

DATE 04/14/2009

# Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000027742

APPLICANT BECKY DUGAN PHONE 752-8653  
 ADDRESS P.O. BOX 815 LAKE CITY FL 32056  
 OWNER GREG & KIM HOUSTON PHONE 755-5691  
 ADDRESS 2149 SW SR 47 LAKE CITY FL 32025  
 CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 47S, PAST BINGO STATION, TL AT DAYLILIES SIGN, HOUSE TO BACK OF PROPERTY

TYPE DEVELOPMENT ADDITION TO SFD ESTIMATED COST OF CONSTRUCTION 69500.00

HEATED FLOOR AREA 1390.00 TOTAL AREA 1390.00 HEIGHT        STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB

LAND USE & ZONING RSF-1 MAX. HEIGHT       

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.       

PARCEL ID 18-4S-17-08451-003 SUBDIVISION       

LOT        BLOCK        PHASE        UNIT        TOTAL ACRES 1.00

              CBC054575       

Culvert Permit No.        Culvert Waiver        Contractor's License Number        Applicant/Owner/Contractor Becky Dugan

EXISTING        09-126 BK WR N

Driveway Connection        Septic Tank Number        LU & Zoning checked by        Approved for Issuance        New Resident       

COMMENTS: NOC ON FILE

Check # or Cash 6604

## 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        Insulation         
date/app. by        date/app. by       

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

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

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

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

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

BUILDING PERMIT FEE \$ 350.00 CERTIFICATION FEE \$ 6.95 SURCHARGE FEE \$ 6.95

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** 438.90

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 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.**

27742

# Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 536 SE Baya Dr.

City: Lake City Phone: 757-1703

Site Location: Subdivision \_\_\_\_\_

Lot # \_\_\_\_\_ Block# \_\_\_\_\_ Permit # \_\_\_\_\_

Address: 2149 SW SR 47

| <u>Product used</u>                         | <u>Active Ingredient</u>         | <u>% Concentration</u> |
|---------------------------------------------|----------------------------------|------------------------|
| <input checked="" type="checkbox"/> Premise | Imidacloprid                     | 0.1%                   |
| <input type="checkbox"/> Termidor           | Fipronil                         | 0.12%                  |
| <input type="checkbox"/> Bora-Care          | Disodium Octaborate Tetrahydrate | 23.0%                  |

Type treatment:  Soil  Wood

| <u>Area Treated</u>     | <u>Square feet</u> | <u>Linear feet</u> | <u>Gallons Applied</u> |
|-------------------------|--------------------|--------------------|------------------------|
| <u>2 back solutions</u> | <u>1380</u>        | <u>208</u>         | <u>220</u>             |
| _____                   | _____              | _____              | _____                  |
| _____                   | _____              | _____              | _____                  |

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 \_\_\_\_\_.

4-27-09      7:34      F082 B.H.  
 Date                      Time                      Print Technician's Name

Remarks: \_\_\_\_\_

CK# 6604

Columbia County Building Permit Application

For Office Use Only Application # 0903-42 Date Received 3/24/09 By GP Permit # 27742  
Zoning Official BLK Date 08.04.09 Flood Zone X Land Use RES Very Low Zoning RSF-1  
FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner (WR) Date 4/7/09

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

Septic Permit No. 09-0126 Fax 758-8920

Name Authorized Person Signing Permit Bryan Zecker / Becky Dwyer Phone 752-8653

Address PO Box 815 Lake City, FL 32056

Owners Name Greg and Kim Houston Phone 155-5691

911 Address 2149 SW SR 47 Lake City, FL 32025

Contractors Name Bryan Zecker Construction, Inc Phone 752-8653

Address PO Box 815 Lake City, FL 32056

Fee Simple Owner Name & Address \_\_\_\_\_

Bonding Co. Name & Address \_\_\_\_\_

Architect/Engineer Name & Address Tim DeBene / Mark Disasway

Mortgage Lenders Name & Address First Federal Savings Bank 755-0600

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

Property ID Number 18-43-17-08451-003 Estimated Cost of Construction \$215,000-

Subdivision Name \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions From Hwy 90, go south on Hwy 41 to SR 47. Go south on SR 47 about 2 miles - have to U-turn back North to turn Right onto drive at Daylilies sign. Home is at back of property  
Number of Existing Dwellings on Property 1

Construction of addition to existing home Total Acreage 1ac Lot Size \_\_\_\_\_

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 20'

Actual Distance of Structure from Property Lines - Front 50' Side 50' Side 110' Rear 90'

Number of Stories 1 Heated Floor Area 1390 Total Floor Area 1390 Roof Pitch 8/12

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.

Columbia County Building Permit Application

**TIME LIMITATIONS 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.

**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.

**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.

**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.

Greg Houston  
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.

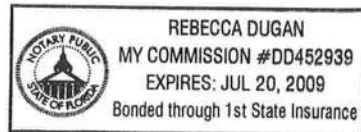
[Signature]  
Contractor's Signature (Permittee)

Contractor's License Number CB054575  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 24<sup>th</sup> day of March 2009.  
Personally known  or Produced Identification \_\_\_\_\_

Rebecca Dugan  
State of Florida Notary Signature (For the Contractor)

SEAL:



**FAX  
MEMORANDUM**

**MEMORANDUM**

**FLORIDA DEPARTMENT OF TRANSPORTATION**

**To:** Mr. John Kerce, Dept. Director  
Columbia Co. Building & Zoning Dept.  
**Fax No: 386-758-2160**

**From:** Dale L. Cray, FDOT Permits Insp.  
**Date:** 4-09-2009 **Fax No. 386-961-7183**  
**Attention:** Col Co. Building Zoning Dept.

Sign and return.  For your files.  Please call me.  FYI  For Review

**REF: Ex Res Driveway**

**PROJECT: Kim D. & Greg I. Houston**

**PARCEL ID No: 18-45-17-08451-003 Permit No : N/A Sec No : 29020**

**MILE POST: N/A**

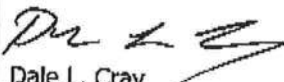
**Mr. Kerce**

Please accept this as our legal notice of final passing inspection for (Kim D. & Greg I. Houston) for an existing residential driveway. The project addresses 2149 SW SR 47 Lake City, Fl.32025.

The existing Access has been inspected and (Approved) and, meets FDOT Standard Requirements for the remodeling of an home for Greg Houston .

If further information is required on this project please do not hesitate to contact this office for additional access permitting information details. My office number is 961-7193 or 961-7146.

Sincerely,



Dale L. Cray  
Access Permits Inspector

174  
09-50

THIS INSTRUMENT WAS PREPARED BY:  
FIRST FEDERAL BANK OF FLORIDA  
4705 WEST U.S. HIGHWAY 90  
P.O. BOX 2029  
LAKE CITY, FLORIDA 32056

REC. 10-28  
Cert Copy 4.00

PERMIT NO. \_\_\_\_\_

TAX FOLIO NO. R08451-003

NOTICE OF COMMENCEMENT

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Inst: 200912005001 Date: 3/30/2009 Time: 8:23 AM  
29 DC, P. DeWitt Cason, Columbia County Page 1 of 2 B:1170 P:87

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

- Description of property: AS DESCRIBED ON EXHIBIT "A" ATTACHED HERETO
- General description of Improvement: Construction of Dwelling (Addition)
- Owner information:
  - Name and address: GREGORY IVERSON HOUSTON and KIMBERLY DAWN HOUSTON, husband and wife, 2149 SW State Road 47, Lake City, Florida 32025.
  - Interest in property: Fee Simple
  - Name and address of fee simple title holder (if other than Owner): NONE
- Contractor (name and address): BRYAN ZECHER CONSTRUCTION, Post Office Box 815, Lake City, Florida 32056
  - Contractor's phone number: 386-752-8653
- Surety:
  - Name and address: None
  - Phone Number: \_\_\_\_\_
  - Amount of bond: \_\_\_\_\_
- Lender: FIRST FEDERAL BANK OF FLORIDA  
4705 WEST U.S. HIGHWAY 90  
P. O. BOX 2029  
LAKE CITY, FLORIDA 32056  
(386) 755-8600
- Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1)(a) 7., Florida Statutes: NONE
- In addition to himself, Owner designates PAULA HACKER of FIRST FEDERAL BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32026 to receive a copy of the Lender's Notice as provided in Section 713.13 (1)(b), Florida Statutes.
- Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

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 WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Gregory J. Houston  
Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager

Kimberly D. Houston  
Signatory's Title/Office

GREGORY IVERSON HOUSTON & KIMBERLY

The foregoing instrument was acknowledged before me this 23rd day of March, 2009 by DAWN HOUSTON, husband & wife, (name of person) as \_\_\_\_\_ (type of authority, e.g. officer, trustee, attorney in fact) for: \_\_\_\_\_ (name of party on behalf of whom instrument was executed).

Terry McDavid  
Signature of Notary Public - State of Florida

Print, Type, or Stamp Commission Number: \_\_\_\_\_  
Public Commission Number: \_\_\_\_\_  
Personally Known \_\_\_\_\_  
Identification \_\_\_\_\_



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.

Gregory J. Houston  
Signature of Natural Person Signing Above

Kimberly D. Houston

STATE OF FLORIDA, COUNTY OF COLUMBIA  
I HEREBY CERTIFY that the above and foregoing is a true copy of the original filed in this office.  
P. DeWITT CASON, CLERK OF COURTS

By: Sharon J. J...  
Deputy Clerk

Date: 03-30-2009



EXHIBIT "A"TOWNSHIP 4 SOUTH - RANGE 17 EAST

SECTION 18: Commence at the Southeast corner of Section 18, Township 4 South, Range 17 East, Columbia County, Florida, and run thence N 01°09'00"W, along the East Line of said Section 18, 1417.87 feet; thence S 88°30'00"W, 577.00 feet; thence N 00°05'00"E, 1949.50 feet to the POINT OF BEGINNING; thence continue N 00°05'00"E, 210.00 feet; thence S 88°16'00"W, 210.00 feet; thence S 00°05'00"W, 210.00 feet; thence N 88°16'00"E, 210.00 feet to the POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS DESCRIBED AS FOLLOWS:

A strip of land 20 feet in width being 20 feet to the right of a line described as follows: Commence at the Southeast corner of Section 18, Township 4 South, Range 17 East, Columbia County, Florida and run thence N 01°09'00"W, along the East Line of said Section 18, 1417.87 feet; thence S 88°30'00"W, 577.00 feet; thence N 00°05'00"E, 1949.50 feet to the POINT OF BEGINNING; thence S 00°05'00"W, 481.00 feet; thence S 88°17'00"W, 1851.41 feet to the East Right-of-Way Line of State Road No. 47 and to the Point of Termination of said line.

BK 0848 PG2037

THIS INSTRUMENT WAS PREPARED BY  
TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

OFFICIAL RECORDS

97-16637

FILED AND RECORDED IN PUBLIC  
RECORDS OF COLUMBIA COUNTY, FL

1997 NOV 14 PM 3:16

RETURN TO:

TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

RECORDED  
P. DeWitt Cason  
CLERK OF COURTS  
COLUMBIA COUNTY, FLORIDA  
BY: *[Signature]* J.C.

Grantee #1 S.S. No. 592-24-7575  
Grantee #2 S.S. No. 693-58-7339

Documentary Stamp .70  
Intangible Tax  
P. DeWitt Cason  
Clerk of Court  
By: *[Signature]* J.C.

Property Appraiser's  
Identification Number  
18-4s- [REDACTED] (Parent)

### WARRANTY DEED

THIS INDENTURE, made this 13th day of November, 1997, BETWEEN OTTIS HOUSTON and MARY ANNE HOUSTON, Husband and Wife whose post office address is Route 10 Box 841, Lake City, Florida 32025, of the County of Columbia, State of Florida, grantor\*, and GREGORY IVERSON HOUSTON and KIMBERLY DAWN WARD, as joint tenants with right of survivorship, whose post office address is Route 13 Box 838 D, Lake City, Florida 32055, of the County of Columbia, State of Florida, grantee\*.

WITNESSETH: that said grantor, for and in consideration of LOVE AND AFFECTION, and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

#### TOWNSHIP 4 SOUTH - RANGE 17 EAST

SECTION 18: Commence at the Southeast corner of Section 18, Township 4 South, Range 17 East, Columbia County, Florida and run thence N 01°09' W along the East line of said Section 18, 1417.87 feet, thence S 88°30' W 577.00 feet, thence N 00°05' E, 1949.50 feet to the POINT OF BEGINNING, thence continue N 00°05' E, 210.00 feet, thence S 88°16' W, 210.00 feet, thence S 00°05' W 210.00 feet, thence N 88°16' E, 210.00 feet to the POINT OF BEGINNING.

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS DESCRIBED AS FOLLOWS:

A strip of land 20 feet in width being 20 feet to the right of a line described as follows: Commence at the Southeast corner of Section 18, Township 4 South, Range 17 East, Columbia County, Florida and run thence N 01°09' W along the East line of said Section 18, 1417.87 feet, thence S 88°30' W, 577.00 feet, thence N 00°05' E, 1949.50 feet to the POINT OF BEGINNING, thence S 00°05' W, 481.00 feet, thence S 88°17' W, 1851.41 feet to the East right-of-way line of State Road No. 47 and to the point of termination of said line.

SUBJECT TO: Restrictions, easements and outstanding 0048 P62038  
mineral rights of record, if any, and taxes for the  
current year.

OFFICIAL RECORDS

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

\*\*"Grantor" and "grantee" are used for singular or plural, as  
context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand  
and seal the day and year first above written.

Signed, sealed and delivered  
in our presence:

*Terry McDavid*  
(Signature of First Witness)  
Terry McDavid  
(Typed Name of First Witness)

*Lisa C. Ogburn*  
(Signature of Second Witness)  
Lisa C. Ogburn  
(Typed Name of Second Witness)

*Ottis Houston* (SEAL)  
Grantor  
OTTIS HOUSTON  
Printed Name

*Mary Anne Houston* (SEAL)  
Grantor  
MARY ANNE HOUSTON  
Printed Name

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 13th  
day of November, 1997, by OTTIS HOUSTON and MARY ANNE HOUSTON,  
Husband and Wife who are personally known to me or who have  
produced \_\_\_\_\_ as identification and who did not take an  
oath.

My Commission Expires:

*Lisa C. Ogburn*  
Notary Public  
Printed, typed, or stamped name:

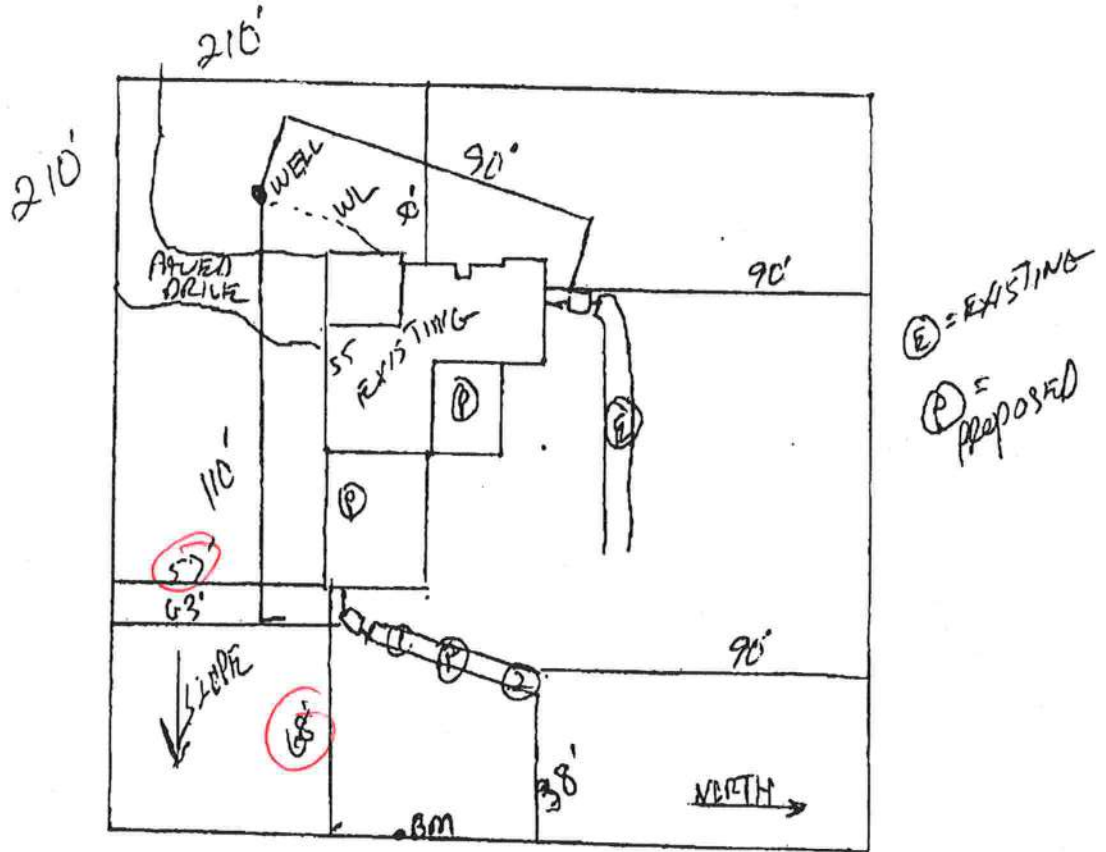


STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 09-0126

PART II - SITEPLAN

Scale: 1 inch = 50 feet.



Notes: \_\_\_\_\_

Site Plan submitted by: APPROVED *[Signature]* **MASTER CONTRACTOR**

Plan Approved APPROVED Not Approved \_\_\_\_\_ Date 3/5/9

By APPROVED *[Signature]* **Columbia CHD** County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



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

PERMIT NO. 09-0126  
913632  
DATE PAID: 5/4/09  
FEE PAID: 310.00  
RECEIPT #: 11021299

APPLICATION FOR:

New System     Existing System     Holding Tank     Innovative  
 Repair     Abandonment     Temporary   

APPLICANT: Houston, Gregory & Kimberly

AGENT: ROCKY FORD, A & B CONSTRUCTION

TELEPHONE: 386-497-2311

MAILING ADDRESS: P.O. BOX 39 FT. WHITE, FL, 32038

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3) (a) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: na BLOCK: na SUB: na PLATTED: \_\_\_\_\_

PROPERTY ID #: 18-4S-17-08451-003 ZONING: \_\_\_\_\_ I/M OR EQUIVALENT:  Y  N

PROPERTY SIZE: 1 ACRES WATER SUPPLY:  PRIVATE PUBLIC  <=2000GPD  >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS?  Y  N DISTANCE TO SEWER: \_\_\_\_\_ FT

PROPERTY ADDRESS: 2149 SW SR 47, Lake City, FL, 32025

DIRECTIONS TO PROPERTY: 47 South, Loop back north before I-10, TR at Day Lilly sign, follow to property in the back

BUILDING INFORMATION

RESIDENTIAL     COMMERCIAL

| Unit No | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC |
|---------|-----------------------|-----------------|--------------------|--------------------------------------------------------------------|
| 1       | SF Residential        | 4               | 3635               | SPLIT SYSTEM SEE ATTACHED                                          |
| 2       |                       |                 |                    | ENGINEER LETTER                                                    |
| 3       |                       |                 |                    |                                                                    |

Floor/Equipment Drains     Other (Specify) \_\_\_\_\_

SIGNATURE: Rocky Ford

DATE: 2/26/2009



STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM  
CONSTRUCTION PERMIT

09-0126

PERMIT NO. 913632  
DATE PAID: 3/4/09  
FEE PAID: 310.00  
RECEIPT #: 1102639

CONSTRUCTION PERMIT FOR:

[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative  
[ ] Repair [ ] Abandonment [ ] Temporary [ ]

APPLICANT: Houston, Gregory & Kimberly

PROPERTY ADDRESS: 2149 SW SR 47, Lake City, FL, 32025

LOT: na BLOCK: na SUBDIVISION: na  
[SECTION, TOWNSHIP, RANGE, PARCEL NUMBER]  
PROPERTY ID #: 18-48-17-08451-003 [OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.

SYSTEM DESIGN AND SPECIFICATIONS

T [900] GALLONS / GPD SEPTIC TANK/AEROBIC UNIT CAPACITY MULTI-CHAMBERED/IN-SERIES [ ]  
A [ ] GALLONS / GPD CAPACITY MULTI-CHAMBERED/IN-SERIES [ ]  
N [ ] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK: 1250 GALLONS]  
K [ ] GALLONS DOSING TANK CAPACITY [ ] GALLONS @ [ ] DOSES PER 24 HRS # PUMPS [ ]

D [334] SQUARE FEET PRIMARY DRAINFIELD SYSTEM  
R [ ] SQUARE FEET SYSTEM  
A TYPE SYSTEM: [ ] STANDARD [X] FILLED [ ] MOUND [ ]  
I CONFIGURATION: [X] TRENCH [ ] BED [ ]

F LOCATION OF BENCHMARK: NAIL IN FENCE POST EAST OF SITE  
I ELEVATION OF PROPOSED SYSTEM SITE [0] [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT  
E BOTTOM OF DRAINFIELD TO BE [12] [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

D FILL REQUIRED: [6] INCHES EXCAVATION REQUIRED: [NA] INCHES

O SPLIT SYSTEM SEE ATTACHED ENGINEER LETTER  
T  
H  
E  
R

SPECIFICATIONS BY: [Signature] TITLE: MASTER CONTRACTOR  
APPROVED BY: [Signature] TITLE: ES I Columbia CHD CHD

DATE ISSUED: 3/5/9 EXPIRATION DATE: 9/5/10  
DH 4016, 10/97 (Previous Editions May Be Used) Page 3

[Handwritten mark]

# New Construction Subterranean Termite Soil Treatment Record

OMB Approval No 2502-0525

(exp. 10/31/2005)

## This form is completed by the licensed Pest Control Company

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

### Section 1: General information (Treating Company information)

Company Name: Florida Pest Control & Co.

Company Address: 536 SE Baya Dr City: Lake City State: FL Zip 32025

Company Business License No. 3460

Company Phone No. 386-752-1703

FHA/VA Case No. (if any) \_\_\_\_\_

### Section 2: Builder Information

Company Name \_\_\_\_\_

Phone No. \_\_\_\_\_

### Section 3: Property Information

Location of Structure (s) Treated (Street Address or Legal Description, City, State and Zip) \_\_\_\_\_

Type of Construction (More than one box may be checked)  Slab  Basement  Crawl  Other \_\_\_\_\_

Approximate Depth of Footing: Outside \_\_\_\_\_ Inside \_\_\_\_\_ Type of Fill \_\_\_\_\_

### Section 4: Treatment Information

Date(s) of Treatment \_\_\_\_\_

Brand Name of Product(s) Used Bora-Care

EPA Registration No. 64405-1

Approximate Final Mix Solution % 1.0

Approximate Size of Treatment Area: Sq. ft. \_\_\_\_\_ Linear ft. \_\_\_\_\_ Linear ft. of Masonry Voids \_\_\_\_\_

Approximate Total Gallons of Solution Applied \_\_\_\_\_

Was treatment completed on exterior?  Yes  No

Service Agreement Available?  Yes  No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) \_\_\_\_\_

Comments \_\_\_\_\_

Name of Applicator(s) \_\_\_\_\_

Certification No. (if required by State law) \_\_\_\_\_

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

**Warning:** HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. 18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 2149 SW SR47, Lake City, FL, 32025- PERMIT #:

| BASE                                            |          |       |          | AS-BUILT                      |                          |               |                           |                 |       |          |                |
|-------------------------------------------------|----------|-------|----------|-------------------------------|--------------------------|---------------|---------------------------|-----------------|-------|----------|----------------|
| <b>GLASS TYPES</b>                              |          |       |          |                               |                          |               |                           |                 |       |          |                |
| .18 X Conditioned X BSPM = Points<br>Floor Area |          |       |          | Type/SC                       | Overhang<br>Ornt Len Hgt |               | Area X SPM X SOF = Points |                 |       |          |                |
| .18                                             | 3240.0   | 20.04 | 11687.3  | Double, Clear                 | N                        | 2.0           | 8.0                       | 36.0            | 19.20 | 0.94     | 648.8          |
|                                                 |          |       |          | Double, Clear                 | N                        | 2.0           | 7.0                       | 30.0            | 19.20 | 0.92     | 531.2          |
|                                                 |          |       |          | Double, Clear                 | N                        | 2.0           | 3.0                       | 3.0             | 19.20 | 0.78     | 44.8           |
|                                                 |          |       |          | Double, Clear                 | N                        | 2.0           | 5.0                       | 9.0             | 19.20 | 0.87     | 150.5          |
|                                                 |          |       |          | Double, Clear                 | N                        | 2.0           | 7.0                       | 30.0            | 19.20 | 0.92     | 531.2          |
|                                                 |          |       |          | Double, Clear                 | S                        | 2.0           | 7.0                       | 30.0            | 35.87 | 0.82     | 882.5          |
|                                                 |          |       |          | Double, Clear                 | S                        | 2.0           | 3.0                       | 3.0             | 35.87 | 0.59     | 63.5           |
|                                                 |          |       |          | Double, Clear                 | E                        | 2.0           | 5.0                       | 22.0            | 42.06 | 0.80     | 737.5          |
|                                                 |          |       |          | Double, Clear                 | E                        | 2.0           | 7.0                       | 60.0            | 42.06 | 0.89     | 2235.8         |
|                                                 |          |       |          | Double, Clear                 | E                        | 2.0           | 5.0                       | 6.0             | 42.06 | 0.80     | 201.1          |
|                                                 |          |       |          | Double, Clear                 | W                        | 2.0           | 7.0                       | 11.0            | 38.52 | 0.89     | 375.8          |
|                                                 |          |       |          | Double, Clear                 | W                        | 2.0           | 3.0                       | 4.0             | 38.52 | 0.64     | 98.4           |
|                                                 |          |       |          | Double, Clear                 | W                        | 2.0           | 7.0                       | 60.0            | 38.52 | 0.89     | 2049.6         |
|                                                 |          |       |          | Double, Clear                 | N                        | 2.0           | 7.0                       | 45.0            | 19.20 | 0.92     | 796.8          |
|                                                 |          |       |          | Double, Clear                 | N                        | 2.0           | 8.0                       | 20.0            | 19.20 | 0.94     | 360.4          |
|                                                 |          |       |          | Double, Clear                 | E                        | 2.0           | 7.0                       | 20.0            | 42.06 | 0.89     | 745.3          |
|                                                 |          |       |          | <b>As-Built Total:</b>        |                          |               |                           | <b>389.0</b>    |       |          | <b>10453.2</b> |
| <b>WALL TYPES</b> Area X BSPM = Points          |          |       |          | Type                          | R-Value                  |               | Area X SPM = Points       |                 |       |          |                |
| Adjacent                                        | 0.0      | 0.00  | 0.0      | Frame, Wood, Exterior         | 13.0                     |               | 1865.0                    | 1.50            |       | 2797.5   |                |
| Exterior                                        | 1865.0   | 1.70  | 3170.5   |                               |                          |               |                           |                 |       |          |                |
| <b>Base Total:</b>                              |          |       |          | <b>As-Built Total:</b>        |                          | <b>1865.0</b> |                           | <b>2797.5</b>   |       |          |                |
| <b>DOOR TYPES</b> Area X BSPM = Points          |          |       |          | Type                          | Area X SPM = Points      |               |                           |                 |       |          |                |
| Adjacent                                        | 0.0      | 0.00  | 0.0      | Exterior Insulated            |                          |               | 21.0                      | 4.10            |       | 86.1     |                |
| Exterior                                        | 42.0     | 6.10  | 256.2    | Exterior Insulated            |                          |               | 21.0                      | 4.10            |       | 86.1     |                |
| <b>Base Total:</b>                              |          |       |          | <b>As-Built Total:</b>        |                          | <b>42.0</b>   |                           | <b>172.2</b>    |       |          |                |
| <b>CEILING TYPES</b> Area X BSPM = Points       |          |       |          | Type                          | R-Value                  |               | Area X SPM X SCM = Points |                 |       |          |                |
| Under Attic                                     | 3240.0   | 1.73  | 5605.2   | Under Attic                   | 30.0                     |               | 3240.0                    | 1.73 X 1.00     |       | 5605.2   |                |
| <b>Base Total:</b>                              |          |       |          | <b>As-Built Total:</b>        |                          | <b>3240.0</b> |                           | <b>5605.2</b>   |       |          |                |
| <b>FLOOR TYPES</b> Area X BSPM = Points         |          |       |          | Type                          | R-Value                  |               | Area X SPM = Points       |                 |       |          |                |
| Slab                                            | 287.0(p) | -37.0 | -10619.0 | Slab-On-Grade Edge Insulation | 0.0                      |               | 287.0(p)                  | -41.20          |       | -11824.4 |                |
| Raised                                          | 0.0      | 0.00  | 0.0      |                               |                          |               |                           |                 |       |          |                |
| <b>Base Total:</b>                              |          |       |          | <b>As-Built Total:</b>        |                          | <b>287.0</b>  |                           | <b>-11824.4</b> |       |          |                |

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

|                                              |           |
|----------------------------------------------|-----------|
| ADDRESS: 2149 SW SR47, Lake City, FL, 32025- | PERMIT #: |
|----------------------------------------------|-----------|

| BASE                                                        | AS-BUILT                                                                                                                                     |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| INFILTRATION Area X BSPM = Points                           | Area X SPM = Points                                                                                                                          |
| 3240.0 10.21 33080.4                                        | 3240.0 10.21 33080.4                                                                                                                         |
| <b>Summer Base Points: 43180.6</b>                          | <b>Summer As-Built Points: 40284.1</b>                                                                                                       |
| Total Summer X System = Cooling<br>Points Multiplier Points | Total X Cap X Duct X System X Credit = Cooling<br>Component Ratio Multiplier Multiplier Multiplier Points<br><small>(DM x DSM x AHU)</small> |
| <b>43180.6 0.4266 18420.9</b>                               | 40284.1 1.000 (1.090 x 1.147 x 1.00) 0.244 0.902 11081.0<br><b>40284.1 1.00 1.250 0.244 0.902 11081.0</b>                                    |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 2149 SW SR47, Lake City, FL, 32025-

PERMIT #:

| BASE                                            |               |               |        | AS-BUILT                      |                          |     |                           |                           |               |        |        |
|-------------------------------------------------|---------------|---------------|--------|-------------------------------|--------------------------|-----|---------------------------|---------------------------|---------------|--------|--------|
| <b>GLASS TYPES</b>                              |               |               |        |                               |                          |     |                           |                           |               |        |        |
| .18 X Conditioned X BWPM = Points<br>Floor Area |               |               |        | Type/SC                       | Overhang<br>Ornt Len Hgt |     |                           | Area X WPM X WOF = Points |               |        |        |
| .18                                             | 3240.0        | 12.74         | 7430.0 | Double, Clear                 | N                        | 2.0 | 8.0                       | 36.0                      | 24.58         | 1.00   | 886.9  |
|                                                 |               |               |        | Double, Clear                 | N                        | 2.0 | 7.0                       | 30.0                      | 24.58         | 1.00   | 739.8  |
|                                                 |               |               |        | Double, Clear                 | N                        | 2.0 | 3.0                       | 3.0                       | 24.58         | 1.01   | 74.7   |
|                                                 |               |               |        | Double, Clear                 | N                        | 2.0 | 5.0                       | 9.0                       | 24.58         | 1.01   | 222.7  |
|                                                 |               |               |        | Double, Clear                 | N                        | 2.0 | 7.0                       | 30.0                      | 24.58         | 1.00   | 739.8  |
|                                                 |               |               |        | Double, Clear                 | S                        | 2.0 | 7.0                       | 30.0                      | 13.30         | 1.17   | 467.1  |
|                                                 |               |               |        | Double, Clear                 | S                        | 2.0 | 3.0                       | 3.0                       | 13.30         | 2.06   | 82.4   |
|                                                 |               |               |        | Double, Clear                 | E                        | 2.0 | 5.0                       | 22.0                      | 18.79         | 1.08   | 447.9  |
|                                                 |               |               |        | Double, Clear                 | E                        | 2.0 | 7.0                       | 60.0                      | 18.79         | 1.05   | 1178.8 |
|                                                 |               |               |        | Double, Clear                 | E                        | 2.0 | 5.0                       | 6.0                       | 18.79         | 1.08   | 122.2  |
|                                                 |               |               |        | Double, Clear                 | W                        | 2.0 | 7.0                       | 11.0                      | 20.73         | 1.03   | 235.1  |
|                                                 |               |               |        | Double, Clear                 | W                        | 2.0 | 3.0                       | 4.0                       | 20.73         | 1.12   | 92.8   |
|                                                 |               |               |        | Double, Clear                 | W                        | 2.0 | 7.0                       | 60.0                      | 20.73         | 1.03   | 1282.5 |
|                                                 |               |               |        | Double, Clear                 | N                        | 2.0 | 7.0                       | 45.0                      | 24.58         | 1.00   | 1109.7 |
|                                                 |               |               |        | Double, Clear                 | N                        | 2.0 | 8.0                       | 20.0                      | 24.58         | 1.00   | 492.7  |
|                                                 |               |               |        | Double, Clear                 | E                        | 2.0 | 7.0                       | 20.0                      | 18.79         | 1.05   | 392.9  |
|                                                 |               |               |        | <b>As-Built Total:</b>        |                          |     |                           | <b>389.0</b>              | <b>8568.1</b> |        |        |
| <b>WALL TYPES</b> Area X BWPM = Points          |               |               |        | Type                          | R-Value                  |     | Area X WPM = Points       |                           |               |        |        |
| Adjacent                                        | 0.0           | 0.00          | 0.0    | Frame, Wood, Exterior         | 13.0                     |     | 1865.0                    | 3.40                      |               | 6341.0 |        |
| Exterior                                        | 1865.0        | 3.70          | 6900.5 |                               |                          |     |                           |                           |               |        |        |
| <b>Base Total:</b>                              | <b>1865.0</b> | <b>6900.5</b> |        | <b>As-Built Total:</b>        |                          |     | <b>1865.0</b>             | <b>6341.0</b>             |               |        |        |
| <b>DOOR TYPES</b> Area X BWPM = Points          |               |               |        | Type                          | Area X WPM = Points      |     |                           |                           |               |        |        |
| Adjacent                                        | 0.0           | 0.00          | 0.0    | Exterior Insulated            |                          |     | 21.0                      | 8.40                      |               | 176.4  |        |
| Exterior                                        | 42.0          | 12.30         | 516.6  | Exterior Insulated            |                          |     | 21.0                      | 8.40                      |               | 176.4  |        |
| <b>Base Total:</b>                              | <b>42.0</b>   | <b>516.6</b>  |        | <b>As-Built Total:</b>        |                          |     | <b>42.0</b>               | <b>352.8</b>              |               |        |        |
| <b>CEILING TYPES</b> Area X BWPM = Points       |               |               |        | Type                          | R-Value                  |     | Area X WPM X WCM = Points |                           |               |        |        |
| Under Attic                                     | 3240.0        | 2.05          | 6642.0 | Under Attic                   | 30.0                     |     | 3240.0                    | 2.05 X 1.00               |               | 6642.0 |        |
| <b>Base Total:</b>                              | <b>3240.0</b> | <b>6642.0</b> |        | <b>As-Built Total:</b>        |                          |     | <b>3240.0</b>             | <b>6642.0</b>             |               |        |        |
| <b>FLOOR TYPES</b> Area X BWPM = Points         |               |               |        | Type                          | R-Value                  |     | Area X WPM = Points       |                           |               |        |        |
| Slab                                            | 287.0(p)      | 8.9           | 2554.3 | Slab-On-Grade Edge Insulation | 0.0                      |     | 287.0(p)                  | 18.80                     |               | 5395.6 |        |
| Raised                                          | 0.0           | 0.00          | 0.0    |                               |                          |     |                           |                           |               |        |        |
| <b>Base Total:</b>                              | <b>2554.3</b> |               |        | <b>As-Built Total:</b>        |                          |     | <b>287.0</b>              | <b>5395.6</b>             |               |        |        |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

|                                              |           |
|----------------------------------------------|-----------|
| ADDRESS: 2149 SW SR47, Lake City, FL, 32025- | PERMIT #: |
|----------------------------------------------|-----------|

| BASE                              |                     |                  |                | AS-BUILT                       |              |                                                      |                     |                     |                  |
|-----------------------------------|---------------------|------------------|----------------|--------------------------------|--------------|------------------------------------------------------|---------------------|---------------------|------------------|
| INFILTRATION Area X BWPM = Points |                     |                  |                | Area X WPM = Points            |              |                                                      |                     |                     |                  |
| 3240.0    -0.59    -1911.6        |                     |                  |                | 3240.0    -0.59    -1911.6     |              |                                                      |                     |                     |                  |
| <b>Winter Base Points:</b>        |                     |                  | <b>22131.8</b> | <b>Winter As-Built Points:</b> |              |                                                      | <b>25387.9</b>      |                     |                  |
| Total Winter Points               | X System Multiplier | = Heating Points |                | Total Component                | X Cap Ratio  | X Duct Multiplier<br><small>(DM x DSM x AHU)</small> | X System Multiplier | X Credit Multiplier | = Heating Points |
| <b>22131.8</b>                    | <b>0.6274</b>       | <b>13885.5</b>   |                | 25387.9                        | 1.000        | (1.069 x 1.169 x 1.00)                               | 0.432               | 0.950               | 13009.8          |
|                                   |                     |                  | <b>25387.9</b> | <b>1.00</b>                    | <b>1.250</b> | <b>0.432</b>                                         | <b>0.950</b>        | <b>13009.8</b>      |                  |

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

|                                              |           |
|----------------------------------------------|-----------|
| ADDRESS: 2149 SW SR47, Lake City, FL, 32025- | PERMIT #: |
|----------------------------------------------|-----------|

| BASE                                                       | AS-BUILT                                                                                                                                         |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WATER HEATING</b>                                       |                                                                                                                                                  |
| Number of Bedrooms X Multiplier = Total                    | Tank Volume EF Number of Bedrooms X Tank Ratio X Multiplier X Credit = Total Multiplier                                                          |
| 3                      2746.00                      8238.0 | 30.0    0.90                      3                      1.00                      2684.98                      1.00                      8054.9 |
|                                                            | As-Built Total: <span style="float: right;"><b>8054.9</b></span>                                                                                 |

| CODE COMPLIANCE STATUS |   |                |   |                  |   |              |  |
|------------------------|---|----------------|---|------------------|---|--------------|--|
| BASE                   |   |                |   | AS-BUILT         |   |              |  |
| Cooling Points         | + | Heating Points | + | Hot Water Points | = | Total Points |  |
| <b>18421</b>           |   | <b>13885</b>   |   | <b>8238</b>      |   | <b>40544</b> |  |
| Cooling Points         | + | Heating Points | + | Hot Water Points | = | Total Points |  |
| <b>11081</b>           |   | <b>13010</b>   |   | <b>8055</b>      |   | <b>32146</b> |  |

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: 2149 SW SR47, Lake City, FL, 32025-

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

| COMPONENTS                    | SECTION         | REQUIREMENTS FOR EACH PRACTICE                                                                                                                                                                                                                                                                                                                                                                                            | CHECK |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Exterior Windows & Doors      | 606.1.ABC.1.1   | Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.                                                                                                                                                                                                                                                                                                                                                              | ✓     |
| Exterior & Adjacent Walls     | 606.1.ABC.1.2.1 | Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor.<br>EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate. | ✓     |
| Floors                        | 606.1.ABC.1.2.2 | Penetrations/openings >1/8" sealed unless backed by truss or joint members.<br>EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.                                                                                                                                                                                                      | ✓     |
| Ceilings                      | 606.1.ABC.1.2.3 | Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.                                                                        | ✓     |
| Recessed Lighting Fixtures    | 606.1.ABC.1.2.4 | Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.                                                                                                                                                                                                           | ✓     |
| Multi-story Houses            | 606.1.ABC.1.2.5 | Air barrier on perimeter of floor cavity between floors.                                                                                                                                                                                                                                                                                                                                                                  | N/A   |
| Additional Infiltration reqts | 606.1.ABC.1.3   | Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.                                                                                                                                                                                                                                                                                                                 | ✓     |

**6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

| COMPONENTS               | SECTION      | REQUIREMENTS                                                                                                                                                                                                                          | CHECK |
|--------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Water Heaters            | 612.1        | Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.                                                     | ✓     |
| Swimming Pools & Spas    | 612.1        | Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.                                                        | N/A   |
| Shower heads             | 612.1        | Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.                                                                                                                                                      | ✓     |
| Air Distribution Systems | 610.1        | All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610.<br>Ducts in unconditioned attics: R-6 min. insulation. | ✓     |
| HVAC Controls            | 607.1        | Separate readily accessible manual or automatic thermostat for each system.                                                                                                                                                           | ✓     |
| Insulation               | 604.1, 602.1 | Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides.<br>Common ceiling & floors R-11.                                                                                                                                   | ✓     |



**PROJECT**

|                |                           |                    |      |                   |                |
|----------------|---------------------------|--------------------|------|-------------------|----------------|
| Title:         | Houston Addition          | Bedrooms:          | 3    | Adress Type:      | Street Address |
| Building Type: | FLAsBuilt                 | Bathrooms:         | 0    | Lot #             |                |
| Owner:         | Greg Houston              | Conditioned Area:  | 3240 | SubDivision:      |                |
| # of Units:    | 1                         | Total Stories:     | 1    | PlatBook:         |                |
| Builder Name:  | Bryan Zecher Construction | Worst Case:        | No   | Street:           | 2148 SW SR47   |
| Permit Office: | Columbia County           | Rotate Angle:      | 0    | County:           | Columbia       |
| Jurisdiction:  | 221000                    | Cross Ventilation: |      | City, State, Zip: | Lake City ,    |
| Family Type:   | Single-family             | Whole House Fan:   |      |                   | FL , 32055-    |
| New/Existing:  | New (From Plans)          |                    |      |                   |                |
| Comment:       |                           |                    |      |                   |                |

**CLIMATE**

| ✓ | Design Location | TMY Site            | IECC Zone | Design Temp |       | Int Design Temp |        | Heating Degree Days | Design Moisture | Daily Temp Range |
|---|-----------------|---------------------|-----------|-------------|-------|-----------------|--------|---------------------|-----------------|------------------|
|   |                 |                     |           | 97.5 %      | 2.5 % | Winter          | Summer |                     |                 |                  |
| ✓ | FL, Gainesville | FL_GAINESVILLE_REGI | 2         | 32          | 92    | 75              | 70     | 1305.5              | 51              | Medium           |

**FLOORS**

| ✓ | # | Floor Type                   | Perimeter | R-Value | Area     | Tile | Wood | Carpet |
|---|---|------------------------------|-----------|---------|----------|------|------|--------|
| ✓ | 1 | Slab-On-Grade Edge Insulatio | 289 ft    | 0       | 3240 ft² | 0.25 | 0.1  | 0.65   |

**ROOF**

| ✓ | # | Type | Materials            | Roof Area | Gable Area | Roof Color | Solar Absor. | Tested | Deck Insul. | Pitch    |
|---|---|------|----------------------|-----------|------------|------------|--------------|--------|-------------|----------|
| ✓ | 1 | Hip  | Composition shingles | 3894 ft²  | 0 ft²      | Medium     | 0.96         | No     | 0           | 33.7 deg |

**ATTIC**

| ✓ | # | Type       | Ventilation | Vent Ratio (1 in) | Area     | RBS | IRCC |
|---|---|------------|-------------|-------------------|----------|-----|------|
| ✓ | 1 | Full attic | Vented      | 300               | 3240 ft² | N   | N    |

**CEILING**

| ✓ | # | Ceiling Type         | R-Value | Area     | Framing Frac | Truss Type |
|---|---|----------------------|---------|----------|--------------|------------|
| ✓ | 1 | Under Attic (Vented) | 30      | 3240 ft² | 0.11         | Wood       |

**WALLS**

| ✓ | # | Ornt | Adjacent To | Wall Type    | Cavity R-Value | Area    | Sheathing R-Value | Framing Fraction | Solar Absor. |
|---|---|------|-------------|--------------|----------------|---------|-------------------|------------------|--------------|
| ✓ | 1 | N    | Exterior    | Frame - Wood | 13             | 216 ft² |                   | 0.23             | 0.75         |
| ✓ | 2 | E    | Exterior    | Frame - Wood | 13             | 80 ft²  |                   | 0.23             | 0.75         |
| ✓ | 3 | N    | Exterior    | Frame - Wood | 13             | 192 ft² |                   | 0.23             | 0.75         |
| ✓ | 4 | E    | Exterior    | Frame - Wood | 13             | 160 ft² |                   | 0.23             | 0.75         |
| ✓ | 5 | N    | Exterior    | Frame - Wood | 13             | 280 ft² |                   | 0.23             | 0.75         |
| ✓ | 6 | E    | Exterior    | Frame - Wood | 13             | 208 ft² |                   | 0.23             | 0.75         |
| ✓ | 7 | N    | Exterior    | Frame - Wood | 13             | 552 ft² |                   | 0.23             | 0.75         |
| ✓ | 8 | W    | Garage      | Frame - Wood | 13             | 160 ft² |                   | 0.23             | 0.01         |
| ✓ | 9 | S    | Garage      | Frame - Wood | 13             | 120 ft² |                   | 0.23             | 0.01         |

### WALLS

| ✓ | #  | Ornt | Adjacent To | Wall Type    | Cavity R-Value | Area    | Sheathing R-Value | Framing Fraction | Solar Absor. |
|---|----|------|-------------|--------------|----------------|---------|-------------------|------------------|--------------|
| ✓ | 10 | W    | Exterior    | Frame - Wood | 13             | 288 ft² |                   | 0.23             | 0.75         |

### DOORS

| ✓ | # | Ornt | Door Type | Storms | U-Value | Area   |
|---|---|------|-----------|--------|---------|--------|
| ✓ | 1 | W    | Insulated | None   | 0.46    | 20 ft² |
| ✓ | 2 | W    | Wood      | None   | 0.46    | 20 ft² |

### WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

| ✓ | #  | Ornt | Frame | Panes           | NFRC | U-Factor | SHGC | Storms | Area   | Overhang  |            | Int Shade | Screening |
|---|----|------|-------|-----------------|------|----------|------|--------|--------|-----------|------------|-----------|-----------|
|   |    |      |       |                 |      |          |      |        |        | Depth     | Separation |           |           |
| ✓ | 1  | E    | Metal | Double (Tinted) | Yes  | 0.55     | 0.6  | N      | 30 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 2  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 45 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 3  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 15 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 4  | E    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 20 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 5  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 15 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 6  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 3 ft²  | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 7  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 9 ft²  | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 8  | E    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 18 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 9  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 45 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 10 | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 3 ft²  | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 11 | W    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 30 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 12 | W    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 15 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |

### INFILTRATION & VENTING

| ✓ | Method  | SLA     | CFM 50 | ACH 50 | ELA   | EqLA  | ---- Forced Ventilation ---- |             | Run Time | Fan   |
|---|---------|---------|--------|--------|-------|-------|------------------------------|-------------|----------|-------|
|   |         |         |        |        |       |       | Supply CFM                   | Exhaust CFM | Fraction | Watts |
| ✓ | Default | 0.00036 | 3059   | 7.08   | 168.0 | 315.9 | 0 cfm                        | 0 cfm       | 0        | 0     |

### GARAGE

| ✓ | # | Floor Area | Ceiling Area | Exposed Wall Perimeter | Avg. Wall Height | Exposed Wall Insulation |
|---|---|------------|--------------|------------------------|------------------|-------------------------|
| ✓ | 1 | 386 ft²    | 386 ft²      | 44.3 ft                | 8 ft             | 2                       |

### COOLING SYSTEM

| ✓ | # | System Type  | Subtype      | Efficiency | Capacity   | Air Flow | SHR  | Ductless |
|---|---|--------------|--------------|------------|------------|----------|------|----------|
| ✓ | 1 | Central Unit | Split System | SEER: 13   | 35 kBtu/hr | 1050 cfm | 0.75 | False    |

### HEATING SYSTEM

|   | # | System Type        | Subtype | Efficiency | Capacity   | Ductless |
|---|---|--------------------|---------|------------|------------|----------|
| ✓ | 1 | Electric Heat Pump | None    | HSPF: 7.7  | 35 kBtu/hr | False    |

### HOT WATER SYSTEM

|   | # | System Type | EF   | Cap    | Use    | SetPnt  | Conservation |
|---|---|-------------|------|--------|--------|---------|--------------|
| ✓ | 1 | Electric    | 0.92 | 40 gal | 60 gal | 120 deg | None         |

### SOLAR HOT WATER SYSTEM

|   | FSEC Cert # | Company Name | System Model # | Collector Model # | Collector Area | Storage Volume  | FEF |
|---|-------------|--------------|----------------|-------------------|----------------|-----------------|-----|
| ✓ |             | None         |                |                   |                | ft <sup>2</sup> |     |

### DUCTS

|   | # | --- Supply --- |         |                     | --- Return --- |                     | Leakage Type    | Air Handler | CFM 25 | Percent Leakage | QN | RLF |
|---|---|----------------|---------|---------------------|----------------|---------------------|-----------------|-------------|--------|-----------------|----|-----|
|   |   | Location       | R-Value | Area                | Location       | Area                |                 |             |        |                 |    |     |
| ✓ | 1 | Attic          | 6       | 810 ft <sup>2</sup> | Attic          | 162 ft <sup>2</sup> | Default Leakage | Garage      |        |                 |    |     |

### TEMPERATURES

|                                          |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |               |    |
|------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------|----|
| Programable Thermostat: Y                |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         | Ceiling Fans: |    |
| Cooling                                  | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |               |    |
| Heating                                  | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |               |    |
| Venting                                  | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec |               |    |
| Thermostat Schedule: HERS 2006 Reference |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |               |    |
| Schedule Type                            |                                         | Hours                                   |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |                                         |               |    |
|                                          |                                         | 1                                       | 2                                       | 3                                       | 4                                       | 5                                       | 6                                       | 7                                       | 8                                       | 9                                       | 10                                      | 11                                      | 12            |    |
| Cooling (WD)                             | AM                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 80                                      | 80                                      | 80            | 80 |
|                                          | PM                                      | 80                                      | 80                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78            | 78 |
| Cooling (WEH)                            | AM                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78            | 78 |
|                                          | PM                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78                                      | 78            | 78 |
| Heating (WD)                             | AM                                      | 66                                      | 66                                      | 66                                      | 66                                      | 66                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68            | 68 |
|                                          | PM                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 66            | 66 |
| Heating (WEH)                            | AM                                      | 66                                      | 66                                      | 66                                      | 66                                      | 66                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68            | 68 |
|                                          | PM                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 68                                      | 66            | 66 |

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: 2148 SW SR47

PERMIT #:

Lake City, FL, 32055-

**INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

| COMPONENTS                    | SECTION        | REQUIREMENTS FOR EACH PRACTICE                                                                                                                                                                                                                                                                                                                                                                                            | CHECK |
|-------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Exterior Windows & Doors      | N1106.AB.1.1   | Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.                                                                                                                                                                                                                                                                                                                                                              | ✓     |
| Exterior & Adjacent Walls     | N1106.AB.1.2.1 | Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor.<br>EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate. | ✓     |
| Floors                        | N1106.AB.1.2.2 | Penetrations/openings > 1/8" sealed unless backed by truss or joint members.<br>EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.                                                                                                                                                                                                     | ✓     |
| Ceilings                      | N1106.AB.1.2.3 | Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access.<br>EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.                                                                     | ✓     |
| Recessed Lighting Fixtures    | N1106.AB.1.2.4 | Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.                                                                                                                                                                                                                 | ✓     |
| Multi-story Houses            | N1106.AB.1.2.5 | Air barrier on perimeter of floor cavity between floors.                                                                                                                                                                                                                                                                                                                                                                  | N/A   |
| Additional Infiltration reqts | N1106.AB.1.3   | Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.                                                                                                                                                                                                                                                                                                                 | ✓     |

**OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

| COMPONENTS               | SECTION                   | REQUIREMENTS                                                                                                                                                                                                                              | CHECK |
|--------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Water Heaters            | N1112.AB.3                | Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.                                                   | ✓     |
| Swimming Pools & Spas    | N1112.AB.2.3              | Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.    | N/A   |
| Shower heads             | N1112.AB.2.4              | Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.                                                                                                                                                          | ✓     |
| Air Distribution Systems | 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.<br>Ducts in unconditioned attics: R-6 min. insulation. | ✓     |
| HVAC Controls            | N1107.AB.2                | Separate readily accessible manual or automatic thermostat for each system.                                                                                                                                                               | ✓     |
| Insulation               | N1104.AB.1<br>N1102.B.1.1 | Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.                                                                                                                                          | ✓     |

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Community Affairs Residential Performance Method A

|                                                                                                                                                              |                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Project Name: Houston Addition<br>Street: 2148 SW SR47<br>City, State, Zip: Lake City, FL, 32055-<br>Owner: Greg Houston<br>Design Location: FL, Gainesville | Builder Name: Bryan Zecher Construction<br>Permit Office: Columbia County<br>Permit Number:<br>Jurisdiction: 221000 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
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| <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">1. New construction or existing</td> <td style="width:40%;">New (From Plans)</td> <td style="width:30%;"></td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Single-family</td> <td></td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> <td></td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>3</td> <td></td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> <td></td> </tr> <tr> <td>6. Conditioned floor area (ft<sup>2</sup>)</td> <td>3240</td> <td></td> </tr> <tr> <td>7. Windows</td> <td>Description</td> <td>Area</td> </tr> <tr> <td>a. U-Factor:</td> <td>DbI, U=0.80</td> <td>218.00 ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC: SHGC=0.60</td> <td></td> </tr> <tr> <td>b. U-Factor:</td> <td>DbI, U=0.55</td> <td>30.00 ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC: SHGC=0.60</td> <td></td> </tr> <tr> <td>c. U-Factor:</td> <td>N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> </tr> <tr> <td>d. U-Factor:</td> <td>N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> </tr> <tr> <td>e. U-Factor:</td> <td>N/A</td> <td>ft<sup>2</sup></td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> </tr> <tr> <td>8. Floor Types</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0</td> <td>3240.00 ft<sup>2</sup></td> </tr> <tr> <td>b. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>c. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> </table> | 1. New construction or existing | New (From Plans)               |  | 2. Single family or multiple family | Single-family |  | 3. Number of units, if multiple family | 1 |  | 4. Number of Bedrooms | 3 |  | 5. Is this a worst case? | No |  | 6. Conditioned floor area (ft <sup>2</sup> ) | 3240 |  | 7. Windows | Description | Area | a. U-Factor: | DbI, U=0.80 | 218.00 ft <sup>2</sup> |  | SHGC: SHGC=0.60 |  | b. U-Factor: | DbI, U=0.55 | 30.00 ft <sup>2</sup> |  | SHGC: SHGC=0.60 |  | c. U-Factor: | N/A | ft <sup>2</sup> |  | SHGC: |  | d. U-Factor: | N/A | ft <sup>2</sup> |  | SHGC: |  | e. U-Factor: | N/A | ft <sup>2</sup> |  | SHGC: |  | 8. Floor Types | Insulation | Area | a. Slab-On-Grade Edge Insulation | R=0.0 | 3240.00 ft <sup>2</sup> | b. N/A | R= | ft <sup>2</sup> | c. N/A | R= | ft <sup>2</sup> | <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">9. Wall Types</td> <td style="width:15%;">Insulation</td> <td style="width:15%;">Area</td> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=13.0</td> <td>1976.00 ft<sup>2</sup></td> </tr> <tr> <td>b. Frame - Wood, Adjacent</td> <td>R=13.0</td> <td>280.00 ft<sup>2</sup></td> </tr> <tr> <td>c. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>d. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>10. Ceiling Types</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a. Under Attic (Vented)</td> <td>R=30.0</td> <td>3240.00 ft<sup>2</sup></td> </tr> <tr> <td>b. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>c. N/A</td> <td>R=</td> <td>ft<sup>2</sup></td> </tr> <tr> <td>11. Ducts</td> <td></td> <td></td> </tr> <tr> <td>a. Sup: Attic Ret: Attic AH: Garage Sup. R= 6,</td> <td></td> <td>810 ft<sup>2</sup></td> </tr> <tr> <td>12. Cooling systems</td> <td></td> <td></td> </tr> <tr> <td>a. Central Unit</td> <td></td> <td>Cap: 43.2 kBtu/hr<br/>SEER: 13</td> </tr> <tr> <td>13. Heating systems</td> <td></td> <td></td> </tr> <tr> <td>a. Electric Heat Pump</td> <td></td> <td>Cap: 45.7 kBtu/hr<br/>HSPF: 7.7</td> </tr> <tr> <td>14. Hot water systems</td> <td></td> <td></td> </tr> <tr> <td>a. Electric</td> <td></td> <td>Cap: 40 gallons<br/>EF: 0.92</td> </tr> <tr> <td>b. Conservation features</td> <td></td> <td>None</td> </tr> <tr> <td>15. Credits</td> <td></td> <td>Pstat</td> </tr> </table> | 9. Wall Types | Insulation | Area | a. Frame - Wood, Exterior | R=13.0 | 1976.00 ft <sup>2</sup> | b. Frame - Wood, Adjacent | R=13.0 | 280.00 ft <sup>2</sup> | c. N/A | R= | ft <sup>2</sup> | d. N/A | R= | ft <sup>2</sup> | 10. Ceiling Types | Insulation | Area | a. Under Attic (Vented) | R=30.0 | 3240.00 ft <sup>2</sup> | b. N/A | R= | ft <sup>2</sup> | c. N/A | R= | ft <sup>2</sup> | 11. Ducts |  |  | a. Sup: Attic Ret: Attic AH: Garage Sup. R= 6, |  | 810 ft <sup>2</sup> | 12. Cooling systems |  |  | a. Central Unit |  | Cap: 43.2 kBtu/hr<br>SEER: 13 | 13. Heating systems |  |  | a. Electric Heat Pump |  | Cap: 45.7 kBtu/hr<br>HSPF: 7.7 | 14. Hot water systems |  |  | a. Electric |  | Cap: 40 gallons<br>EF: 0.92 | b. Conservation features |  | None | 15. Credits |  | Pstat |
| 1. New construction or existing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | New (From Plans)                |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 2. Single family or multiple family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Single-family                   |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 3. Number of units, if multiple family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                               |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 4. Number of Bedrooms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                               |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 5. Is this a worst case?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No                              |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 6. Conditioned floor area (ft <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3240                            |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 7. Windows                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Description                     | Area                           |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| a. U-Factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DbI, U=0.80                     | 218.00 ft <sup>2</sup>         |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SHGC: SHGC=0.60                 |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| b. U-Factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DbI, U=0.55                     | 30.00 ft <sup>2</sup>          |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SHGC: SHGC=0.60                 |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| c. U-Factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N/A                             | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
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| d. U-Factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N/A                             | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
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| e. U-Factor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N/A                             | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
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| 8. Floor Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Insulation                      | Area                           |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| a. Slab-On-Grade Edge Insulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R=0.0                           | 3240.00 ft <sup>2</sup>        |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| b. N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R=                              | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| c. N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R=                              | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 9. Wall Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Insulation                      | Area                           |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| a. Frame - Wood, Exterior                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R=13.0                          | 1976.00 ft <sup>2</sup>        |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| b. Frame - Wood, Adjacent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R=13.0                          | 280.00 ft <sup>2</sup>         |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| c. N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R=                              | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| d. N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R=                              | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 10. Ceiling Types                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Insulation                      | Area                           |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| a. Under Attic (Vented)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | R=30.0                          | 3240.00 ft <sup>2</sup>        |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| b. N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R=                              | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| c. N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R=                              | ft <sup>2</sup>                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 11. Ducts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| a. Sup: Attic Ret: Attic AH: Garage Sup. R= 6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 | 810 ft <sup>2</sup>            |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 12. Cooling systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| a. Central Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | Cap: 43.2 kBtu/hr<br>SEER: 13  |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 13. Heating systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| a. Electric Heat Pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 | Cap: 45.7 kBtu/hr<br>HSPF: 7.7 |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 14. Hot water systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                                |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| a. Electric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 | Cap: 40 gallons<br>EF: 0.92    |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| b. Conservation features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | None                           |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |
| 15. Credits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 | Pstat                          |  |                                     |               |  |                                        |   |  |                       |   |  |                          |    |  |                                              |      |  |            |             |      |              |             |                        |  |                 |  |              |             |                       |  |                 |  |              |     |                 |  |       |  |              |     |                 |  |       |  |              |     |                 |  |       |  |                |            |      |                                  |       |                         |        |    |                 |        |    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |            |      |                           |        |                         |                           |        |                        |        |    |                 |        |    |                 |                   |            |      |                         |        |                         |        |    |                 |        |    |                 |           |  |  |                                                |  |                     |                     |  |  |                 |  |                               |                     |  |  |                       |  |                                |                       |  |  |             |  |                             |                          |  |      |             |  |       |

Glass/Floor Area: 0.077      Total As-Built Modified Loads: 46.64      **PASS**  
 Total Baseline Loads: 56.10


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

PREPARED BY: J. Adkins  
 DATE: 4-3-09

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: \_\_\_\_\_  
 DATE: \_\_\_\_\_

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**PROJECT**

|                |                           |                    |      |                   |                |
|----------------|---------------------------|--------------------|------|-------------------|----------------|
| Title:         | Houston Addition          | Bedrooms:          | 3    | Adress Type:      | Street Address |
| Building Type: | FLAsBuilt                 | Bathrooms:         | 0    | Lot #             |                |
| Owner:         | Greg Houston              | Conditioned Area:  | 3240 | SubDivision:      |                |
| # of Units:    | 1                         | Total Stories:     | 1    | PlatBook:         |                |
| Builder Name:  | Bryan Zecher Construction | Worst Case:        | No   | Street:           | 2148 SW SR47   |
| Permit Office: | Columbia County           | Rotate Angle:      | 0    | County:           | Columbia       |
| Jurisdiction:  | 221000                    | Cross Ventilation: |      | City, State, Zip: | Lake City ,    |
| Family Type:   | Single-family             | Whole House Fan:   |      |                   | FL , 32055-    |
| New/Existing:  | New (From Plans)          |                    |      |                   |                |
| Comment:       |                           |                    |      |                   |                |

**CLIMATE**

| ✓ | Design Location | TMY Site            | IECC Zone | Design Temp |       | Int Design Temp |        | Heating Degree Days | Design Moisture | Daily Temp Range |
|---|-----------------|---------------------|-----------|-------------|-------|-----------------|--------|---------------------|-----------------|------------------|
|   |                 |                     |           | 97.5 %      | 2.5 % | Winter          | Summer |                     |                 |                  |
| ✓ | FL, Gainesville | FL_GAINESVILLE_REGI | 2         | 32          | 92    | 75              | 70     | 1305.5              | 51              | Medium           |

**FLOORS**

| ✓ | # | Floor Type                   | Perimeter | R-Value | Area     | Tile | Wood | Carpet |
|---|---|------------------------------|-----------|---------|----------|------|------|--------|
| ✓ | 1 | Slab-On-Grade Edge Insulatio | 289 ft    | 0       | 3240 ft² | 0.25 | 0.1  | 0.65   |

**ROOF**

| ✓ | # | Type | Materials            | Roof Area | Gable Area | Roof Color | Solar Absor. | Tested | Deck Insul. | Pitch    |
|---|---|------|----------------------|-----------|------------|------------|--------------|--------|-------------|----------|
| ✓ | 1 | Hip  | Composition shingles | 3894 ft²  | 0 ft²      | Medium     | 0.96         | No     | 0           | 33.7 deg |

**ATTIC**

| ✓ | # | Type       | Ventilation | Vent Ratio (1 in) | Area     | RBS | IRCC |
|---|---|------------|-------------|-------------------|----------|-----|------|
| ✓ | 1 | Full attic | Vented      | 300               | 3240 ft² | N   | N    |

**CEILING**

| ✓ | # | Ceiling Type         | R-Value | Area     | Framing Frac | Truss Type |
|---|---|----------------------|---------|----------|--------------|------------|
| ✓ | 1 | Under Attic (Vented) | 30      | 3240 ft² | 0.11         | Wood       |

**WALLS**

| ✓ | # | Ornt | Adjacent To | Wall Type    | Cavity R-Value | Area    | Sheathing R-Value | Framing Fraction | Solar Absor. |
|---|---|------|-------------|--------------|----------------|---------|-------------------|------------------|--------------|
| ✓ | 1 | N    | Exterior    | Frame - Wood | 13             | 216 ft² |                   | 0.23             | 0.75         |
| ✓ | 2 | E    | Exterior    | Frame - Wood | 13             | 80 ft²  |                   | 0.23             | 0.75         |
| ✓ | 3 | N    | Exterior    | Frame - Wood | 13             | 192 ft² |                   | 0.23             | 0.75         |
| ✓ | 4 | E    | Exterior    | Frame - Wood | 13             | 160 ft² |                   | 0.23             | 0.75         |
| ✓ | 5 | N    | Exterior    | Frame - Wood | 13             | 280 ft² |                   | 0.23             | 0.75         |
| ✓ | 6 | E    | Exterior    | Frame - Wood | 13             | 208 ft² |                   | 0.23             | 0.75         |
| ✓ | 7 | N    | Exterior    | Frame - Wood | 13             | 552 ft² |                   | 0.23             | 0.75         |
| ✓ | 8 | W    | Garage      | Frame - Wood | 13             | 160 ft² |                   | 0.23             | 0.01         |
| ✓ | 9 | S    | Garage      | Frame - Wood | 13             | 120 ft² |                   | 0.23             | 0.01         |

### WALLS

| ✓ | #  | Ornt | Adjacent To | Wall Type    | Cavity R-Value | Area    | Sheathing R-Value | Framing Fraction | Solar Absor. |
|---|----|------|-------------|--------------|----------------|---------|-------------------|------------------|--------------|
| ✓ | 10 | W    | Exterior    | Frame - Wood | 13             | 288 ft² |                   | 0.23             | 0.75         |

### DOORS

| ✓ | # | Ornt | Door Type | Storms | U-Value | Area   |
|---|---|------|-----------|--------|---------|--------|
| ✓ | 1 | W    | Insulated | None   | 0.46    | 20 ft² |
| ✓ | 2 | W    | Wood      | None   | 0.46    | 20 ft² |

### WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

| ✓ | #  | Ornt | Frame | Panes           | NFRC | U-Factor | SHGC | Storms | Area   | Overhang  |            | Int Shade | Screening |
|---|----|------|-------|-----------------|------|----------|------|--------|--------|-----------|------------|-----------|-----------|
|   |    |      |       |                 |      |          |      |        |        | Depth     | Separation |           |           |
| ✓ | 1  | E    | Metal | Double (Tinted) | Yes  | 0.55     | 0.6  | N      | 30 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 2  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 45 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 3  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 15 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 4  | E    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 20 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 5  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 15 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 6  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 3 ft²  | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 7  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 9 ft²  | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 8  | E    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 18 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 9  | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 45 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 10 | N    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 3 ft²  | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 11 | W    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 30 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |
| ✓ | 12 | W    | Metal | Double (Tinted) | Yes  | 0.8      | 0.6  | N      | 15 ft² | 2 ft 0 in | 0 ft 4 in  | HERS 2006 | None      |

### INFILTRATION & VENTING

| ✓ | Method  | SLA     | CFM 50 | ACH 50 | ELA   | EqLA  | ---- Forced Ventilation ---- |             | Run Time | Fan   |
|---|---------|---------|--------|--------|-------|-------|------------------------------|-------------|----------|-------|
|   |         |         |        |        |       |       | Supply CFM                   | Exhaust CFM | Fraction | Watts |
| ✓ | Default | 0.00036 | 3059   | 7.08   | 168.0 | 315.9 | 0 cfm                        | 0 cfm       | 0        | 0     |

### GARAGE

| ✓ | # | Floor Area | Ceiling Area | Exposed Wall Perimeter | Avg. Wall Height | Exposed Wall Insulation |
|---|---|------------|--------------|------------------------|------------------|-------------------------|
| ✓ | 1 | 386 ft²    | 386 ft²      | 44.3 ft                | 8 ft             | 2                       |

### COOLING SYSTEM

| ✓ | # | System Type  | Subtype      | Efficiency | Capacity   | Air Flow | SHR  | Ductless |
|---|---|--------------|--------------|------------|------------|----------|------|----------|
| ✓ | 1 | Central Unit | Split System | SEER: 13   | 35 kBtu/hr | 1050 cfm | 0.75 | False    |

### HEATING SYSTEM

|   | # | System Type        | Subtype | Efficiency | Capacity   | Ductless |
|---|---|--------------------|---------|------------|------------|----------|
| ✓ | 1 | Electric Heat Pump | None    | HSPF: 7.7  | 35 kBtu/hr | False    |

### HOT WATER SYSTEM

|   | # | System Type | EF   | Cap    | Use    | SetPnt  | Conservation |
|---|---|-------------|------|--------|--------|---------|--------------|
| ✓ | 1 | Electric    | 0.92 | 40 gal | 60 gal | 120 deg | None         |

### SOLAR HOT WATER SYSTEM

|   | FSEC | Company Name | System Model # | Collector Model # | Collector Area | Storage Volume  | FEF |
|---|------|--------------|----------------|-------------------|----------------|-----------------|-----|
| ✓ | None | None         |                |                   |                | ft <sup>2</sup> |     |

### DUCTS

|   | # | --- Supply --- |         |                     | --- Return --- |                     | Leakage Type    | Air Handler | CFM 25 | Percent Leakage | QN | RLF |
|---|---|----------------|---------|---------------------|----------------|---------------------|-----------------|-------------|--------|-----------------|----|-----|
|   |   | Location       | R-Value | Area                | Location       | Area                |                 |             |        |                 |    |     |
| ✓ | 1 | Attic          | 6       | 810 ft <sup>2</sup> | Attic          | 162 ft <sup>2</sup> | Default Leakage | Garage      |        |                 |    |     |

### TEMPERATURES

|                                          |                                     |       |                                     |               |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
|------------------------------------------|-------------------------------------|-------|-------------------------------------|---------------|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|-------------------------------------|-----|
| Programable Thermostat: Y                |                                     |       |                                     | Ceiling Fans: |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
| Cooling                                  | <input checked="" type="checkbox"/> | Jan   | <input checked="" type="checkbox"/> | Feb           | <input checked="" type="checkbox"/> | Mar | <input checked="" type="checkbox"/> | Apr | <input checked="" type="checkbox"/> | May | <input checked="" type="checkbox"/> | Jun | <input checked="" type="checkbox"/> | Jul | <input checked="" type="checkbox"/> | Aug | <input checked="" type="checkbox"/> | Sep | <input checked="" type="checkbox"/> | Oct | <input checked="" type="checkbox"/> | Nov | <input checked="" type="checkbox"/> | Dec |
| Heating                                  | <input checked="" type="checkbox"/> | Jan   | <input checked="" type="checkbox"/> | Feb           | <input checked="" type="checkbox"/> | Mar | <input checked="" type="checkbox"/> | Apr | <input checked="" type="checkbox"/> | May | <input checked="" type="checkbox"/> | Jun | <input checked="" type="checkbox"/> | Jul | <input checked="" type="checkbox"/> | Aug | <input checked="" type="checkbox"/> | Sep | <input checked="" type="checkbox"/> | Oct | <input checked="" type="checkbox"/> | Nov | <input checked="" type="checkbox"/> | Dec |
| Venting                                  | <input checked="" type="checkbox"/> | Jan   | <input checked="" type="checkbox"/> | Feb           | <input checked="" type="checkbox"/> | Mar | <input checked="" type="checkbox"/> | Apr | <input checked="" type="checkbox"/> | May | <input checked="" type="checkbox"/> | Jun | <input checked="" type="checkbox"/> | Jul | <input checked="" type="checkbox"/> | Aug | <input checked="" type="checkbox"/> | Sep | <input checked="" type="checkbox"/> | Oct | <input checked="" type="checkbox"/> | Nov | <input checked="" type="checkbox"/> | Dec |
| Thermostat Schedule: HERS 2006 Reference |                                     | Hours |                                     |               |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
| Schedule Type                            |                                     |       | 1                                   | 2             | 3                                   | 4   | 5                                   | 6   | 7                                   | 8   | 9                                   | 10  | 11                                  | 12  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
| Cooling (WD)                             | AM                                  |       | 78                                  | 78            | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  | 80                                  | 80  | 80                                  | 80  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
|                                          | PM                                  |       | 80                                  | 80            | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
| Cooling (WEH)                            | AM                                  |       | 78                                  | 78            | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
|                                          | PM                                  |       | 78                                  | 78            | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  | 78                                  | 78  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
| Heating (WD)                             | AM                                  |       | 66                                  | 66            | 66                                  | 66  | 66                                  | 68  | 68                                  | 68  | 68                                  | 68  | 68                                  | 68  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
|                                          | PM                                  |       | 68                                  | 68            | 68                                  | 68  | 68                                  | 68  | 68                                  | 68  | 68                                  | 68  | 66                                  | 66  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
| Heating (WEH)                            | AM                                  |       | 66                                  | 66            | 66                                  | 66  | 66                                  | 68  | 68                                  | 68  | 68                                  | 68  | 68                                  | 68  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |
|                                          | PM                                  |       | 68                                  | 68            | 68                                  | 68  | 68                                  | 68  | 68                                  | 68  | 68                                  | 68  | 66                                  | 66  |                                     |     |                                     |     |                                     |     |                                     |     |                                     |     |

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: 2148 SW SR47

PERMIT #:

Lake City, FL, 32055-

**INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

| COMPONENTS                    | SECTION        | REQUIREMENTS FOR EACH PRACTICE                                                                                                                                                                                                                                                                                                                                                                                            | CHECK |
|-------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Exterior Windows & Doors      | N1106.AB.1.1   | Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.                                                                                                                                                                                                                                                                                                                                                              | ✓     |
| Exterior & Adjacent Walls     | N1106.AB.1.2.1 | Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor.<br>EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate. | ✓     |
| Floors                        | N1106.AB.1.2.2 | Penetrations/openings > 1/8" sealed unless backed by truss or joint members.<br>EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.                                                                                                                                                                                                     | ✓     |
| Ceilings                      | N1106.AB.1.2.3 | Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access.<br>EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.                                                                     | ✓     |
| Recessed Lighting Fixtures    | N1106.AB.1.2.4 | Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.                                                                                                                                                                                                                 | ✓     |
| Multi-story Houses            | N1106.AB.1.2.5 | Air barrier on perimeter of floor cavity between floors.                                                                                                                                                                                                                                                                                                                                                                  | N/A   |
| Additional Infiltration reqts | N1106.AB.1.3   | Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.                                                                                                                                                                                                                                                                                                                 | ✓     |

**OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

| COMPONENTS               | SECTION                   | REQUIREMENTS                                                                                                                                                                                                                              | CHECK |
|--------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Water Heaters            | N1112.AB.3                | Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.                                                   | ✓     |
| Swimming Pools & Spas    | N1112.AB.2.3              | Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.    | N/A   |
| Shower heads             | N1112.AB.2.4              | Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.                                                                                                                                                          | ✓     |
| Air Distribution Systems | 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.<br>Ducts in unconditioned attics: R-6 min. insulation. | ✓     |
| HVAC Controls            | N1107.AB.2                | Separate readily accessible manual or automatic thermostat for each system.                                                                                                                                                               | ✓     |
| Insulation               | N1104.AB.1<br>N1102.B.1.1 | Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.                                                                                                                                          | ✓     |



**COLUMBIA COUNTY BUILDING DEPARTMENT  
RESIDENTIAL CHECK LIST REQUIREMENTS**

**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 |     |    |     |

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**

| <b>GENERAL REQUIREMENTS:<br/>APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</b> |                                                                                                                                                                                                     | <b>Items to Include-<br/>Each Box shall be<br/>Circled as<br/>Applicable</b> |      |       |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------|-------|
|                                                                                                 |                                                                                                                                                                                                     | IIIII                                                                        | IIII | IIIII |
|                                                                                                 |                                                                                                                                                                                                     | YES                                                                          | NO   | N/A   |
| 8                                                                                               | Plans or specifications must show compliance with FBCR Chapter 3                                                                                                                                    |                                                                              |      |       |
| 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/m <sup>2</sup> ), to be used for the design of exterior component, cladding materials not specifically 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)**

|                                                                                                       |                                                                                                |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>GENERAL REQUIREMENTS:</b><br><b>APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</b> | <b>Items to Include-</b><br><b>Each Box shall be</b><br><b>Circled as</b><br><b>Applicable</b> |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

**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.<br>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 piers |  |  |  |
| 41 | Girder type, size and spacing to load bearing walls, stem wall and/or piers                                           |  |  |  |
| 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**

|                                                                                                 |  |                                                                              |  |  |
|-------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|--|
| <b>GENERAL REQUIREMENTS:<br/>APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</b> |  | <b>Items to Include-<br/>Each Box shall be<br/>Circled as<br/>Applicable</b> |  |  |
|-------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|--|

|    |                                                                                                                                                                                                                      | 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 chapter 11 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*

| <b>GENERAL REQUIREMENTS:</b><br><b>APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</b> |                                                                      | <b>Items to Include-<br/>                     Each Box shall be<br/>                     Circled as<br/>                     Applicable</b> |    |     |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|                                                                                                       |                                                                      | 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.

|                                                                                                       |                                                                                                |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>GENERAL REQUIREMENTS:</b><br><b>APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL</b> | <b>Items to Include-</b><br><b>Each Box shall be</b><br><b>Circled as</b><br><b>Applicable</b> |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

**THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS**

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | YES | NO | N/A |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----|
| 92  | <b>Building Permit Application</b> A current Building Permit Application form is to be completed and submitted for all residential projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |    |     |
| 93  | <b>Parcel Number</b> The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |    |     |
| 94  | <b>Environmental Health Permit or Sewer Tap Approval</b> A copy of a approved Columbia County Environmental Health (386) 758-1058                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |    |     |
| 95  | <b>City of Lake City</b> A permit showing an approved waste water sewer tap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |    |     |
| 96  | <b>Toilet facilities shall be provided for all construction sites</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |     |
| 97  | <b>Town of Fort White</b> (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  | <b>Flood Information:</b> 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  | <b>CERTIFIED FINISHED FLOOR ELEVATIONS</b> 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 <b>\$50.00</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |     |
| 101 | <b>Driveway Connection:</b> If the property does not have an existing access to a public road, then an application for a culvert permit ( <b>\$25.00</b> ) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ( <b>\$50.00</b> ). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.                                                                                                                                                                                                                                                             |     |    |     |
| 102 | <b>911 Address:</b> If the project is located in an area where a 911 address has not been issued, then application for a 911 address must be applied for and <b>received</b> through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125                                                                                                                                                                                                                                                                                                                                                                      |     |    |     |

**PRODUCT APPROVAL SPECIFICATION SHEET**

Location: \_\_\_\_\_

Project Name: \_\_\_\_\_

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](http://www.floridabuilding.org)

| Category/Subcategory       | Manufacturer      | Product Description | Approval Number(s)   |
|----------------------------|-------------------|---------------------|----------------------|
| <b>A. EXTERIOR DOORS</b>   |                   |                     |                      |
| 1. Swinging                |                   |                     |                      |
| 2. Sliding                 |                   |                     |                      |
| 3. Sectional               |                   |                     |                      |
| 4. Roll up                 | N/A               |                     |                      |
| 5. Automatic               | N/A               |                     |                      |
| 6. Other                   | —                 |                     |                      |
| <b>B. WINDOWS</b>          |                   |                     |                      |
| 1. Single hung             | Capital/Jordan    |                     | FL 675 / FL 1318     |
| 2. Horizontal Slider       | " "               |                     | FL 685 / FL 1354     |
| 3. Casement                | —                 |                     |                      |
| 4. Double Hung             | —                 |                     |                      |
| 5. Fixed                   | C/T               |                     |                      |
| 6. Awning                  | —                 |                     | FL 681 / FL 1383     |
| 7. Pass-through            | —                 |                     |                      |
| 8. Projected               | —                 |                     |                      |
| 9. Mullion                 | —                 |                     |                      |
| 10. Wind Breaker           | —                 |                     |                      |
| 11. Dual Action            | —                 |                     |                      |
| 12. Other                  |                   |                     |                      |
| <b>C. PANEL WALL</b>       |                   |                     |                      |
| 1. Siding                  | Hardy Plank       |                     | FL 889-R1            |
| 2. Soffits                 | Ashley Aluminum   |                     | FL 4968              |
| 3. EIFS                    | —                 |                     |                      |
| 4. Storefronts             | —                 |                     |                      |
| 5. Curtain walls           | —                 |                     |                      |
| 6. Wall louver             | —                 |                     |                      |
| 7. Glass block             | —                 |                     |                      |
| 8. Membrane                | —                 |                     |                      |
| 9. Greenhouse              | —                 |                     |                      |
| 10. Other                  |                   |                     |                      |
| <b>D. ROOFING PRODUCTS</b> |                   |                     |                      |
| 1. Asphalt Shingles        | EIK / Certainfeed |                     | FL 728-R1 / FL 250 R |
| 2. Underlayments           | Felt              |                     | FL 1814              |
| 3. Roofing Fasteners       | Nails             |                     | ROA 3378             |
| 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          | —                 |                     |                      |

# 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:ITPC8228Z0220150713

Truss Fabricator: Anderson Truss Company  
Job Identification: 9-033--BRYAN ZECHER Houston -- , \*\*  
Truss Count: 27  
Model Code: Florida Building Code  
Truss Criteria: FBC2007Res/TPI-2002(STD)  
Engineering Software: Alpine Software, Version 8.07.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
the seal date per section 61615-31.003(5a) of the FAC  
Address:  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-05 -Closed



Seal Date: 02/20/2009

-Truss Design Engineer-  
James F. Collins Jr.

Florida License Number: 52212  
1950 Marley Drive  
Haines City, FL 33844

## 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: BRCLBSUB-

| #  | Ref         | Description | Drawing# | Date     |
|----|-------------|-------------|----------|----------|
| 1  | 60854--A1   |             | 09051018 | 02/20/09 |
| 2  | 60855--A2   |             | 09051003 | 02/20/09 |
| 3  | 60856--H7A  |             | 09051004 | 02/20/09 |
| 4  | 60857--H9A  |             | 09051005 | 02/20/09 |
| 5  | 60858--H11A |             | 09051006 | 02/20/09 |
| 6  | 60859--A1   |             | 09051007 | 02/20/09 |
| 7  | 60860--H7B  |             | 09051019 | 02/20/09 |
| 8  | 60861--H9B  |             | 09051009 | 02/20/09 |
| 9  | 60862--H11B |             | 09051007 | 02/20/09 |
| 10 | 60863--H13B |             | 09051001 | 02/20/09 |
| 11 | 60864--B1   |             | 09051008 | 02/20/09 |
| 12 | 60865--B2   |             | 09051020 | 02/20/09 |
| 13 | 60866--B3   |             | 09051017 | 02/20/09 |
| 14 | 60867--J1   |             | 09051004 | 02/20/09 |
| 15 | 60868--J3   |             | 09051003 | 02/20/09 |
| 16 | 60869--J5   |             | 09051002 | 02/20/09 |
| 17 | 60870--J5A  |             | 09051010 | 02/20/09 |
| 18 | 60871--J3A  |             | 09051011 | 02/20/09 |
| 19 | 60872--HJ7A |             | 09051005 | 02/20/09 |
| 20 | 60873--EJ7A |             | 09051013 | 02/20/09 |
| 21 | 60874--EJ7B |             | 09051012 | 02/20/09 |
| 22 | 60875--HJ7  |             | 09051008 | 02/20/09 |
| 23 | 60876--EJ7  |             | 09051009 | 02/20/09 |
| 24 | 60877--PB1  |             | 09051006 | 02/20/09 |
| 25 | 60878--PB2  |             | 09051014 | 02/20/09 |
| 26 | 60879--PB3  |             | 09051015 | 02/20/09 |
| 27 | 60880--PB4  |             | 09051016 | 02/20/09 |





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

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

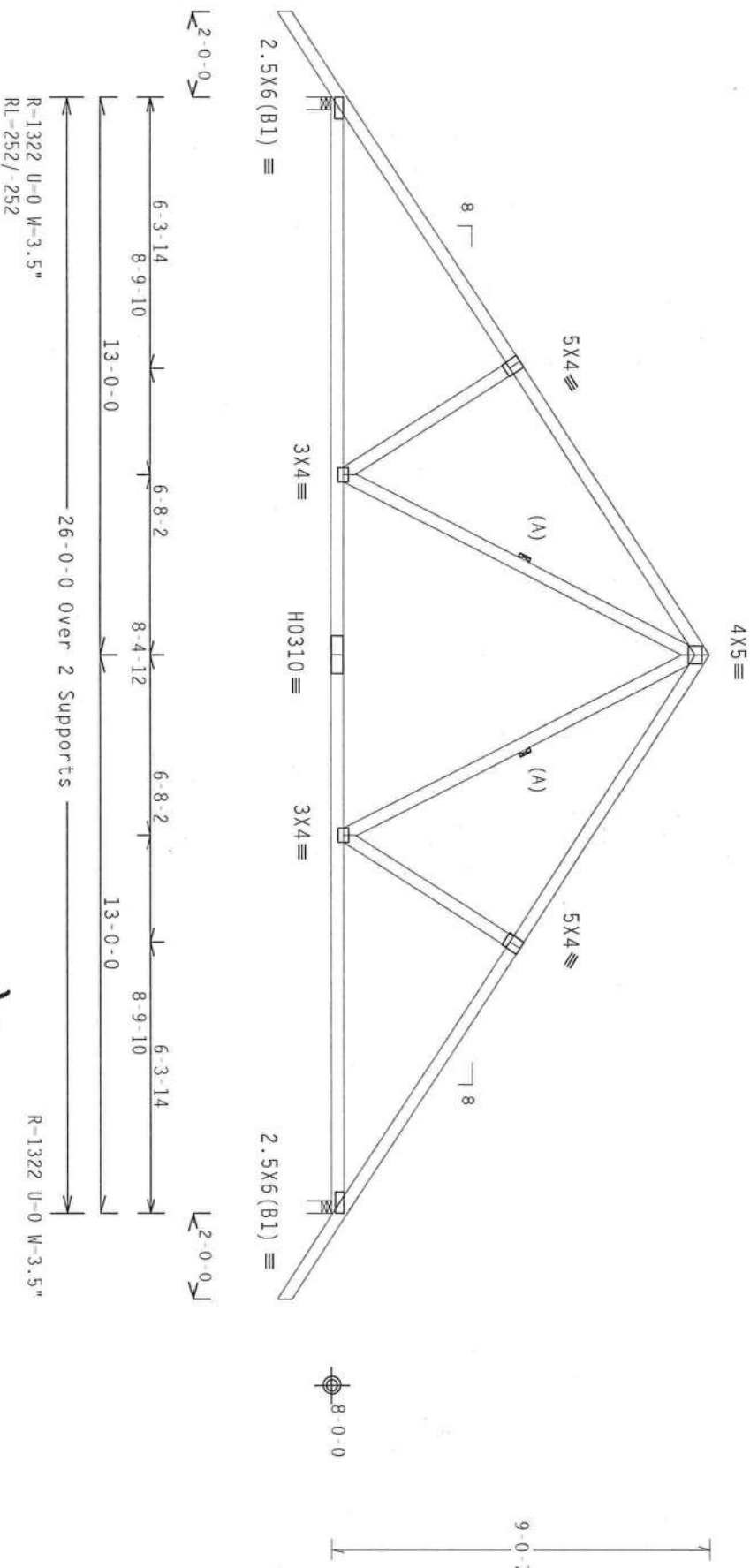
Bottom chord checked for 10.00 psf non concurrent live load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, 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.  $I_w=1.00$   $G_{CPI}(+/-)=-0.18$

Wind reactions based on MMFRS pressures.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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 Crit: FBC2007Res/TPI-2002 (STD)  
 FT/RT=20%(0%)/0(0)

8.07.00.118

QTY: 2

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

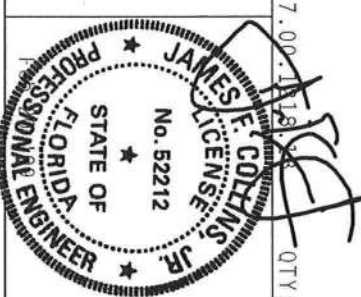
Scale = .25"/ft.



ITW Building Components Group Inc.  
 Haines City, FL 33844  
 FL COA #0 278

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD JOINTS 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\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING OR TO THE CONTRACTOR'S PROPERTY OR TO THE DESIGNER'S REPUTATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE TRUSS IN CONFORMANCE WITH THE DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI. THE BCG CONTRACTOR PLATES ARE MADE OF 20/18/16GA. (W./H./S./K) ASH 6853 GRADE 40/60 (OR K/18/53) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-7. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC. 3. A SEAL ON THIS 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 ASBT/TPI 1 SEC. 2.



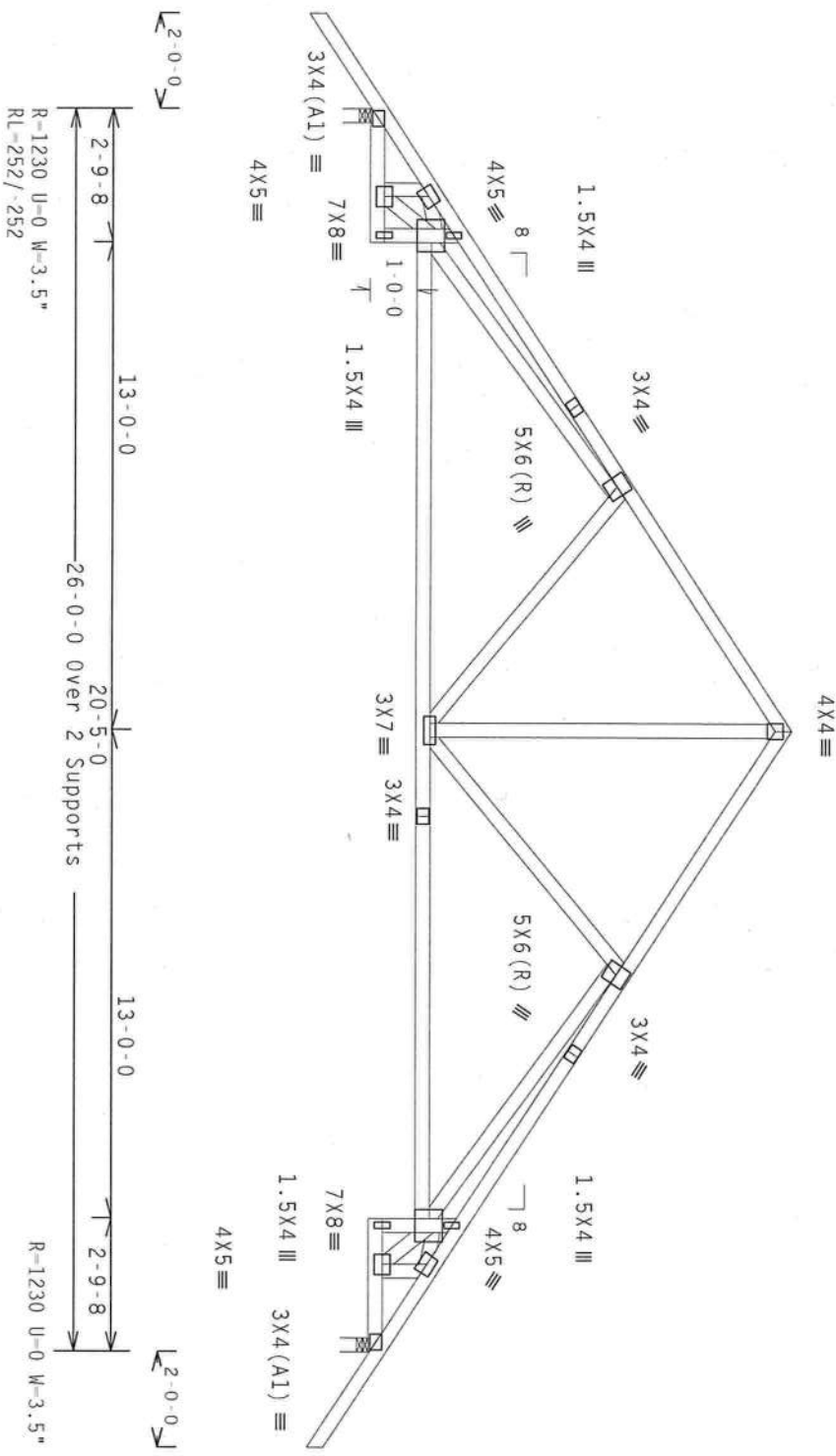
|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R8228- 60854       |
| TC DL     | 10.0 PSF | DATE   | 02/20/09           |
| BC DL     | 10.0 PSF | DRW    | HGUSR8228 09051018 |
| BC LL     | 0.0 PSF  | HC-ENG | DF/DF              |
| TOT. LD.  | 40.0 PSF | SEQN-  | 56892              |
| DUR. FAC. | 1.25     | FROM   | AH                 |
| SPACING   | 24.0"    | JREF-  | ITPC8228Z02        |

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

Roof overhang supports 2.00 psf soffit load.

Calculated horizontal deflection is 0.18" due to live load and 0.29" due to dead load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, 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, W=1.00 GCP(+/-)-0.18  
 Wind reactions based on MWFRS pressures.  
 Bottom chord checked for 10.00 psf non-concurrent live load.  
 Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



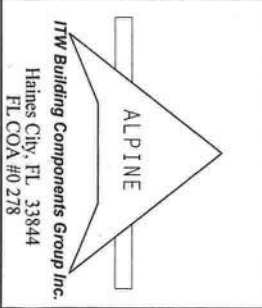
PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)  
 FT/RT=20%(0%)/0(0)

8.07.00.1813

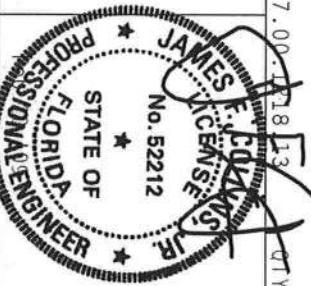
QTY: 9 FL-/4/-/R/-

Scale = .25"/ft.



**\*\*WARNING\*\*** ISSUES FIGURE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSS (INCLUDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND AISC (GOOD TRUSS COUNCIL OF AMERICA, 6300 FORT BELLEVILLE, HANOVER, MD, 21076) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND SPACING SHALL BE PROBABLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE SEAL, NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE SEAL OF THE DESIGNER SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE SEAL OF THE DESIGNER SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE SEAL OF THE DESIGNER SHALL BE THE RESPONSIBILITY OF THE DESIGNER.



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 60855      |
| TC DL    | 10.0 PSF | DATE   | 02/20/09          |
| BC DL    | 10.0 PSF | DRW    | HCSR8228 09051003 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK            |
| TOT.LD.  | 40.0 PSF | SEQN-  | 3894              |
| DUR.FAC. | 1.25     | FROM   | AH                |
| SPACING  | 24.0"    | JREF-  | ITPC8228202       |











Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3 :W13 2x4 SP #2 Dense:

Roof overhang supports 2.00 psf soffit load.

(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3" min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

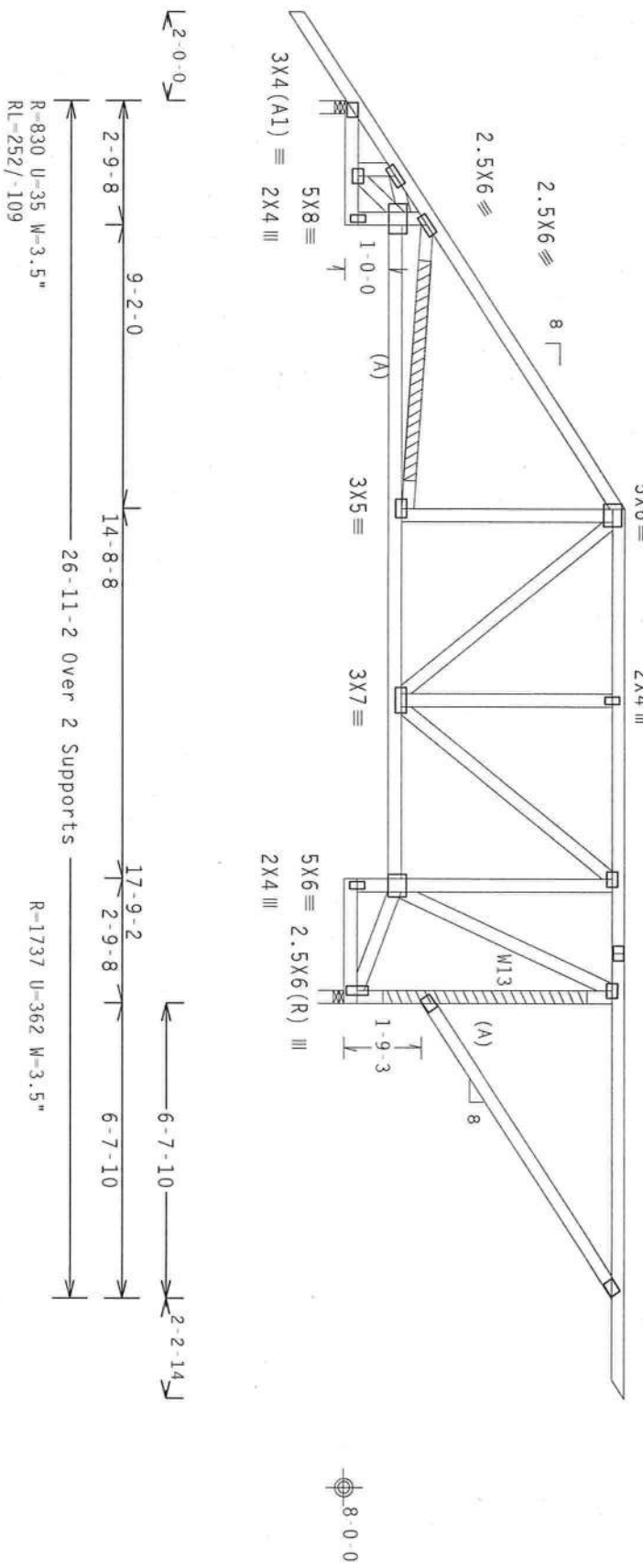
Shim all supports to solid bearing.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, 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.  $I_w=1.00$   $G_{cp1} (+/-)=0.18$

Wind reactions based on MWFRS pressures.

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

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

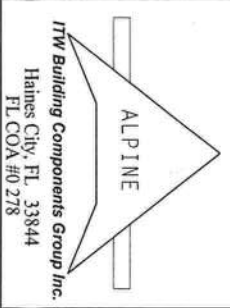
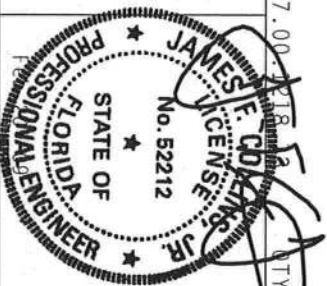


Note: All Plates Are 3X4 Except As Shown.  
 Design Crit: FBC2007Res/TPI-2002 (STD)  
 FT/RT=20% (0%) / 0 (0)

8.07.00  
 Scale = .25" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCES1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND VITA (GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HOUSTON, TX 77039) FOR SAFETY PRACTICES PRIOR TO FABRICATING THESE TRUSSES. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN. ANY EXISTING TRUSS TO BE MODIFIED TO CONFORM WITH THE DESIGN CONGRUOUS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA AND TPI), THE BCG CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA AND TPI), THE BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AIAA AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIAA/TPI 1 SEC. 2.



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 60861      |
| TC DL    | 10.0 PSF | DATE   | 02/20/09          |
| BC DL    | 10.0 PSF | DRW    | HCUR8228 09051009 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK            |
| TOT.LD.  | 40.0 PSF | SEQN-  | 57828             |
| DUR.FAC. | 1.25     | FROM   | AH                |
| SPACING  | 24.0"    | JREF-  | ITPC8228Z02       |





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

Roof overhang supports 2.00 psf soffit load.

(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non concurrent live load.

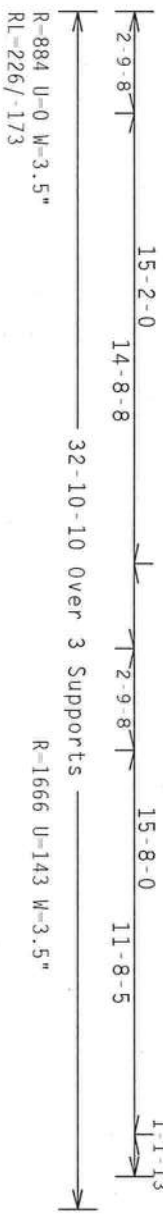
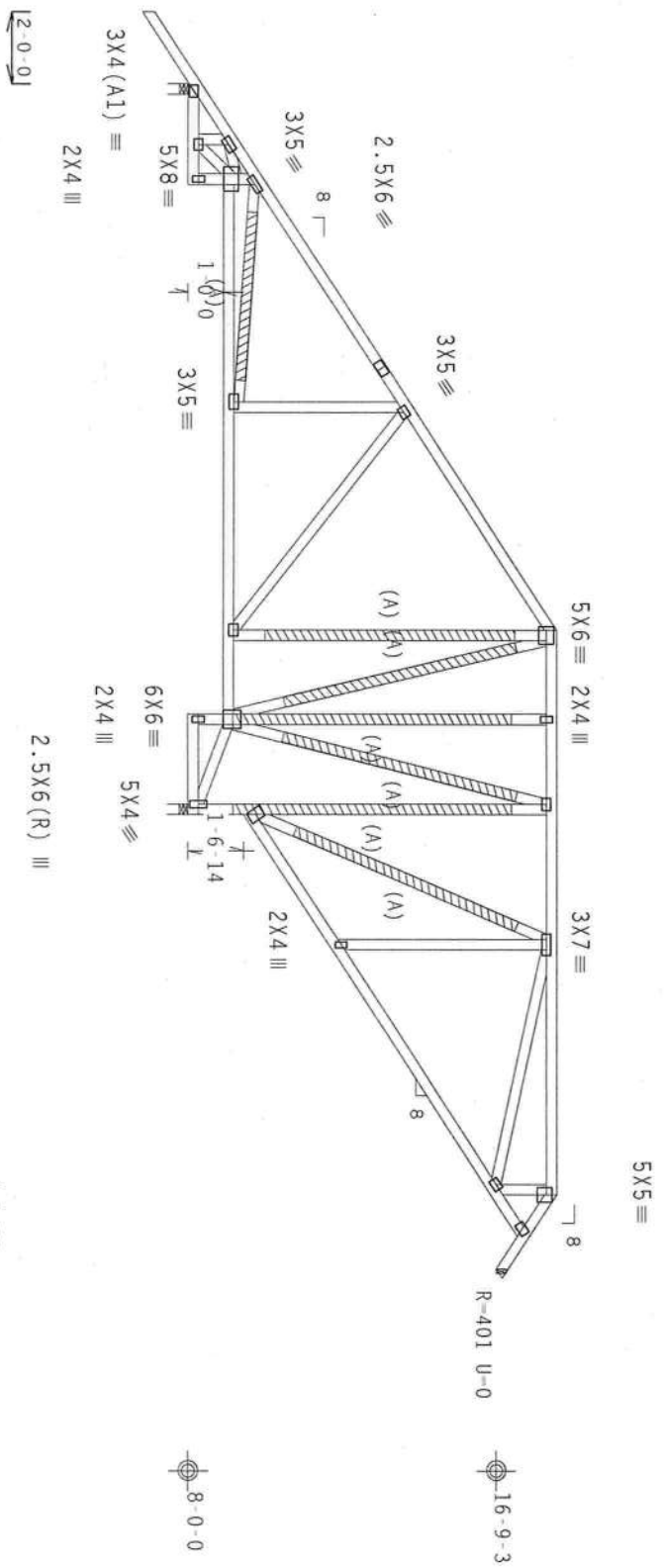
Shim all supports to solid bearing.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, 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 MMFRS pressures.

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

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



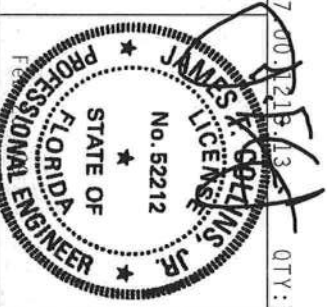
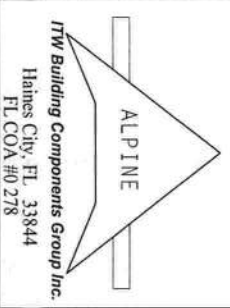
Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave Design Crit: FBC2007Res/TPI-2002(STD) FT/RT=20%(0%)/0(0)

Scale = .1875"/ft. QTY: 1 FL/-/4/-/1-/R/-

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (INCLUDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RISER CELLING.

**\*\*IMPORTANT\*\*** PURCHASE A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE SELLER NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. BY ARAVA AND TPI. THE BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ARAVA AND TPI. THE BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (G./H./SS/K) ASTM A653 GRADE 40/60 (H. K./U./SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ARAVA AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



|           |          |        |                   |
|-----------|----------|--------|-------------------|
| TC LL     | 20.0 PSF | REF    | R8228- 60864      |
| TC DL     | 10.0 PSF | DATE   | 02/20/09          |
| BC DL     | 10.0 PSF | DRW    | HCUR8228 09051008 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WHK            |
| TOT. LD.  | 40.0 PSF | SEQN-  | 57916             |
| DUR. FAC. | 1.25     | FROM   | AH                |
| SPACING   | 24.0"    | JREF-  | 1TPC8228202       |





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

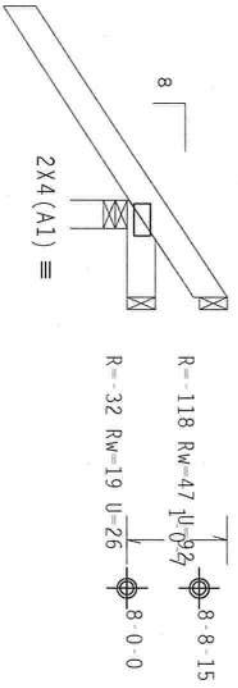
Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 gcpl (+/-)-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.



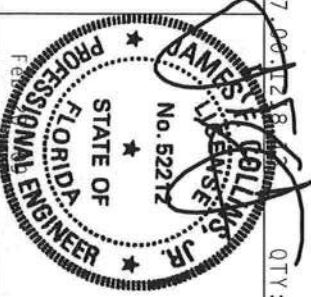
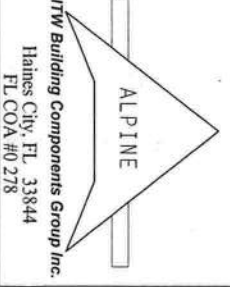
2'-0'-0" Overhang  
1'-0'-0" Over 3 Supports  
R=372 U=77 W=3.5"  
RL=45/-42

Design Crit: FBC2007Res/TPI-2002 (STD)

PLT TYP. Wave

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HOUSTON, TX 52719) 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\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF THIS TRUSS OR THE INSTALLATION OF THE TRUSS IN CONFORMANCE WITH THE DESIGN. THE TRUSS IS TO BE INSTALLED IN ACCORDANCE WITH THE DESIGN AND THE TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING OF TRUSSES, BY ACPA) AND TPI. THE BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. THE BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (N/A/55AK) ASTM A653 GRADE 40/60 (K, K/H, S5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER A3 OF TPI-2002 SEC.3. A SEAL ON THIS 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 AMST/TP1 1 SEC. 2.



|                  |                       |
|------------------|-----------------------|
| FL/-/4/-/1/R/-   | Scale = .5"/Ft.       |
| TC LL 20.0 PSF   | REF R8228- 60867      |
| TC DL 10.0 PSF   | DATE 02/20/09         |
| BC DL 10.0 PSF   | DRW HCUR8228 09051004 |
| BC LL 0.0 PSF    | HC-ENG DF/DF          |
| TOT.LD. 40.0 PSF | SECN- 56804           |
| DUR.FAC. 1.25    | FROM AH               |
| SPACING 24.0"    | JREF- 1TTC8228202     |

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

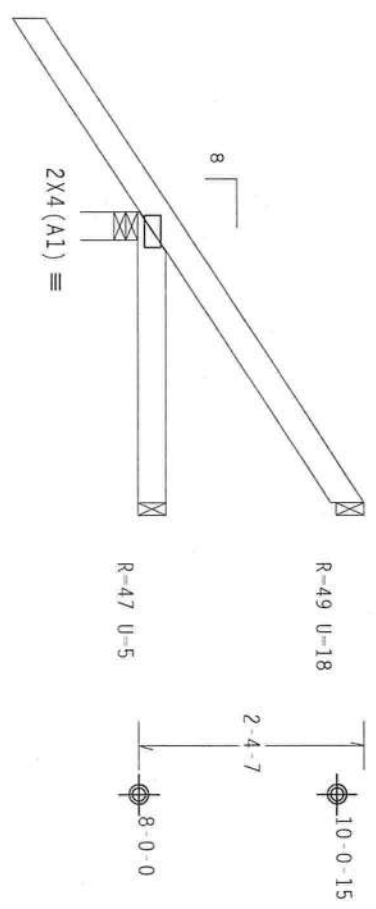
Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, 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 MMFRS pressures.

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



Design Crit: FBC2007Res/TPI-2002 (STD)

PLT TYP. Wave

FT/RT=20%(0%)/0(0)

8.07.09

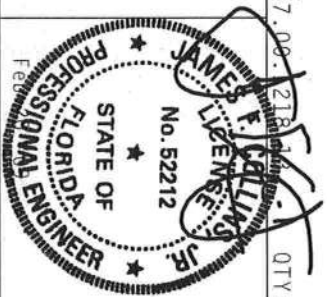
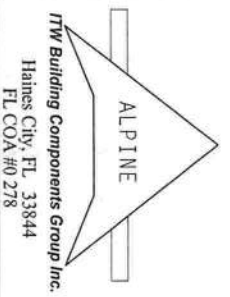
QTY: 4

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

Scale = .5" / Ft.

**\*\*WARNING\*\*** BOSSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LANE, HOUSTON, TX 52719) 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\*\*** WARNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THIS DESIGN. THE TRUSS IS TO BE CONFORMANT WITH THE BCG DESIGN FOR HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HOS (NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI. THE BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA. 64-H/55K/ASPH AGES GRADE 40/60 CH. 8/H.55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-2002 SEC.3. A SEAL ON THIS 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 AS/17P1 1 SEC. 2.



|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R8228-60868        |
| TC DL     | 10.0 PSF | DATE   | 02/20/09           |
| BC DL     | 10.0 PSF | DRW    | HCU5R8228 09051003 |
| BC LL     | 0.0 PSF  | HC-ENG | DF/DF              |
| TOT. LD.  | 40.0 PSF | SEQN-  | 56809              |
| DUR. FAC. | 1.25     | FROM   | AH                 |
| SPACING   | 24.0"    | JREF-  | ITPC8228202        |



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

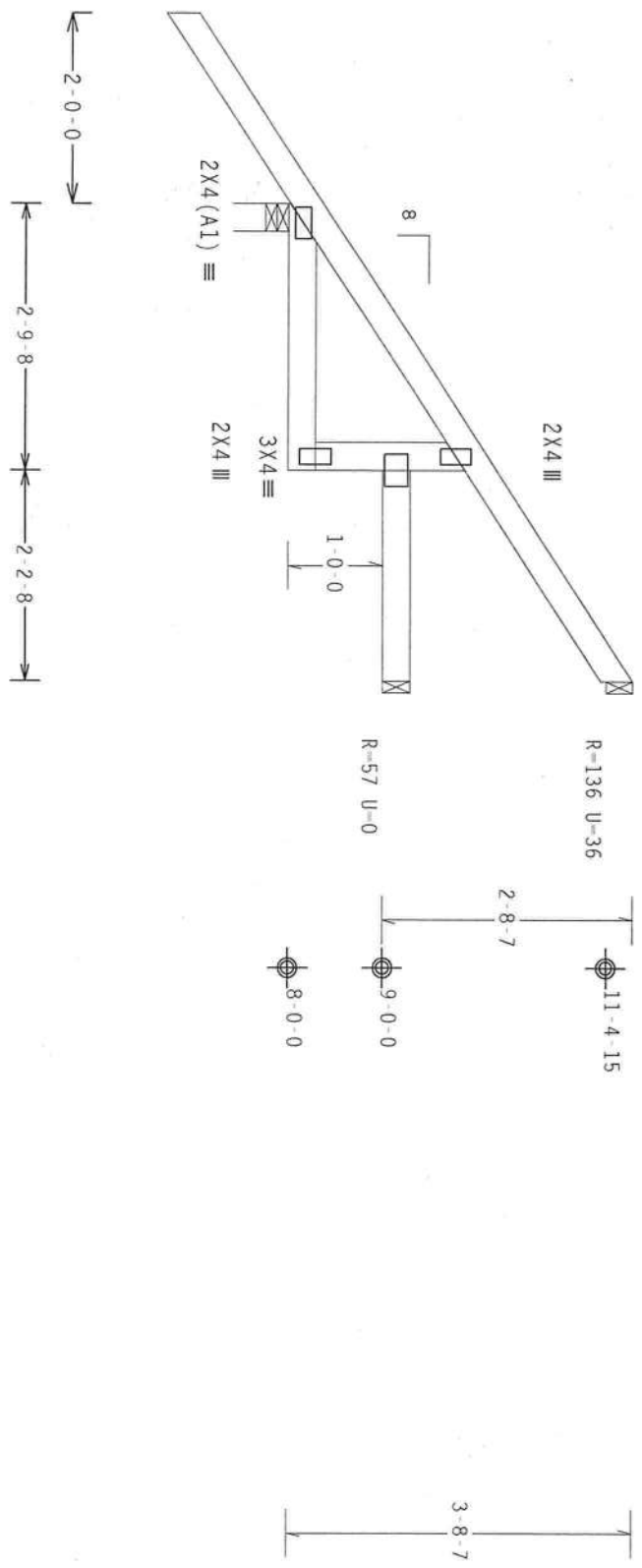
Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, 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.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$

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.



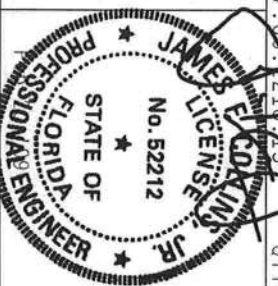
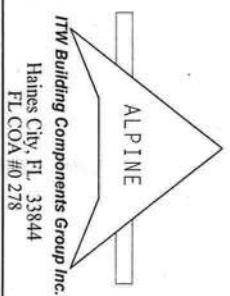
R=387 U-19 W-3.5"  
 RL=107/-60

Design Crit: FBC2007Res/TP1-2002 (STD)

PLT TYP. Wave

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC'S (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6900 WOODLAWN, ARLINGTON, VA, 22207) FOR SAFETY PRACTICES PERTAINING TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL STEEL SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE REG. ENG. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CORRECTIONS WITH APPLICABLE PROVISIONS OF AISC (ADDITIONAL DESIGN SPEC. BY AISC) AND TPI. THE REG. ENGINEER'S DESIGN CORRECTIONS ARE NOT TO BE MADE UNLESS OTHERWISE LOCATED ON THIS DESIGN. FOR ADDITIONAL INFORMATION, CONTACT THE REG. ENGINEER OR THE PROFESSIONAL ENGINEER RESPONSIBLE SOLELY FOR THE TRUSS COMPONENT DESIGN. THE REG. ENGINEER'S DESIGN SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIAA/TP1 1 SEC. 2.



|                 |          |                        |
|-----------------|----------|------------------------|
| FL/-/4/-/1-/R/- | QTY: 2   | Scale = .5"/ft.        |
| TC LL           | 20.0 PSF | REF R8228- 60870       |
| TC DL           | 10.0 PSF | DATE 02/20/09          |
| BC DL           | 10.0 PSF | DRW HCUSR8228 09051010 |
| BC LL           | 0.0 PSF  | HC-ENG DF/DF           |
| TOT.LD.         | 40.0 PSF | SEQN- 57172            |
| DUR.FAC.        | 1.25     | FROM AH                |
| SPACING         | 24.0"    | JREF- ITPC8228202      |

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

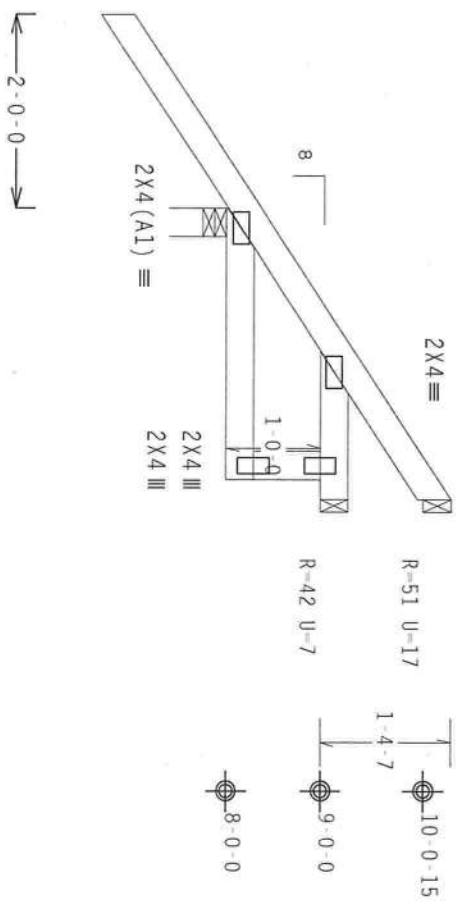
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 Gcpl(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

Wind reactions based on MMFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



2'-9-8  
 1'-5-10  
 1'-3-14-0  
 1'-3-0-0 Over 3 Supports  
 R-325 U-29 W-3.5"  
 RL=76/51

Design Crit: FBC2007Res/TPI-2002 (STD)

PLT TYP. Wave

FT/RT=20%(0%)/0(0)

8.07.00.22/13

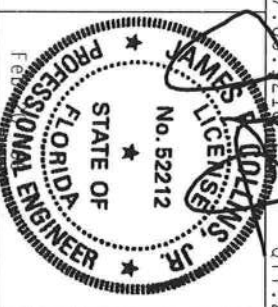
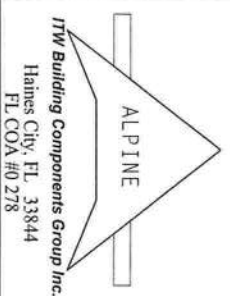
QTY: 2

FL/-/4/-/1-/R/-

Scale = .5"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DECS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 BRIMFIELD LANE, HANOVER, NH, 03755) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED BY DIMENSIONS, ALL DIMENSIONS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID DETAILING.

**\*\*IMPORTANT\*\*** UNLESS A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FACTORS OF THE TRUSS IN CONFORMANCE WITH TPI: ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBC (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 201/19166A (A/R/S/S/K) ASTM A563 GRADE 40/60 (A, K/US) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA A3 OF TPI-2002 SEC. 3. A SEAL ON THIS BRACING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASST/TPI 1 SEC. 2.



|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 60871       |
| TC DL    | 10.0 PSF | DATE   | 02/20/09           |
| BC DL    | 10.0 PSF | DRW    | HCUSR8228 09051011 |
| BC LL    | 0.0 PSF  | HC-ENG | DF/DF              |
| TOT.LD.  | 40.0 PSF | SEON-  | 57177              |
| DUR.FAC. | 1.25     | FROM   | AH                 |
| SPACING  | 24.0"    | JREF-  | 1TPC8228Z02        |

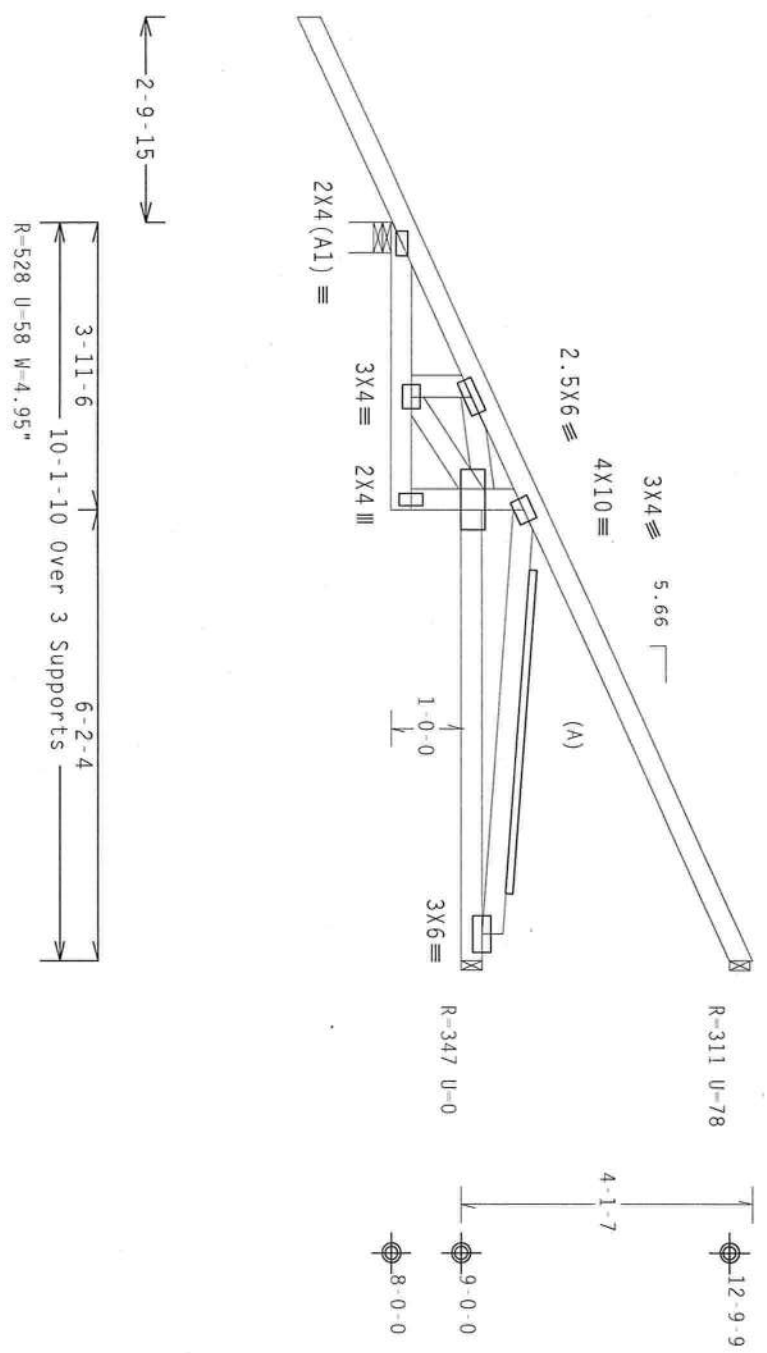
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

(A) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5".min.)nails @ 6" OC.

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 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpl(+/-)=0.18

Wind reactions based on MWFRS pressures.  
Hipjack supports 7-2.0 setback jacks. Jacks up to 7' have no webs. Longer jacks supported to BC.

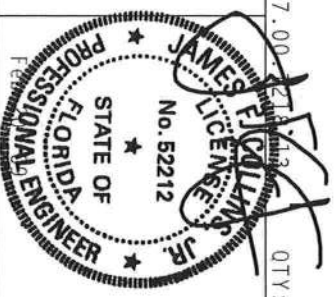
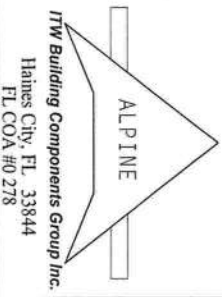


Design Crit: FBC2007Res/TPI-2002 (STD)  
FT/RT=20% (0%)/0(0)

PLT TYP. Wave

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND VITA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MOONISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE REG. INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING OR TO THE TRUSS FABRICATOR. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR THE TRUSS FABRICATION, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR THE TRUSS FABRICATION, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR THE TRUSS FABRICATION, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR THE TRUSS FABRICATION, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR THE TRUSS FABRICATION, SHIPPING, INSTALLING AND BRACING OF TRUSSES.



|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R8228- 60872       |
| TC DL     | 10.0 PSF | DATE   | 02/20/09           |
| BC DL     | 10.0 PSF | DRW    | HCUSR8228 09051005 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WHK             |
| TOT. LD.  | 40.0 PSF | SEQN-  | 57326              |
| DUR. FAC. | 1.25     | FROM   | AH                 |
| SPACING   | 24.0"    | REF-   | ITPC8228Z02        |

Scale = .375"/ft.

QTY: 1

FL/-/4/-/1/-/R/-

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

Roof overhang supports 2.00 psf soffit load.

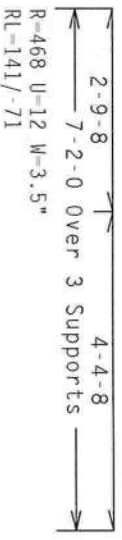
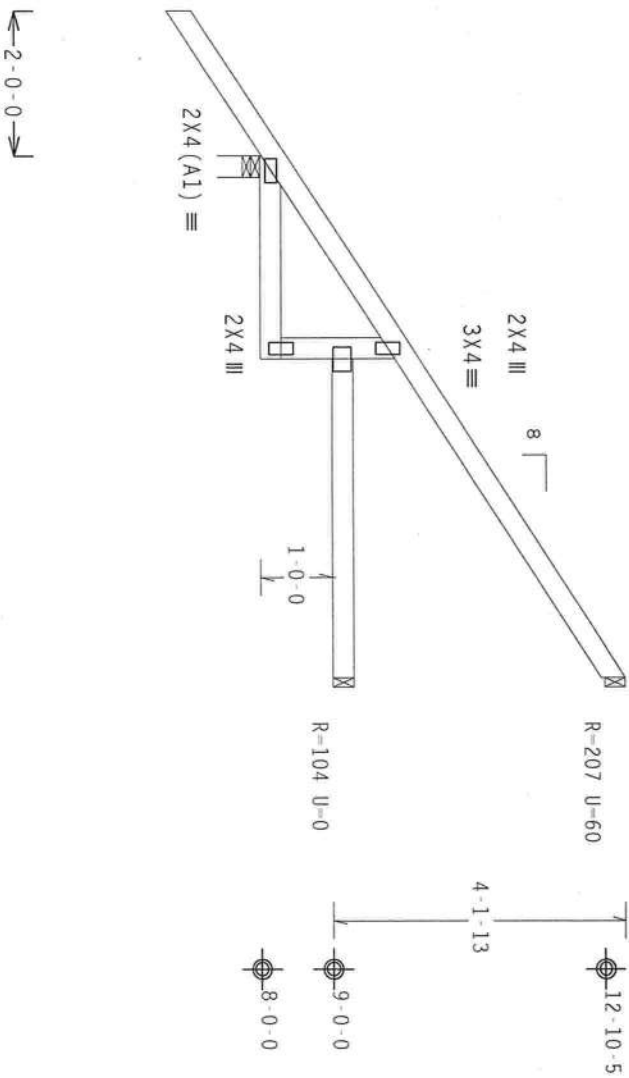
Calculated horizontal deflection is 0.12" due to live load and 0.18" due to dead load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, 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.  $I_w=1.00$   $G_{cp1}(+/-)=0.18$

Wind reactions based on MWFRS pressures.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



Design Crit: FBC2007Res/TPI-2002(STD)  
FT/RT=20%(0%)/0(0)

PLT TYP. Wave

8.07.00.1213

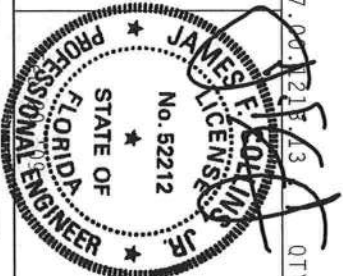
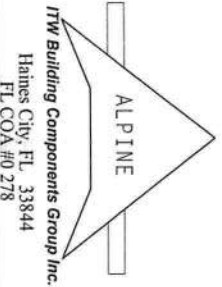
QTY: 6

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

Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXPERIENCE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR 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 FOLLOW THE CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWSI/TPI 1 SEC. 2.



|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R8228- 60873       |
| TC DL     | 10.0 PSF | DATE   | 02/20/09           |
| BC DL     | 10.0 PSF | DRW    | HCUSR8228 09051013 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/MHK             |
| TOT. LD.  | 40.0 PSF | SEQN-  | 57330              |
| DUR. FAC. | 1.25     | FROM   | AH                 |
| SPACING   | 24.0"    | JREF-  | 1TPC8228Z02        |



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

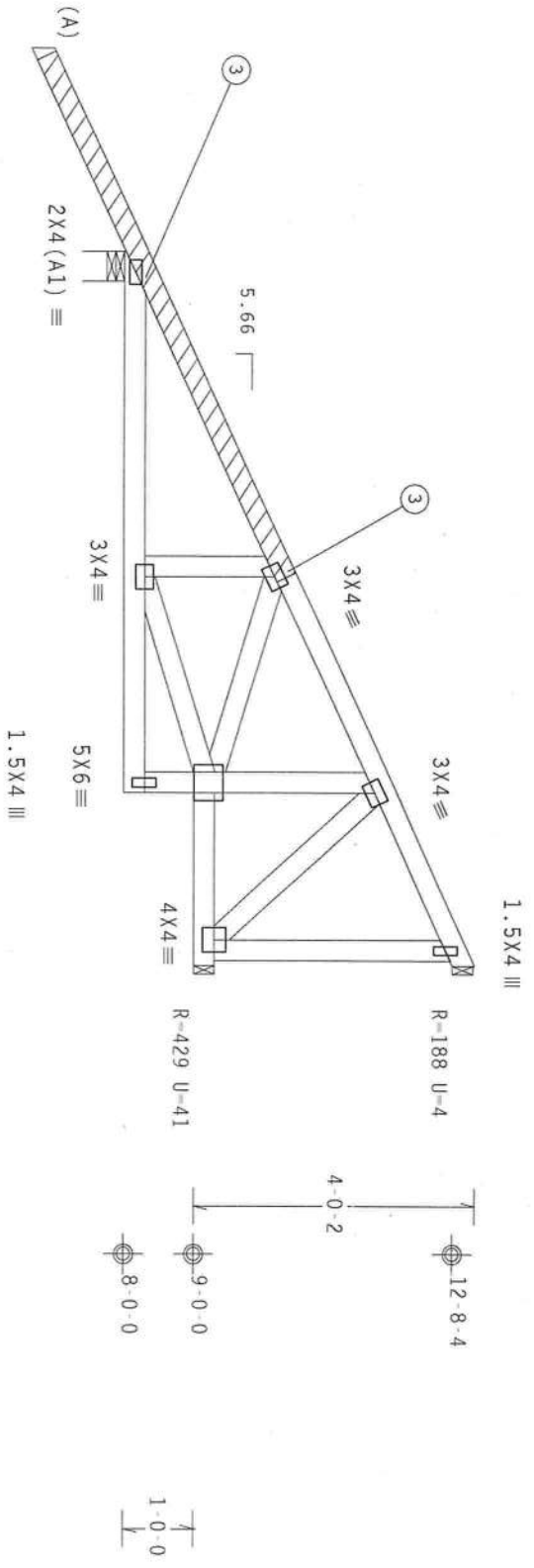
Hipjack supports 7-0-0 setback jacks with no webs.

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

(A) (1) 2x4x 8-0-0 SP #2 DENSE SCAB: ATTACH TO ONE FACE OF TRUSS WITH 10d BOX (0.128"x3.0") NAILS @ 6" OC, PLUS NAIL CLUSTERS AS SHOWN BY MAIL CIRCLES WITHOUT SPLITTING LUMBER.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, located anywhere in roof, 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.



9-10-13 Over 3 Supports  
2-9-15  
R=553 U-64 W-4.95"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)  
FT/RT=20% (0%)/0 (0)

8.07.00

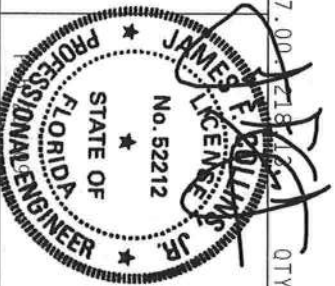
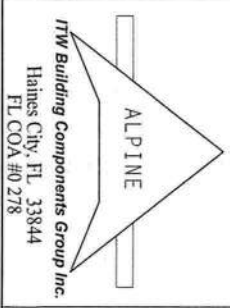
QTY: 2

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

Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCES (LOADING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 E. HUNTER STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND AISC (AISC TRUSS CONCEPTS OF AMERICA, 1100 NORTH 17TH STREET, SUITE 100, DENVER, CO, 80202) FOR THE PROPER PRACTICES TO BE FOLLOWED IN THE FIELD. 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 SCALES, THE SIZES, NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. REFER TO RCES (LOADING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 E. HUNTER STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND AISC (AISC TRUSS CONCEPTS OF AMERICA, 1100 NORTH 17TH STREET, SUITE 100, DENVER, CO, 80202) FOR THE PROPER PRACTICES TO BE FOLLOWED IN THE FIELD. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R8228- 60875       |
| TC DL     | 10.0 PSF | DATE   | 02/20/09           |
| BC DL     | 10.0 PSF | DRW    | HCUSR8228 09051008 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WHK             |
| TOT. LD.  | 40.0 PSF | SEQN-  | 3951               |
| DUR. FAC. | 1.25     | FROM   | AH                 |
| SPACING   | 24.0"    | JREF-  | ITPC8228Z02        |



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

110 mph wind, 19.15 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, Wind BC DL=2.0 psf. 1w=1.00 GCpl(+/-)=0.18

Wind reactions based on MFRS pressures.

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

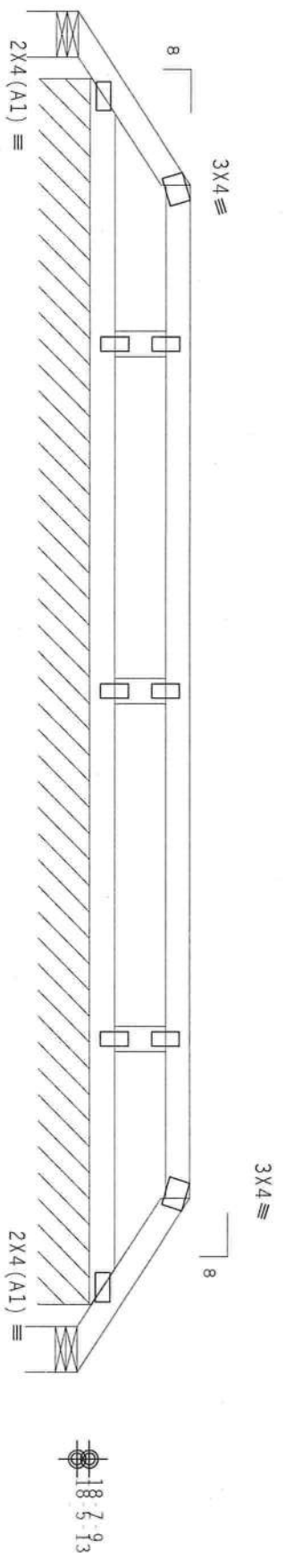
Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

**SPECIAL LOADS**

----- (LUMBER DUR.FAC. -1.25 / PLATE DUR.FAC. -1.25)

|           |                          |
|-----------|--------------------------|
| TC - From | 64 PLF at 0.00 to 2.00   |
| TC - From | 64 PLF at 2.00 to 13.67  |
| TC - From | 64 PLF at 13.67 to 15.67 |
| BC - From | 4 PLF at 0.00 to 15.67   |

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.

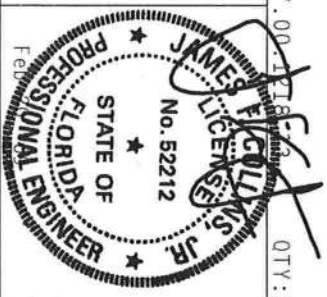
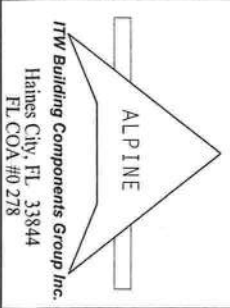


R-10 Rw-19 U-18 W-6.31"  
RL-27/R272 PLF U-17 PLF W-14-1-6  
15-8-0 Over 3 Supports  
R-10 U-2 W-6.311"

PLT TYP. Wave  
Design Crit: FBC2007Res/TPI-2002 (STD)  
FT/RT=20%(0%)/0(0)

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND VITA, 10000 TRUSS CONCISE OF AMERICA, 6100 ENTERPRISE LANE, PROCTOR, MD, 20719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEFICIENCY FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND VITA, 10000 TRUSS CONCISE OF AMERICA, 6100 ENTERPRISE LANE, PROCTOR, MD, 20719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



QTY: 1

|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R8228- 60877       |
| TC DL     | 10.0 PSF | DATE   | 02/20/09           |
| BC DL     | 10.0 PSF | DRN    | HCU5R8228 09051006 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WHK             |
| TOT. LD.  | 40.0 PSF | SEQN-  | 57968              |
| DUR. FAC. | 1.25     | FROM   | AH                 |
| SPACING   | 24.0"    | REF-   | ITPC8228202        |

Scale = .5"/ft.



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

110 mph wind, 20.48 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, wind BC DL=2.0 psf.  $I_w=1.00$   $Gcpl(+/-)=0.18$

Wind reactions based on MMFRS pressures.

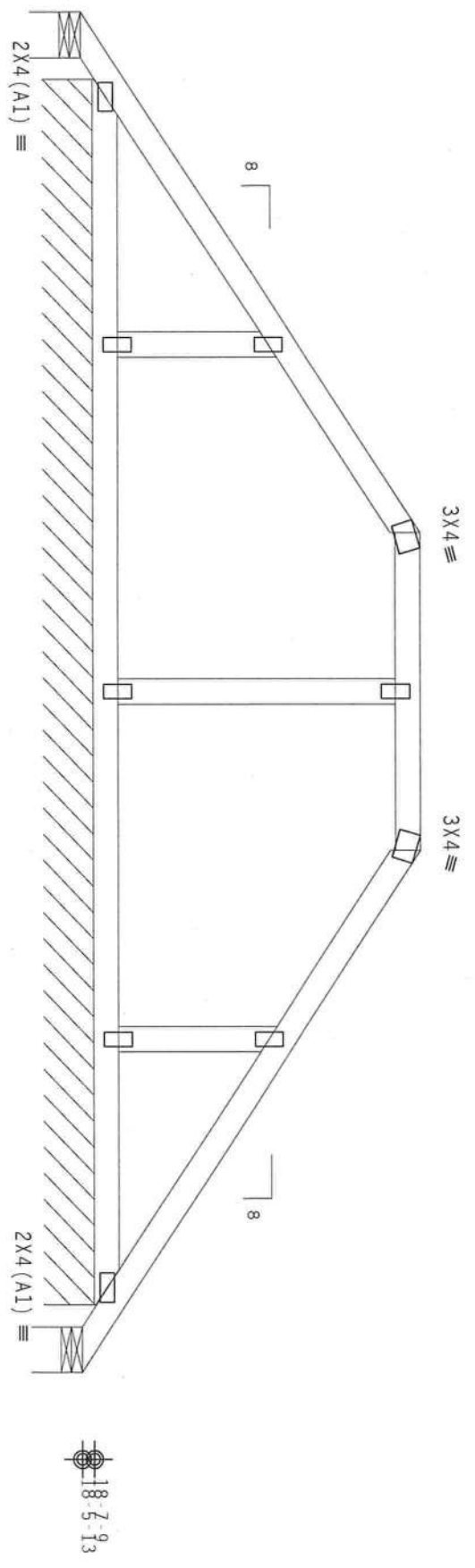
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

**SPECIAL LOADS**

|           |                         |                 |
|-----------|-------------------------|-----------------|
| TC - From | DUR.FAC. = 1.25 / PLATE | DUR.FAC. = 1.25 |
| TC - From | 64 PLF at 0.00 to       | 64 PLF at 6.00  |
| TC - From | 64 PLF at 6.00 to       | 64 PLF at 9.67  |
| TC - From | 64 PLF at 9.67 to       | 64 PLF at 15.67 |
| BC - From | 4 PLF at 0.00 to        | 4 PLF at 15.67  |

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.



R=0 RW=57 U=56 W=6.31"  
 RL=91/-91

R=73 PLF U=9 PLF W=14-1-6

R=0 RW=9 U=7 W=6.31"

Design Crit: FBC2007Res/TPI-2002 (STD)  
 FT/RT=20%(0%)/0(0)

8.07.00.218.13

PLT TYP. Wave

Note: All Plates Are 2x4 Except As Shown.

Scale = .5" / Ft.

|           |          |                       |
|-----------|----------|-----------------------|
| TC LL     | 20.0 PSF | REF R8228- 60879      |
| TC DL     | 10.0 PSF | DATE 02/20/09         |
| BC DL     | 10.0 PSF | DRW HCUR8228 09051015 |
| BC LL     | 0.0 PSF  | HC-ENG JB/WHK         |
| TOT. LD.  | 40.0 PSF | SEQN- 57974           |
| DUR. FAC. | 1.25     | FROM AH               |
| SPACING   | 24.0"    | JREF- 1TPC8228Z02     |

ALPINE

FW Building Components Group Inc.  
 Haines City, FL 33844  
 FL COA #0 278

**JAMES F. COLLINS JR.**  
 No. 52212  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

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

110 mph wind, 21.09 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC DL=5.0 psf, Wind BC DL=2.0 psf, Iw=1.00 Gcpl(+/-)-0.18

Wind reactions based on MWFRS pressures.

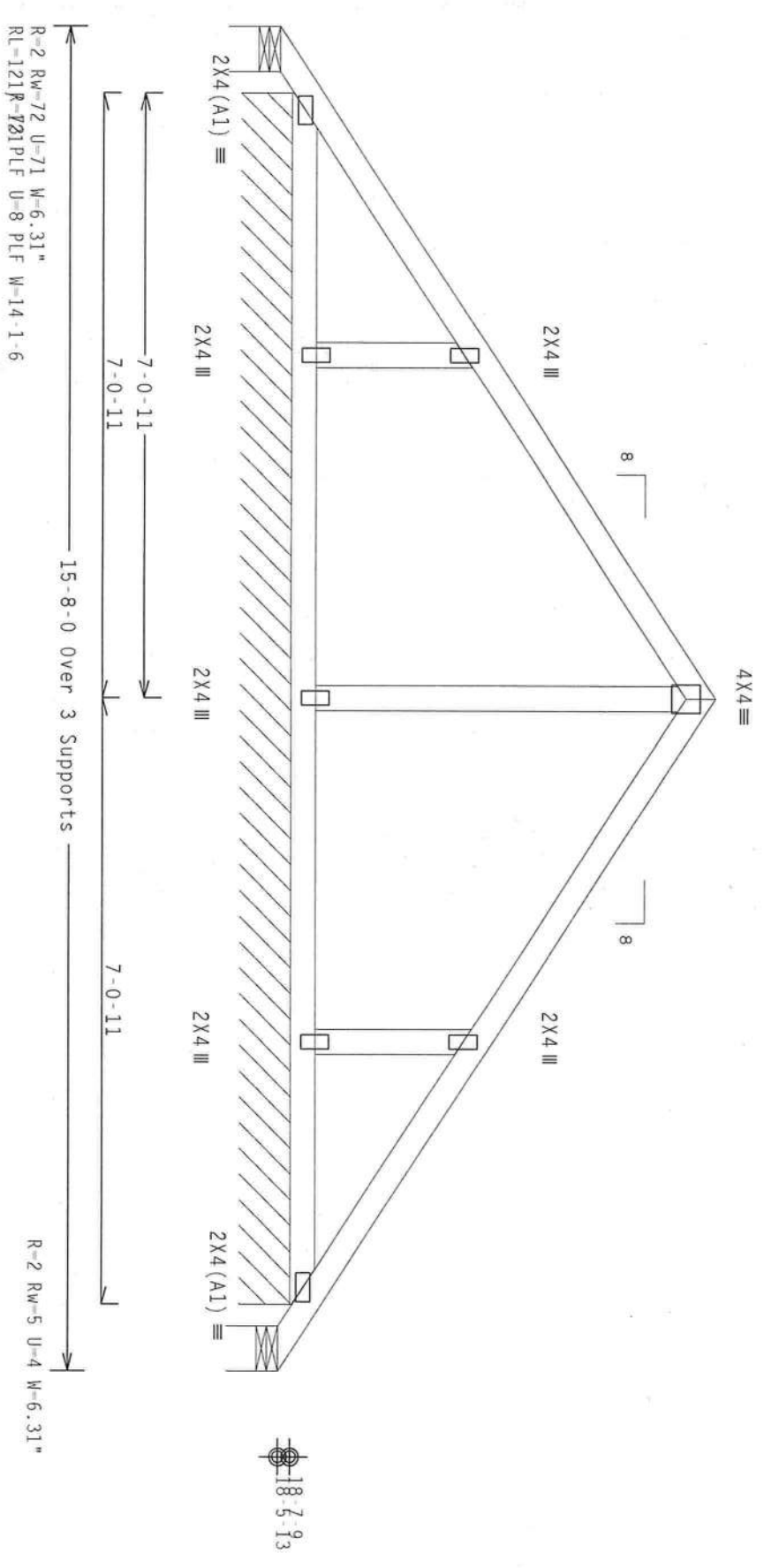
Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

**SPECIAL LOADS**

|           |                                   |                      |
|-----------|-----------------------------------|----------------------|
| TC - From | DUR.FAC. -1.25                    | PLATE DUR.FAC. -1.25 |
| TC - From | 64 PLF at 0.00 to 64 PLF at 7.83  |                      |
| TC - From | 64 PLF at 7.83 to 64 PLF at 15.67 |                      |
| BC - From | 4 PLF at 0.00 to 4 PLF at 15.67   |                      |

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.

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

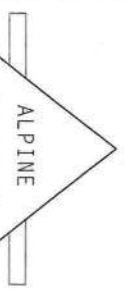


PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)  
 FT/RT=20%(0%)/0(0)

8.07.00

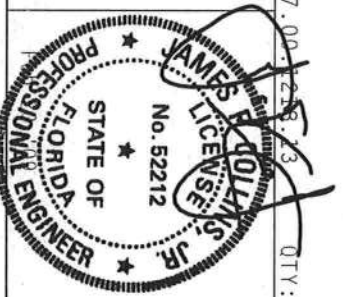
Scale = .5"/ft.



ITW Building Components Group Inc.  
 Haines City, FL 33844  
 FL COA #0 278

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 OXFORD LANE, SUITE 100, SEVINGTON, NJ 07073) FOR SAFETY PRACTICES PRIOR TO FABRICATING THESE TRUSSES. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** PURCHASER 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 THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R8228- 60880      |
| TC DL    | 10.0 PSF | DATE   | 02/20/09          |
| BC DL    | 10.0 PSF | DRW    | HCSR8228 09051016 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WHK            |
| TOT.LD.  | 40.0 PSF | SEQN-  | 57977             |
| DUR.FAC. | 1.25     | FROM   | AH                |
| SPACING  | 24.0"    | JREF-  | 1TPC8228202       |

# CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

## NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

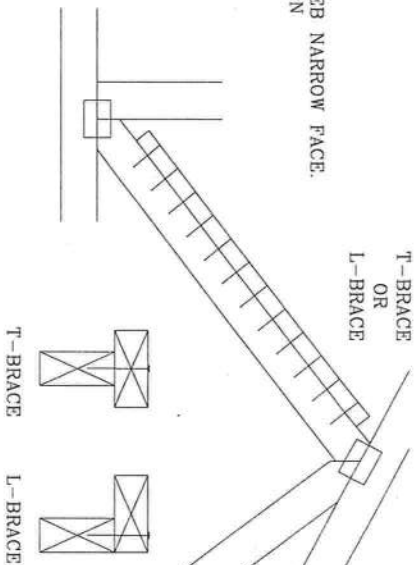
| WEB MEMBER SIZE | SPECIFIED CLB BRACING | T OR L-BRACE | ALTERNATIVE BRACING SCAB BRACE |
|-----------------|-----------------------|--------------|--------------------------------|
| 2X3 OR 2X4      | 1 ROW                 | 2X4          | 1-2X4                          |
| 2X3 OR 2X4      | 2 ROWS                | 2X6          | 2-2X4                          |
| 2X6             | 1 ROW                 | 2X4          | 1-2X6                          |
| 2X6             | 2 ROWS                | 2X6          | 2-2X4(*)                       |
| 2X8             | 1 ROW                 | 2X6          | 1-2X8                          |
| 2X8             | 2 ROWS                | 2X6          | 2-2X6(*)                       |

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(\*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

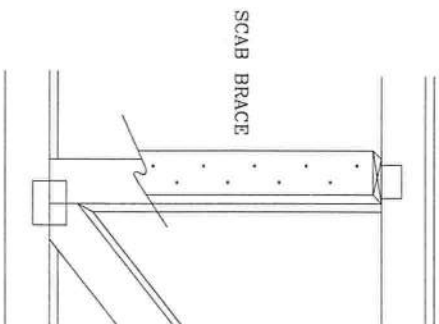
T-BRACING  
OR  
L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.  
ATTACH WITH 10d BOX OR GUN  
(0.128" x 3" MIN) NAILS.  
AT 6" O.C.  
BRACE IS A  
MINIMUM 80% OF WEB  
MEMBER LENGTH



## SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.  
NO MORE THAN (1) SCAB PER FACE.  
ATTACH WITH 10d BOX OR GUN  
(0.128" x 3" MIN) NAILS.  
AT 6" O.C.  
BRACE IS A MINIMUM  
80% OF WEB MEMBER LENGTH

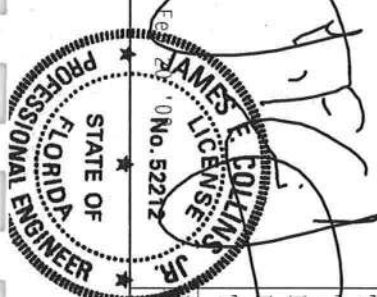


**WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET**  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow these instructions. Trussing Component Safety Information, by TPI and WTA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BSJL. Unless noted otherwise, top chord ceiling members shall be braced on both sides of the truss. All bracing shall be installed per BSJL sections B3 & B7. See this job's general notes page for more information.

**\*\*IMPORTANT\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR**  
The Building Components Group Inc. (TWPBCG) shall not be responsible for any deviation from this design, any failure to build the project in accordance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. Trussing Component Safety Information, by TPI and WTA for safety practices prior to performing these functions. Installers shall provide temporary bracing per BSJL. Unless noted otherwise, top chord ceiling members shall be braced on both sides of the truss. All bracing shall be installed per BSJL sections B3 & B7. See this job's general notes page for more information.

**\*\*IMPORTANT\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR**  
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| TC LL     | PSF | REF  | CLB SUBST.   |
|-----------|-----|------|--------------|
| TC DL     | PSF | DATE | 1/1/09       |
| BC DL     | PSF | DRWG | BRCLBSUB0109 |
| BC LL     | PSF |      |              |
| TOT. LD.  | PSF |      |              |
| DUR. FAC. | PSF |      |              |
| BRACING   | PSF |      |              |





# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 2149 SW SR47, Lake City, FL, 32025- PERMIT #:

| BASE                 |          |             |          | AS-BUILT                      |         |                        |             |                        |                           |                |               |      |        |
|----------------------|----------|-------------|----------|-------------------------------|---------|------------------------|-------------|------------------------|---------------------------|----------------|---------------|------|--------|
| <b>GLASS TYPES</b>   |          |             |          |                               |         |                        |             |                        |                           |                |               |      |        |
| .18                  | X        | Conditioned | X        | BSPM = Points                 | Type/SC | Overhang               |             |                        |                           |                |               |      |        |
|                      |          | Floor Area  |          |                               |         | Ornt                   | Len         | Hgt                    | Area X                    | SPM X          | SOF = Points  |      |        |
| .18                  |          | 3240.0      |          | 20.04                         | 11687.3 | Double, Clear          | N           | 2.0                    | 8.0                       | 36.0           | 19.20         | 0.94 | 648.8  |
|                      |          |             |          |                               |         | Double, Clear          | N           | 2.0                    | 7.0                       | 30.0           | 19.20         | 0.92 | 531.2  |
|                      |          |             |          |                               |         | Double, Clear          | N           | 2.0                    | 3.0                       | 3.0            | 19.20         | 0.78 | 44.8   |
|                      |          |             |          |                               |         | Double, Clear          | N           | 2.0                    | 5.0                       | 9.0            | 19.20         | 0.87 | 150.5  |
|                      |          |             |          |                               |         | Double, Clear          | N           | 2.0                    | 7.0                       | 30.0           | 19.20         | 0.92 | 531.2  |
|                      |          |             |          |                               |         | Double, Clear          | S           | 2.0                    | 7.0                       | 30.0           | 35.87         | 0.82 | 882.5  |
|                      |          |             |          |                               |         | Double, Clear          | S           | 2.0                    | 3.0                       | 3.0            | 35.87         | 0.59 | 63.5   |
|                      |          |             |          |                               |         | Double, Clear          | E           | 2.0                    | 5.0                       | 22.0           | 42.06         | 0.80 | 737.5  |
|                      |          |             |          |                               |         | Double, Clear          | E           | 2.0                    | 7.0                       | 60.0           | 42.06         | 0.89 | 2235.8 |
|                      |          |             |          |                               |         | Double, Clear          | E           | 2.0                    | 5.0                       | 6.0            | 42.06         | 0.80 | 201.1  |
|                      |          |             |          |                               |         | Double, Clear          | W           | 2.0                    | 7.0                       | 11.0           | 38.52         | 0.89 | 375.8  |
|                      |          |             |          |                               |         | Double, Clear          | W           | 2.0                    | 3.0                       | 4.0            | 38.52         | 0.64 | 98.4   |
|                      |          |             |          |                               |         | Double, Clear          | W           | 2.0                    | 7.0                       | 60.0           | 38.52         | 0.89 | 2049.6 |
|                      |          |             |          |                               |         | Double, Clear          | N           | 2.0                    | 7.0                       | 45.0           | 19.20         | 0.92 | 796.8  |
|                      |          |             |          |                               |         | Double, Clear          | N           | 2.0                    | 8.0                       | 20.0           | 19.20         | 0.94 | 360.4  |
|                      |          |             |          |                               |         | Double, Clear          | E           | 2.0                    | 7.0                       | 20.0           | 42.06         | 0.89 | 745.3  |
|                      |          |             |          | <b>As-Built Total:</b>        |         |                        |             |                        | <b>389.0</b>              | <b>10453.2</b> |               |      |        |
| <b>WALL TYPES</b>    |          |             |          | Area X BSPM = Points          |         | Type                   |             | R-Value                | Area X SPM = Points       |                |               |      |        |
| Adjacent             | 0.0      | 0.00        | 0.0      | Frame, Wood, Exterior         | 13.0    | 1865.0                 | 1.50        | 2797.5                 |                           |                |               |      |        |
| Exterior             | 1865.0   | 1.70        | 3170.5   |                               |         |                        |             |                        |                           |                |               |      |        |
| <b>Base Total:</b>   |          |             |          | <b>1865.0</b>                 |         | <b>3170.5</b>          |             | <b>As-Built Total:</b> |                           | <b>1865.0</b>  | <b>2797.5</b> |      |        |
| <b>DOOR TYPES</b>    |          |             |          | Area X BSPM = Points          |         | Type                   |             | Area X SPM = Points    |                           |                |               |      |        |
| Adjacent             | 0.0      | 0.00        | 0.0      | Exterior Insulated            |         | 21.0                   | 4.10        | 86.1                   |                           |                |               |      |        |
| Exterior             | 42.0     | 6.10        | 256.2    | Exterior Insulated            |         | 21.0                   | 4.10        | 86.1                   |                           |                |               |      |        |
| <b>Base Total:</b>   |          |             |          | <b>42.0</b>                   |         | <b>256.2</b>           |             | <b>As-Built Total:</b> |                           | <b>42.0</b>    | <b>172.2</b>  |      |        |
| <b>CEILING TYPES</b> |          |             |          | Area X BSPM = Points          |         | Type                   |             | R-Value                | Area X SPM X SCM = Points |                |               |      |        |
| Under Attic          | 3240.0   | 1.73        | 5605.2   | Under Attic                   | 30.0    | 3240.0                 | 1.73 X 1.00 | 5605.2                 |                           |                |               |      |        |
| <b>Base Total:</b>   |          |             |          | <b>3240.0</b>                 |         | <b>5605.2</b>          |             | <b>As-Built Total:</b> |                           | <b>3240.0</b>  | <b>5605.2</b> |      |        |
| <b>FLOOR TYPES</b>   |          |             |          | Area X BSPM = Points          |         | Type                   |             | R-Value                | Area X SPM = Points       |                |               |      |        |
| Slab                 | 287.0(p) | -37.0       | -10619.0 | Slab-On-Grade Edge Insulation | 0.0     | 287.0(p)               | -41.20      | -11824.4               |                           |                |               |      |        |
| Raised               | 0.0      | 0.00        | 0.0      |                               |         |                        |             |                        |                           |                |               |      |        |
| <b>Base Total:</b>   |          |             |          | <b>-10619.0</b>               |         | <b>As-Built Total:</b> |             | <b>287.0</b>           | <b>-11824.4</b>           |                |               |      |        |



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

|                                              |           |
|----------------------------------------------|-----------|
| ADDRESS: 2149 SW SR47, Lake City, FL, 32025- | PERMIT #: |
|----------------------------------------------|-----------|

| BASE                                                                                                                                     | AS-BUILT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GLASS TYPES</b><br>.18 X Conditioned X BWPM = Points<br>Floor Area                                                                    | Overhang<br>Type/SC      Ornt   Len   Hgt   Area X WPM X WOF = Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| .18      3240.0      12.74      7430.0                                                                                                   | Double, Clear      N   2.0   8.0   36.0   24.58   1.00   886.9<br>Double, Clear      N   2.0   7.0   30.0   24.58   1.00   739.8<br>Double, Clear      N   2.0   3.0   3.0   24.58   1.01   74.7<br>Double, Clear      N   2.0   5.0   9.0   24.58   1.01   222.7<br>Double, Clear      N   2.0   7.0   30.0   24.58   1.00   739.8<br>Double, Clear      S   2.0   7.0   30.0   13.30   1.17   467.1<br>Double, Clear      S   2.0   3.0   3.0   13.30   2.06   82.4<br>Double, Clear      E   2.0   5.0   22.0   18.79   1.08   447.9<br>Double, Clear      E   2.0   7.0   60.0   18.79   1.05   1178.8<br>Double, Clear      E   2.0   5.0   6.0   18.79   1.08   122.2<br>Double, Clear      W   2.0   7.0   11.0   20.73   1.03   235.1<br>Double, Clear      W   2.0   3.0   4.0   20.73   1.12   92.8<br>Double, Clear      W   2.0   7.0   60.0   20.73   1.03   1282.5<br>Double, Clear      N   2.0   7.0   45.0   24.58   1.00   1109.7<br>Double, Clear      N   2.0   8.0   20.0   24.58   1.00   492.7<br>Double, Clear      E   2.0   7.0   20.0   18.79   1.05   392.9<br><br><b>As-Built Total:</b> <b>389.0</b> <b>8568.1</b> |
| <b>WALL TYPES</b> Area X BWPM = Points                                                                                                   | Type      R-Value      Area X WPM = Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Adjacent      0.0      0.00      0.0<br>Exterior      1865.0      3.70      6900.5<br><br><b>Base Total:</b> <b>1865.0</b> <b>6900.5</b> | Frame, Wood, Exterior      13.0      1865.0      3.40      6341.0<br><br><b>As-Built Total:</b> <b>1865.0</b> <b>6341.0</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>DOOR TYPES</b> Area X BWPM = Points                                                                                                   | Type      Area X WPM = Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Adjacent      0.0      0.00      0.0<br>Exterior      42.0      12.30      516.6<br><br><b>Base Total:</b> <b>42.0</b> <b>516.6</b>      | Exterior Insulated      21.0      8.40      176.4<br>Exterior Insulated      21.0      8.40      176.4<br><br><b>As-Built Total:</b> <b>42.0</b> <b>352.8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>CEILING TYPES</b> Area X BWPM = Points                                                                                                | Type      R-Value      Area X WPM X WCM = Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Under Attic      3240.0      2.05      6642.0<br><br><b>Base Total:</b> <b>3240.0</b> <b>6642.0</b>                                      | Under Attic      30.0      3240.0      2.05 X 1.00      6642.0<br><br><b>As-Built Total:</b> <b>3240.0</b> <b>6642.0</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>FLOOR TYPES</b> Area X BWPM = Points                                                                                                  | Type      R-Value      Area X WPM = Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Slab      287.0(p)      8.9      2554.3<br>Raised      0.0      0.00      0.0<br><br><b>Base Total:</b> <b>2554.3</b>                    | Slab-On-Grade Edge Insulation      0.0      287.0(p)      18.80      5395.6<br><br><b>As-Built Total:</b> <b>287.0</b> <b>5395.6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

|                                              |           |
|----------------------------------------------|-----------|
| ADDRESS: 2149 SW SR47, Lake City, FL, 32025- | PERMIT #: |
|----------------------------------------------|-----------|

| BASE                       |                 |                      |                     | AS-BUILT                       |             |                        |                 |                    |                 |                      |                 |                      |                     |
|----------------------------|-----------------|----------------------|---------------------|--------------------------------|-------------|------------------------|-----------------|--------------------|-----------------|----------------------|-----------------|----------------------|---------------------|
| INFILTRATION               | Area X          | BWPM =               | Points              | Area X                         | WPM =       | Points                 |                 |                    |                 |                      |                 |                      |                     |
|                            | 3240.0          | -0.59                | -1911.6             | 3240.0                         | -0.59       | -1911.6                |                 |                    |                 |                      |                 |                      |                     |
| <b>Winter Base Points:</b> |                 |                      | <b>22131.8</b>      | <b>Winter As-Built Points:</b> |             |                        | <b>25387.9</b>  |                    |                 |                      |                 |                      |                     |
| Total Winter<br>Points     | X<br>Multiplier | System<br>Multiplier | = Heating<br>Points | Total<br>Component             | X<br>Ratio  | Cap<br>Multiplier      | X<br>Multiplier | Duct<br>Multiplier | X<br>Multiplier | System<br>Multiplier | X<br>Multiplier | Credit<br>Multiplier | = Heating<br>Points |
|                            |                 |                      |                     |                                |             | (DM x DSM x AHU)       |                 |                    |                 |                      |                 |                      |                     |
| <b>22131.8</b>             | <b>0.6274</b>   |                      | <b>13885.5</b>      | <b>25387.9</b>                 | <b>1.00</b> | (1.069 x 1.169 x 1.00) | <b>0.432</b>    |                    | <b>0.950</b>    |                      |                 |                      | <b>13009.8</b>      |

# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

|                                              |           |
|----------------------------------------------|-----------|
| ADDRESS: 2149 SW SR47, Lake City, FL, 32025- | PERMIT #: |
|----------------------------------------------|-----------|

| BASE                                                       | AS-BUILT                                                                                                                                         |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WATER HEATING</b>                                       |                                                                                                                                                  |
| Number of Bedrooms X Multiplier = Total                    | Tank Volume EF Number of Bedrooms X Tank X Multiplier X Credit = Total Multiplier                                                                |
| 3                      2746.00                      8238.0 | 30.0    0.90                      3                      1.00                      2684.98                      1.00                      8054.9 |
|                                                            | <b>As-Built Total:                      8054.9</b>                                                                                               |

| CODE COMPLIANCE STATUS |   |                |   |                  |          |              |                |   |                |   |                  |   |              |
|------------------------|---|----------------|---|------------------|----------|--------------|----------------|---|----------------|---|------------------|---|--------------|
| BASE                   |   |                |   |                  | AS-BUILT |              |                |   |                |   |                  |   |              |
| Cooling Points         | + | Heating Points | + | Hot Water Points | =        | Total Points | Cooling Points | + | Heating Points | + | Hot Water Points | = | Total Points |
| <b>18421</b>           |   | <b>13885</b>   |   | <b>8238</b>      |          | <b>40544</b> | <b>11081</b>   |   | <b>13010</b>   |   | <b>8055</b>      |   | <b>32146</b> |

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: 2149 SW SR47, Lake City, FL, 32025-

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

| COMPONENTS                    | SECTION         | REQUIREMENTS FOR EACH PRACTICE                                                                                                                                                                                                                                                                                                                                                                                            | CHECK |
|-------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Exterior Windows & Doors      | 606.1.ABC.1.1   | Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.                                                                                                                                                                                                                                                                                                                                                              | ✓     |
| Exterior & Adjacent Walls     | 606.1.ABC.1.2.1 | Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor.<br>EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate. | ✓     |
| Floors                        | 606.1.ABC.1.2.2 | Penetrations/openings >1/8" sealed unless backed by truss or joint members.<br>EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.                                                                                                                                                                                                      | ✓     |
| Ceilings                      | 606.1.ABC.1.2.3 | Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.                                                                        | ✓     |
| Recessed Lighting Fixtures    | 606.1.ABC.1.2.4 | Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.                                                                                                                                                                                                           | ✓     |
| Multi-story Houses            | 606.1.ABC.1.2.5 | Air barrier on perimeter of floor cavity between floors.                                                                                                                                                                                                                                                                                                                                                                  | N/A   |
| Additional Infiltration reqts | 606.1.ABC.1.3   | Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.                                                                                                                                                                                                                                                                                                                 | ✓     |

**6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

| COMPONENTS               | SECTION      | REQUIREMENTS                                                                                                                                                                                                                       | CHECK |
|--------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Water Heaters            | 612.1        | Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.                                                  | ✓     |
| Swimming Pools & Spas    | 612.1        | Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.                                                     | N/A   |
| Shower heads             | 612.1        | Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.                                                                                                                                                   | ✓     |
| Air Distribution Systems | 610.1        | All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation. | ✓     |
| HVAC Controls            | 607.1        | Separate readily accessible manual or automatic thermostat for each system.                                                                                                                                                        | ✓     |
| Insulation               | 604.1, 602.1 | Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides.<br>Common ceiling & floors R-11.                                                                                                                                | ✓     |

# CERTIFICATES OF OCCUPANCY

## 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 18-4S-17-08451-003

Building permit No. 000027742

Use Classification ADDITION TO SFD

Fire: 0.00

Permit Holder BRYAN ZECHER

Waste: 0.00

Owner of Building GREG & KIM HOUSTON

Total: 0.00

Location: 2149 SW SR 47, LAKE CITY, FL

Date: 09/02/2009

*Wayne A. Russ*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)

