

DATE 06/26/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT

000027120

APPLICANT MIKE TODD PHONE 755-4387
ADDRESS 129 NE COLBURN AVE LAKE CITY FL 32055
OWNER TODD HOYLE PHONE 623-6776
ADDRESS 126 SW STORY PLACE LAKE CITY FL 32024
CONTRACTOR MIKE TODD PHONE 755-4387
LOCATION OF PROPERTY 90W, TL ON 247S, TL ON KIRBY AVE, TL ON STORY PL.,
1ST HOUSE ON RIGHT
TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 28000.00
HEATED FLOOR AREA 560.00 TOTAL AREA 560.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 5/12 FLOOR SLAB
LAND USE & ZONING RSF-2 MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 1 FLOOD ZONE X PP DEVELOPMENT PERMIT NO.

PARCEL ID 11-4S-16-02905-425 SUBDIVISION CREST POINTE
LOT 25 BLOCK PHASE UNIT 0 TOTAL ACRES

CGC006209
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 08-381 BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident
COMMENTS: IMPACT FEE EXEMPT ADDITION TO EXISTING RESIDENCE.

Check # or Cash 13003

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 140.00 CERTIFICATION FEE \$ 2.80 SURCHARGE FEE \$ 2.80
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 220.60
INSPECTORS OFFICE CLERKS OFFICE

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

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

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 TO BE IN ACTIVE PROGRESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

Columbia County Building Permit Application

CK# 13003

For Office Use Only Application # 0805-28 Date Received 5/15 By JW Permit # 27120
 Application Approved by - Zoning Official BLK Date 18.06.08 Plans Examiner OKJTH Date 6-18-08
 Flood Zone 20 ft Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res Low Den.
 Comments Impact Fee Exempt Addition to existing Residence
☐ NOC ☒ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Fax 386 755 1220Name Authorized Person Signing Permit Mike Todd Phone 386 755 4387Address 129 NE Colburn Avenue Lake City FL 32055Owners Name Todd Hoyle Phone 386 623 6776911 Address 126 SW Story Place Lake City FL 32024Contractors Name Mike Todd Phone 386 755 4387Address 129 NE Colburn Avenue Lake City FL 32055Fee Simple Owner Name & Address n/aBonding Co. Name & Address n/aArchitect/Engineer Name & Address n/aMortgage Lenders Name & Address n/aCircle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive EnergyProperty ID Number 11-45-16-02905-425HX Estimated Cost of Construction \$30,000Subdivision Name Crest Pointe Lot 25 Block - Unit - Phase -Driving Directions Turn 90 West to Bradford Turn Left to Kirby Ave - Turn Left to Story Place - Turn Left - Address on rightType of Construction Addition SFD Number of Existing Dwellings on Property 1Total Acreage .72 Lot Size - Do you need a - Culvert Permit or Culvert Waiver or Have an Existing DriveActual Distance of Structure from Property Lines - Front 32.78' Side 28.3' Side 26.87' Rear 92.23'Total Building Height 14'6" Number of Stories 1 Heated Floor Area 560 SF 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.

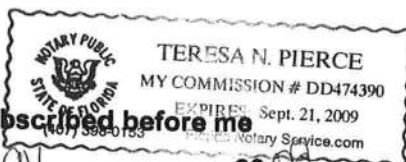
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

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

Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 14th day of May 2008Personally known ☒ or Produced Identification -

Contractor Signature

Contractors License Number CG0000709Competency Card Number -

NOTARY STAMP/SEAL

Notary Signature

(Revised Sept. 2006)

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU 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 WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

St. Todd Hoyle
Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

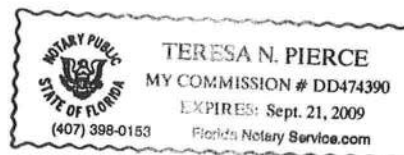
Michael Todd
Contractor's Signature (Permitee)

Contractor's License Number C6C006209
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 16 day of MAY 2008.
Personally known ☒ or Produced Identification _____

Teresa Pierce
State of Florida Notary Signature (For the Contractor)

SEAL:



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Residential Component Prescriptive Method B

NORTH 1 2 3

Compliance with Method B Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 600B for single and multifamily residences of 3 stories or less in height, and additions to existing residential buildings. To comply, a building must meet or exceed all of the energy efficiency prescriptives in any one of the prescriptive component packages and comply with the prescriptive measures listed in Table 6B-1 of this form. An alternative method is provided for additions of 600 square feet or less by use of Form 600C. If a building does not comply with this method, it may still comply under other sections in Chapter 6 of the Code.

PROJECT NAME: AND ADDRESS:	126 SW Story PL Lake City	BUILDER:	Mike Todd
OWNER:	Mike Todd Hoyle	PERMITTING OFFICE:	Columbia Co.
		PERMIT NO.:	
		CLIMATE ZONE:	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/>
		JURISDICTION NO.:	221000

GENERAL DIRECTIONS

1. New construction including additions which incorporates any of the following features cannot comply using this method: steel stud walls, single assembly roof/ceiling construction, or skylights or other non-vertical roof glass.
2. Choose one of the component packages "A" through "E" from Table 6B-1 by which you intend to comply with the Code. Circle the column of the package you have chosen.
3. Fill in all the applicable spaces of the "To Be Installed" column on Table 6B-1 with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
4. Complete page 1 based on the "To Be Installed" column information.
5. Read "Minimum Requirements for All Packages", Table 6B-2 and check each box to indicate your intent to comply with all applicable items.
6. 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.

1. Compliance package chosen (A-F)
2. New construction or addition
3. Single family detached or Multifamily attached
4. If Multifamily—No. of units covered by this submission
5. Is this a worst case? (yes / no)
6. Conditioned floor area (sq. ft.)
7. Predominant eave overhang (ft.)
8. Glass type and area :
 - a. Clear glass
 - b. Tint, film or solar screen
9. Percentage of glass to floor area
10. Floor type, area or perimeter, and insulation:
 - a. Slab on grade (R-value)
 - b. Wood, raised (R-value)
 - c. Wood, common (R-value)
 - d. Concrete, raised (R-value)
 - e. Concrete, common (R-value)
11. Wall type, area and insulation:
 - a. Exterior: 1. Masonry (Insulation R-value)
 2. Wood frame (Insulation R-value)
 - b. Adjacent: 1. Masonry (Insulation R-value)
 2. Wood frame (Insulation R-value)
12. Ceiling type, area and insulation:
 - a. Under attic (Insulation R-value)
 - b. Single assembly (Insulation R-value)
13. Air Distribution System: Duct insulation, location
Test report (attach if required)
14. Cooling system
(Types: central, room unit, package terminal A.C., gas, none)
15. Heating system:
(Types: heat pump, elec. strip, nat. gas, L.P. gas, gas h.p., room or PTAC, none)
16. Hot water system:
(Types: elec., nat. gas, L.P. gas, solar, heat rec., ded. heat pump, other, none)

Please Print		CK
1.	A	
2.	Addition	
3.	Single fam.	
4.		
5.	NO	
6.	560	
7.	2'	
Single Pane		Double Pane
8a.	sq. ft.	75 sq. ft.
8b.	sq. ft.	sq. ft.
9.	13 %	
10a.	R= 0	lin. ft.
10b.	R=	sq. ft.
10c.	R=	sq. ft.
10d.	R=	sq. ft.
10e.	R=	sq. ft.
11a-1	R=	sq. ft.
11a-2	R= 13	409 sq. ft.
11b-1	R=	sq. ft.
11b-2	R=	sq. ft.
12a.	R= 30	560 sq. ft.
12b.	R=	sq. ft.
13.	R=	
14a.	Type: Central	
14b.	SEER/EER: 12.2	
14c.	Capacity: 3	
15a.	Type: Heat Pump	
15b.	HSPF/COP/AFUE:	
15c.	Capacity: 36	
16a.	Type: Elect	
16b.	EF: 88	

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

PREPARED BY: Mike Todd DATE: 5/8/08
I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER AGENT: Mike Todd DATE: 5/8/08

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: _____



STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0381E

PART II - SITE PLAN

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

See
Attached

Notes:

Site Plan submitted by: [Signature]

Plan Approved ☒ Not Approved ☐

By [Signature]

APPROVED

Signature

Not Approved

[Signature]
Title

Date 5/19/08

5/20/8

Columbia CHD

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

NOTE: ALL PROPERTY CORNERS LOCATED AS SHOWN HEREON ARE IDENTIFIED AS L.S. BRITT, P.L.S. 575

APPROVED

08-0384

5/20/8

Columbia CHD

SW STORY PLACE (PAVED PUBLIC)

PLAT RIGHT

N.89°10'27"E.
36.70' (FIELD)

154.03' (PLAT)
S.89°12'31"W. 153.98' (FIELD)

20' UTILITY EASEMENT

BRICK SIGN

SEPTIC TANK

ONE STORY BRICK RESIDENCE
72.7'

ADDITION

LOT 25

LOT

NORTH LINE OF RETENTION AREA EASEMENT

N.88°40'28"E.
264.49' (PLAT)

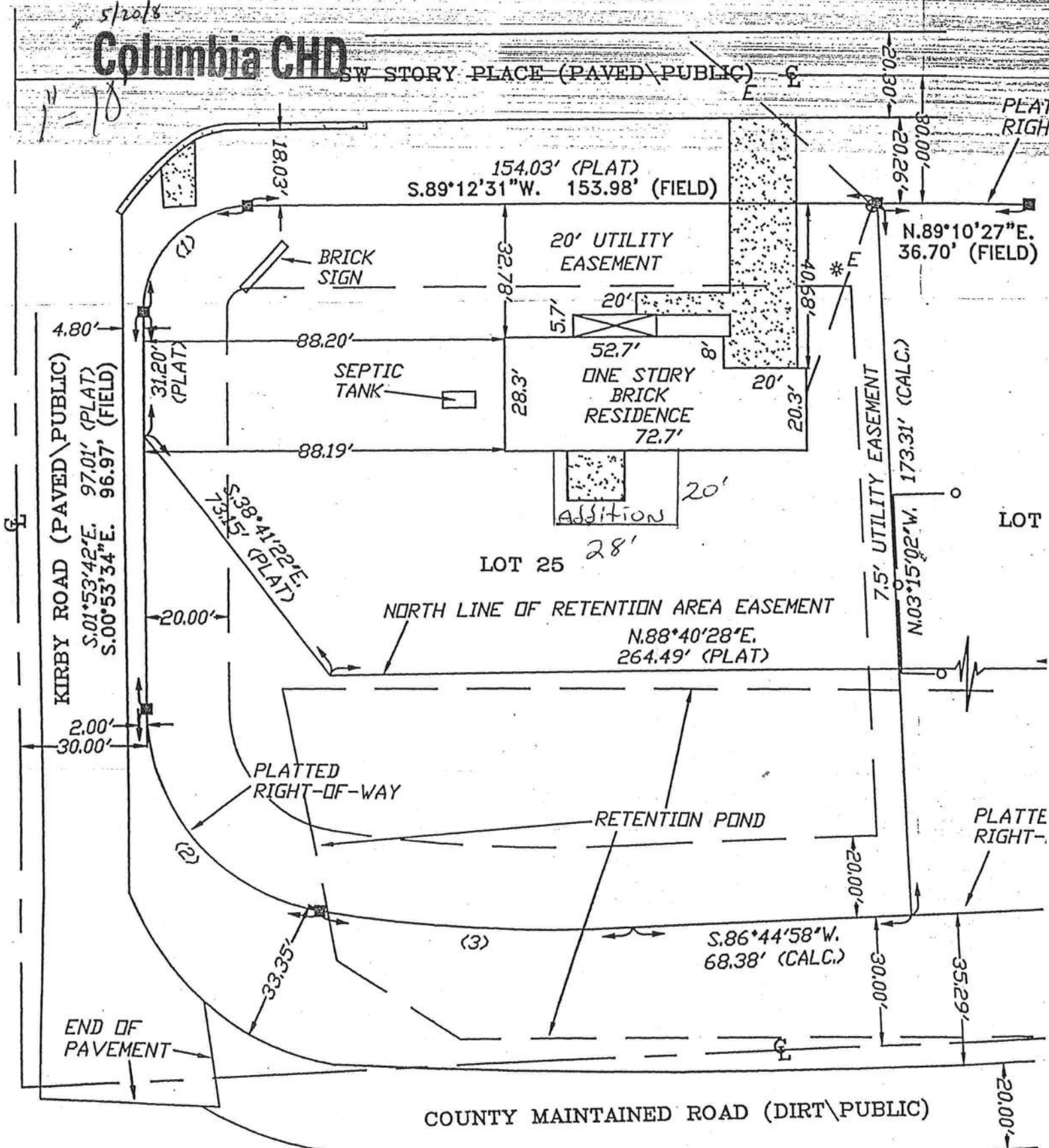
RETENTION POND

PLATTE RIGHT-

S.86°44'58"W.
68.38' (CALC.)

END OF PAVEMENT

COUNTY MAINTAINED ROAD (DIRT PUBLIC)





Charlie Crist
Governor

Dr. Ana M. Viamonte Ros
State Surgeon General

Applicant: HOYLE, TODD
Mailing Address: 129 NE COLBURN AVE
L.C. 32055

Agent: OWEN
Date: 5/20/8

RE: On-Site Sewage Treatment and Disposal System Construction Inspection and Final Approval.

Dear Sir / Madam:

On 5/20, an ^{review} inspection was conducted on your property for Permit # 08-0381-E. The ~~Construction~~ Final Approval for this system was not issued because the following was / were noted. This / These item(s) will need to be resolved before this department can grant Final Approval.

- | | |
|--|---|
| <input type="checkbox"/> Private well not installed (75' setback). | <input type="checkbox"/> Mound/Filled system needs stabilization. |
| <input checked="" type="checkbox"/> Bldg. not installed (5' setback). | <input checked="" type="checkbox"/> Need Tank Certification. |
| <input type="checkbox"/> Bldg. does not match/missing floor plans. | <input type="checkbox"/> Tank manhole needs to be sealed.* |
| <input checked="" type="checkbox"/> H2O line not hooked up (10' setback).* | <input type="checkbox"/> Need 911- Address. |
| <input type="checkbox"/> H2O line does not meet required setbacks. | <input type="checkbox"/> Sign Private Soil Evaluator form. |
| <input type="checkbox"/> System does not meet required setbacks. | <input type="checkbox"/> Resite (\$50)/Amendment (\$55) Fee required. |
| <input type="checkbox"/> Property lines not clearly marked. | <input type="checkbox"/> Resite/Updated site plan required. |
| <input checked="" type="checkbox"/> Plumbing connection into tank.* | <input type="checkbox"/> Other. |

* Must be left uncovered for inspection. Failure to comply may result in additional fee(s).

Remarks: **PLEASE CALL WHEN EVERYTHING IS COMPLETED**

The items mentioned above need to be resolved as soon as possible before a final approval can be granted. If this department has to return to the site a \$50.00 re-inspection fee ~~will~~ will not ☒ be charged.

When completed or if there should be any questions, please contact the Environmental Health Section of the Columbia County Health Department at 386-758-1058.

Respectfully,

Paul O. Muller
Columbia County Health Department

cc: file

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: ITHD8228Z0109083148

Truss Fabricator: Anderson Truss Company
Job Identification: 8-131--Mike Todd Construction Hoyle -- , **
Truss Count: 10
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.36.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: -



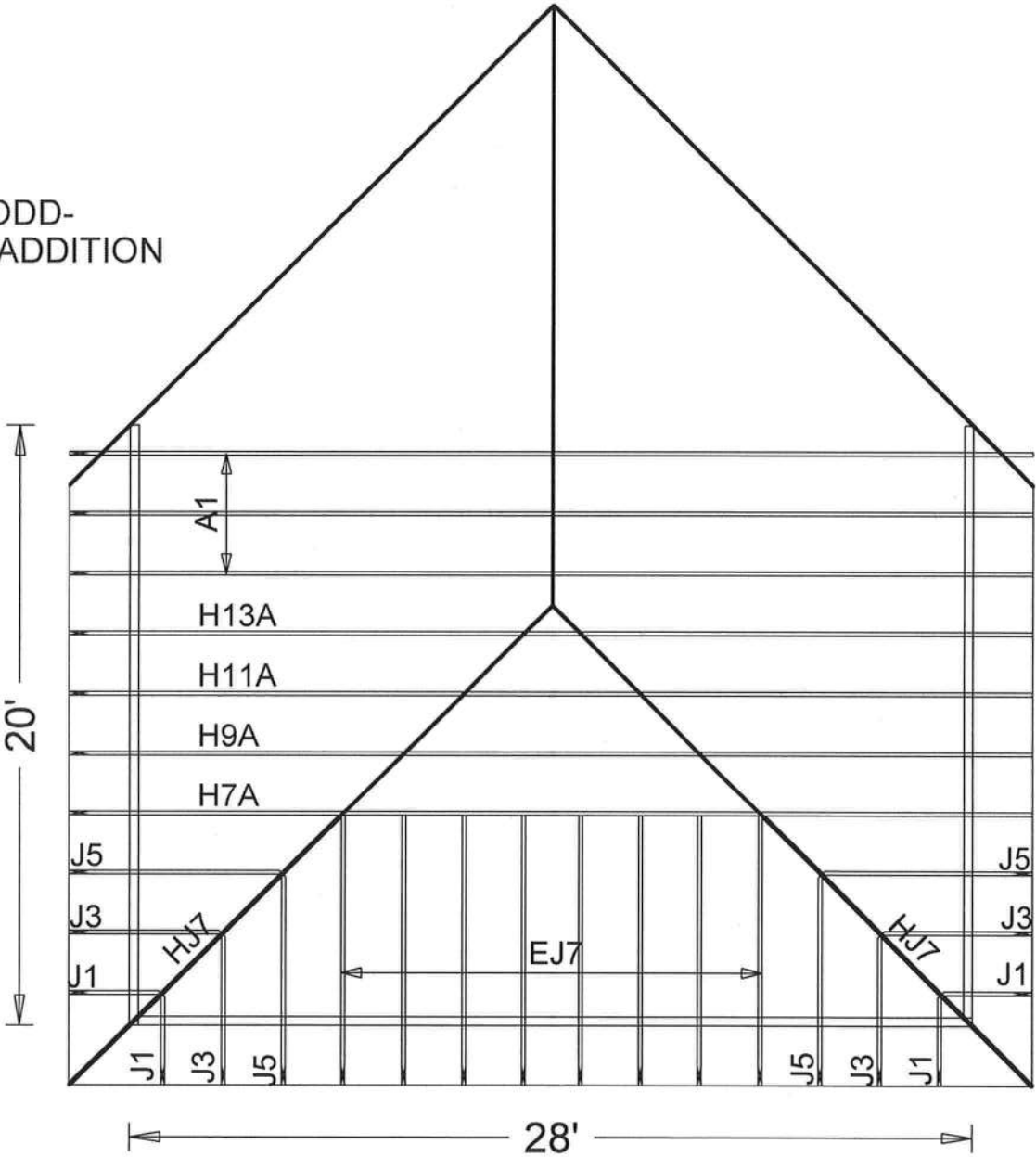
Seal Date: 05/09/2008

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	04062--H7A		08130006	05/09/08
2	04063--H9A		08130001	05/09/08
3	04064--H11A		08130002	05/09/08
4	04065--H13A		08130003	05/09/08
5	04066--A1		08130004	05/09/08
6	04067--J1		08130007	05/09/08
7	04068--HJ7		08130008	05/09/08
8	04069--J3		08130005	05/09/08
9	04070--J5		08130009	05/09/08
10	04071--EJ7		08130010	05/09/08



#8-131
MIKE TODD-
HOYLE ADDITION



JOB DESCRIPTION:: Mike Todd Construction
/: Hoyle

JOB NO:
8-131

PAGE NO:
1 OF 1

Top chord 2x4 SP #2 Dense :T2 2x6 SP #2:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

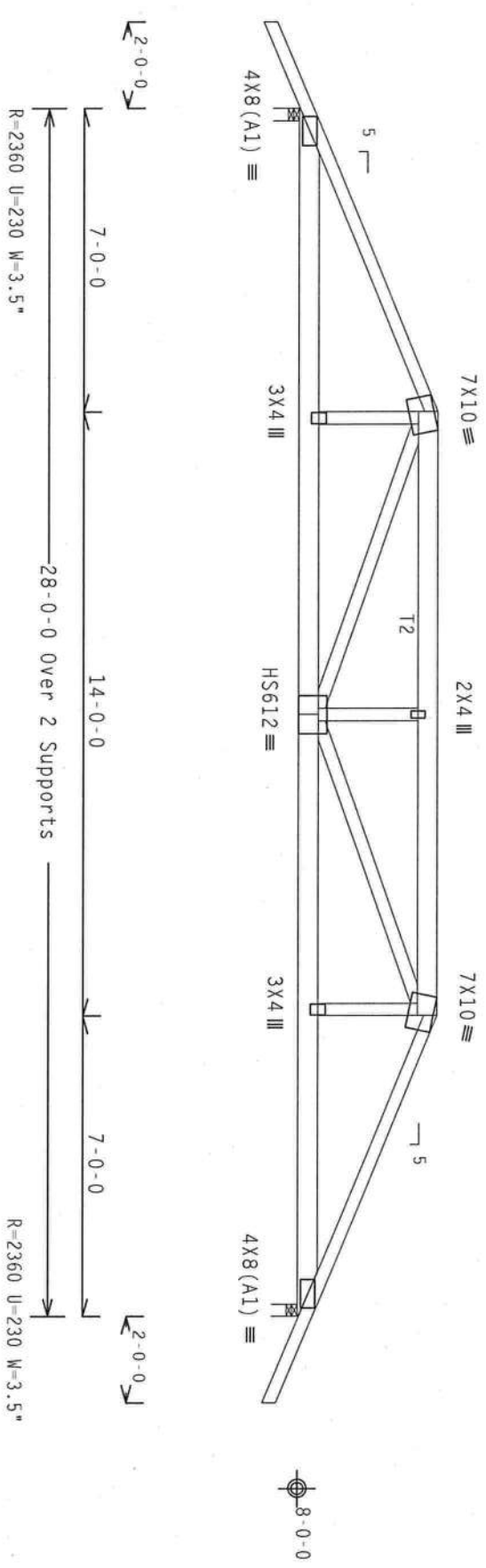
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

Wind reactions based on MMFRS pressures.

#1 hip supports 7'-0" jacks with no webs.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. 20 Gauge HS.Wave

Design Cmt: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0.00

7.36.0424

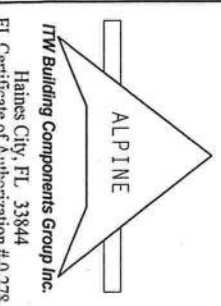
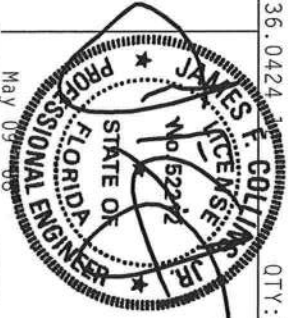
QTY:1 FL/-/4/-/-/R/-

Scale = .25" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND MICA GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF THIS NATIONAL DESIGN SPEC. BY ADEPA AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 20/16/16GA (R/H/S/S/K) ASTM A653 GRADE 40/60 (R, R/H/S/S) GALV. STEEL. APPLY THE FOLLOWING CONNECTIONS TO THE TRUSS: 1. ALL CONNECTIONS SHALL BE MADE PER THE BCG CONNECTIONS. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE THE OWNER AS OF THE BCG CONNECTIONS. THE BCG CONNECTIONS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



FL Certificate of Authorization # 0-378

TC LL	20.0 PSF	REF	R8228-4062
TC DL	10.0 PSF	DATE	05/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08130006
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	86846
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1THD8228Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf Iw=1.00 GCPI (+/-)-0.18

Wind reactions based on MWFRS pressures.

Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.



Cq/RT=1.00(1.25)/0(0) 7.36.0424

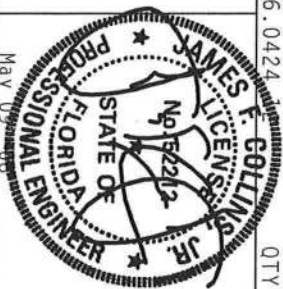
Scale = .25" / Ft.

****IMPORTANT***FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

ITW Building Components Group Inc.

Haines City, FL 33844

FL Certificate of Authorization # A 070



FL/-4/-/-R/-		Scale = .25"/Ft.
TC LL	20.0 PSF	REF R8228 - 4063
TC DL	10.0 PSF	DATE 05/09/08
BC DL	10.0 PSF	DRW HCSUR8228 08130001
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT.LD.	40.0 PSF	SEQN- 86851
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1THD8228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

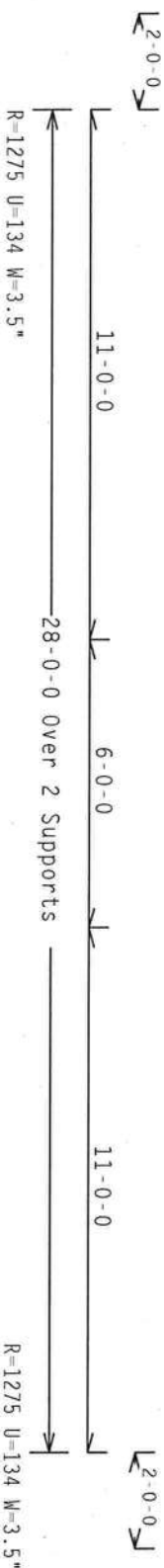
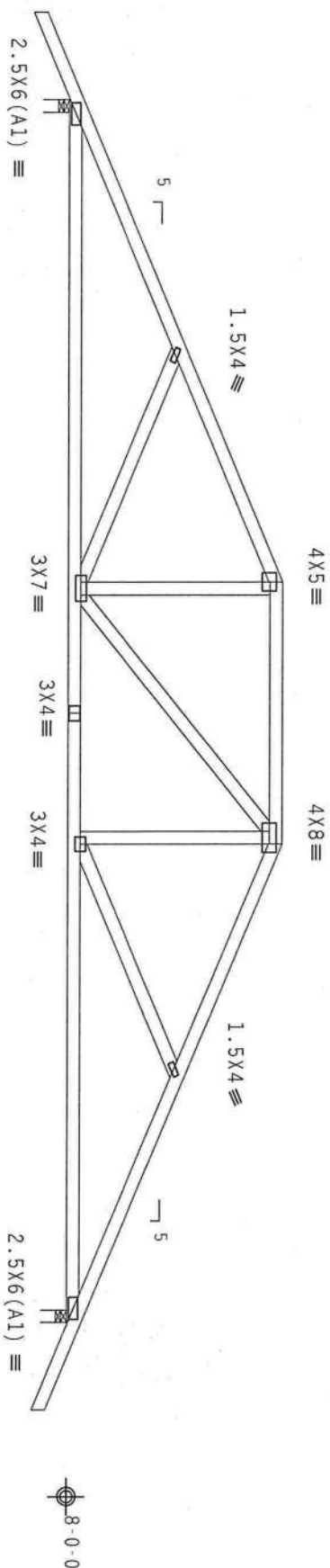
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Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

7.36.0424

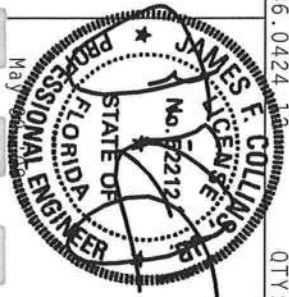
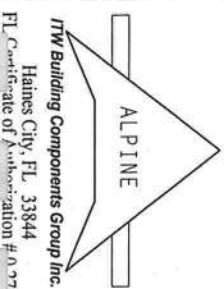
QTY: 1

FL/-/4/-/-/R/-

Scale = .25"/ft.

****WARNING**** THUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION PUBLISHED BY THE MANUFACTURER OF THE THUSSES. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICK, GOOD THUSSES COMPANY, INC., 6200 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF THUSSES, BY AERONAUTICAL AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AIA (AIA/AS/RS) ASHRAE 62.1-2004 (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.



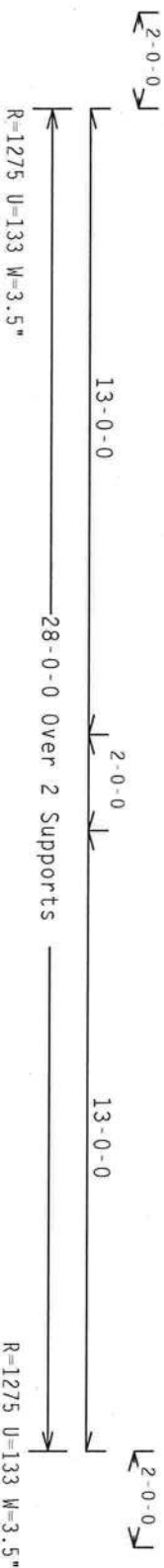
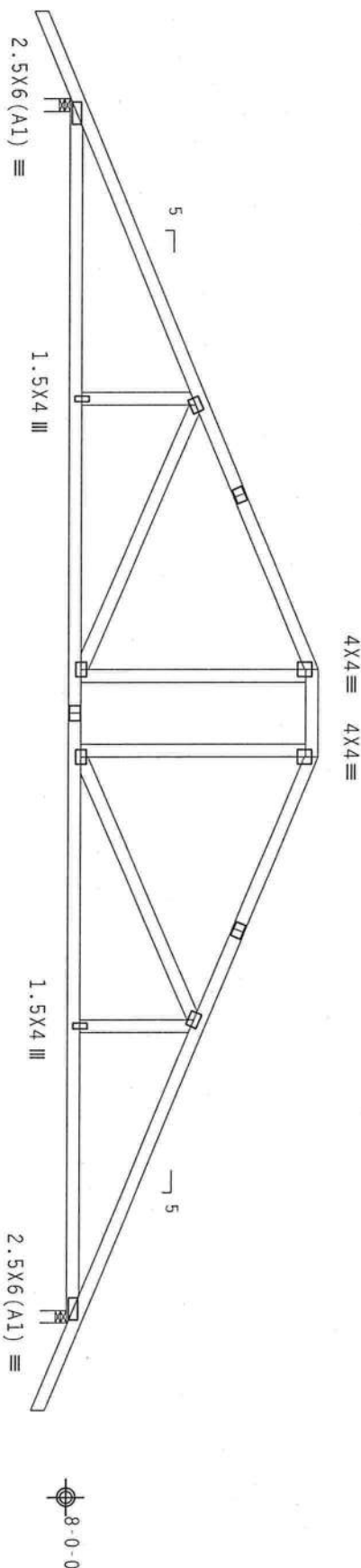
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TC DL	10.0 PSF	DATE	05/09/08
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BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEQN-	86856
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1THD8228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $GCP(+/)=0.18$
Wind reactions based on MMFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

7.36.0424.12

QTY: 1

FL/-/4/-/-/R/-

Scale = .25"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST QUALITY COMPONENT SAFETY INFORMATION, PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

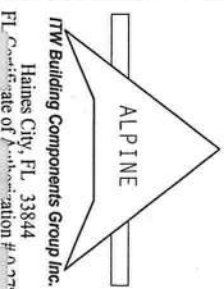
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI-2002 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (AISC) DESIGN SPEC., BY AISC AND TPI. ITW BCG

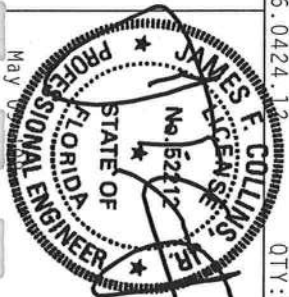
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

DESIGN SHOWN THE ACCEPTANCE OF PROFESSIONAL ENGINEER, LICENSE NO. 152212, STATE OF FLORIDA, FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



FL Certificate of Registration #00000000



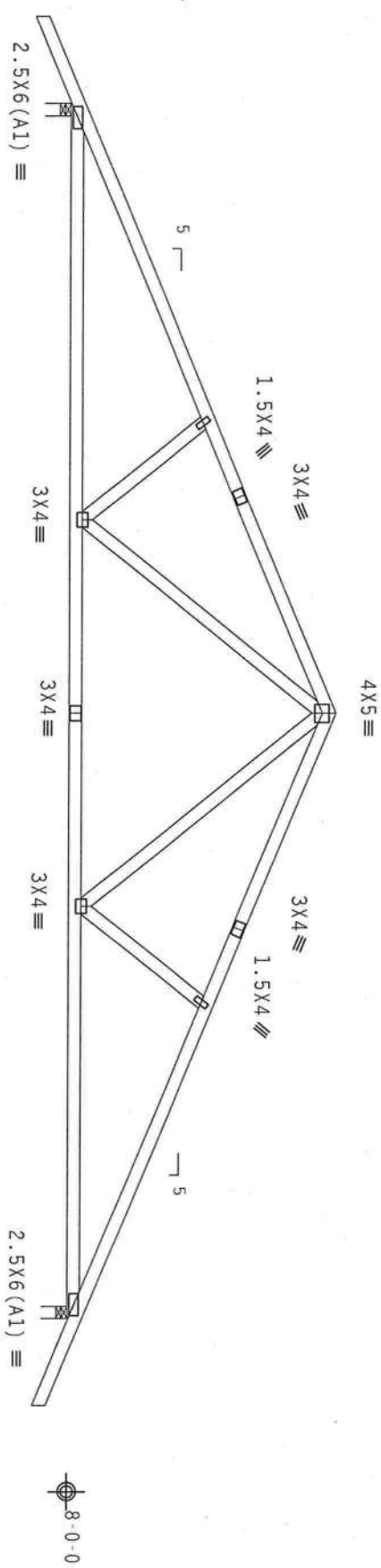
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TC DL	10.0 PSF	DATE	05/09/08
BC DL	10.0 PSF	DRW	HGUSR8228 08130003
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEON-	86666
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TH08228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$
Wind reactions based on MWFRS pressures.

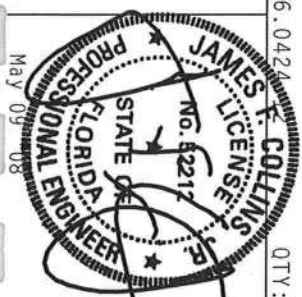
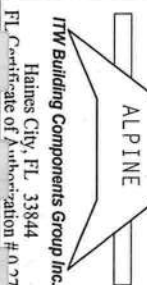


2'-0-0" 14'-0-0" 28'-0-0 Over 2 Supports 14'-0-0" 2'-0-0"
R=1275 U=132 W=3.5" R=1275 U=132 W=3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/0(0)

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314 AND WICK 4600 TRUSS CONNECT OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY A/R/K/A AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY A/R/K/A) AND TPI. TRUSSES SHALL BE BRACED TO TOP CHORDS AND BOTTOM CHORDS AS SHOWN. BRACING SHALL BE INSTALLED IN ACCORDANCE WITH TPI. ANY INSPECTION OF TRUSSES AND/OR TRUSS PLATES TO EACH FACE OF TRUSSES AND/OR TRUSS PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC. 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOUTHERN FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



QTY: 1	FL/-/4/-/-/R/-	Scale = .25"/ft.
TC LL	20.0 PSF	REF R8228- 4066
TC DL	10.0 PSF	DATE 05/09/08
BC DL	10.0 PSF	DRW HCURSR8228 08130004
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT. LD.	40.0 PSF	SEGN- 86871
DUR. FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TH08228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

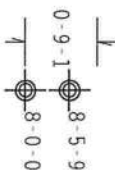
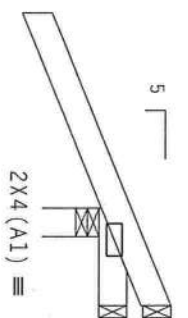
Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

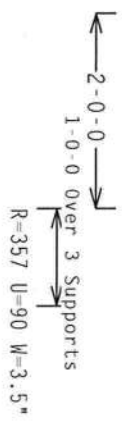
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Wind reactions based on MMFRS pressures.

R=-106 Rw=43 U=66



R=-38 Rw=22 U=25



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

7.36.0424.12

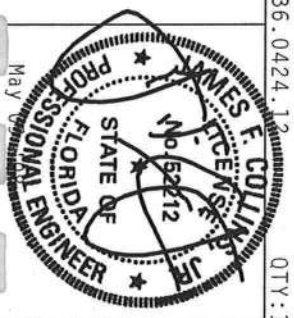
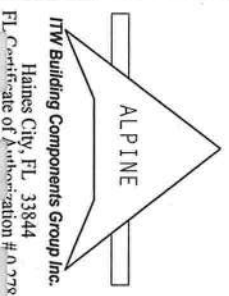
QTY: 1 FL/-/4/-/-/R/-

Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND RIGGING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS SOCIETY OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIA/NA) AND TPI. ITW BCS CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/50 (W, K/H, SS) GALV. STEEL. APPLY AN ANGLE OF 15 DEGREES TO THE PLATE. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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TC DL	10.0 PSF	DATE	05/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08130007
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON-	86818
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	UREF-	1TH08228Z01

THE UNIVERSITY OF CHICAGO PRESS

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Wind reactions based on MWFRS pressures.



Scale = .5" / Ft.

BRACING,
ROUTE, 218
N. 6300
DIRECTIONS
SHALL HAVE

CE WITH

SEAL OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

May 1988

May 09 08



TC LL	20.0 PSF	REF	R8228 - 4068
TC DL	10.0 PSF	DATE	05/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08130008
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN -	86841
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1THD8228Z01

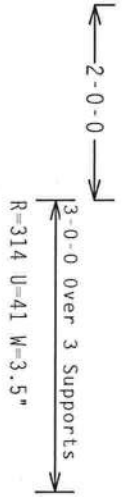
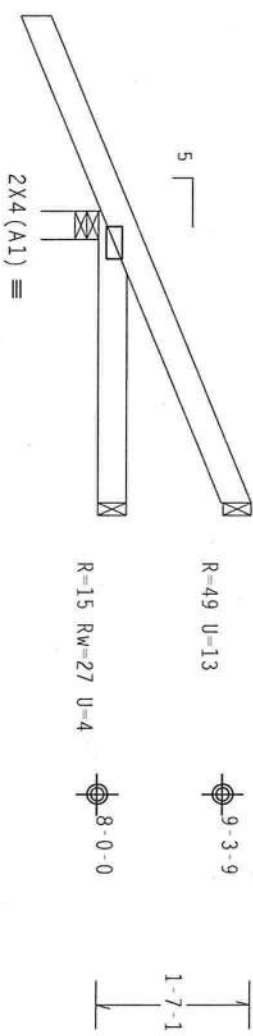
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Wind reactions based on MWFRS pressures.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.36.0424

QTY:1

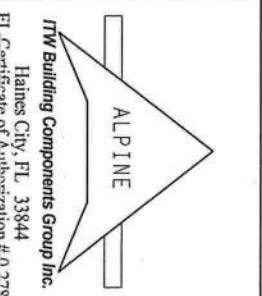
FL/-/4/-/-/R/-

Scale = .5"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6005 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA AND TPI, ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (4045/75) ASH/ABS GRADE 40/60 (4, K70, S5) GALV. STEEL. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (4045/75) ASH/ABS GRADE 40/60 (4, K70, S5) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY THE DESIGNER. THE DESIGNER IS RESPONSIBLE FOR THE TRUSS COMPONENTS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE TRUSS COMPONENTS BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

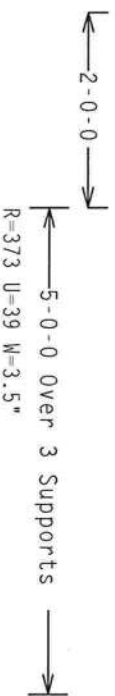


ITW Building Components Group Inc.
Haines City, FL 33844
FL Certificate of Authorization #03798

TC LL	20.0 PSF	REF	R8228 - 4069
TC DL	10.0 PSF	DATE	05/09/08
BC DL	10.0 PSF	DRW	HCUSR8228 08130005
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEQN-	86823
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1THD8228Z01

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 GCp1(+/-)=0.18

Wind reactions based on MWFRS pressures.



Scale = .5" / Ft.

REF	R8228- 4070
DATE	05/09/08

Haines City, FL 33844
 Certificate of Authorization #0027

REF	R8228 - 4070
DATE	05/09/08
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SEQN-	86827
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JREF -	1THD8228201

Data entry by: MT Date: 05 08 08

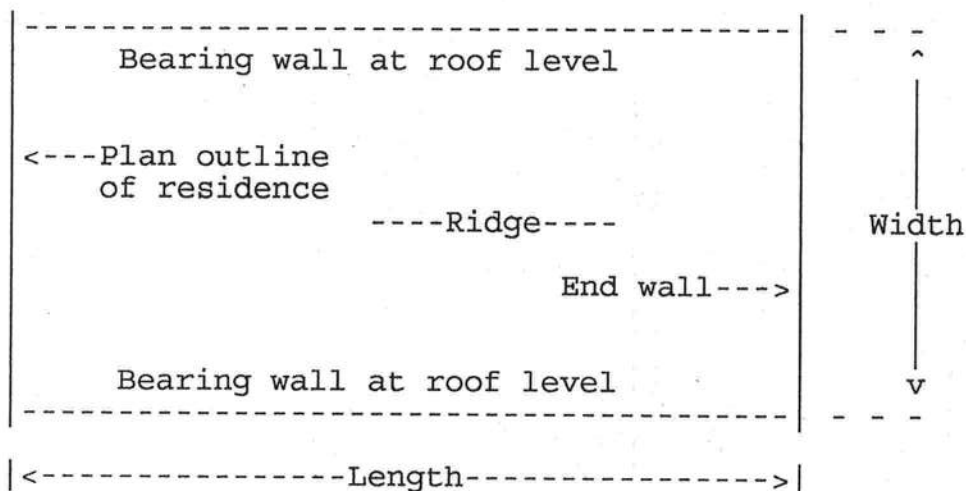
Project name: HOYLE
Location : COLUMBIA COUNTY

R E S I D E N T I A L W I N D D E S I G N A N D A N A L Y S I S

A product of EDA Software, Inc.
Based on the Standard Building Code, 1994 edition

**** GENERAL INPUT DATA ****

Permanent construction
Simple rectangular building



Length along bearing walls out to out of studs = 28 feet
Width along end walls out to out of studs = 20 feet
Roof overhang in long direction from outer face of stud = 2 feet generally
Roof overhang at short end wall from outer face of stud = 2 feet generally
Height of exterior wall to top of plate on long side = 8 feet constant
Roof cross slope = 5 /12

Wind velocity = 110 mph

**** DEGREE OF ENCLOSURE ****

Assume that this building is an 'Enclosed building' per Code 1606.2.3.

[Handwritten Signature]
AK000 1005 10 June 2K8

**** STRUCTURAL FRAMING INPUT DATA ****

*** Roof Structural Data ***

Member number 1
 Jack truss--hip-ended roof
 Span length out to out of supports = 28 feet
 Roof cross slope = 5 /12
 Truss spacing = 24 inches
 Overhang = 2 feet

*** Wall Structural Data ***

Spacing of wall studs = 16 inches
 Total number of plates = 3
 Wall stud number 1 is 8 feet high out to out of plates

COEFFICIENTS AND PRESSURES
 Main Wind Force Resisting Systems

Actual pressure = Velocity pressure x Use factor x Coefficient
 Wind velocity is 110 mph
 Mean roof height is 10.44444 feet
 Velocity pressure is 24.7 psf
 Use factor is 1.0
 Roof cross slope is 5 on 12, which equals 22.61987 degrees to horizontal
 End zone width is 6 feet

	Coefficient	Design Pressure (psf)

End zone		
Windward wall (1E)	.7	17.29
Windward roof (2E)	-1	-24.7
Leeward roof (3E)	-1	-24.7
Leeward wall (4E)	-.95	-23.47
Overhang	-1.5	-37.06
Interior zone		
Windward wall (1)	.4	9.88
Windward roof (2)	-.75	-18.53
Leeward roof (3)	-.75	-18.53
Leeward wall (4)	-.7	-17.3
Overhang	-1.5	-37.06
=====		

ROOF LOADING--Roof Number 1 (pounds per square foot)

Roof cross slope = 5 inches per foot

Fiberglass shingles 240 # per square and 1 layer of 30 # felt = 2.7
No insulation
7/16 in. roof sheathing = 1.31

Total roof unit weight on slope = 4.01
Cosine of roof cross slope = .9230769

Roof unit weight on horizontal = 4.344167
2 in. x 4 in. wood trusses at 24 in. spacing = 2.193387
1 layer of 1/2 in. gypsum board ceiling--plain = 2
Ceiling insulation R-30 = .5
Air-conditioning ductwork = 1
Full lighting = .3
Miscellaneous = 0
=====

Total = 10.33755

Roof Unit Dead Load = 11 psf

Roof dead load supported generally by wall = 114.8755 plf

ROOF LOADING--Roof Number 2 (pounds per square foot)

Roof cross slope = 5 inches per foot

Fiberglass shingles 240 # per square and 1 layer of 30 # felt = 2.7
No insulation
7/16 in. roof sheathing = 1.31

Total roof unit weight on slope = 4.01
Cosine of roof cross slope = .9230769

Roof unit weight on horizontal = 4.344167
2 in. x 4 in. wood trusses at 24 in. spacing = 2.193387
1 layer of 1/2 in. gypsum board ceiling--plain = 2
Ceiling insulation R-30 = .5
Air-conditioning ductwork = 1
Full lighting = .3
Miscellaneous = 0
=====

Total = 10.33755

Roof Unit Dead Load = 11 psf

Roof dead load supported generally by wall = 114.8755 plf

ROOF MEMBER DEAD LOAD REACTIONS AT BEARINGS

All values are in pounds

Roof member number 1	--Span 28 feet, Slope 5 /12, interior zone----	312
Roof member number 2	--Span 28 feet, Slope 5 /12, end zone-----	312

EXTERIOR WALL LOADING (pounds per linear foot)

Wood frame wall-- 8 ft. out to out plates

3--2 in. x 4 in. plates	= 2.865625
2 in. x 4 in. studs at 16 in. spacing	= 5.462598
R-13 Insulation	= 1.90625
Vinyl siding	= 4
1/2 in. Gypsum board--Total 1 layer---	= 16
=====	
Total	= 30.23447

Exterior Wall Unit Dead Load = 31 plf

ROOF LOADING--Roof Number 1 (pounds per square foot)

Roof cross slope = 5 inches per foot

Fiberglass shingles 240 # per square and 1 layer of 30 # felt	= 2.7
No insulation	
7/16 in. roof sheathing	= 1.31

Total roof unit weight on slope	= 4.01
Cosine of roof cross slope	= .9230769

Roof unit weight on horizontal	= 4.344167
2 in. x 4 in. wood trusses at 24 in. spacing	= 2.193387
1 layer of 1/2 in. gypsum board ceiling--plain	= 2
Ceiling insulation R-30	= .5
Air-conditioning ductwork	= 1
Full lighting	= .3
Miscellaneous	= 0
=====	
Total	= 10.33755

Roof Unit Dead Load = 11 psf

Roof dead load supported generally by wall = 114.8755 plf

ROOF LOADING--Roof Number 2 (pounds per square foot)

Roof cross slope = 5 inches per foot

Fiberglass shingles 240 # per square and 1 layer of 30 # felt	= 2.7
No insulation	
7/16 in. roof sheathing	= 1.31

Total roof unit weight on slope	= 4.01
Cosine of roof cross slope	= .9230769

Roof unit weight on horizontal	= 4.344167
2 in. x 4 in. wood trusses at 24 in. spacing	= 2.193387
1 layer of 1/2 in. gypsum board ceiling--plain	= 2
Ceiling insulation R-30	= .5
Air-conditioning ductwork	= 1
Full lighting	= .3
Miscellaneous	= 0
=====	
Total	= 10.33755

Roof Unit Dead Load = 11 psf

Roof dead load supported generally by wall = 114.8755 plf

S U M M A R Y O F H U R R I C A N E A N C H O R A N A L Y S I S

All values of forces are in pounds. Resistances have been increased for wind.
End zone width = 6 feet

Code: C = Compliance

N = Non-compliance

Simpson hurricane anchors

Member 1 --Hip roof--Span 28 feet, at 24 inches oc--in interior zone:

Uplift = 934 Dead = 312 Net = 622 Model Special, Resistance = 1205 C

Model H16--all nails installed per manufacturers catalog

Data supplied by operator--not from EDA database

Member 2 --Hip roof--Span 28 feet, at 24 inches oc--in end zone:

Uplift = 934 Dead = 312 Net = 622 Model Special, Resistance = 1205 C

Model H16--all nails installed per manufacturers catalog

Data supplied by operator--not from EDA database

**** ANALYSIS OF ROOF SHEATHING AS SHEAR DIAPHRAGM TRANSVERSE ****
Shear analysis applies along supporting shearwalls.

Roof trusses are Southern Pine lumber, spaced at 24 inches
Sheathing is Oriented Strand Board, 7/16 inch thick
Sheathing has no intermediate blocking
Fasteners on panel ends are 8d nails spaced at 4 inches
Fasteners in panel interior are 8d nails spaced at 8 inches

Total lateral wind force on building = 6954 pounds
Total force transferred through diaphragm to shearwalls = 3477 pounds
Total length of shearwalls = 40 feet
MINIMUM REQUIRED TOTAL SHEARWALL LENGTH = 11 FT.--LOCATE EVENLY THROUGHOUT

Actual diaphragm force per unit length of shearwall = 86 plf
Allowable diaphragm force per unit length of shearwall = 314 plf

*** Summary of Analysis ***

Roof sheathing diaphragm satisfies Code requirements.

**** ANALYSIS OF ROOF SHEATHING AS SHEAR DIAPHRAGM LONGITUDINAL ****
Shear analysis applies along supporting shearwalls.

Roof trusses are Southern Pine lumber, spaced at 24 inches
Sheathing is Oriented Strand Board, 7/16 inch thick
Sheathing has no intermediate blocking
Fasteners on panel ends are 8d nails spaced at 4 inches
Fasteners in panel interior are 8d nails spaced at 8 inches

Total lateral wind force on building = 3866 pounds
Total force transferred through diaphragm to shearwalls = 1933 pounds
Total length of shearwalls = 56 feet
MINIMUM REQUIRED TOTAL SHEARWALL LENGTH = 6.1 FT.--LOCATE EVENLY THROUGHOUT

Actual diaphragm force per unit length of shearwall = 34 plf
Allowable diaphragm force per unit length of shearwall = 314 plf

*** Summary of Analysis ***

Roof sheathing diaphragm satisfies Code requirements.

**** ANALYSIS OF ROOF SHEATHING FOR FASTENER WITHDRAWAL ****

Interior zone (area Ri)

Roof trusses are Southern Pine lumber, spaced at 24 inches

Sheathing is 7/16 inch with no intermediate blocking

Size of sheathing is 48 inches by 96 inches

Fasteners along end trusses are 8d nails spaced at 4 inches

Fasteners along int. trusses are 8d nails spaced at 8 inches

Total outward wind force on sheathing = 810 pounds

Total withdrawal resistance of 47 nails = 3569 pounds (increased for wind)

Fastening of roof sheathing satisfies Code requirements.

Edge strip (area Si) width = 3 feet

Roof trusses are Southern Pine lumber, spaced at 24 inches

Sheathing is 7/16 inch with no intermediate blocking

Size of sheathing is 48 inches by 96 inches

Fasteners along end trusses are 8d nails spaced at 4 inches

Fasteners along int. trusses are 8d nails spaced at 8 inches

Total outward wind force on sheathing = 1255 pounds

Total withdrawal resistance of 47 nails = 3569 pounds (increased for wind)

Fastening of roof sheathing satisfies Code requirements.

End zone (areas Se and C) width = 6 feet

Roof trusses are Southern Pine lumber, spaced at 24 inches

Sheathing is 7/16 inch with no intermediate blocking

Size of sheathing is 48 inches by 96 inches

Fasteners along end truss are 8d nails spaced at 4 inches

Fasteners along end wall are 8d nails spaced at 4 inches

Fasteners along int. trusses are 8d nails spaced at 8 inches

Total outward wind force on sheathing = 1731 pounds

Total withdrawal resistance of 47 nails = 3569 pounds (increased for wind)

Fastening of roof sheathing satisfies Code requirements.

**** ANALYSIS OF WALL STUDS ****

*** Analysis of Wall Stud Number 1 ***

2 in. x 4 in. single studs at 16 in. spacing
Stud height is 7.625 feet--located in interior zone
Top of studs is laterally supported by ceiling diaphragm or other method
Spruce--Pine--Fir lumber---Number 1--Number 2 grade
Sheathing is inch rated OSB, span rating 24/16

Cross-sectional area = 5.25 sq.in.
Moment of inertia = 5.359375 in.^4
Section Modulus = 3.0625 in.^3
Elastic modulus of wood stud = 1400000 in.^2

Total outward force on stud = 325 pounds
Stud moment = 309 ft-lb.

Stresses:

Stud bending vert : Actual = 1213 psi Allowable = 2415 psi (adjusted)
Stud shear : Actual = 42 psi Allowable = 112 psi (adjusted)
Stud tensile : Actual = 44 psi Allowable = 1020 psi (adjusted)
Interaction bending and tension actual/allowable stress ratio total = .5454147
Sheathing bending hor: Actual = 178 psi Allowable = 222 psi (adjusted)

Deflections:

Stud : Actual = .27 in. Allowable = .5083 in.

*** Summary of Analysis ***

Wall structure satisfies all Code requirements.

**** ANALYSIS OF WALL STUDS ****

*** Analysis of Wall Stud Number 2 ***

2 in. x 4 in. single studs at 16 in. spacing
Stud height is 7.625 feet--located in end zone
Top of studs is laterally supported by ceiling diaphragm or other method
Spruce--Pine--Fir lumber----Number 1--Number 2 grade
Sheathing is inch rated OSB, span rating 24/16

Cross-sectional area = 5.25 sq.in.
Moment of inertia = 5.359375 in.^4
Section Modulus = 3.0625 in.^3
Elastic modulus of wood stud = 1400000 in.^2

Total outward force on stud = 374 pounds
Stud moment = 356 ft-lb.

Stresses:

Stud bending vert : Actual = 1396 psi Allowable = 2415 psi (adjusted)
Stud shear : Actual = 49 psi Allowable = 112 psi (adjusted)
Stud tensile : Actual = 44 psi Allowable = 1020 psi (adjusted)
Interaction bending and tension actual/allowable stress ratio total = .6211911
Sheathing bending hor: Actual = 205 psi Allowable = 222 psi (adjusted)

Deflections:

Stud : Actual = .3107 in. Allowable = .5083 in.

*** Summary of Analysis ***

Wall structure satisfies all Code requirements.

**** ALLOWABLE STRESS PROPERTIES ****

Base stresses (psi):

Wood:

Bending = 875
Tension = 425
Shear = 70
Elastic modulus = 1400000

Adjustment factors for wood:

Duration (Du) = 1.6
Wet service (Wt) = 1
Temperature (Tm) = 1
Stability (St) = 1
Size (Sz) = 1.5
Volume (Vm) = 1
Flat use (Fu) = 1
Repetitive (Rp) = 1.15
Curvature (Cu) = 1
Form (Fm) = 1
Shear stress (Sh) = 1

Allowable stresses (psi):

Wood:

Bending = 2415 (Base x Du x Wt x Tm x St x Sz x Vm x Fu x Rp x Cu x Fm)
Tension = 1020 (Base x Du x Wt x Tm x Sz)
Shear = 112 (Base x Du x Wt x Tm x Sh)
Elastic modulus = 2240000 (Base x Wt x Tm)

Sheathing:

Bending = 222 (Base x 1.33)
Elastic modulus = 61904.76 (Base)

TRANSVERSE DRAGSTRUT NAIL ANALYSIS

Wall framing is 2 in. x 4 in. studs

Wall stud framing lumber is Spruce--Pine--Fir

Fasteners are 16d common nails

Approximate nail spacing = 16 inches

Total lateral force on building = 6954 pounds

Force applied at top of walls = 3477 pounds

Total dragstrut length = 40 feet

Shear per unit dragstrut length = 86 pounds per linear foot

Actual shear on each nail = 114 pounds

Allowable shear on each nail = 192 pounds

Dragstrut nailing satisfies Code requirements.

LONGITUDINAL DRAGSTRUT NAIL ANALYSIS

Wall framing is 2 in. x 4 in. studs

Wall stud framing lumber is Spruce--Pine--Fir

Fasteners are 16d common nails

Approximate nail spacing = 16 inches

Total lateral force on building = 3866 pounds

Force applied at top of walls = 1933 pounds

Total dragstrut length = 56 feet

Shear per unit dragstrut length = 34 pounds per linear foot

Actual shear on each nail = 45 pounds

Allowable shear on each nail = 192 pounds

Dragstrut nailing satisfies Code requirements.

**** TRANSVERSE SHEARWALL ANALYSIS ****

Wall framing is 2 in. x 4 in. studs at 16 inch spacing
Wall stud framing lumber is Spruce--Pine--Fir
Wall shear siding is Oriented Strand Board -- 7/16 inch thick
Wall sheathing has all edges nailed
Fasteners: 8d common nails spaced along edges at 4 inch centers
Fasteners: 8d common nails spaced in interior at 8 inch centers

Total lateral force on building = 6954 pounds
Force applied at top of walls = 3477 pounds
Accumulated total shearwall length = 40 feet

Actual unit shear on shearwalls = 86 pounds per linear foot
Allowable unit shear on shearwalls = 322 pounds per linear foot

Shearwall satisfies Code requirements.

**** LONGITUDINAL SHEARWALL ANALYSIS ****

Wall framing is 2 in. x 4 in. studs at 16 inch spacing
Wall stud framing lumber is Spruce--Pine--Fir
Wall shear siding is Oriented Strand Board -- 7/16 inch thick
Wall sheathing has all edges nailed
Fasteners: 8d common nails spaced along edges at 4 inch centers
Fasteners: 8d common nails spaced in interior at 8 inch centers

Total lateral force on building = 3866 pounds
Force applied at top of walls = 1933 pounds
Accumulated total shearwall length = 56 feet

Actual unit shear on shearwalls = 34 pounds per linear foot
Allowable unit shear on shearwalls = 322 pounds per linear foot

Shearwall satisfies Code requirements.

*** ANALYSIS OF OUTWARD FORCES ON WALL SHEATHING ***

Wall number 1 : Total outward wind force on sheathing = 975 pounds
 : Total withdrawal resistance of 92 nails = 5133 pounds

Wall number 2 : Total outward wind force on sheathing = 1122 pounds
 : Total withdrawal resistance of 92 nails = 5133 pounds

**** ANALYSIS OF SHEATHING FASTENERS ****

Wall framing is Spruce--Pine--Fir lumber
Sheathing is 7/16 inch Oriented Strand Board
Sheathing extends from bottom of bottom plate to top of top plate
Fasteners are 8d common nails at 4 inch spacing

Total uniform wind uplift in first story at top of wall level = 289 plf

Uniform dead loads per linear foot:

Roof = 114.8755 plf

Total = 114.8755 plf

Total uniform dead load in first story at top of wall level = 114 plf

Net wind uplift in first story at top of wall level = 175 plf

Total uplift force on each nail = 58 pounds

Allowable shear on each nail = 97 pounds (increased for wind)

Sheathing to plate fastening satisfies all Code requirements.

**** ANALYSIS OF SHEATHING FASTENERS ****

Wall framing is Spruce--Pine--Fir lumber
Sheathing is 7/16 inch Oriented Strand Board
Sheathing extends from bottom of bottom plate to top of top plate
Fasteners are 8d common nails at 4 inch spacing

Total uniform wind uplift in first story at floor level = 289 plf

Uniform dead loads per linear foot:

Roof = 114.8755 plf

Wall = 30.23447 plf

Total = 145.11 plf

Total uniform dead load in first story at floor level = 145 plf

Net wind uplift in first story at floor level = 144 plf

Total uplift force on each nail = 48 pounds

Allowable shear on each nail = 97 pounds (increased for wind)

Sheathing to plate fastening satisfies all Code requirements.

**** ANALYSIS OF FOUNDATION ANCHORAGE ****

Anchor bolts are 1/2 inch A307, with 2 inch round washer at 48 inch centers.

Total uniform wind uplift on foundation = 289 pounds per linear foot

Uniform dead loads in pounds per linear foot:

Roof = 114.8755 plf

Wall = 30.23447 plf

Total = 145.11 plf

Total uniform dead load times 2/3 = 96 pounds per linear foot

Net uplift force on foundation = 193 pounds per linear foot

Total uplift force on each anchor bolt = 772 pounds

Safe tension value of each anchor bolt = 1634 pounds (increased by 1/3)

Bolt safe tension value is governed by washer failure

*** Summary of Analysis ***

Foundation anchorage satisfies all Code requirements.

**** ANALYSIS OF CORNER HOLD-DOWN REQUIREMENTS ****

Hold-down is one typical anchor bolt with washer, each wall

Normal anchor bolt spacing = 48 inches

Distance from corner to hold-down device = 6 inches

Distance from corner to first interior anchor bolt = 48 inches

Net uplift force on foundation = 193 pounds per linear foot

Tributary distance to corner device = 2.25 feet

Net uplift on corner hold-down device = 434 pounds

Uplift tension due to shearwall action in a transverse shearwall segment:

Distance from corner to hold-down device = 6 inches

Distance from corner to first interior anchor bolt = 48 inches

Total shear from shearwall segment = 304 pounds

Height of wall = 8 feet

Uniform dead load times 2/3 = 20 pounds per linear foot

Shearwall moment at bottom of wall = 2433 foot-pounds

Additional tension at corner device = 1007 pounds

Total uplift tension on corner hold-down devices = 1441 pounds

Allowable tension on corner hold-down devices = 3268 pounds

*** Summary of Analysis ***

Corner hold-down device COMPLIES with Code requirements.

**** ANALYSIS OF FOUNDATION ****

Footing is a turndown slab
Footing is 12 inches wide by 12 inches deep

Total uniform wind uplift on foundation = 289 pounds per linear foot

Uniform dead loads in pounds per linear foot:

Roof = 114.8755 plf

Wall = 30.23447 plf

Total = 145.11 plf

Total uniform dead load times 2/3 = 96 pounds per linear foot

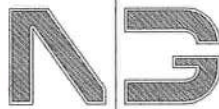
Net uplift force at top of foundation = 193 pounds per linear foot

Weight of slab turndown footing x 2/3 = 96 pounds per linear foot

Net uplift at bottom of footing = 97 pounds per linear foot

*** Summary of Analysis ***

Foundation is stable. Net uplift is resisted by slab shear.



**NICHOLAS
PAUL
GEISLER**
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

FLORIDA BUILDING CODE SECTION 1609

COMPLIANCE SUMMARY

PROJECT: HOYLEI RESIDENCE, COLUMBIA COUNTY, FL (110 WIND ZONE)

TYPE OF CONSTRUCTION

ROOF: Hip Construction, Wood Trusses @ 24" O.C., SYP
WALLS: 2x4 Wood Studs @ 16" O.C.
FLOOR: 4" Thk. Conc. Slab, w/ Fibermesh concrete additive
FOUNDATION: Continuous Monolithic Footer
EDGE STRIP: 3.0 ft. END ZONE: 6.0 ft.

ROOF DECKING

MATERIAL: 7/16" O.S.B.
SHEET SIZE: 48"x96" Sheets Placed Perpendicular to Roof Framing
FASTENERS: 8d Common Nails @ 4" O.C. Ends, 8" O.C. Interior

SHEAR WALLS

MATERIAL: 7/16" O.S.B. "WindStorm Sheathing"
SHEET SIZE: 48"x97" Sheets Placed Vertical
FASTENERS: 8d Common Nails @ 4" O.C. Edges, 8" O.C. Interior
DRAGSTRUT: DbL Top Plate Nailed w/ 16d Nails @ 16" O.C.
WALL STUDS: S-P-F Nr. 2 and better, 2x4 Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS

TRUSS CLIPS: "Simpson" H16
WALL TENSION: 7/16" OSB. w/ 8d Common Nails @ 4" O.C. Edges,
8" O.C. Interior for all exterior non-shear walls
HOLD-DOWN CONNECTORS: A307 Bolts, within 6" of corners
WALL SILL: 1/2" x 10" A.B., w/ 2" washers @ 48" o.c., 7" embedment
CORNER HOLD-DOWN DEVICE: One Typical Anchor Bolt w/ Washer

FOOTINGS AND FOUNDATIONS

HOUSE FOOTINGS: 12"x18" Continuous, Mono. w/ 2 - #5 Rebars, Bottom
CONCRETE: Fb = 2500 p.s.i. or greater

PREPARER'S CERTIFICATION

I hereby certify that the attached Wind Load Design and Analysis
calculations are in compliance with the 2004 Florida Building Code,
Section 1609, to the best of my knowledge and belief.


Nicholas Paul Geisler, Architect AR0007005

Date: 10 Jun 2008