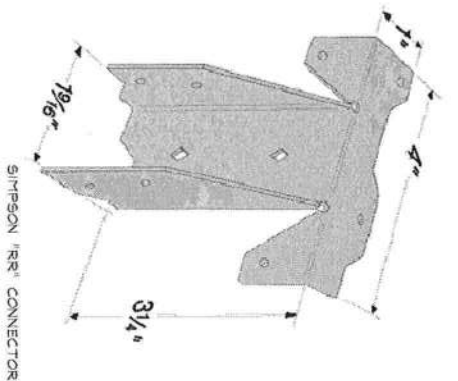
*David L. Naranmore*  
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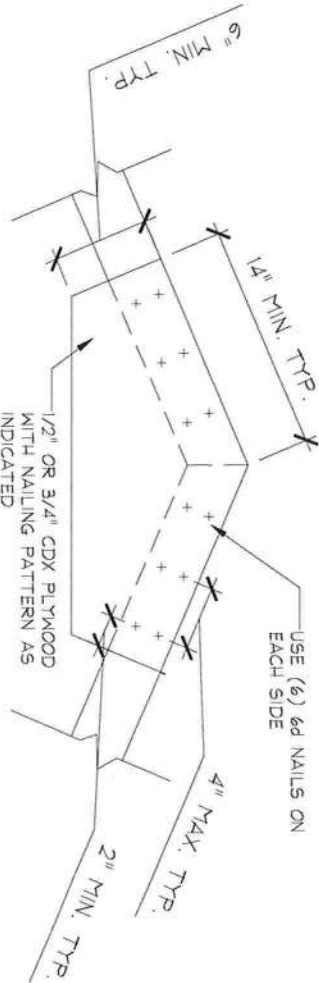
(2) RR CONNECTORS - SEE GENERAL NOTES FOR NAIL SIZES, TYP.  
2x6 ROOF RAFTERS @ 24" O.C. TYP.



RIDGE BEAM DETAIL



SIMPSON 'RR' CONNECTOR



GUSSET PLATE DETAIL

GENERAL NOTES:

1. THE MAXIMUM SHEAR LOAD ON RAFTER JOINT IS 305.6 lbs. A 6d NAIL HAS A SHEAR CAPACITY OF 47 lbs. WITH A TOTAL OF (12) NAILS INTO THE GUSSET PLATE AND RAFTER, THE SHEAR CAPACITY OF THIS CONNECTION IS 564 lbs.
2. PLYWOOD HAS SHEAR STRENGTH THROUGH THICKNESS OF 600 - 1000 LBS./IN - SEE ACCOMPANYING ATTACHMENT (TABLE 10-6 GENERAL PROPERTY VALUES FOR SHEATHING PLYWOOD)
3. RIDGE RAFTER (RR) - (4) 10d x 1 1/2" NAILS INTO THE RAFTER & (4) 10d x 1 1/2" NAILS INTO RIDGE BEAM
4. ON SMALLER BUILDING A RIDGE BEAM MAY NOT BE REQUIRED. IN THOSE CASES REPLACE THE RIDGE BEAM DETAIL WITH A GUSSET PLATE DETAIL AS INDICATED.

*David L. Narramore*  
3/24/07



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CLASSIC MANOR  
BUILDERS, INC.

Summer Wind

16 X 16  
FLORIDA  
COASTAL

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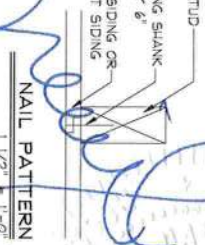
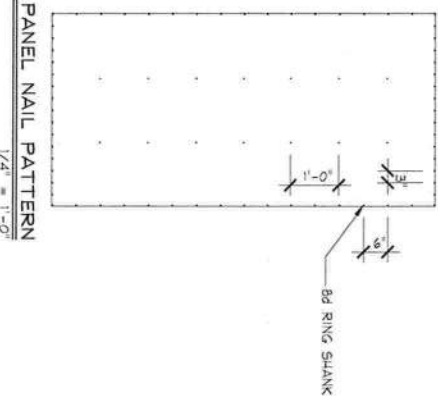
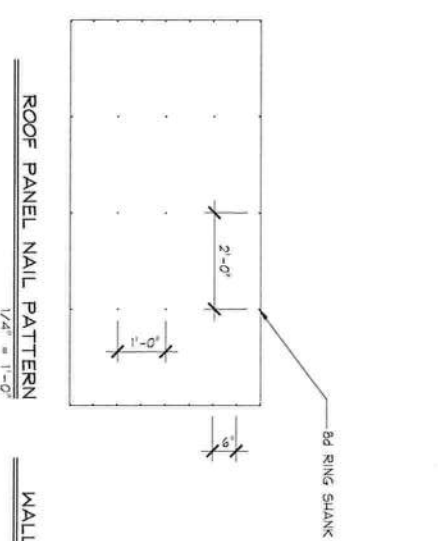
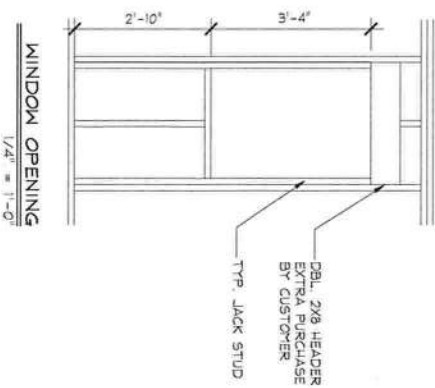
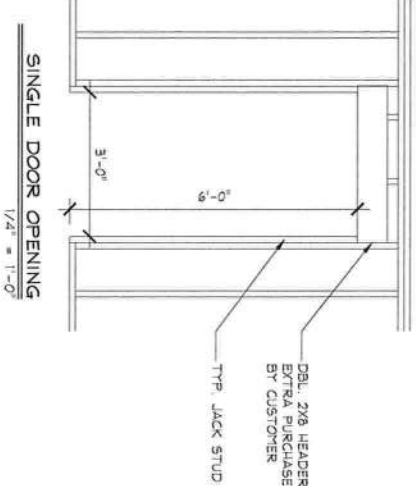
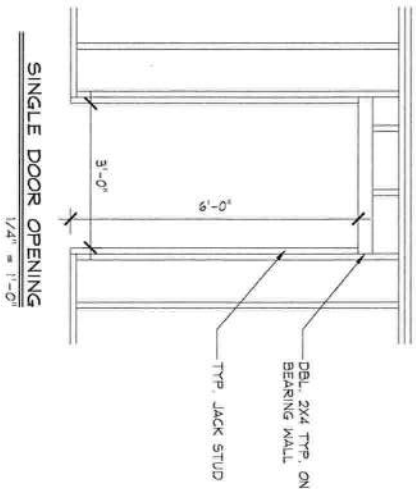
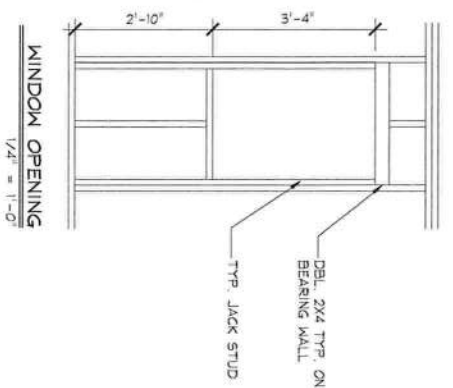
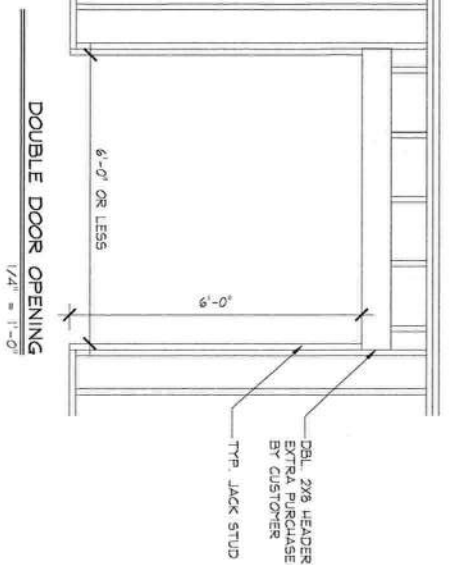
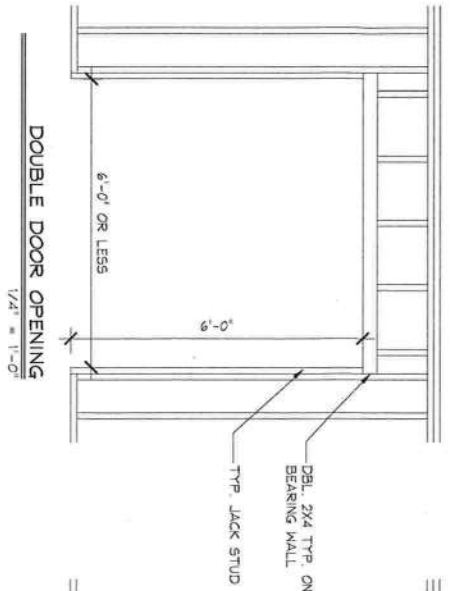


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**Summer Wind**  
16 X 16  
FLORIDA  
COASTAL

**CLASSIC MANOR**  
**BUILDERS, INC.**

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# STATE OF FLORIDA WIND ANALYSIS

## CLASSIC MANOR BUILDERS

<b>BUILDING NAME:</b>	SUMMER WIND	16'	x	16'
<b>BUILDING STATS:</b>				
	FEET	INCHES		
1. Short Wall:	16'		192	
2. Long Wall:	16'		192	
3. Block Height		9.00	9	
4. Wall Height 1	8'	8.00	104	
5. Wall Height 2	5'	6.50	66.5	
6. Slope Height	2'	4.00	28	

### DESIGN CRITERIA:

- Florida Building Code 2004 Ed., IBC 2003 Ed., ASCE 7-02 Method 1.
- Wind speed = **130 MPH**
- Wind Importance Factor = 0.77 (FBC 2004 TBL 1604.5)
- Wind Exposure "B" (FBC 2004 1609.4)

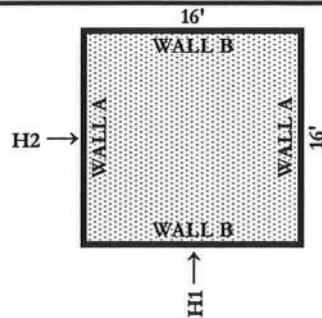
<b>Mean Roof Height (MRH):</b>				
Block Ht. + Wall Ht. 1 + Wall Ht. 2 + 1/2(Slope Ht.) =				16.13'
<b>Edge Strip:</b>				
0.1 x (longest horiz. dimension) =	0.1 x	192	=	19.2 = 1.60'
0.4 x (cave height) =	0.4 x	193.56	=	77.424 = 6.45'
0.04 x (longest horiz. dimension) =	0.04 x	192	=	7.68 = 0.64'
<b>***USE 3' PER FBC 2004 1609.6.3***</b>				
<b>End Zone:</b>				
2 x (edge strip length) =	2 x	36 in.	=	72 in. = 6.00'
<b>Roof Slope:</b>				
	RISE	RUN	slope	
	5	12	23°	

Adjustment coefficient for building height and exposure = 1.0 (FBC 2004 TBL 1609.6D)  
 Importance Factor = .77 (FBC 2004 TBL 1604.5)

<b>Design Load:</b>				
(Load) x (Height & Exposure Coefficient) x (Importance Factor)				
(Load) x (1) x (.77)				
<b>Design for Main Wind Force Resisting System (MWFRS):</b>				
<b>Horizontal Loads (FBC 2004 TBL 1609.6A)</b>				
Wall: End Zone	37.1	x (.77)	=	29 psf
Interior Zone	24.7	x (.77)	=	19 psf
Roof: End Zone	-9.8	x (.77)	=	-8 psf
Interior Zone	-5.4	x (.77)	=	-4 psf
<b>Vertical Loads (FBC 2004 TBL 1609.6A)</b>				
Roof Windward: End Zone	-32.2	x (.77)	=	-25 psf
Interior Zone	-22.4	x (.77)	=	-17 psf
Roof Leeward: End Zone	-22.4	x (.77)	=	-17 psf
Interior Zone	-17	x (.77)	=	-13 psf



MWFRS:



$$H2 = MRH [(H. \text{ End Load})(12) + (H. \text{ Int. Load})(\text{Long Wall Length} - 12)]$$

$$H2 = 6756.53$$

$$H1 = MRH [(H. \text{ End Load})(6) + (H. \text{ Int. Load})(\text{Short Wall Length} - 6)] + (\text{Slope Ht.})(1/2)(\text{Short Wall Length})(H. \text{ Int. Load})$$

$$H1 = 6187.50$$

Load to Shear Walls:

Wall B:	Shear	=	(H1)/2	=	3,094 #
	Shear/Ft.	=	Shear/Short Wall Length	=	193 plf
Wall A:	Shear	=	(H2)/4	=	1,689 #
	Shear/Ft.	=	Shear/Long Wall Length	=	106 plf

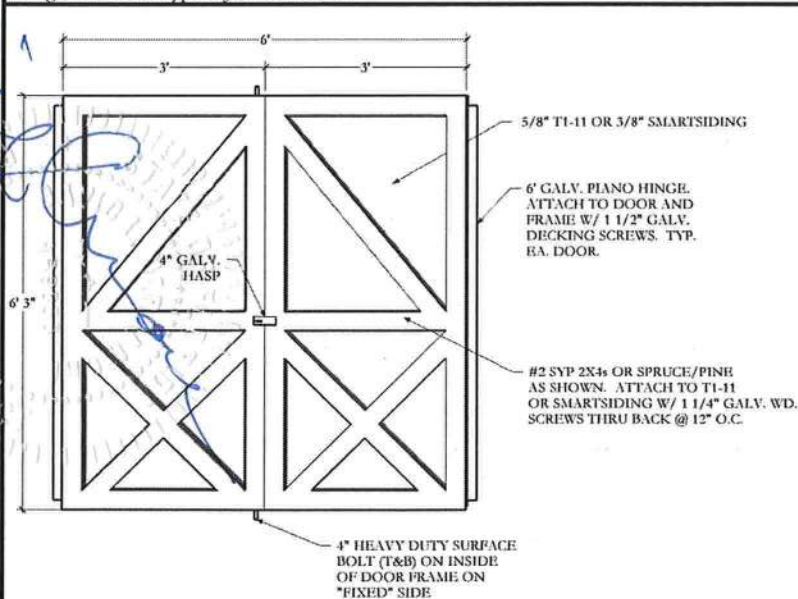
Note: Per APA, shearwall capacities for T1-11 and 3/8" smartsiding are identical to those of 19/32" plywood.

Edge nailing: Use 8d ring shank @ 3" O.C. Top & Bottom and 6" O.C. for the sides = 336 plf

Design Loads for Components and Cladding (FBC 2004 TBL 1609.6B)

Effective Wind Area for Wall = $(MRH^2)/3$				=	86.73 sf
Effective Wind Area for Roof = $(\text{Slope Ht.}^2)/3$				=	1.81 sf
Roof:	Zone 1:	17.5	x (.77)	=	13.5 psf
		-27.8	x (.77)	=	-21.4 psf
	Zone 2:	17.5	x (.77)	=	13.5 psf
		-58.7	x (.77)	=	-45.2 psf
	Zone 4:	25.9	x (.77)	=	19.9 psf
		-28.4	x (.77)	=	-21.9 psf
Wall:	Zone 5:	25.9	x (.77)	=	19.9 psf
		-31.6	x (.77)	=	-24.3 psf

Design Loads for Typical Job-built Door



Maximum Wind Load		=	38 psf
Area of Door		=	3' x 6'-3" = 18.75 sf
Load		=	38 psf x 18.75 sf = 712.5 #
Load/Bolt		=	712.5#/2 = 356.25#
Bolt Tolerance		=	$\pi r^2$
3/8" $\Phi$ bolt		=	$\pi(3/16")^2 = 0.4417865 \text{ in}^2$
Fy		=	36,000 psi x 0.4417865 in <sup>2</sup> = 15,904.3 # per bolt

3/8"  $\Phi$  bolt OK

nai2005cmb





