DATE 03/11/2010

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000028411

APPLICANT BILLY J. TATOM PHONE 344-0497

ADDRESS 306 SW ARCHIE GLEN LAKE CITY FL 32024

OWNER BILLY J. TATOM PHONE 344-0497

ADDRESS 306 SW ARCHIE GLEN LAKE CITY FL 32024

CONTRACTOR OWNER BUILDER PHONE

LOCATION OF PROPERTY 90W, TL KOONVILLE, TL ARCHIE GLEN, 3RD DRIVEWAY ON RIGHT, GREEN GATE

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 50400.00

HEATED FLOOR AREA 532.00 TOTAL AREA 1008.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 5/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 26-3S-15-00270-115 SUBDIVISION CEDAR HILLS

LOT 15 BLOCK PHASE UNIT TOTAL ACRES 4.32

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
			+Billy J. Tatom

Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident
EXISTING	10-0034	BK	HD	Y

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 1357

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by Foundation _____ date/app. by Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by Slab _____ date/app. by Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by Insulation _____ date/app. by

Rough-in plumbing above slab and below wood floor _____ date/app. by Electrical rough-in _____ date/app. by

Heat & Air Duct _____ date/app. by Peri. beam (Lintel) _____ date/app. by Pool _____ date/app. by

Permanent power _____ date/app. by C.O. Final _____ date/app. by Culvert _____ date/app. by

Pump pole _____ date/app. by Utility Pole _____ date/app. by M/H tie downs, blocking, electricity and plumbing _____ date/app. by

Reconnection _____ date/app. by RV _____ date/app. by Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 255.00 CERTIFICATION FEE $ 5.04 SURCHARGE FEE $ 5.04

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 340.08

INSPECTORS OFFICE Hale Tedder CLERKS OFFICE CH

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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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

Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest .com)
Address: 536 SE BAYA
City LAKE CITY Phone 352 1103

Site Location: Subdivision _____
Lot # _____ Block# _____ Permit # 28411
Address 306 SW ARCHIE

Product used	Active Ingredient	% Concentration
☐ Premise	Imidacloprid	0.1%
☐ Termidor	Fipronil	0.12%
☐ Bora-Care	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ☑ Soil ☐ Wood

Area Treated	Square feet	Linear feet	Gallons Applied
DWELLING	1008	128	60.

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line _____.

3-26-10 Date | 8:00 Time | DAVID FULLER Print Technician's Name

Remarks: _____

Applicator - White Permit File - Canary Permit Holder - Pink
10/05 ©

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 26-3S-15-00270-115 **Building permit No.** 000028411

Use Classification SFD, UTILITY **Fire:** 44.94

Permit Holder OWNER BUILDER **Waste:** 117.25

Owner of Building BILLY J. TATOM **Total:** 162.19

Location: 306 SW ARCHIE GLEN, LAKE CITY, FL 32024

Date: 03/06/2012

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

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Date: 03/06/2012

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

(RC)

Columbia County Building Permit Application

For Office Use Only Application # 1002-22 Date Received 02/16/10 By GP Permit # 28411
Zoning Official BLK Date 23.02.10 Flood Zone X Land Use A-3 Zoning A-3
FEMA Map # N/A Elevation N/A MFE 1St above Rd River N/A Plans Examiner HD Date 3-8-10
Comments
☑ NOC ☑ EH ☐ Deed or PA ☑ Site Plan ☐ State Road Info ☐ Parent Parcel #
☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
IMPACT FEES: EMS Fire Corr Road/Code
School = TOTAL N/A Suspended ☑ NF

Septic Permit No. 10-0034E Fax 386 461-1005
Name Authorized Person Signing Permit BILLY J. TATOM Phone 386 344 0497
Address 306 SW ARCHIE GLN LAKE City, FL 32024
Owners Name BILLY J. TATOM Phone 386 344-0497
911 Address 306 SW ARCHIE GLN, LAKE City, FL 32024
Contractors Name BILLY J. TATOM/OWNER BUILDER Phone 386 344 0497
Address 306 SW ARCHIE GLN, LAKE City, FL 32024
Fee Simple Owner Name & Address N/A
Bonding Co. Name & Address N/A
Architect/Engineer Name & Address (352) 472-2600 WEBARRY DESIGNS 4409 NW 186th STR. Newberry, FL 32669
Mortgage Lenders Name & Address NONE
Circle the correct power company – (FL Power & Light) – Clay Elec. – Suwannee Valley Elec. – Progress Energy
Property ID Number 26-3S-15-00270-115 Estimated Cost of Construction 30,000.00
Subdivision Name CEDAR HILLS Lot 15 Block Unit Phase
Driving Directions WEST 90 6.0 MILES FROM BASCOM NORRIS LEFT ON KOONVILLE 1.0 MILE LEFT ON ARCHIE GLN, THIRD DRIVEWAY ON RT GREEN GATE (TATOMS) Number of Existing Dwellings on Property Ø
Construction of RESEDENTAIL DWELLING SFD Total Acreage 4.32 Lot Size
Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 650.18 X 289.
Actual Distance of Structure from Property Lines - Front ~~400'~~ Side ~~156'~~ Side ~~185~~ Rear ~~214'8~~
Number of Stories 1 Heated Floor Area 532 Total Floor Area 1008 Roof Pitch 5/12

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.

spoke to Billy
3/8/10

AFFIDAVIT

STATE OF FLORIDA
COUNTY OF COLUMBIA

This is to certify that I, (We), Deas Bullard Properties owner of the below described property:

Tax Parcel No. 26-5s-15-00270-115

Subdivision (name, lot, block, phase) 15 Cedar Hills Subdivision

Give my permission to Billy Tatom to place a mobile home/travel trailer/single family home (circle one) on the above mentioned property.

I (We) understand that this could result in an assessment for solid waste and fire protection services levied on this property.

Sue Lane for
Owner Deas Bullard Properties

Owner

SWORN AND SUBSCRIBED before me this 18 day of Feb, 20 10. This (these) person(s) are personally known to me ~~or produced ID~~ _____.

Holly C Hanover
Notary Signature

Holly C. Hanover
Commission # DD553935
Expires May 18, 2010
Bonded Troy Fain - Insurance, Inc 800-385-7019

Columbia County Property Appraiser

DB Last Updated: 1/28/2010

Parcel: 26-3S-15-00270-115

2009 Tax Year

Tax Record | Property Card | Interactive GIS Map | Print

Search Result: 1 of 1

Owner & Property Info

Owner's Name	DEAS-BULLARD PROPERTIES LLP		
Site Address	ARCHIE		
Mailing Address	672 E DUVAL ST LAKE CITY, FL 32055		
Use Desc. (code)	VACANT (000000)		
Neighborhood	026315.01	**Tax District**	3
UD Codes	MKTA01	**Market Area**	01
Total Land Area	0.000 ACRES		
Description	LOT 15 CEDAR HILLS S/D. ORB 815-1258, DC 833-2290, QC 833-2291, 857-672, WD 1156- 117, QC 1167-1331		

GIS Aerial

Property & Assessment Values

Mkt Land Value	cnt: (2)	$27,920.00
Ag Land Value	cnt: (0)	$0.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$27,920.00

Just Value	$27,920.00
Class Value	$0.00
Assessed Value	$27,920.00
Exemptions	$0.00
Total Taxable Value	County: $27,920.00 | City: $27,920.00 Other: $27,920.00 | School: $27,920.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
7/31/2008	1156/117	QC	I	U	01	$100.00
1/24/1997	833/2291	QC	I	U	01	$20,500.00
5/30/1995	815/1258	CD	V	U	13	$21,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	0000001.000 LT - (0000000.000AC)	1.00/1.00/1.00/1.00	$25,920.00	$25,920.00
009945	WELL/SEPT (MKT)	0000001.000 UT - (0000000.000AC)	1.00/1.00/1.00/1.00	$2,000.00	$2,000.00

Columbia County Property Appraiser

DB Last Updated: 1/28/2010

1 of 1

NOTICE OF COMMENCEMENT

Inst:201012002260 Date:2/16/2010 Time:9:26 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1189 P:342

Tax Parcel Identification Number 26-35-15-0270-115

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes. the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description)*: Cedar Hills Lot 15
   a) Street *(job)* Address: 306 SW Archie Coker LC FL 32024
2. General description of improvements: Single Family Dwelling

3. Owner Information
   a) Name and address: Bill Tatom 306 SW Archie Coker LC FL 32024
   b) Name and address of fee simple titleholder (if other than owner) N/A
   c) Interest in property N/A
4. Contractor Information
   a) Name and address: Owner Builder
   b) Telephone No.: 386-344-0497 Fax No. (Opt.)
5. Surety Information
   a) Name and address: N/A
   b) Amount of Bond: N/A
   c) Telephone No.: N/A Fax No. (Opt.)
6 Lender
   a) Name and address: N/A
   b) Phone No.
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: Bill Tatom 306 SW Archie Coker LC FL 32024
   b) Telephone No.: 386-344-0497 Fax No. (Opt.) 386 461 1003

8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b). Florida Statutes:
   a) Name and address:
   b) Telephone No.: Fax No. (Opt.)

9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified):**

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Billy J. Tatom
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

BILLY J. TATOM
Print Name

The foregoing instrument was acknowledged before me , a Florida Notary, this 14 day of February, 2010, by: BILLY J TATOM as OWNER **(type of authority, e.g. officer, trustee, attorney fact) for** **(name of party on behalf of whom instrument was executed).**

Personally Known ____ OR Produced Identification ✓ Type FL DL

Notary Signature

Notary Stamp or Seal

STEVEN P. CRONIN
Notary Public - State of Florida
My Commission Expires Jan 27, 2012
Commission # DD 752143

—AND—

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Steven P. Cronin
Signature of Natural Person Signing (in line #10 above.)

10-0034C

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 94983
DATE PAID: 1/25/10
FEE PAID: 125.00
RECEIPT #: 1232162

APPLICATION FOR:
[ ] New System [X] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: ~~BILLY J. TATOM~~ DEAS-BULLARD PROPERTIES LLP

AGENT: (TATOM) TELEPHONE: 961-0384

MAILING ADDRESS: 306 S.W. ARCHIE GLN LAKE CITY, FL. 32024

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES.

==========

PROPERTY INFORMATION

LOT: 15 BLOCK: ____ SUBDIVISION: CEDAR HILLS PLATTED: 3/89

PROPERTY ID #: 26-3S-15-08270-115 ZONING: Res I/M OR EQUIVALENT: [Y / (N)]

PROPERY SIZE: 4.32 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N)] DISTANCE TO SEWER: _____ FT

PROPERTY ADDRESS: 306 S.W. ARCHIE GLN LAKE CITY, FL. 32024

DIRECTIONS TO PROPERTY: HYWAY 90 WEST TO KOONVILLE Rd. LEFT TO ARCHIE GLN. LEFT TO THIRD DRIVEWAY ON THE Right GREEN GATE

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SINGLE FAMILY	1	1008	Original Attached
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: Billy J. Tatom DATE: 1/25/10

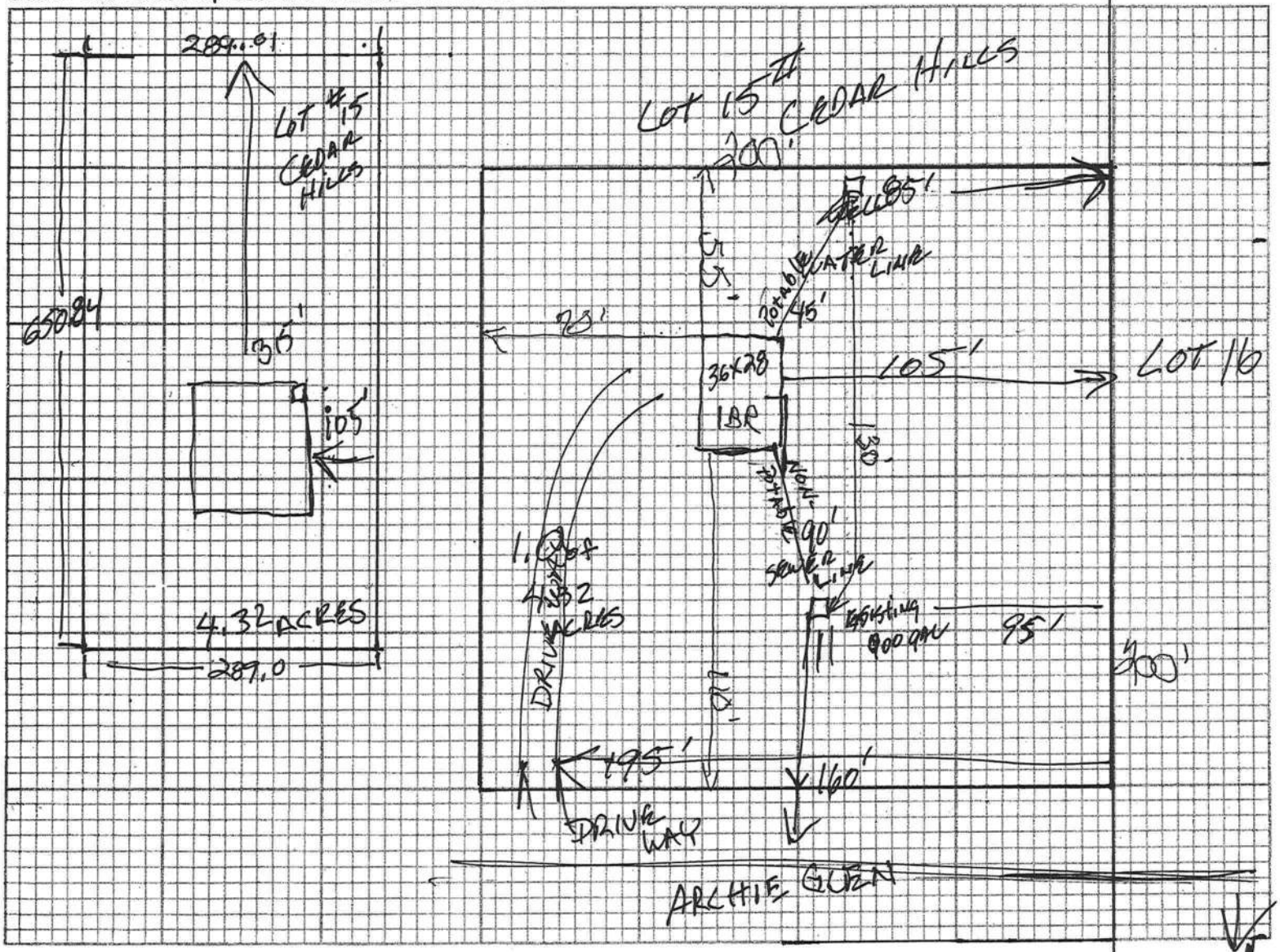
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 10-0034E

PART II - SITE PLAN

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



Notes: _____

Site Plan submitted by: BILL J. TATOM (Signature) Columbia CHD — OWNER (Title)

Plan Approved X — Not Approved _____ — Date 2/2/10

By _____ — County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Office: 386-758-1008 Fax: 386-758-2160

OWNER BUILDER DISCLOSURE STATEMENT

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed $75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased with in 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

I understand that I 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 my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address http://www.myflorida.com/dbpr/pro/cilb/index.html for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

306 SW ARCHIE GLN, LAKE CITY, FL. 32024.

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual of firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of $300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of $100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

TYPE OF CONSTRUCTION

(✓) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding

( ) Addition, Alteration, Modification or other Improvement

( ) Commercial, Cost of Construction_____ Construction of_____

( ) Other_____

I Bill J. Tatom, 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 allowing this exception for the construction permitted by Columbia County Building Permit.

Billy J. Tatom 02/14/10
Owner/Builder Signature Date

NOTARY OF OWNER BUILDER SIGNATURE

The above signer is personally known to me or produced identification FDL# T350-070-54-021-0

Notary Signature _____ Date 2/14/10 (Seal)

STEVEN P. CRONIN
Notary Public - State of Florida
My Commission Expires Jan 27, 2012
Commission # DD 792143

FOR BUILDING DEPARTMENT USE ONLY

I hereby certify that the above listed owner builder has been given notice of the restriction stated above.

Building Official/Representative_____

Revised: 7-23-09
DISCLOSURE STATEMENT 09
Documents: B&Z Forms

Effective March 1, 2009

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 1100B-08 — Residential Component Prescriptive Method B — ALL CLIMATE ZONES

Compliance with Method B of Chapter 11 of the *Florida Building Code, Residential*, or Subchapter 13-6 of the *Florida Building Code, Building*, may be demonstrated by the use of Form 1100B for single-and multiple-family residences of three stories or less in height, additions to existing residential buildings, renovations to existing residential buildings, new heating, cooling, and water heating systems in existing buildings, and site-added components of manufactured homes and manufactured buildings. To comply, a building must meet or exceed all of the energy efficiency requirements on Table 11B-1 and all applicable mandatory requirements summarized in Table 11B-2 of this form. If a building does not comply with this method, it may still comply under Method A of Chapter 11 or Subchapter 13-6 of the applicable code.

PROJECT NAME AND ADDRESS:	TATOM	BUILDER:	Tatom
		PERMITTING OFFICE:	Columbia
OWNER:		PERMIT NO.:	28411 — JURISDICTION NO.: 221000

1. New construction including additions which incorporate any of the following features cannot comply using this method: skylights or other nonvertical roof glass, glass areas in excess of 16 percent of conditioned floor area, and electric resistance heat (See Notes to Table 11B-1 on page 2).
2. Fill in all the applicable spaces of the "To Be Installed" column on "Table 11B-1 with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
3. Complete page 1 based on the "To Be Installed" column information.
4. Read "Minimum Requirements for All Packages", Table 11B-2 and check each box to indicate your intent to comply with all applicable items.
5. Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

	Please Print	CK
1. New construction, addition, or existing building	1. NEW	
2. Single-family detached or multiple-family attached	2. SINGLE	
3. If multiple-family–No. of units covered by this submission	3.	
4. Is this a worst case? (yes/no)	4. YES	
5. Conditioned floor area (sq. ft.)	5. 532	
6. Glass type and area:		
a. U-factor	6a. .65	
b. SHGC	6b. .35	
c. Glass area	6c. 96 sq. ft.	
7. Percentage of glass to floor area	7. 18 %	
8. Floor type, area or perimeter, and insulation:		
a. Slab-on-grade (*R*-value)	8a. R= 0 — 75 lin. ft.	
b. Wood, raised (*R*-value)	8b. R= — sq. ft.	
c. Wood, common (*R*-value)	8c. R= — sq. ft.	
d. Concrete, raised (*R*-value)	8d. R= — sq. ft.	
e. Concrete, common (*R*-value)	8e. R= — sq. ft.	
9. Wall type, area and insulation:		
a. Exterior: 1. Masonry (Insulation R-value)	9a-1. R= — sq. ft.	
2. Wood frame (Insulation *R*-value)	9a-2. R= 13 — 528 sq. ft.	
b. Adjacent: 1. Masonry (Insulation *R*-value)	9b-1. R= — sq. ft.	
2. Wood frame (Insulation *R*-value)	9b-2. R= 13 — 224 sq. ft.	
10. Ceiling type, area and insulation:		
a. Under attic (Insulation *R*-value)	10a. R= 30 sq. ft. 528	
b. Single assembly (Insulation *R*-value)	10b. R= — sq. ft.	
11. Air distribution system: Duct insulation, location	11a. R= 6 — ATTIC	
Test report required if duct in unconditioned space	11b. Test report attached? Yes (No)	
12. Cooling system:	12a. Type: CENTRAL	
(Types: central, room unit, package terminal A.C., gas, none)	12b. SEER/EER: 13	
	12c. Capacity: 18	
13. Heating system:	13a. Type: HEAT PUMP	
(Types: heat pump, elec. strip, nat. gas, LP-Gas, gas h.p., room or PTAC, none)	13b. HSPF/COP/AFUE: 7.7	
14. Programmable thermostat installed on HVAC systems:	13c. Capacity: 18	
	14. Yes (No)	
15. Hot water system:	15a. Type: ELECT-50GAL	
(Types: elec., nat. gas, LP-gas, solar, heat rec., ded. heat pump, other, none)	15b. EF: .87	

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

PREPARED BY: Cole DATE: 3-4-10

I hereby certify that this building is in compliance with the Florida Energy Code:

OWNER AGENT: _____ DATE: _____

Review of 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 in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____

TABLE 11B-1 MINIMUM REQUIREMENTS (See Note 1) All Climate Zones

BUILDING COMPONENT	PERFORMANCE CRITERIA	INSTALLED VALUES:
Windows (see Note 2):	U-Factor = 0.65 SHGC = 0.35 % of CFA < = 16%	U-Factor = .65 SHGC = .35 i/r % of CFA =
Exterior door type	Wood or insulated	Type: Insul
Walls – Ext. and Adj. (see Note 3): Frame Mass (see Note 3) Interior of wall: Exterior of wall:	R-13 R-6 R-4	R-Value = 13 R-Value = R-Value =
Electric resistance heat (See Note 10)	Not allowed	
Ceilings (see Notes 3 & 4)	R=30	R-Value = 30
Floors: Slab-on-grade Over unconditioned spaces (see Note 3)	No requirement R-13	R-Value = 0
Hot water systems (storage type) Electric (see Note 5): Gas fired (see Note 6):	40 gal: EF = 0.92 50 gal: EF = 0.90 40 gal: EF = 0.59 50 gal: EF = 0.58	Gallons = 4 EF = .87 Gallons = EF =
Air conditioning systems (see Note 7)	SEER = 13.0	SEER = 13
Heat pump systems (see Note 8)	SEER = 13.0 HSPF = 7.7	SEER = 13 HSPF = 7.7
Gas furnaces	AFUE = 78%	AFUE =
Oil furnaces	AFUE = 78%	AFUE =
Programmable thermostat (see Note 10)	Must be installed on all HVAC systems.	Installed? Yes (No)
Ductwork: (see Note 9) Unconditioned space Conditioned space Unvented attic assembly per R806.4 with insulation at the roof plane	R-6, TESTED NA R-4.2	Location: Attic Unconditioned space R-Value = 6 Test report: Conditioned space R-Value = .4 (No test report required)
Air Handler location: Unconditioned attic or garage Conditioned space or Unvented attic assembly per R806.4 with insulation at the roof plane	Requires test report No duct test required	Location: Test report:

(1) Each component present in the As-Built home must meet or exceed each of the applicable performance criteria in order to comply with this code using this method; otherwise Method A compliance must be used.

(2) Windows and doors qualifying as glazed fenestration areas must comply with both the maximum *U*-Factor and the maximum SHGC (Solar Heat Gain Coefficient) criteria and have a maximum total window area equal to or less than 16% of the conditioned floor area (CFA), otherwise Method A must be used for compliance. **Exceptions:** 1. Additions of 600 square feet (56 m^2) or less may have maximum glass to CFA of 50 percent. 2. Renovations with new windows under ≥ 2 foot overhang whose lower edge does not extend further than 8 feet from the overhang may have tinted glazing or double-pane clear glazing. Replacement skylights installed in renovations shall be doublepaned or single paned with a diffuser.

(3) *R*-Values are for insulation material only as applied in accordance with manufacturers' installation instructions. For mass walls, the "interior of wall" requirement (R-6) must be met except if at least 50% of the R-4 insulation value required for the "exterior of wall" is installed exterior of, or integral to, the wall.

(4) Attic knee walls shall be insulated to same level as ceilings and shall have a positive means of maintaining insulation in place. Such means may include rigid insulation board or air barrier sheet materials adequately fastened to the attic sides of knee wall framing materials.

(5) For other electric storage volumes, minimum EF = 0.97 - (0.00132 * volume).

(6) For other natural gas storage volumes, minimum EF = 0.67 - (0.0019 * volume).

(7) For all conventional units with capacities greater than 30,000 Btu/hr. For Small-Duct, High-Velocity units, Space Constrained units, and units with capacities less than 30,000 Btu/hr see Table 13-607.AB.3.2A of the *Florida Building Code, Building*, or Table N1107.AB.3.2A of the *Florida Building Code, Residential*.

(8) For all conventional units with capacities greater than 30,000 Btu/hr. For Small-Duct, High-Velocity units, Space Constrained units, and units with capacities less than 30,000 Btu/hr see Table 13-607.AB.3.2B of the *Florida Building Code, Building*, or Table N1107.AB.3.2B of the *Florida Building Code, Residential*.

(9) All ducts and air handlers shall be either located in conditioned space or tested by a Class 1 BERS rater to be "substantially" leak free. "Substantially leak free" shall mean distribution system air leakage to outdoors no greater than 3 cfm per 100 square feet of conditioned floor area at a pressure differential of 25 Pascal (0.10 in. wc.) across the entire air distribution system, including the manufacturer's air handler enclosure. **Exception:** New or replacement ducts installed onto an existing air distribution system as part of an addition or renovation. Such ducts shall either be insulated to R-6 or be installed in conditioned space.

10) The prohibition on electric resistance heat and the requirement for programmable thermostats do not apply to additions, renovations, and new heating systems installed in existing buildings.

TABLE 11B-2 MINIMUM REQUIREMENTS FOR ALL PACKAGES

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Exterior Joints & Cracks	N1106.AB.1.2	To be caulked, gasketed, weather-stripped or otherwise sealed.	
Exterior Windows & Doors	N1106.AB.1.1	Max .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Sole & Top Plates	N1106.AB.1.2.1	Sole plates and penetrations through top plates of exterior walls must be sealed.	
Recessed Lighting	N1106.AB.1.2.4	Type IC rated with no penetrations (two alternatives allowed).	
Multistory Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Exhaust Fans	N1106.AB.1.3	Exhaust fans vented to unconditioned space shall have dampers, except for combustion devices with integral exhaust ductwork.	
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N1112.AB.3. Switch or clearly marked circuit breaker electric or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers.	
Swimming Pools & Spas	N1112.AB.2.3.4	Spas & heated pools must have covers (except solar heated). Noncommercial pools must have a pump timer. Gas spa & pool heaters must have minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Hot Water Pipes	N1112.AB.5	Insulation is required for hot water circulating systems (including heat recovery units).	
Shower Heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 psig.	
HVAC Duct Construction, Insulation & Installation	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in attics must be insulated to a minimum of R-6.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	

SUBCONTRACTOR VERIFICATION FORM Billy J. Tatom

APPLICATION NUMBER _____ CONTRACTOR Owner Builder PHONE 386 344 0497

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name Owner Builder License #:	Signature Billy J. Tatom Phone #: 386 344 0497
MECHANICAL/ A/C _____	Print Name Owner Builder License #:	Signature Billy J. Tatom Phone #: 386 344 0497
PLUMBING/ GAS Good 659	Print Name Darrin Campbell's Brothers Plumbing License #: CFC1427472	Signature Darrin Campbell Phone #: 386-454-3491
ROOFING	Print Name Owner Builder License #:	Signature Billy J. Tatom Phone #: 386 344 0497
SHEET METAL	Print Name N/A License #:	Signature Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name N/A License#:	Signature Phone #:
SOLAR	Print Name N/A License #:	Signature Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON		N/A	
CONCRETE FINISHER	00310 Good	LARRY PARRISH	Larry Parrish
FRAMING		OWNER BUILDER (O.B.)	Billy J. Tatom
INSULATION		(O.B.)	
STUCCO		O B	
DRYWALL		O B	
PLASTER		O B	
CABINET INSTALLER		O B	
PAINTING		O B	
ACOUSTICAL CEILING		N/A	
GLASS		O B	Billy J. Tatom
CERAMIC TILE		O B	Billy J. Tatom
FLOOR COVERING		O B	Billy J. Tatom
ALUM/VINYL SIDING		NA	
GARAGE DOOR		O B	Billy J. Tatom
METAL BLDG ERECTOR		N/A	

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Bill Tatom Residents permit seminal February 16, 2010

Application number 1002-22
Submitted on February 16, 2010

Septic tank permit number 10-0034

Columbia County building Department
135 NE. Hernando Ave., Lake City, FL 32055
Phone 386-758-1008
Fax 386-758-2160

Items that need to be corrected or completed

1. subcontractors verification form---need to have Larry Parrish's signature and fax back to the Columbia County building apartments fax number listed above
2. when you go on the Columbia County property appraiser's website and look up the property described on permit application it shows Deas Bullard Properties as the owner. I have a copy of the owner's affidavit that is the filled out and notarized and hand-delivered back to the Columbia County building Department this document cannot be fax in it must be the original. Also you will need to have a printed copy from the Columbia County property appraiser's website showing the owners as listed by the parcel number for this parcel to be given to the Columbia County building Department at the same time.
3. Need to have an energy code manual J completed and turned in to the Building Department. Plans one need to be given to the HVAC company or contact your architect/engineer and see if he's able to provide you with a energy code manual J.
4. The lady at the front desk question the engineering for the trusses I told her that it was within that engineering, Bill you may want to consider Mayo Truss or whoever you want to use and go ahead and get those sealed plans for your trusses, I believe this will become an issue before the permit is issued.

The check that you have given us to pay the permit with number 1350 is in the folder. I paid the $15 submittal fee by cash and have a cash receipt with the check.

Notice the commencement was filed and is in the folder (original copy) you need to hang onto to this and have it posted at your job site in your high dollar job box. I recommend making photocopies of it and having them within a job box and the original stored somewhere safe. When Debbie recorded your notice to owner she pay $10 cash but was unable to get receipt from the County clerk of court due to computer being down.

As of this time we have spent $25 cash for your permit application.

If you have any questions please feel free to contact me at 386-965-6205

Thanks Steve Cronin

Robbins Engineering, Inc.

6 November, 2009

To whom this may concern:

It is our pleasure to inform you that on November 16, 2009 the Florida statute 61G15-23.001 is changing so as to allow the use of a rubber stamp in addition to embossed seals and digital seals. In light of this change, MiTek /Robbins is going to discontinue the use of embossed seals on our engineering work beginning on January 1, 2010. This extra time is to allow this knowledge to disseminate to those who are used to getting only embossed seals in the state of Florida. The actual language of the changed statute is copied here for your use:

"61G15-23.001 Seals Acceptable to the Board.
(1) Pursuant to Section 471.025, F.S., the Board hereby establishes as indicated below the forms of embossing impression seals which are acceptable to the Board.
(a) Any seal capable of leaving a permanent ink representation or other form of opaque and permanent impression which contains the information described herein is acceptable to the Board.
(b) Said seal shall be a minimum of 1 7/8 inches in diameter and shall be of a design similar to those set forth below. All engineers must be utilizing a seal as illustrated in this rule no later than January 1, 2006.

(c)(2) The type of seal in the center may be used only by registrants who are in good standing under both Chapters 471 and 472, F.S.
(d) The seal may contain an abbreviated form of the licensee's given name or a combination of initials representing the licensee's given name provided the surname listed with the Board appears on the seal and in the signature.
(2) Embossing impression seals which otherwise comply with these provisions and which do not provide an opaque and permanent impression or permanent ink representation are also acceptable to the Board. Rulemaking Specific Authority 471.008, 471.025 FS. Law Implemented 471.025 FS. History–New 1-8-80, Amended 6-23-80, Formerly 21H-23.01, 21H-23.001, Amended 4-1-97, 2-5-04, 8-8-05,_____"

Very truly yours,

Thomas A. Albani PE
Vice President

6904 Parke East Boulevard
Tampa, FL 33610-4115
Phone: 813-972-1135 • Fax: 813-971-6117
www.robbinseng.com

RE: TATOM - ROOF DESIGN INFO

Site Information:

Customer Info: TATOM Model: TATOM
Lot/Block: . Subdivision: .
Address: .
City: LAKE CITY State: FLORIDA

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2007□ Design Program: Robbins OnLine Plus 26.0.009□
Wind Code: ASCE 7-05 Wind Speed: 120 mph Floor Load: N/A psf
Roof Load: 40.0 psf

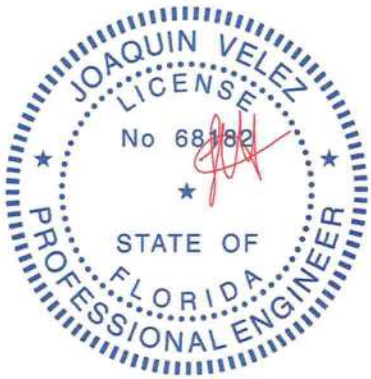
This package includes 5 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T3634243	A1	2/12/010
2	T3634244	A2	2/12/010
3	T3634245	A3GE	2/12/010
4	T3634246	B1	2/12/010
5	T3634247	B2GE	2/12/010

The truss drawing(s) referenced above have been prepared by Robbins Engineering, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2011.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Sec. 2.



6904 Parke East Boulevard
Tampa, FL 33610-4115
Phone: 813-972-1135 • Fax: 813-971-6117
www.robbinseng.com

FL Cert. 6634

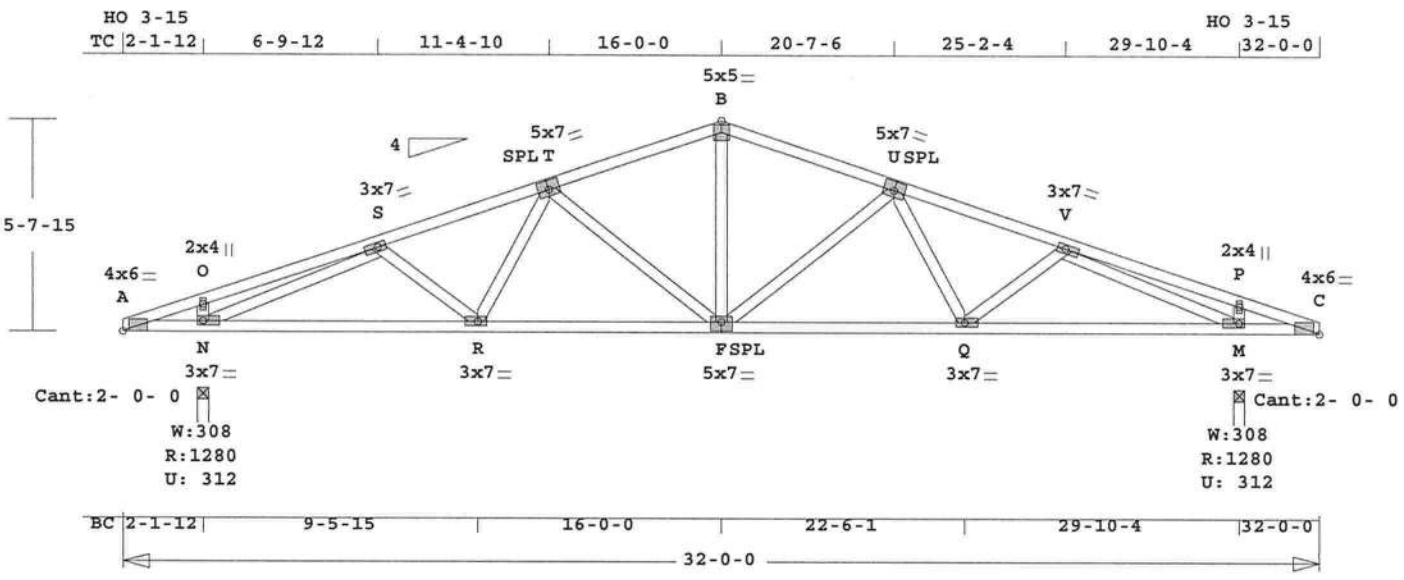
DALLAS • **TAMPA** • FT. WORTH

February 12,2010

Velez, Joaquin

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
TATOM	A1	12	TR	320000	4	0	0	T3634243

TATOM



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 204.3 LBS

Online Plus -- Version 26.0.009
RUN DATE: 12-FEB-10

	CSI	Size	Lumber
TC	0.33	2x 4	SP-#2
BC	0.50	2x 4	SP-#2
WB	0.80	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	32- 0- 0
BC	Cont.	0- 0- 0	32- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
N	1280	313 U	85 R
M	1280	313 U	85 R

Jt	Brg Size	Required
N	3.5"	1.5"
M	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI	Bnd
Top Chords					
A -O	0.24	201 C	0.00		0.24
O -S	0.24	164 C	0.00		0.24
S -T	0.33	1911 C	0.14		0.19
T -B	0.31	1505 C	0.12		0.19
B -U	0.31	1505 C	0.12		0.19
U -V	0.33	1911 C	0.14		0.19
V -P	0.24	164 C	0.00		0.24
P -C	0.24	201 C	0.00		0.24
Bottom Chords					
A -N	0.28	201 T	0.01		0.27
N -R	0.50	1800 T	0.30		0.20
R -F	0.42	1759 T	0.18		0.24
F -Q	0.42	1759 T	0.18		0.24
Q -M	0.50	1800 T	0.30		0.20
M -C	0.28	201 T	0.01		0.27
Webs					
N -O	0.05	353 T			
N -S	0.80	1920 C			
S -R	0.01	122 T			
R -T	0.03	221 T			
T -F	0.23	432 C			
F -B	0.14	682 T			
F -U	0.23	432 C			
U -Q	0.03	221 T			
Q -V	0.01	122 T			
V -M	0.80	1919 C			
M -P	0.05	353 T			

TL Defl -0.23" in R -F L/999
LL Defl -0.09" in R -F L/999
LL Cant 0.01" in M -C L/999
Shear // Grain in O -S 0.19

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	Ctr	0.1	0.40
O	MT20	2.0x 4.0	Ctr	Ctr	0.29
S	MT20	3.0x 7.0-0.8	-0.3		0.68
T	MT20	5.0x 7.0-0.2	0.5		0.42
B	MT20	5.0x 5.0	Ctr	Ctr	0.37
U	MT20	5.0x 7.0	0.2	0.5	0.42
V	MT20	3.0x 7.0	0.8	-0.3	0.68
P	MT20	2.0x 4.0	Ctr	Ctr	0.29
C	MT20	4.0x 6.0	Ctr	0.1	0.40
N	MT20	3.0x 7.0	Ctr	Ctr	0.75
R	MT20	3.0x 7.0-0.7	Ctr		0.32
F	MT20	5.0x 7.0	Ctr-0.5		0.44
Q	MT20	3.0x 7.0	0.7	Ctr	0.32
M	MT20	3.0x 7.0	Ctr	Ctr	0.75

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

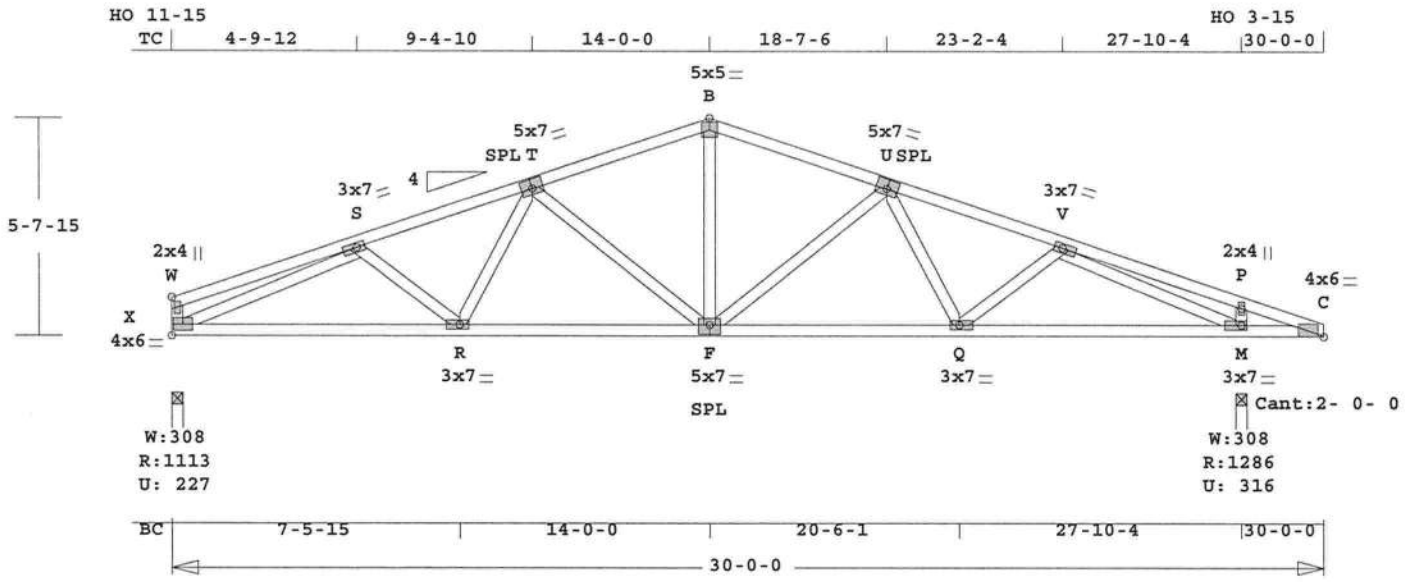
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle
3- 6- 0 tall by
2- 0- 0 wide
will fit between the B.C. and any other member.
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 1920 Lbs
Max tens. force 1800 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

February 12,2010

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
TATOM	A2	5	TR	300000	4	0	0	T3634244

TATOM



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 196.5 LBS

Online Plus -- Version 26.0.009
RUN DATE: 12-FEB-10

	CSI	-Size-	----Lumber----
TC	0.35	2x 4	SP-#2
BC	0.50	2x 4	SP-#2
WB	0.87	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	30- 0- 0
BC	Cont.	0- 0- 0	30- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0

Total 40.0 Spacing 24.0"
Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
X	1113	228 U	98 R
M	1287	316 U	79 R

Jt	Brg Size	Required
X	3.5"	1.5"
M	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
W -S	0.24	80 T	0.01	0.23
S -T	0.35	1970 C	0.15	0.20
T -B	0.30	1521 C	0.13	0.17
B -U	0.31	1521 C	0.13	0.18
U -V	0.33	1927 C	0.15	0.18
V -P	0.24	164 C	0.00	0.24
P -C	0.24	200 C	0.00	0.24
Bottom Chords				
X -R	0.49	1871 T	0.31	0.18
R -F	0.49	1793 T	0.18	0.31
F -Q	0.42	1774 T	0.18	0.24
Q -M	0.50	1814 T	0.30	0.20
M -C	0.27	200 T	0.01	0.26
Webs				
X -W	0.02	198 T	WindLd	
X -S	0.87	2086 C		
S -R	0.02	185 T		
R -T	0.03	258 T		
T -F	0.25	456 C		
F -B	0.15	690 T		
F -U	0.23	432 C		
U -Q	0.03	222 T		
Q -V	0.01	124 T		
V -M	0.81	1935 C		
M -P	0.05	353 T		

TL Defl -0.26" in X -R L/999
LL Defl -0.11" in X -R L/999
LL Cant 0.01" in M -C L/999
Shear // Grain in W -S 0.20

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
W	MT20	2.0x 4.0	Ctr	Ctr	0.33
S	MT20	3.0x 7.0	-0.8	-0.3	0.74
T	MT20	5.0x 7.0	-0.2	0.5	0.42
B	MT20	5.0x 5.0	Ctr	Ctr	0.37
U	MT20	5.0x 7.0	0.2	0.5	0.42
V	MT20	3.0x 7.0	0.8	-0.3	0.69
P	MT20	2.0x 4.0	Ctr	Ctr	0.29
C	MT20	4.0x 6.0	Ctr	0.1	0.40
X	MT20	4.0x 6.0	Ctr	Ctr	0.71
R	MT20	3.0x 7.0	-0.7	Ctr	0.32
F	MT20	5.0x 7.0	Ctr	-0.5	0.44
Q	MT20	3.0x 7.0	0.7	Ctr	0.32
M	MT20	3.0x 7.0	Ctr	Ctr	0.75

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

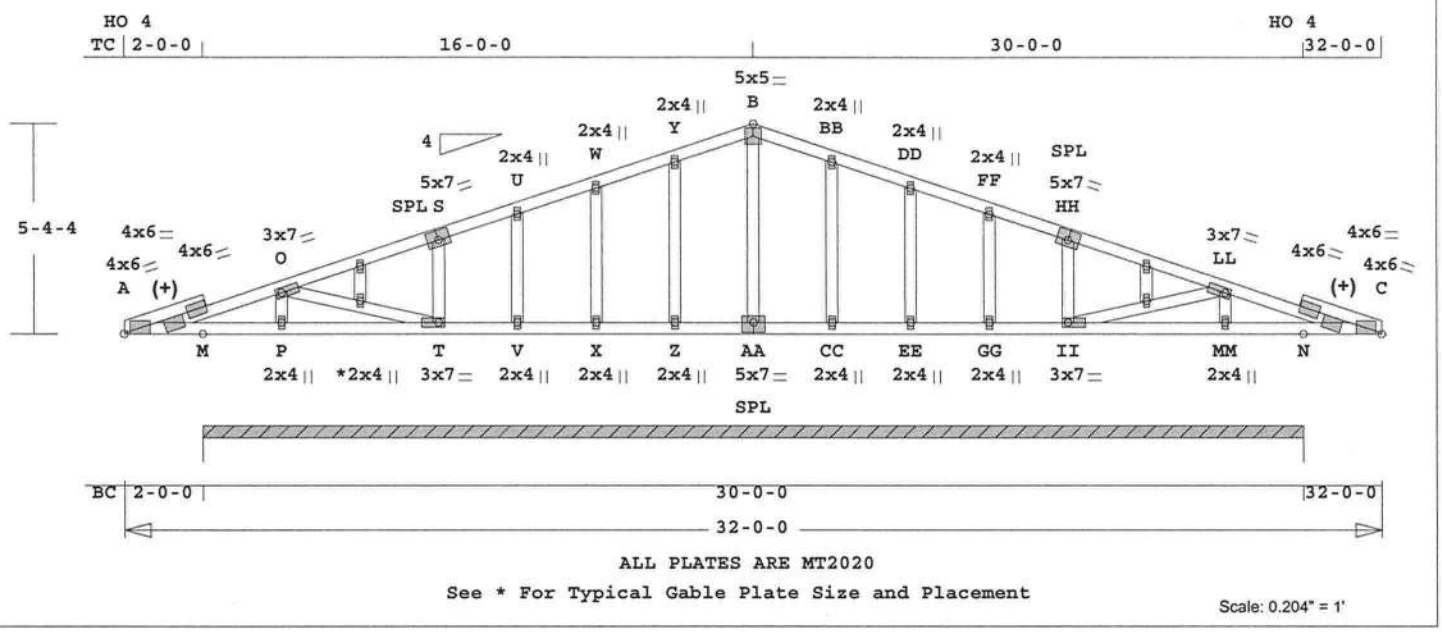
NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle 3- 6- 0 tall by 2- 0- 0 wide will fit between the B.C. and any other member.
Design checked for 10 psf non-concurrent LL on BC.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 2086 Lbs
Max tens. force 1871 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

February 12,2010

Job	Mark	Quan	Type	Span	Pl-Hl	Left OH	Right OH	Engineering
TATOM	A3GE	2	TR	320000	4	0	0	T3634245

TATOM



ALL PLATES ARE MT2020

See * For Typical Gable Plate Size and Placement

Scale: 0.204" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 206.6 LBS

Online Plus -- Version 26.0.009
RUN DATE: 12-FEB-10

	CSI	Size	Lumber
TC	0.13	2x 4	SP-#2 (+)
BC	0.06	2x 4	SP-#2
WB	0.01	2x 4	SP-#2
GW	0.04	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	32- 0- 0
BC	Cont.	0- 0- 0	32- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
M	2560	625 U	80 R

Jt	Brg Size	Required
M	336.0"	24"-to- 360"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl	CSI-Bnd
Top Chords				
A -O	0.13	147 C	0.02	0.11
O -S	0.12	106 C	0.01	0.11
S -U	0.11	34 C	0.00	0.11
U -W	0.03	34 T	0.00	0.03
W -Y	0.04	78 T	0.00	0.04
Y -B	0.05	120 T	0.01	0.04
B -BB	0.05	120 T	0.01	0.04
BB-DD	0.04	78 T	0.00	0.04
DD-FF	0.03	34 T	0.00	0.03
FF-HH	0.11	34 C	0.00	0.11
HH-LL	0.12	106 C	0.01	0.11
LL-C	0.13	147 C	0.02	0.11
Bottom Chords				
A -P	0.06	0 T	0.00	0.06
P -T	0.06	0 T	0.00	0.06
T -V	0.06	0 T	0.00	0.06
V -X	0.02	0 T	0.00	0.02
X -Z	0.02	0 T	0.00	0.02
Z -AA	0.02	0 T	0.00	0.02
AA-CC	0.02	0 T	0.00	0.02
CC-EE	0.02	0 T	0.00	0.02
EE-GG	0.02	0 T	0.00	0.02
GG-II	0.06	0 T	0.00	0.06
II-MM	0.06	0 T	0.00	0.06
MM-C	0.06	0 T	0.00	0.06
Webs				
O -T	0.01	91 T		
II-LL	0.01	91 T		
Gable Webs				
P -O	0.02	246 C		
T -S	0.02	205 C		
V -U	0.01	90 C		
X -W	0.02	126 T		
Z -Y	0.03	192 T		
AA-B	0.04	124 C		
CC-BB	0.03	192 T		
EE-DD	0.02	126 T		
GG-FF	0.01	90 C		
II-HH	0.02	205 C		
MM-LL	0.02	246 C		

TL Defl 0.00" in II-MM L/999
LL Defl 0.00" in II-MM L/999
Shear // Grain in O -S 0.14

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	4.0x 6.0	Ctr-0.3		0.42
O	MT20	3.0x 7.0	Ctr	Ctr	0.24
S	MT20	5.0x 7.0-0.2	0.5		0.38
U	MT20	2.0x 4.0	Ctr	Ctr	0.30
W	MT20	2.0x 4.0	Ctr	Ctr	0.33
Y	MT20	2.0x 4.0	Ctr	Ctr	0.31
B	MT20	5.0x 5.0	Ctr	Ctr	0.37
BB	MT20	2.0x 4.0	Ctr	Ctr	0.31
DD	MT20	2.0x 4.0	Ctr	Ctr	0.33
FF	MT20	2.0x 4.0	Ctr	Ctr	0.30
HH	MT20	5.0x 7.0	0.2	0.5	0.38
LL	MT20	3.0x 7.0	Ctr	Ctr	0.24
C	MT20	4.0x 6.0	Ctr-0.3		0.42
P	MT20	2.0x 4.0	Ctr	Ctr	0.34
T	MT20	3.0x 7.0	Ctr	Ctr	0.23
V	MT20	2.0x 4.0	Ctr	Ctr	0.34
X	MT20	2.0x 4.0	Ctr	Ctr	0.34
Z	MT20	2.0x 4.0	Ctr	Ctr	0.34
AA	MT20	5.0x 7.0	Ctr-0.5		0.39
CC	MT20	2.0x 4.0	Ctr	Ctr	0.34
EE	MT20	2.0x 4.0	Ctr	Ctr	0.34
GG	MT20	2.0x 4.0	Ctr	Ctr	0.34
II	MT20	3.0x 7.0	Ctr	Ctr	0.23
MM	MT20	2.0x 4.0	Ctr	Ctr	0.34

2 Gable studs to be attached with 2.0x4.0 plates each end.

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002

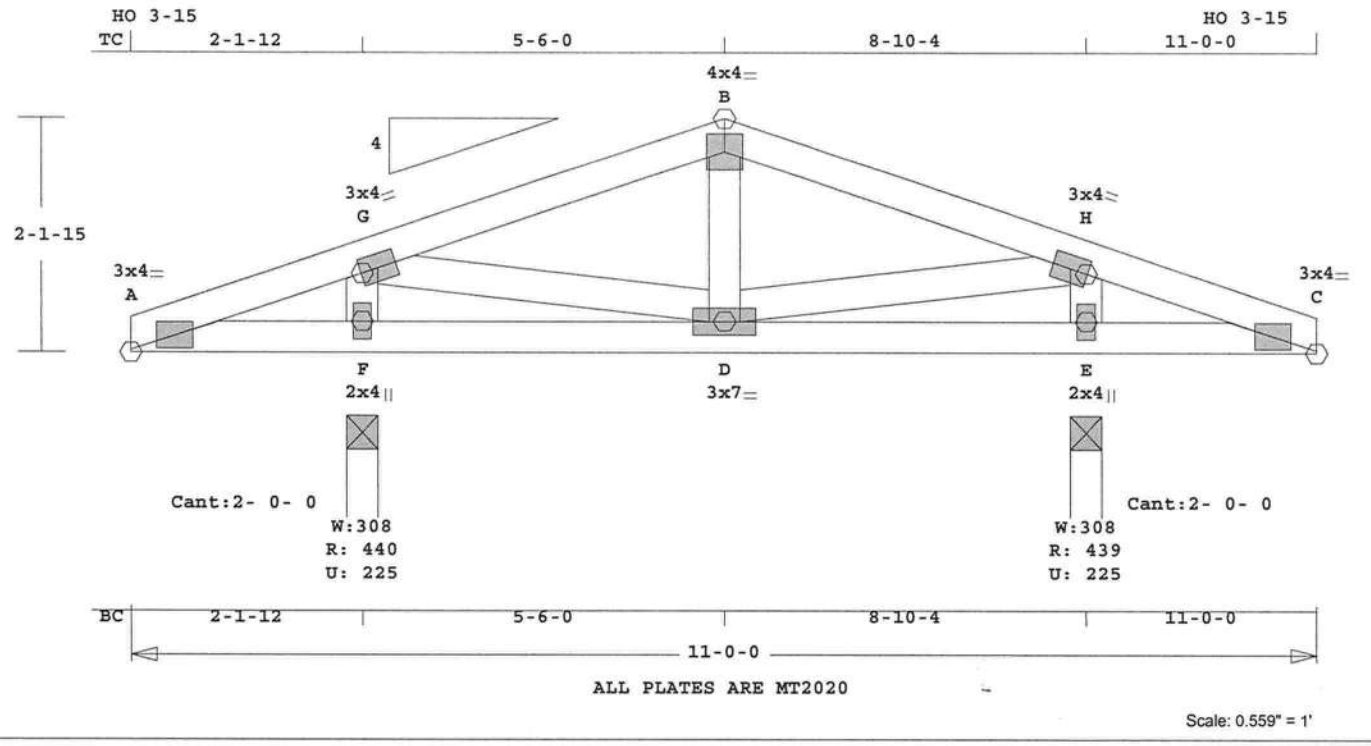
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 246 Lbs
Max tens. force 196 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

February 12,2010

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
TATOM	B1	2	TR	110000	4	0	0	T3634246

TATOM



Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 59.6 LBS

Online Plus -- Version 26.0.009
RUN DATE: 12-FEB-10

	CSI	Size	Lumber
TC	0.18	2x 4	SP-#2
BC	0.15	2x 4	SP-#2
WB	0.09	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	11- 0- 0
BC	Cont.	0- 0- 0	11- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
F	440	225 U	29 R
E	440	225 U	29 R

Jt	Brg Size	Required
F	3.5"	1.5"
E	3.5"	1.5"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd	
Top Chords				
A -G	0.14	297 C	0.00	0.14
G -B	0.18	370 T	0.04	0.14
B -H	0.18	370 T	0.04	0.14
H -C	0.14	297 C	0.00	0.14
Bottom Chords				
A -F	0.15	312 T	0.04	0.11
F -D	0.15	312 T	0.04	0.11
D -E	0.15	312 T	0.04	0.11
E -C	0.15	312 T	0.04	0.11
Webs				
F -G	0.08	604 T		
G -D	0.09	548 C		
D -B	0.01	171 C		
D -H	0.09	548 C		
E -H	0.08	604 T		

TL Defl 0.00" in D -E L/999
LL Defl 0.00" in D -E L/999
LL Cant 0.00" in A -F L/999
Shear // Grain in G -B 0.18

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.56
G	MT20	3.0x 4.0	Ctr	Ctr	0.45
B	MT20	4.0x 4.0	Ctr	Ctr	0.46
H	MT20	3.0x 4.0	Ctr	Ctr	0.45
C	MT20	3.0x 4.0	Ctr	Ctr	0.56
F	MT20	2.0x 4.0	Ctr	Ctr	0.55
D	MT20	3.0x 7.0	Ctr	Ctr	0.25
E	MT20	2.0x 4.0	Ctr	Ctr	0.55

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle 3- 6- 0 tall by 2- 0- 0 wide will fit between the B.C. and any other member.
Design checked for 10 psf non-concurrent LL on BC.

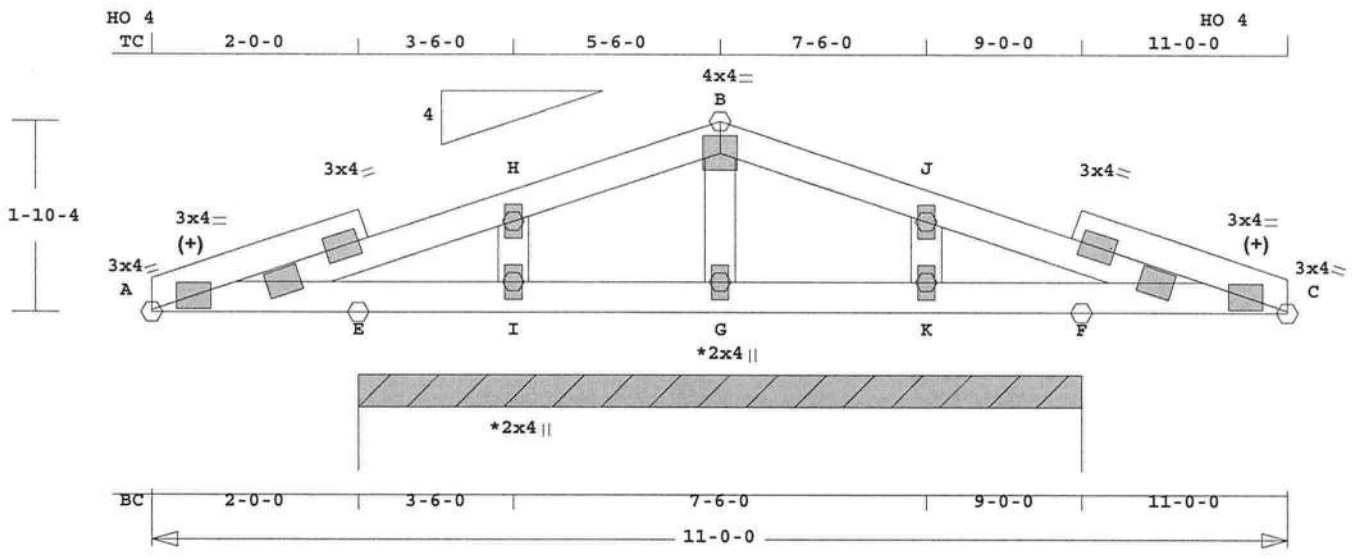
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
User-defined wind-exposed BC regions --From-- ---To---
2- 0- 0 9- 0- 0
Max comp. force 548 Lbs
Max tens. force 604 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

February 12,2010

Job	Mark	Quan	Type	Span	P1-H1	Left OH	Right OH	Engineering
TATOM	B2GE	1	TR	110000	4	0	0	T3634247

TATOM



ALL PLATES ARE MT2020

See Joint G For Typical Gable Plate Size and Placement

Scale: 0.536" = 1'

Robbins Engineering, Inc./Online Plus™ APPROX. TRUSS WEIGHT: 52.5 LBS

Online Plus -- Version 26.0.009
RUN DATE: 12-FEB-10

	CSI	-Size-	----Lumber----
TC	0.18	2x 4	SP-#2 (+)
BC	0.07	2x 4	SP-#2
GW	0.04	2x 4	SP-#2

Brace truss as follows:

	O.C.	From	To
TC	Cont.	0- 0- 0	11- 0- 0
BC	Cont.	0- 0- 0	11- 0- 0

psf-Ld	Dead	Live
TC	10.0	20.0
BC	10.0	0.0
TC+BC	20.0	20.0
Total	40.0	Spacing 24.0"

Lumber Duration Factor 1.25
Plate Duration Factor 1.25
TC Fb=1.15 Fc=1.10 Ft=1.10
BC Fb=1.10 Fc=1.10 Ft=1.10

Total Load Reactions (Lbs)

Jt	Down	Uplift	Horiz-
E	880	279 U	23 R

Jt	Brg Size	Required
E	84.0"	24"-to- 108"

Plus 9 Wind Load Case(s)
Plus 1 UBC LL Load Case(s)
Plus 1 DL Load Case(s)

Membr	CSI	P Lbs	Axl-CSI-Bnd
Top Chords			
A -B	0.18	159 C	0.00 0.18
B -C	0.18	159 C	0.00 0.18
Bottom Chords			
A -G	0.07	0 T	0.00 0.07
G -C	0.07	0 T	0.00 0.07
Gable Webs			
G -B	0.04	288 T	

TL Defl 0.00" in E -G L/999
LL Defl 0.00" in E -G L/999
Shear // Grain in E -B 0.18

Plates for each ply each face.
Plate - MT20 20 Ga, Gross Area
Plate - MT2H 20 Ga, Gross Area

Jt	Type	Plt Size	X	Y	JSI
A	MT20	3.0x 4.0	Ctr	Ctr	0.56
B	MT20	4.0x 4.0	Ctr	Ctr	0.46
C	MT20	3.0x 4.0	Ctr	Ctr	0.56
G	MT20	2.0x 4.0	Ctr	Ctr	0.00

2 Gable studs to be attached with 2.0x4.0 plates each end.

REVIEWED BY:
Robbins Engineering, Inc.
6904 Parke East Blvd.
Tampa, FL 33610

REFER TO ROBBINS ENG. GENERAL NOTES AND SYMBOLS SHEET FOR ADDITIONAL SPECIFICATIONS.

NOTES:
Trusses Manufactured by:
Mayo Truss Co. Inc.
Analysis Conforms To:
FBC2007
TPI 2002
WARNING Do Not Cut overframe member between outside of truss and first tie-plate to inside of heel plate.
Design checked for 10 psf non-concurrent LL on BC.
Refer to Gen Det 3 series for web bracing and plating.
Wind Loads - ANSI / ASCE 7-05
Truss is designed as Components and Claddings* for Exterior zone location.
Wind Speed: 120 mph
Mean Roof Height: 15-0

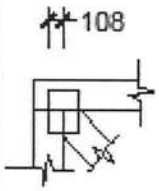
Exposure Category: B
Occupancy Factor : 1.00
Building Type: Enclosed
TC Dead Load: 5.0 psf
BC Dead Load: 5.0 psf
Max comp. force 202 Lbs
Max tens. force 288 Lbs
Connector Plate Fabrication Tolerance = 20%
This truss is designed for a creep factor of 1.5 which is used to calculate total load deflection.

FL Cert. 6634

February 12,2010

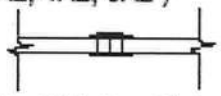
ROBBINS ENG. GENERAL NOTES & SYMBOLS

PLATE LOCATION



Center plates on joints unless otherwise noted in plate list or on drawing. Dimensions are given in inches (i.e. 1 1/2" or 1.5") or IN-16ths (i.e. 108)

FLOOR TRUSS SPLICE (3X2, 4X2, 6X2)



(W) = Wide Face Plate
(N) = Narrow Face Plate

LATERAL BRACING

Designates the location for continuous lateral bracing (CLB) for support of individual truss members only. CLBs must be properly anchored or restrained to prevent simultaneous buckling of adjacent truss members.

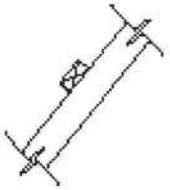
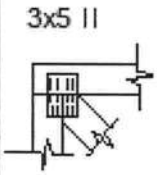


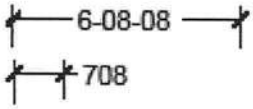
PLATE SIZE AND ORIENTATION



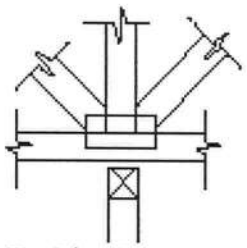
The first dimension is the width measured perpendicular to slots. The second dimension is the length measured parallel to slots. Plate orientation, shown next to plate size, indicates direction of slots in connector plates.

DIMENSIONS

All dimensions are shown in FT-IN-SX (i.e. 6' 8 1/2" or 6-08-08). Dimensions less than one foot are shown in IN-SX only (i.e. 708).



BEARING



W = Actual Bearing Width (IN-SX)
R = Reaction (lbs.)
U = Uplift (lbs.)

When truss is designed to bear on multiple supports, interior bearing locations should be marked on the truss. Interior support or temporary shoring must be in place before erecting this truss. If necessary, shim bearings to assure solid contact with truss.

ROBBINS connector plates shall be applied on both faces of truss at each joint. Center the plates, unless indicated otherwise. No loose knots or wane in plate contact area. Splice only where shown. Overall spans assume 4" bearing at each end, unless indicated otherwise. Cutting and fabrication shall be performed using equipment which produces snug-fitting joints and plates. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication and the attached truss designs are not applicable for use with fire retardant lumber and some preservative treatments. Nails specified on truss design drawings refer to common wire nails, except as noted.
The attached design drawings were prepared in accordance with " National Design Specifications for Wood Construction" (AF & PA)," National Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/TPI 1), and HUD Design Criteria for Trussed Rafters.

Robbins Eng. Co. bears no responsibility for the erection of trusses, field bracing or permanent truss bracing. Refer to BCSI 1-03 as published by Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, Virginia 22314. Persons erecting trusses are cautioned to seek professional advice concerning proper erection bracing to prevent toppling and " dominoing ". Care should be taken to prevent damage during fabrication, storage, shipping and erection. Top and bottom chords shall be adequately braced in the absence of sheathing or rigid ceiling, respectively. It is the responsibility of others to ascertain that design loads utilized on these drawings meet or exceed the actual dead loads imposed by the structure and the live loads imposed by the local building code or historical climatic records.

FURNISH A COPY OF THE ATTACHED TRUSS DESIGN DRAWINGS TO ERECTION CONTRACTOR. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO REVIEW THESE DRAWINGS AND VERIFY THAT DATA, INCLUDING DIMENSIONS & LOADS, CONFORM TO ARCHITECTURAL PLAN / SPECS AND THE TRUSS PLACEMENT DIAGRAM FURNISHED BY THE TRUSS FABRICATOR.

Robbins Engineering, Inc.

6904 Parke East Blvd.
Tampa, Fl 33610-4115
Tel: 813-972-1135 Fax: 813-971-6117

www.robbinseng.com

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST REQUIRMENTS

MINIMUM PLAN REQUIREMENTS FOR THE FLORIDA BUILDING CODE RESIDENTIAL 2007 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007 FLORIDA BUILDING CODES RESIDENTIAL. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind speed map) **SHALL BE USED.**

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL			Items to Include- Each Box shall be Circled as Applicable		
				Yes	No	N/A
1	Two (2) complete sets of plans containing the following:			✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void			✓		
3	Condition space (Sq. Ft.)		Total (Sq. Ft.) under roof	IIIIIII	IIIIIII	IIIII

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	✓		
5	Dimensions of all building set backs	✓		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	✓		
7	Provide a full legal description of property.	✓		

Wind-load Engineering Summary, calculations and any details required

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIIIII	IIIII	IIIIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	✓		
11	Wind importance factor and nature of occupancy	✓		
12	The applicable internal pressure coefficient, Components and Cladding			
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.			

Elevations Drawing including:

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys			✓
18	Location and size of skylights with Florida Product Approval	✓		✓
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak	✓		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade			✓
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)	✓		
24	Emergency escape and rescue opening shown in each bedroom (net clear opening shown)	✓		
25	Safety glazing of glass where needed	✓		
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)			✓
27	Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FBCR SECTION 311)			✓
28	Identify accessibility of bathroom (see FBCR SECTION 322)	✓		

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plan (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	✓		
30	All posts and/or column footing including size and reinforcing			
31	Any special support required by soil analysis such as piling.			
32	Assumed load-bearing valve of soil_____ Pound Per Square Foot	✓		
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type)	✓		

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	✓		
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	✓		

FBCR 320: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. **Protection shall be provided by registered termiticides**	✓		

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type			✓
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement			✓

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer			
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers			
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers			
42	Attachment of joist to girder			
43	Wind load requirements where applicable			
44	Show required under-floor crawl space			
45	Show required amount of ventilation opening for under-floor spaces			
46	Show required covering of ventilation opening			
47	Show the required access opening to access to under-floor spaces			
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &			

48	intermediate of the areas structural panel sheathing	✓		
49	Show Draftstopping, Fire caulking and Fire blocking	✓		
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309	✓		
51	Provide live and dead load rating of floor framing systems (psf).			✓

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	✓		
53	Fastener schedule for structural members per table FBCR 602.3 are to be shown	✓		
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	✓		
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	✓		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)	✓		
57	Indicate where pressure treated wood will be placed	✓		
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	✓		
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	✓		

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	✓		
64	Provide dead load rating of trusses	✓		

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing			
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			
67	Valley framing and support details			
68	Provide dead load rating of rafter system			

FBCR Table 602,3(2) & FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	✓		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	✓		

FBCR ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	✓		
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	✓		

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 Residential buildings compliance methods. *Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area*

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure	✓		
74	Attic space	✓		
75	Exterior wall cavity	✓		
76	Crawl space			✓

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study			
78	Exhaust fans locations in bathrooms	✓		
79	Show clothes dryer route and total run of exhaust duct	✓		

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan	✓		
81	Show the location of water heater	✓		

Private Potable Water

82	Pump motor horse power			
83	Reservoir pressure tank gallon capacity			
84	Rating of cycle stop valve if used			

Electrical layout shown including

85	Switches, outlets/receptacles, lighting and all required GFCI outlets identified	✓		
86	Ceiling fans	✓		
87	Smoke detectors & Carbon dioxide detectors	✓		
88	Service panel, sub-panel, location(s) and total ampere ratings	✓		
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.			

90	Appliances and HVAC equipment and disconnects			
91	Arc Fault Circuits (AFCI) in bedrooms			

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	**Building Permit Application** A current Building Permit Application form is to be completed and submitted for all residential projects			
93	**Parcel Number** The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested	✓		
94	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	✓		
95	**City of Lake City** A permit showing an approved waste water sewer tap			✓
96	**Toilet facilities shall be provided for all construction sites**			
97	**Town of Fort White** (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			✓
98	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established			✓
100	A development permit will also be required. Development permit cost is **$50.00**			✓
101	**Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$50.00**). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.			✓
102	**911 Address:** If the project is located in an area where a 911 address has not been issued, then application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125	✓		

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code, Building shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the applicati or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance o a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became nu and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the submitted application is approved for permitting the applican will be notified by phone as to the date and time a building permit will b prepared and issued by the Columbia County Building & Zoning Department

PRODUCT APPROVAL SPECIFICATION SHEET

Location: Columbia County 306 SW ARCHIE GLN, Lake City, FL 32024 **Project Name:** Tatom Res

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	THERMA-TRU	FIBERGLAS ENTRY DOORS	FL 18
2. Sliding	PELLA	THERMASTAR SLIDING DOOR (CLEAR)	FL 663
3. Sectional			
4. Roll up	PELLA-BUILT	9'X7' GARAGE DOOR	FL 697
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung	PELLA	VINYL	FL 663
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL		AS SPECIFIED ON PLANS	FL 889.5
1. Siding	HARDIEBOARD	4X8 SHEET	FL 889.5
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS		AS SPECIFIED ON PLANS	
1. Asphalt Shingles	OWENS CORNING	↓	FL 673
2. Underlayments	"		FL 673
3. Roofing Fasteners	"		FL 673
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS		AS SPECIFIED ON PLANS	
1. Wood connector/anchor	SIMPSON		
2. Truss plates	SIMPSON		
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspectic

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

(FOR STAFF USE ONLY)

Energy Code + Manual J, etc

TATOM RESIDENCE
HVAC LOAD ANALYSIS

for

TATOM

Prepared By:

DAVID HALL
DAVID HALL'S INC.
PO BOX 244
LAKE CITY FL 32056
386-755-9792
2/22/10

Miscellaneous Project Data

Project File Name: TATOM

System Input Data

---System 1---	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum.	Indoor Dry Bulb	Grains Difference
Winter:	27	N/A	N/A	72	N/A
Summer:	96	78	50%	75	51

External Overhangs

No.	Projection	Offset	No.	Projection	Offset
1	3	1	6	0	0
2	5	0	7	0	0
3	4	0.5	8	0	0
4	0	0	9	0	0
5	0	0	10	0	0

Duct Sizing Inputs

	Runouts		Main Trunk	
Duct Material:	Flexible Duct		Fiberglass Duct Board	
Roughness Factor:	0.010000		0.003000	
Pressure Drop:	0.1000	In.wg/100 Ft.	0.1000	In.wg/100 Ft.
Minimum Velocity:	450.0	Ft./Minute	650.0	Ft./Minute
Maximum Velocity:	750.0	Ft./Minute	900.0	Ft./Minute
Minimum Height:	0	Inches	0	Inches
Maximum Height:	0	Inches	0	Inches

Outside Air Data

	Winter		Summer	
Infiltration:	0.900	AC/Hr	0.400	AC/Hr
Volume of Conditioned Space:	X 4248	Cu.Ft.	X 4248	Cu.Ft.
	3,823	Cu.Ft./Hr	1,699	Cu.Ft./Hr
	X 0.0167		X 0.0167	
Total Building Infiltration:	63.72	CFM	28.32	CFM
Total Building Ventilation:	0	CFM	0	CFM

---System 1---

Infiltration & Ventilation Sensible Gain Multiplier:	23.10	= (1.10 X 21.00 Summer Temp. Difference)
Infiltration & Ventilation Latent Gain Multiplier:	34.86	= (0.68 X 51.27 Grains Difference)
Infiltration & Ventilation Sensible Loss Multiplier:	49.50	= (1.10 X 45.00 Winter Temp. Difference)

Total Building Summary Loads

Component Description	Area Quan	Sen. Loss	Lat. Gain	Sen. Gain	Total Gain
3C Window Double Pane Clear Glass Metal Frame	56	1,828	0	3,238	3,238
8O Glass Door Double Clear Glass Metal Frame	42	1,370	0	983	983
11C Door Metal Polystyrene Core	21	444	0	243	243
12G Wall R-13 + 3/4" ExtPoly Board(R-3.8)	452	1,321	0	723	723
16G Ceiling R-30 Insulation	532	790	0	790	790
22A Slab on Grade No Edge Insulation	72	2,624	0	0	0
Subtotals for structure:	1,175	8,377	0	5,977	5,977
Active People:	3	0	690	900	1,590
Inactive People:	0	0	0	0	0
Appliances:	0	0	1,200	1,200	2,400
Lighting:	0	0		3,410	
Ductwork:	0	577	0	1,215	1,215
Infiltration: Winter CFM: 63.7, Summer CFM: 28.3	119	3,154	988	654	1,642
Ventilation: Winter CFM: 0.0, Summer CFM: 0.0	0	0	0	0	0
Sensible Gain Total:				13,356	
Temperature Swing Multiplier:				X1.00	
Building Load Totals:		12,108	2,878	13,356	16,234

Check Figures

Total Building Supply CFM:	607	CFM per square foot:	1.141
Square feet of room area:	532	Square feet per ton:	368.05

Building Loads

Total heating required with outside air:	12,108 Btuh	12.108	MBH
Total sensible gain:	13,356 Btuh	82	%
Total latent gain:	2,878 Btuh	18	%
Total cooling required with outside air:	16,234 Btuh	1.353	Tons (based on sensible + latent)
		1.445	Tons (based on 77% sensible capacity)

Notes

Calculations are based on 7th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

System #1 Summary Loads

Component Description	Area Quan	Sen. Loss	Lat. Gain	Sen. Gain	Total Gain
3C Window Double Pane Clear Glass Metal Frame	56	1,828	0	3,238	3,238
8O Glass Door Double Clear Glass Metal Frame	42	1,370	0	983	983
11C Door Metal Polystyrene Core	21	444	0	243	243
12G Wall R-13 + 3/4" ExtPoly Board(R-3.8)	452	1,321	0	723	723
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22A Slab on Grade No Edge Insulation	72	2,624	0	0	0
Subtotals for structure:	1,175	8,377	0	5,977	5,977
Active People:	3	0	690	900	1,590
Inactive People:	0	0	0	0	0
Appliances:	0	0	1,200	1,200	2,400
Lighting:	0	0		3,410	
Ductwork:	0	577	0	1,215	1,215
Infiltration: Winter CFM: 63.7, Summer CFM: 28.3	119	3,154	988	654	1,642
Ventilation: Winter CFM: 0.0, Summer CFM: 0.0	0	0	0	0	0
Sensible Gain Total:				13,356	
Temperature Swing Multiplier:				X1.00	
System Load Totals:		12,108	2,878	13,356	16,234

Check Figures

Supply CFM:	607	CFM per square foot:	1.141
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System Loads

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		1.445	Tons (based on 77% sensible capacity)

Notes

Calculations are based on 7th edition of ACCA Manual J.
All computed results are estimates as building use and weather may vary.
Be sure to select a unit that meets both sensible and latent loads.

Room Load Summary Reports

System #1 Room Load Summary

No	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Zone Adj Fact	Clg Adj CFM	Air Sys CFM
	---Zone 1---											
1	Kitchen	102	1,442	19	1-8	492	3,257	1,530	148	1.16	172	148
2	Living Room	111	4,138	54	1-8	497	3,818	637	174	1.00	174	174
3	Bath	54	461	6	1-4	481	923	0	42	1.00	42	42
4	Hall	16	63	1	1-3	372	402	0	18	1.00	18	18
5	Master Bedroom	222	5,705	74	2-6	518	4,477	711	203	1.00	203	203
6	Master Closet	27	299	4	1-3	444	479	0	22	1.00	22	22
System 1 Totals		532	12,108	157			13,356	2,878	607		631	607

Main Trunk Size: 12x10 in.

System #1 Cooling System Summary

	Cooling Tons	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	1.353	82%/18%	13,356	2,878	16,234
Recommended:	1.445	77%/23%	13,356	3,989	17,345

wse
WAYLAND
STRUCTURAL ENGINEERING
8200 SW 16th Place Gainesville, FL 32607
Phone (352) 331-0727 Fax (352) 331-0727
Email: waylandgs@aol.com

December, 8 2009

Billy J. Tatom
306 SW Archie Glen
Lake City, FL 32024

Re: **TATOM RESIDENCE**
WSE Project No: 09082

Dear Mr. Tatom:

This letter is to confirm that the Basic Wind Speed on page 1 of WSE's Structural Engineering dated 12/2/2009 for the above referenced project shall be 110 mph, not 100 mph. Also, for Detail A – Typical Roof Sheathing Detail on page 5, the nail spacing for 110 mph shall be used. WSE checked the calculations for 110 mph and it does not affect any other part of the construction details.

Please contact me if you have any questions regarding this matter.

Sincerely,

WAYLAND STRUCTURAL ENGINEERING

Gregory S. Wayland
FL PE #54396
FL COA #8236

12/8/09

STRUCTURAL ENGINEERING

FOR

TATOM RESIDENCE
Lake City, Florida

w s e

WAYLAND

STRUCTURAL ENGINEERING

8200 SW 16th Place Gainesville, FL 32607

Phone/Fax 352-331-0727

FL COA #8236

Project Number
09082

December 2, 2009

For
Billy J. Tatom
306 SW Archie Glen
Lake City, FL

TABLE OF CONTENTS

GREGORY S. WAYLAND, PE
FL PE #54396

12/2/09

WAYLAND STRUCTURAL ENGINEERING			Date:	12/2/2009
Gregory S. Wayland, PE	FL PE #54396	FL COA #8236	By:	GSW
8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727		Page:	1
Project Name: **TATOM RESIDENCE**		For:	Billy J. tatom	
WSE Project Number: 09082			306 SW Archie Glen	
Project Location: Lake City, FL			Lake City, FL	

STRUCTURAL SPECIFICATION

A. **GENERAL**

1. This STRUCTURAL SPECIFICATION shall be considered part of the contract documents for this project and shall be attached to the drawings prepared by: **WARREN E BARRY, ARCHITECT** Date:
2. Roof truss layout, uplift loads and gravity loads relied upon for design of supporting walls, lintels, headers, footings, etc. prepared by: **NA** Date: -
3. Information and materials specified in this STRUCTURAL SPECIFICATION shall take precedence over that shown on the drawings.
4. Signing and sealing this document and/or the construction drawings by Wayland Structural Engineering certifies only the structural systems for this building, and is not a certification of the site plan, architectural, electrical, mechanical, plumbing or other systems that may be shown on the same drawing. WSE is not responsible for changes made to this document by others without written consent.
5. It is assumed that this building site is not located within a 100 year floodplain and is not designed for hydrostatic or moving water loads.

B. **GOVERNING CODE** **FLORIDA BUILDING CODE, 2007 + 2009 SUPPLEMENT**

C. **DESIGN LOADS**

1. Dead Loads		(Section 1606)
Roof Top Chord	10	psf
Roof Bottom Chord	10	psf
Floor	10	psf
2. Live Loads		(Section 1607)
Floor Live Load	40	psf
Balconies	60	psf
Attics w/o storage	10	psf
Attics w storage	20	psf
3. Roof Live Loads		(Section 1607.11.2)
12:12 pitch	12	psf
10:12 pitch	14	psf
8:12 pitch	16	psf
6:12 pitch	18	psf
Flat to 4:12 pitch	20	psf

4. Wind Loads (Section 1609)

Enclosure Classification	Enclosed	
Basic Wind Speed (3 sec. gust)	100	mph
Wind Importance Factor, Iw	1.0	
Exposure Category	B	
Internal Pressure Coefficients:	+0.18, -0.18	

Design Wind Pressures for Doors and Windows:

Opening Area (sf)	Inward Pressure (psf)	Outward Pressure (psf)
0-10	18.0	-24.1
11-20	17.2	-22.5
21-50	16.1	-20.3
51-100	15.3	-18.7

D. **EARTHWORK**

1. **General:**
   a. **OWNER/CONTRACTOR CAUTION**: A geotechnical or soil investigation has not been performed for this site. It is recommended that the Owner or Contractor employ the services of a geotechnical engineer to perform soil borings and provide recommendations for preparation of the soils specific to this building site, and confirm the soil type assumed in this specification. WSE has no knowledge of the on-site soils and therefore accepts no responsibility for their bearing capacity or performance.
   b. Bearing soil is therefore presumed to be sandy soil with no organics, peat, clay, expansive clays, or boulders.
   c. It is assumed that seasonal high groundwater table is well below footing bearing elevation.
   d. **The allowable soil bearing pressure is assumed to be 1,000 pounds per square foot.**
   e. If the Contractor or Building Inspector encounters organics, clays, silts, boulders or high grounwater levels during foundation excavation, engineer of record and/or geotechnical engineer shall be contacted and/or employed to assess conditions first hand and give direction for additional corrective work or modifications to the design that may need to be performed.
2. **Site Preparation:**
   a. Strip all trees, grasses, topsoil and other organics from building footprint. Use root rake or similar equipment to remove roots.
   b. Proofcompact existing grade with loaded dump truck or compactor to densify existing soils and identify soft or loose soils.
   c. If soft soils are encountered during proofcompaction, overcut unsuitable material and replace with well graded sand. (See 1e. above)
3. **Excavation:**
   a. Excavations are to be performed in accordance with current OSHA standards. Contractor is responsible for excavation safety.
   b. Compact all excavation bottoms to firm unyielding condition. See B.6.c. for compaction requirement.
4. **Footing Bearing:**
   a. All foundations are to bear on undisturbed sandy soil soil or compacted fill as described herein.
   b. Bottom of footings are to extend at least 12 inches below grade.
5. **Ground/Surface Water Control:**
   a. Excavation and backfill operations are to be maintained in a dry condition.
   b. Slope or crown building subgrades to promote run-off and prevent ponding.
   c. Surface and infiltrating water are to be removed by grading and pumping from sumps if required.
6. **Backfill and Compaction:**
   a. Use only clean, well graded sand with no more than 10% passing #200 sieve for fill and backfill within building footprint.
   b. Mechanically compact all backfill within building footprint in maximum 12" loose lifts to firm unyielding consistency.
   c. Suggest compact to 95% of maximum dry density per Modified Proctor Test, ASTM D-1557.
7. **Pest Control:**
   a. Treat all slab subgrades for termites in accordance with the Florida Building Code and local ordinances.
8. **Exterior Grading:**
   a. Exterior grade is to be kept at least 6 inches below wood siding and/or foam insulation.
   b. Slope exterior grade away from building to promote drainage.

STRUCTURAL SPECIFICATION (Continued)

E. **CONCRETE**

1. **General:** Comply with Florida Building Code, Chapter 19, and ACI 301-99 Specifications for Structural Concrete.

2. **Concrete:**
   - a. Cement: ASTM C150, Type I Portland cement
   - b. Aggregate: ASTM C33, maximum aggregate size = 1 inch
   - c. Water/cement ratio: 0.50 maximum
   - d. Slump: 4 inches +/- 1 inch.
   - e. Air entraining: ASTM C 260, concrete is to be air entrained for mild exposure, 3 - 6%.

COMPRESSIVE STRENGTH, (psi) min. at 28 days	
Member	Strength
Footings, slabs-on-grade	2,500

3. **Reinforcing:** ASTM A615, Grade 40.

LAPS, BENDS, HOOKS			
Bar Size	Lap Length	Bend Diameter	Hook Length
#3	15"	2 1/4"	6"
#4	20"	3"	8"
#5	25"	3 3/4"	10"
#6	30"	4 1/2"	12"

BAR COVER	
Condition	Minimum Cover
Cast against and exposed to earth	3"
Exposed to earth or weather	1 1/2"
Not exposed to weather or earth	
Slabs, walls, joists	3/4"
Beams, columns (stirrups, ties)	1 1/2"

4. **Footings:**

BEARING WALL FOOTINGS			
Type	Width	Depth	Reinforcing
Exterior	16"	18"	(2) #5
Porch	16"	18"	(2) #5

Corner bars: Provide 90 degree bend at all footing corners.

5. **Slabs-On-Grade:**
   - a. Thickness: 4 in.
   - b. Vapor retarder: 6 mil polyethylene, lap edges 6 inches.
   - c. Reinforcing: Welded Wire Reinforcing (WWR): ASTM A185, 6x6-W1.4xW1.4 (6x6-10/10) sheets, lap edges minimum 10 inches, support on chairs @ 3'-0" o.c. each way. WWR need not be installed on chairs if used in conjunction with fiber reinforcement. (Optional) Fibrous Reinforcing: ASTM C 1116, Fibermesh "Stealth" or "Inforce e3" polypropylene fibers by SI Concrete Systems or equivalent. Add to concrete mix at rate of 1.5 lb/cy.
   - d. Protection: Cure all slabs for 7 days using sprayed-on curing compound or continuous water sprinkling.
   - e. Slab joints: As concrete slabs cure and dry out, they will shrink causing cracks to form in surface of slab. Slab reinforcement is placed in slab to help limit width of cracks that do form. All slabs left exposed should be saw-cut in roughly 10'-0" squares.

WAYLAND STRUCTURAL ENGINEERING
Gregory S. Wayland, PE
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FL PE #54396
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FL COA #8236

Date:	12/2/2009
By:	GSW
Page:	3

Project Name:	**TATOM RESIDENCE**	For:	Billy J. tatom
WSE Project Number:	09082		306 SW Archie Glen
Project Location:	Lake City, FL		Lake City, FL

STRUCTURAL SPECIFICATION (Continued)

F. **WOOD FRAMING**

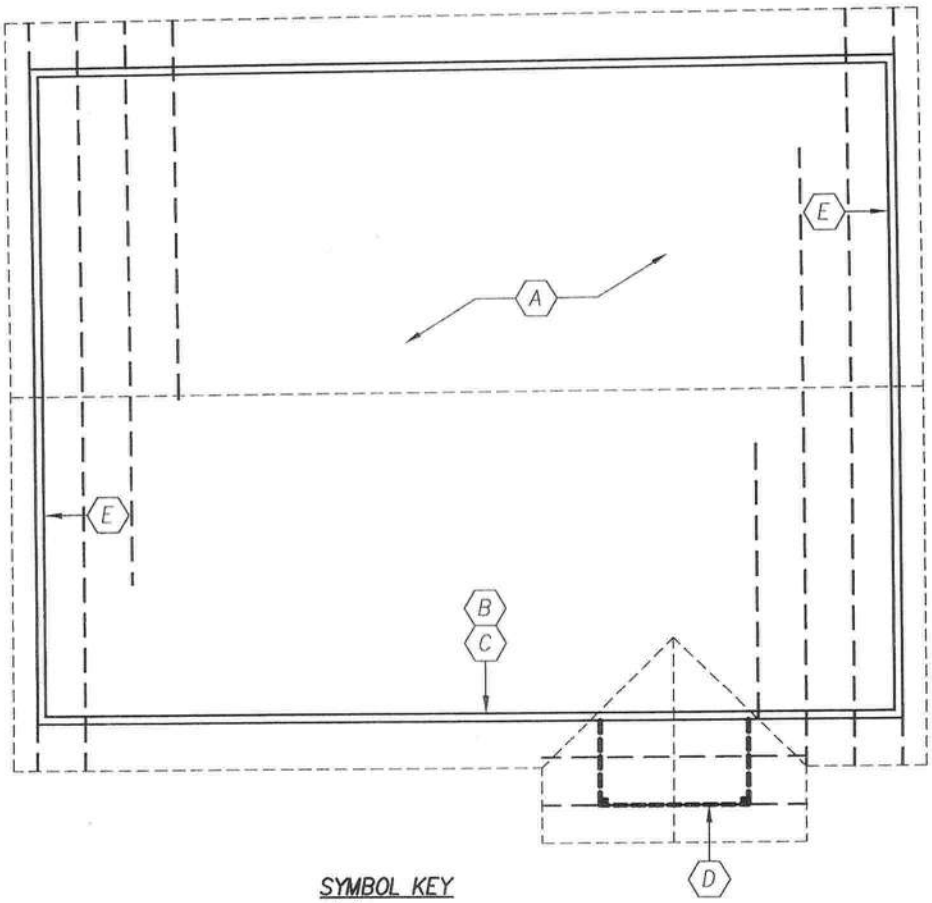
1. **General:** Comply with the Florida Building Code, Chapter 23.
2. **Studs:**

Wall height	Member	Spacing	Grade	Species
Up to 10 ft.	2x4	16" o.c.	No. 2	Spruce-Pine-Fir (SPF)

3. **Headers, Joists, Beams:** No. 2, Southern Pine (SP).
4. **Posts:** No. 2, Southern Pine (SP).
5. **Trusses:**
   a. Wayland Structural Engineering is not responsible for design and detailing or installation of engineered wood roof trusses.
   b. Truss engineering drawings to be signed and sealed by Professional Engineer registered in State of Florida.
   c. Truss manufacturer to Engineer trusses to support dead, live and wind loads per Florida Building Code or ASCE 7-05.
   d. Engineer trusses to comply with ANSI/TPI 1 "National Design Standard for Metal Plate Connected Wood Truss Construction.
   e. Comply with TPI HIB "Commentary and Recommendations for Handling, Installing and Bracing of Metal Plate Connected Wood Trusses."
   f. Comply with TPI DSB "Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses."
   g. Truss spacing = 2'-0" o.c. maximium.
6. **Fascia Board:** No. 2, Spruce-Pine-Fir (SPF).
7. **Sheathing:**
   a. Roof Sheathing: 7/16" thick, Oriented Strand Board (OSB), Sheathing Grade, Exposure 1.
      Fasten with 8d ring-shank nails.
      (0.113 in. nominal shank dia., ring dia. 0.012 in. over shank dia., 16-20 rings/inch, 0.280 in. head dia., 2 1/2 in. length)
      Fasten @ 6" o.c at panel edges, 12" o.c. at panel interior, and 6" o.c. (edge & interior) within 5 ft. of gable ends.
      Lay panels perpendicular to supports, stagger joints one-half panel length. Provide "H" panel clips between panel supports.
      Nail panel edges to fascia board.
   b. Wall Sheathing: 5/8" thick, T1-11 Exterior Grade Plywood Siding.
      Fasten with 8d common nails (hot dip galvanized) @ 6" o.c at panel edges, 12" o.c. along intermediate supports.
      Install panels vertically. Nail top edge to top plate. Provide solid blocking at all panel edges.
8. **Fasteners:**
   a. Nails: Comply with Florida Building Code, 2006 Supplement, Table 2304.9.1, "Fastening Schedule."
   b. Anchor bolts: ASTM F1554 or ASTM A307, Grade 36, 1/2" diameter x 8" J-bolts, 2"x2" washer.
      or: (Alternative) ASTM A307, 1/2" diameter threaded rod set in epoxy adhesive, min. 5 inches embedment.
      Note: Bolts installed in curbs shall be longer such that embedment in base concrete below curb is same as elsewhere.
      Note: Expansion anchors are not allowed due to likelihood of spalling and edge blow-out.
      1.) Exterior Sheathed Walls: Install anchor bolts @ 48" o.c., and within 8" of ends, corners, openings.
   c. Epoxy: Simpson "SET" or Hilti "HIT HY150" Epoxy Adhesive. Follow manufacturer's installation instructions exactly.
   d. Bolts: ASTM A307, hot-dip galvanized, see plan for size and quantity.
   e. Uplift Anchors & Ties: Simpson Strong-Tie.
   f. Corrosion Protection: All fasteners exposed to weather or in contact with preservative treated wood shall be hot-dip galvanized to G185. For Simpson connectors, provide "Z-Max" coating.

G. **WINDOWS, DOORS, SKYLIGHTS**

1. **Design:** Wayland Structural Engineering is not responsible for the design, construction, or attachment of windows, doors or skylights. The building envelope is designed assuming a fully enclosed condition, therefore windows, doors and skylights must be designed to support the same wind pressures that walls and roofs are designed for.
2. **Certification:** Window, door and skylight manufacturer shall submit certification indicating that window or door units can adequately support design wind pressures for the specified wind zone as shown in section C.4. above.
3. **Fastenings:** Window, door and skylight manufacturer is to provide fastening information for attachment to supporting construction.



SYMBOL KEY

- (B) DETAIL
- (A) ANCHOR
- ═══ EXTERIOR BEARING/ SHEAR WALL
- — — ENGINEERED TRUSS
- ▬ ▬ ▬ BEAM

ANCHORS (SIMPSON STRONG-TIE)

FASTEN ALL TRUSSES TO SUPPORTS WITH (3) 10d COMMON TOE-NAILS IN ADDITION TO ANCHORS LISTED BELOW

(A) "H2.5A" ALL TRUSSES UNLESS OTHERWISE NOTED

WAYLAND STRUCTURAL ENGINEERING

W S E

GREGORY S. WAYLAND, PE
8200 SW 16TH PLACE GAINESVILLE, FL 32607
PHONE/FAX: (352) 331-0727
FLORIDA PE #54396 COA #8236

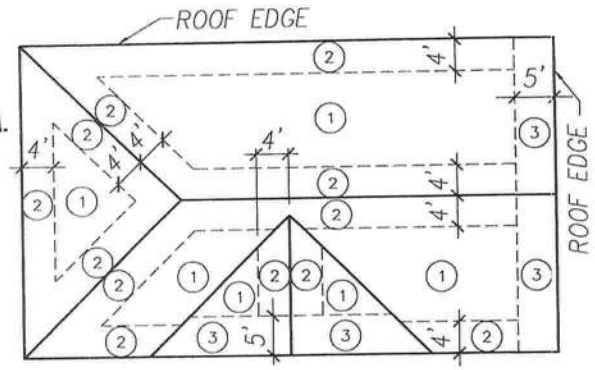
PROJECT NAME: TATOM RESIDENCE			
LOCATION: LAKE CITY, FLORIDA			
DWG. NAME: STRUCTURAL PLAN			
SCALE: 1/8" = 1'-0"	BY: GSW	DWG NO.	S1
PROJECT NO: 09082	DATE: 12/1/2009		

ROOF NAILING SCHEDULE

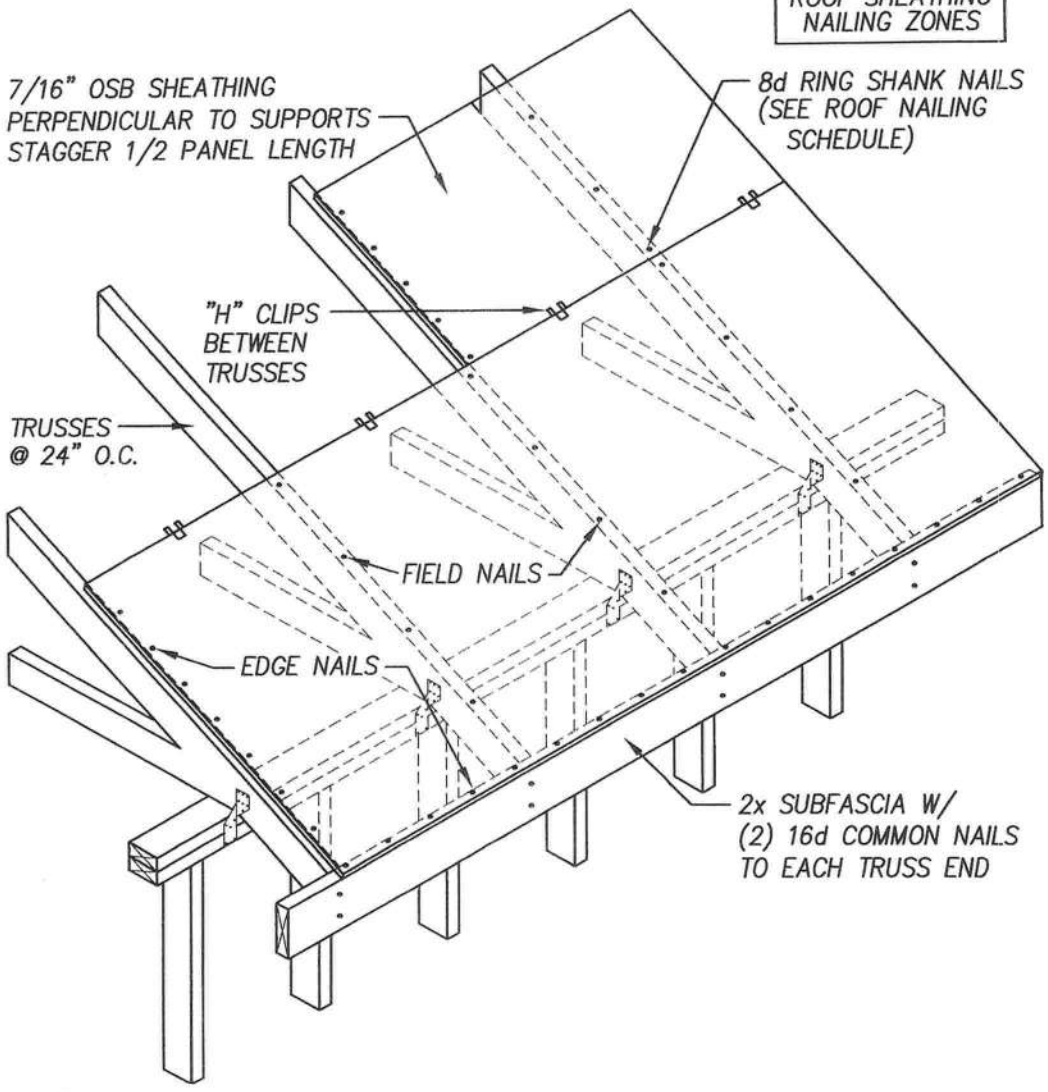
ROOF SHEATHING NAILING ZONE	NAIL SPACING							
	100 MPH		110 MPH		120 MPH		130 MPH	
	EDGE	FIELD	EDGE	FIELD	EDGE	FIELD	EDGE	FIELD
(1)	6"	12"	6"	12"	6"	12"	6"	12"
(2)	6"	12"	6"	12"	6"	12"	6"	6"
(3)	6"	6"	6"	6"	6"	6"	4"	4"

8d RING SHANK NAILS:

1. 0.113" NOMINAL SHANK DIAMETER
2. RING DIA. 0.012" OVER SHANK DIA.
3. 16 TO 20 RINGS PER INCH
4. 0.280" HEAD DIAMETER
5. 2 1/2" NAIL LENGTH



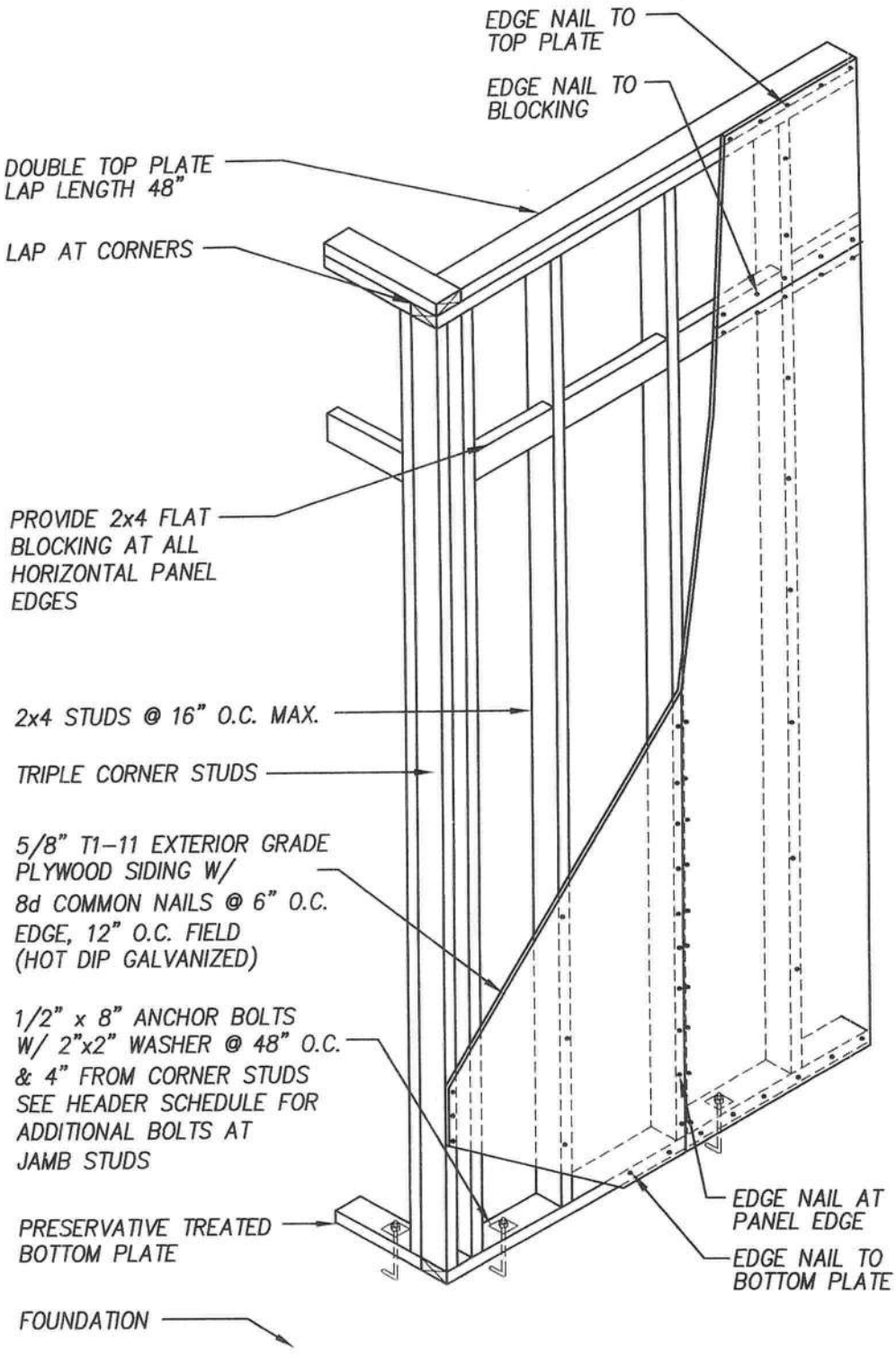
ROOF SHEATHING NAILING ZONES



A

Typical Roof Sheathing Detail

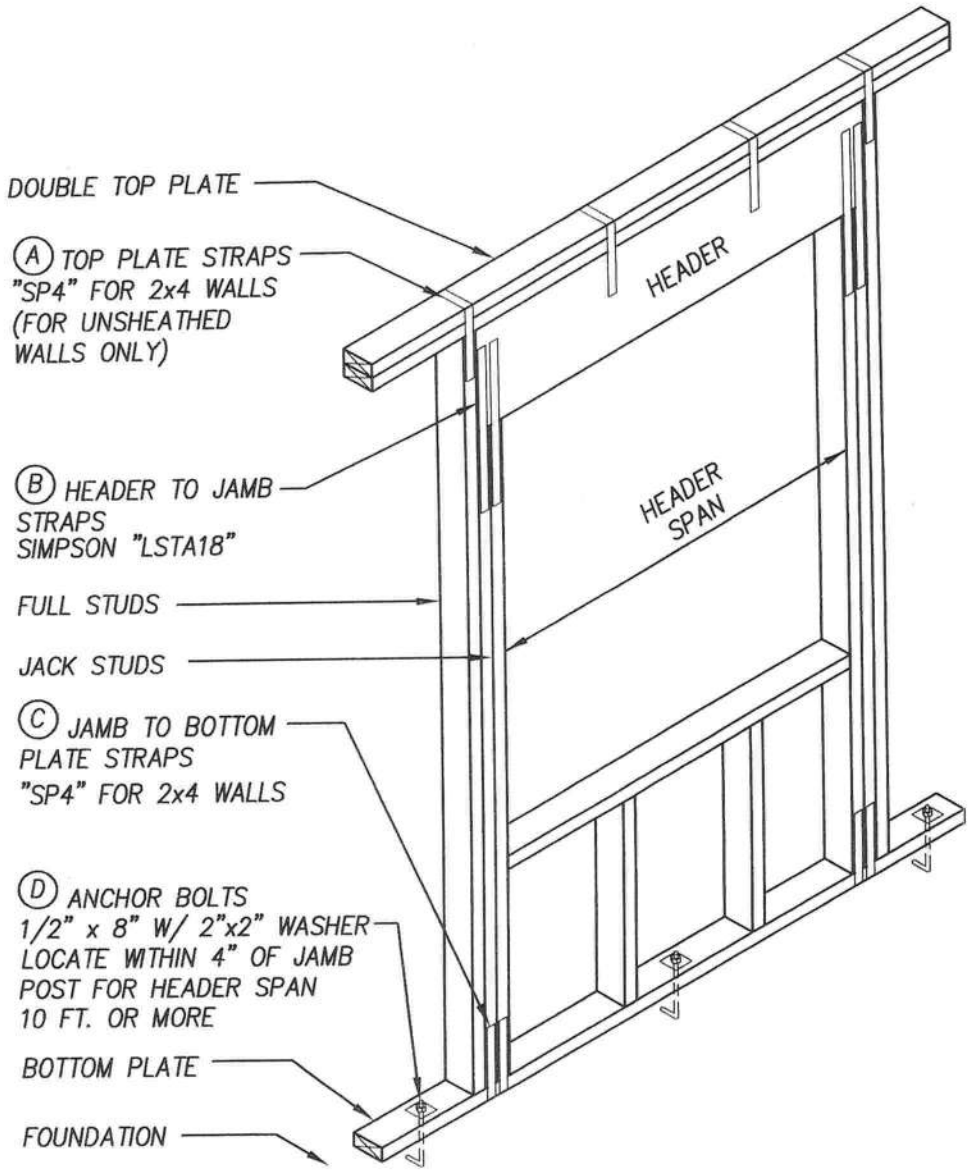
1/2" = 1'-0"



B **Typical Exterior Bearing Wall**

1/2" = 1'-0"

WOOD--W400



HEADER SPAN (FT)	HEADER	QTY JACK STUDS	QTY FULL STUDS	STRAP (A) SPACING	STRAP (B) QTY	STRAP (C) QTY	BOLT (D) QTY
4'–0"	(2) 2x8	1	1	32" O.C.	1	1	*
6'–0"	(2) 2x10	2	1	↓	1	1	*
8'–0"	(2) 2x12	2	2	↓	2	2	*
9'–0"	(2) 2x12	2	2	↓	2	2	1

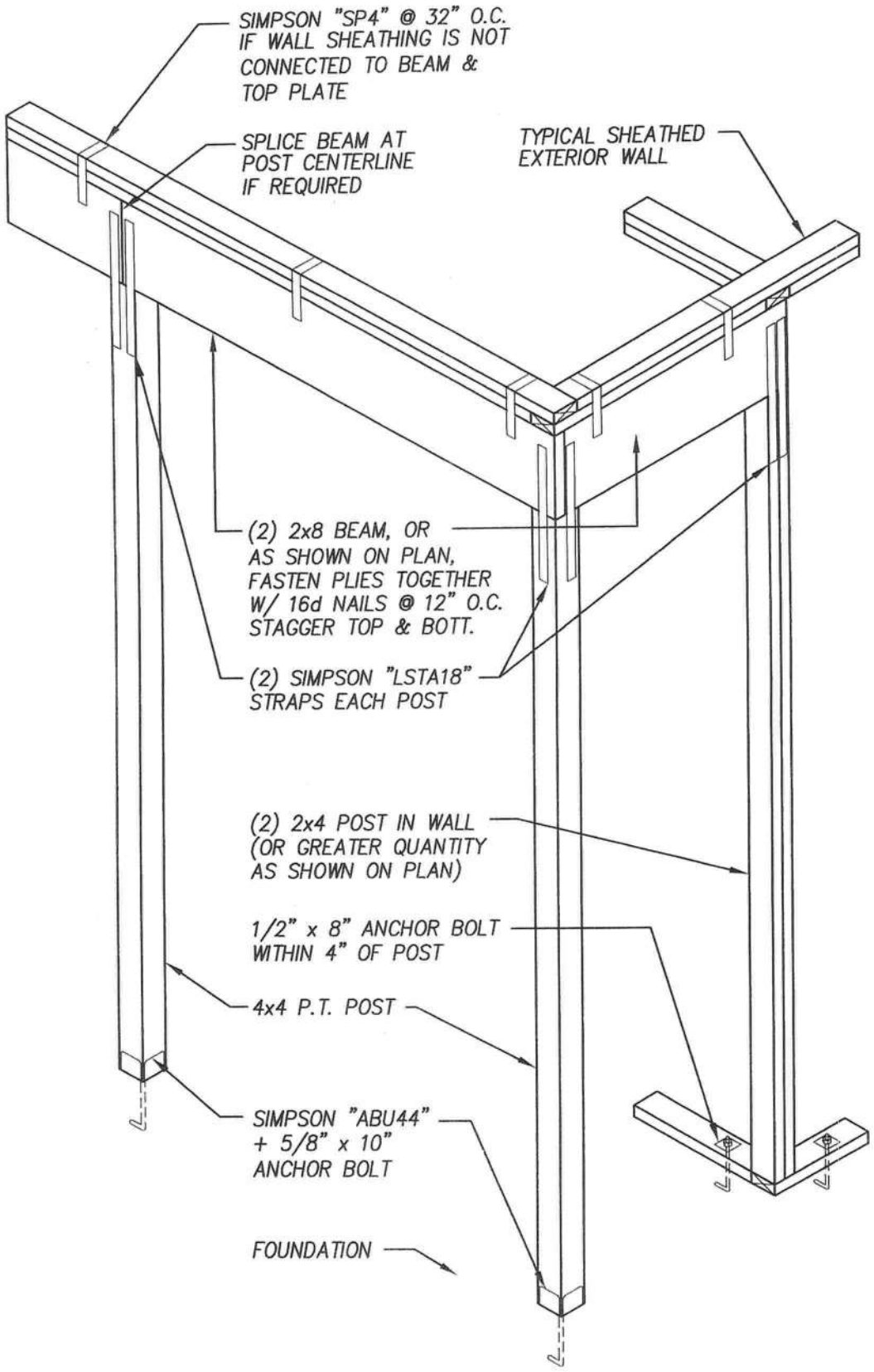
* PROVIDE BOLTS AT SPACING SPECIFIED FOR TYPICAL WALL CONSTRUCTION.

1. DIMENSIONAL LUMBER HEADERS – NO. 2 SOUTHERN PINE (SP).
2. ALL CONNECTORS ARE BY SIMPSON STRONG–TIE OR EQUIVALENT.
3. PROVIDE 1/2" OSB SPACER BETWEEN PLYS FOR DIMENSIONAL LUMBER.
4. FASTEN HEADER PLYS TOGETHER WITH 16d NAILS @ 12" O.C. STAGGERED.
5. FASTEN JAMB STUDS TOGETHER WITH 10d NAILS @ 12" O.C.

C

Typical Header Schedule

1/2" = 1'–0"

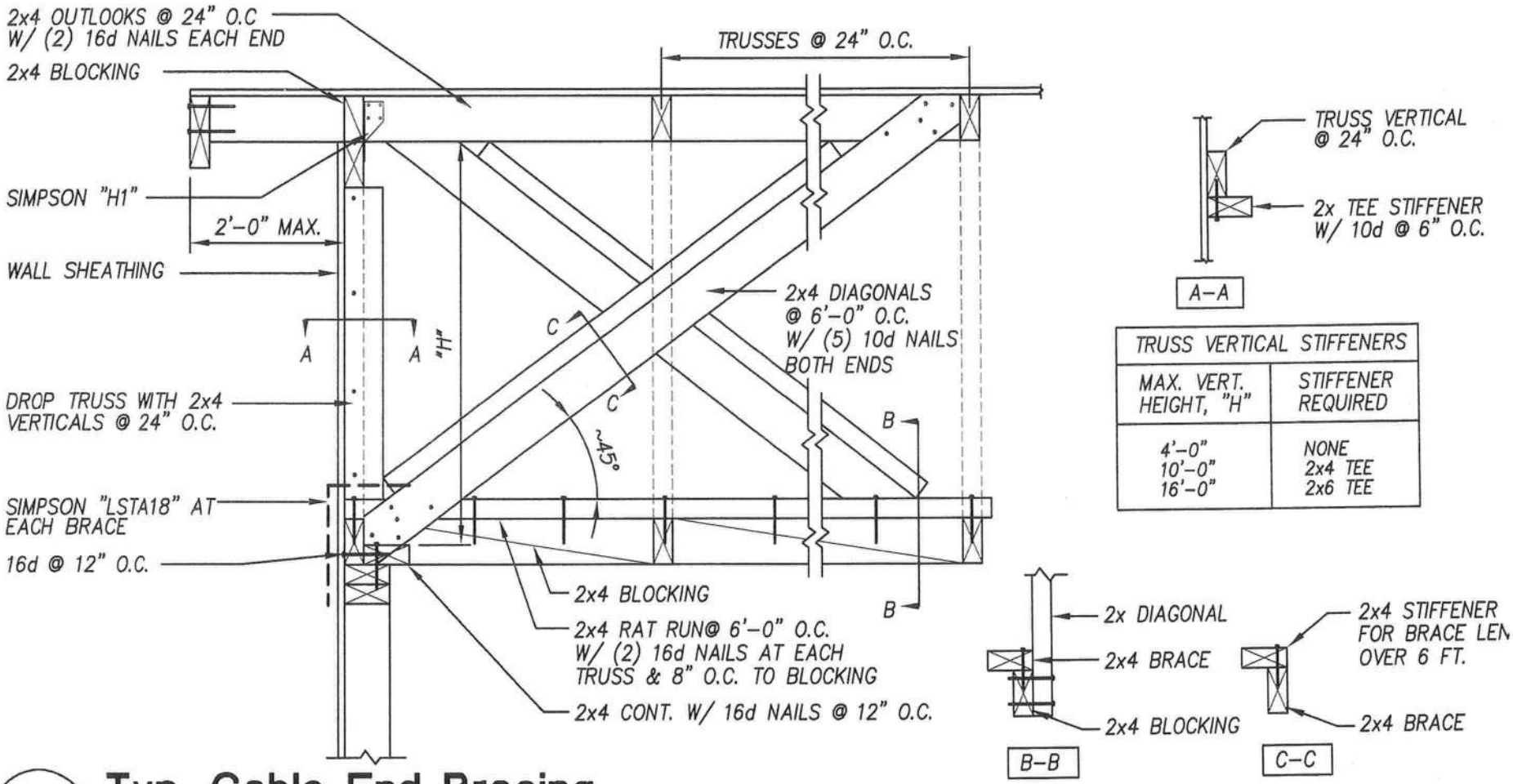


D

Typical Post & Beam

1/2" = 1'-0"

WOOD-W500



A–A

TRUSS VERTICAL STIFFENERS	
MAX. VERT. HEIGHT, "H"	STIFFENER REQUIRED
4'-0" 10'-0" 16'-0"	NONE 2x4 TEE 2x6 TEE

B–B

C–C

E

Typ. Gable End Bracing

1" = 1'-0"

WOOD–R015

WAYLAND STRUCTURAL ENGINEERING			Date:	12/2/2009
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8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727		Page:	10
Project Name: **TATOM RESIDENCE**			For:	
WSE Project Number: 09082				
Project Location: Lake City, FL				

TRUSS UPLIFT CALCULATIONS

A. LOADS

1. Dead Load
   - a. Top Chord — TC DL = 10 psf
   - b. Bottom Chord — BC DL = 10 psf
   - c. Total — DL = **20** psf
   - d. Resisting Uplift — Dlu = 8 psf
3. Roof Live Load — R = **20** psf
4. Floor Live Load — F = **0** psf

5. Wind

Basic Wind Speed	100 mph
Exposure Category	B
Importance Factor	1.0
Pressure Coefficients	+0.18 / -0.18

Uplift Pressures

	Tributary Area (sf)				
	10	20	50	100	700
u1 =	16.5	16.0	15.4	14.9	13.3
u2 =	34.8	31.5	27.3	21.1	19.1
u3 =	33.5	33.5	33.5	33.5	19.1

B. COMMON TRUSS

1. Span — L = 28.00 ft
2. Overhang Left — OHL = 2.00 ft
3. Overhang Right — OHR = 2.00 ft
4. Floor Width — w = 0.00 ft (centered in span)
5. Spacing — s = 2.00 ft
6. Tributary Area — A = 64 sf
7. Slope — 4.00 /12
8. Reactions

u1 = 15.4, u2 = 27.3, u3 = 33.5

a = 3.00 ft, a1l = 1.00 ft, a1r = 1.00 ft, bl = 10.00 ft, br = 10.00 ft

Dead Load for Uplift		Dead Load		Live Load	
Rudl =	256 lb	Rdl =	640 lb	Rll =	640 lb
Rudr =	256 lb	Rdr =	640 lb	Rlr =	640 lb

Gross Uplift		Net Uplift	
Ugl =	660 lb	Unl =	**404** lb
Ugr =	660 lb	Unr =	**404** lb

F2 = 268 lb
U = 535 lb

USE **SIMPSON "H2.5A" + (3) 10d TOE-NAILS**

C. TYPICAL PORCH TRUSS

1. Span — L = 6.00 ft
2. Overhang Left — OHL = 2.50 ft
3. Overhang Right — OHR = 2.50 ft
4. Floor Width — w = 0.00 ft (centered in span)
5. Spacing — s = 2.00 ft
6. Tributary Area — A = 22 sf
7. Slope — 4.00 /12
8. Reactions

u1 = 16.0, u2 = 31.5, u3 = 33.5

a = 3.00 ft, a1l = 0.50 ft, a1r = 0.50 ft, bl = -0.50 ft, br = -0.50 ft

Dead Load for Uplift		Dead Load		Live Load	
Rudl =	88 lb	Rdl =	220 lb	Rll =	220 lb
Rudr =	88 lb	Rdr =	220 lb	Rlr =	220 lb

Gross Uplift		Net Uplift	
Ugl =	372 lb	Ugl =	**284** lb
Ugr =	372 lb	Ugr =	**284** lb

F2 = 268 lb
U = 535 lb

USE **SIMPSON "H2.5A" + (3) 10d TOE-NAILS**

WAYLAND STRUCTURAL ENGINEERING			Date:	12/2/2009
Gregory S. Wayland, PE	FL PE #54396	FL COA #8236	By:	GSW
8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727		Page:	11
Project Name: **TATOM RESIDENCE**		For:	Billy J. Tatom	
WSE Project Number: 09082			306 SW Archie Glen	
Project Location: Lake City, FL			Lake City, FL	

VERTICAL WALL MEMBERS (STUDS & POSTS)

Refer to Truss Engineering or Truss Uplift Calculations for calculations of vertical roof loads to be supported by walls.
Refer to attached spreadsheets for individual stud or post design calculations.

A. TYPICAL EXTERIOR BEARING WALL STUDS

Stud Height H = 8.00 ft
Stud Spacing s = 16 in

Load Case 1 - DL + LL

	Uniform Axial Load, (plf)	Axial Load (lb/stud)
Dead Load	320	427
Live Load	320	427
Total	**640**	**853**

Load Case 2 - 0.6DL + WL

	Uniform Axial Load, (plf)	Axial Load (lb/stud)
0.6 Dead	192	256
Wind Uplift	202	269

	Pressure (psf)	Uniform load (plf)
Lateral Wind	18.7	24.9

USE: 2x4 STUDS @ 16" O.C., CONSTRUCTION GRADE SPRUCE-PINE-FIR (SPF)
W/ DOUBLE 2x4 TOP PLATE, 2x4 P.T. BOTTOM PLATE & STRUCTURAL SHEATHING FULL HEIGHT ONE SIDE OF STUD
W/ 1/2" x 8" ANCHOR BOLTS TO FOUNDATION @ 48" O.C. & WITHIN 4" OF CORNERS AND END OF WALL

B. TYPICAL PORCH POST

Post Height H = 8.00 ft
Post Spacing s = 6.00 ft

	Uniform Load, (plf)	End Posts Axial Load (lb/post)	Middle Posts Axial Load (lb/post)
Dead Load	110	330	660
Live Load	110	330	660
Total	220	**660**	
Uplift	142	**426**	

USE: 4x4 PRESERVATIVE TREATED POST, NO. 2 SOUTHERN PINE (SP)
W/ SIMPSON "ABU44" W/ NAILS TO POST + 5/8" x 10" ANCHOR BOLT TO FOUNDATION (U=2200 lb)
or USE: (2) 2x4 STUD POST INSIDE SHEATHED WALL, CONSTRUCTION GRADE SPRUCE-PINE-FIR (SPF)
W/ 1/2" x 8" ANCHOR BOLT TO FOUNDATION WITHIN 4" OF POST

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8200 SW 16th Place Gainesville, FL 32607	Ph/Fax 352-331-0727		Page:	12
Project Name: **TATOM RESIDENCE**		For:	Billy J. Tatom	
WSE Project Number:			306 SW Archie Glen	
Project Location:			Lake City, FL	

HORIZONTAL WALL MEMBERS (HEADERS, BEAMS, GIRDERS)

A. TYPICAL WALL HEADERS

Dead Load	320	plf
Live Load	320	plf
Total	**640**	plf
Wind Uplift	202	plf

		Header Span, (ft)				
		3.33	6.33	9.00		
Uplift, (lb)	U =	336	639	909		
Shear, (lb)	V =	1,066	2,026	2,880		
Moment (in-lb)	M =	10,645	38,466	77,760		
Deflection (in)	delta total =	0.17	0.32	0.45		
	delta live =	0.11	0.21	0.30		
Area (in^2)	A =	9.5	18.0	25.6		
Section Mod. (in^3)	S =	8.7	31.6	63.8		
Mom. of Inertia (in^4)	I total =	6.6	45.7	131.2		
	I live =	5.0	34.2	98.4		
Header		**(2) 2x8**	**(2) 2x10**	**(2) 2x12**		
Straps	Plate to Hdr*	**SP4 @ 32"**	**SP4 @ 32"**	**SP4 @ 32"**		
	Hdr to Post	**(1) LSTA18**	**(1) LSTA18**	**(2) LSTA18**		
Jamb Posts	Jack	**1**	**2**	**2**		
	Full	**1**	**1**	**2**		

**Required at unsheathed interior bearing walls only*

B. TYPICAL PORCH BEAM

Dead Load	110	plf
Live Load	110	plf
Total	**220**	plf
Wind Uplift	142	plf

Span, (ft)	L =	6.00
Uplift, (lb)	U =	426
Shear, (lb)	V =	660
Moment (in-lb)	M =	11,880
Deflection (in)	delta total =	0.30
	delta live =	0.20
Area (in^2)	A =	5.9
Section Mod. (in^3)	S =	9.7
Mom. of Inertia (in^4)	I total =	13.4
	I live =	10.0

USE: (2) 2x8 BEAM, NO. 2 SOUTHERN PINE (SP) W/ (2) SIMPSON "LSTA18" TO POSTS (U=2330 lb)

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Project Name: **TATOM RESIDENCE**		For:	Billy J. Tatom	
WSE Project Number:			306 SW Archie Glen	
Project Location:			Lake City, FL	

FOOTINGS AND SLABS

Allowable Bearing Pressure: 1,000 psf

A. TYPICAL EXTERIOR CONTINUOUS FOOTINGS

Footing width	b =	1.33	ft
Footing depth	d =	1.67	ft
Slab thickness	ts =	0.33	ft
Effective slab width	bs =	2.00	ft

	Volume (cf/lf)	Weight (plf)
Footing	2.22	333
Slab	0.66	99
Total	2.88	432

Uniform Downward Loads

Roof load	640	plf
Wall load	80	plf
Footing weight	333	plf
Total	1,053	plf
Req'd Width	**1.05**	ft
Check	OK	

Uniform Upward Loads

Roof uplift	202	plf
Req'd volume	1.35	cf/lf
Check	OK	

USE: 1'-4" WIDE x 1'-8" DEEP STRIP FOOTING W/ (2) #5 CONTINUOUS BOTTOM

B. TYPICAL PORCH POST FOOTING

Footing length	L =	6.00	ft
Footing width	B =	1.33	ft
Footing depth	d =	1.67	ft
Footing area	A =	7.98	sf
Slab thickness	ts =	0.33	ft
Effective slab width	bs =	2.00	ft

	Volume (cf)	Weight (lb)
Footing	13.33	1,999
Slab	3.30	495
Total	16.63	**2,494**

Uniform Downward Loads

Roof load	0	lb
Footing weight	1,999	lb
Total	1,999	lb
Req'd Area	**2.00**	sf
Check	OK	

Uniform Upward Loads

Roof uplift	0	lb
Check	OK	

USE: 1'-4" WIDE x 1'-8" DEEP FOOTING W/ (2) #5 CONTINUOUS BOTTOM

WAYLAND STRUCTURAL ENGINEERING			Date:	
Gregory S. Wayland, PE	FL PE #54396	FL COA #8236	By:	GSW
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Project Name: **TATOM RESIDENCE**		For:	Billy J. Tatom	
WSE Project Number:			306 SW Archie Glen	
Project Location:			Lake City, FL	

C. LATERAL ANALYSIS

1. Building Data

Building Length	L =	36.00	ft
Building Width	B =	28.00	ft
Eave Height	he =	8.00	ft
Peak ht above eave	hp =	4.67	ft
Roof Slope		4	/12
Exposure Category		B	
Adjustment Coefficient		1.00	

2. Edge Zone

a = 0.10*B	2.80	ft
a = 0.40*h	3.20	ft
a =	2.80	ft
a = 0.04*B	1.12	ft
a = 3.00	3.00	ft
a =	**3.00**	**ft**

3. End Zone

z = 2*a = **6.00** **ft**

4. LONGITUDINAL DIRECTION

MWFRS Wind Pressures:

Wall Interior Zone	10.5	psf
Wall End Zone	15.9	psf
Roof Interior Zone	-4.9	psf
Roof End Zone	-8.2	psf

Wall Shear Force:

Interior	0.67	kips
End	0.76	kips
Total	1.44	kips

Roof Shear Force:

Interior	-0.26	kips
End	-0.10	kips
Total	-0.36	kips
Use	0.00	kips

Total Shear Force:

V = **1.44** **kips**

Roof Diaphragm Check:

Diaphragm shear	v =	20	plf
Allowable shear	v =	240	plf
	check	OK	

Shear Wall Check:

Shear wall length	d =	18.00	ft
Shear wall height	h =	8.00	ft
Shear in wall	v =	40	plf
Allowable shear	v =	260	plf
	check	OK	

Overturning moment M = 5741 ft-lb

Uplift at Corner T = 159 lb

5. TRANSVERSE DIRECTION

MWFRS Wind Pressures:

Wall Interior Zone	14.6	psf
Wall End Zone	22.0	psf
Roof Interior Zone	-3.2	psf
Roof End Zone	-5.8	psf

Wall Shear Force:

Interior	1.40	kips
End	1.06	kips
Total	2.46	kips

Roof Shear Force:

Interior	-0.26	kips
End	-0.07	kips
Total	-0.33	kips
Use	0.00	kips

Total Shear Force:

V = **2.46** **kips**

Roof Diaphragm Check:

Diaphragm shear	v =	44	plf
Allowable shear	v =	240	plf
	check	OK	

Shear Wall Check:

Shear wall length	d =	22.00	ft
Shear wall height	h =	8.00	ft
Shear in wall	v =	56	plf
Allowable shear	v =	260	plf
	check	OK	

Overturning moment M = 9830 ft-lb

Uplift at Corner T = 273 lb

ROOF SHEATHING:
USE: 7/16" THICK ORIENTED STRAND BOARD (OSB), SHEATHING GRADE
W/ 8d RING SHANK NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. AT PANEL INTERIOR, 4" O.C. WITHIN 5 FT. OF GABLE ENDS

WALL SHEATHING:
USE: 5/8" THICK T1-11, EXTERIOR GRADE PLYWOOD SIDING
W/ 8d COMMON NAILS (HOT DIP GALVANIZED) @ 6" O.C. AT PANEL EDGES, 12" O.C. AT PANEL INTERIOR,
W/ SOLID 2x4 BLOCKING AT ALL PANEL EDGES
W/ 1/2" x 8" ANCHOR BOLTS TO FOUNDATION @ 48" O.C. & WITHIN 4" OF CORNERS AND END OF WALL